

SEQUENCE LISTING

<110> FELDAN BIO INC.
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<120> RATIONALLY-DESIGNED SYNTHETIC PEPTIDE SHUTTLE AGENTS FOR
 DELIVERING POLYPEPTIDE CARGOS FROM AN EXTRACELLULAR SPACE TO THE
 CYTOSOL AND/OR NUCLEUS OF A TARGET EUKARYOTIC CELL, USES THEREOF,
 METHODS AND KITS RELATING TO SAME

<130> 016995-0025

<140> Not yet Assigned
 <141> 2017-10-11

<150> US 62/407,232
 <151> 2016-10-12

<150> US 62/535,015
 <151> 2017-07-20

<150> US 15/666,139
 <151> 2017-08-01

<160> 10242

<170> PatentIn version 3.5

<210> 1
 <211> 18
 <212> PRT
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<220>
 <223> CM18

<400> 1

Lys Trp Lys Leu Phe Lys Lys Ile Gly Ala Val Leu Lys Val Leu Thr
 1 5 10 15

Thr Gly

<210> 2
 <211> 189
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<220>
 <223> Diphtheria toxin T domain (DT)

<400> 2

Val Gly Ser Ser Leu Ser Cys Ile Asn Leu Asp Trp Asp Val Ile Arg
 1 5 10 15

Asp Lys Thr Lys Thr Lys Ile Glu Ser Leu Lys Glu His Gly Pro Ile
 20 25 30

Lys Asn Lys Met Ser Glu Ser Pro Asn Lys Thr Val Ser Glu Glu Lys
 35 40 45

Ala Lys Gln Tyr Leu Glu Glu Phe His Gln Thr Ala Leu Glu His Pro
 50 55 60

Glu Leu Ser Glu Leu Lys Thr Val Thr Gly Thr Asn Pro Val Phe Ala
 65 70 75 80

Gly Ala Asn Tyr Ala Ala Trp Ala Val Asn Val Ala Gln Val Ile Asp
 85 90 95

Ser Glu Thr Ala Asp Asn Leu Glu Lys Thr Thr Ala Ala Leu Ser Ile
 100 105 110

Leu Pro Gly Ile Gly Ser Val Met Gly Ile Ala Asp Gly Ala Val His
 115 120 125

His Asn Thr Glu Glu Ile Val Ala Gln Ser Ile Ala Leu Ser Ser Leu
 130 135 140

Met Val Ala Gln Ala Ile Pro Leu Val Gly Glu Leu Val Asp Ile Gly
 145 150 155 160

Phe Ala Ala Tyr Asn Phe Val Glu Ser Ile Ile Asn Leu Phe Gln Val
 165 170 175

Val His Asn Ser Tyr Asn Arg Pro Ala Tyr Ser Pro Gly
 180 185

<210> 3
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<220>
 <223> GALA

<400> 3

Trp Glu Ala Ala Leu Ala Glu Ala Leu Ala Glu Ala Leu Ala Glu His
 1 5 10 15

Leu Ala Glu Ala Leu Ala Glu Ala Leu Glu Ala Leu Ala Ala
 20 25 30

<210> 4
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<220>
 <223> PEA

<400> 4

Val Leu Ala Gly Asn Pro Ala Lys His Asp Leu Asp Ile Lys Pro Thr
 1 5 10 15

Val Ile Ser His Arg Leu His Phe Pro Glu Gly Gly Ser Leu Ala Ala
 20 25 30

Leu Thr Ala His Gln Ala Cys His Leu Pro Leu Glu Thr Phe Thr Arg
 35 40 45

His Arg Gln Pro Arg Gly Trp Glu Gln Leu Glu Gln Cys Gly Tyr Pro
 50 55 60

Val Gln Arg Leu Val Ala Leu Tyr Leu Ala Ala Arg Leu Ser Trp Asn
 65 70 75 80

Gln Val Asp Gln Val Ile Arg Asn Ala Leu Ala Ser Pro Gly Ser Gly
 85 90 95

Gly Asp Leu Gly Glu Ala Ile Arg Glu Gln Pro Glu Gln Ala Arg Leu
 100 105 110

Ala Leu Thr
 115

<210> 5
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<400> 5

Gly Leu Phe Glu Ala Ile Glu Gly Phe Ile Glu Asn Gly Trp Glu Gly
1 5 10 15

Met Ile Asp Gly Trp Tyr Gly Cys
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<210> 6

<211> 26

<212> PRT

<213> Artificial sequence

<220>

<223> LAH4

<400> 6

Lys Lys Ala Leu Leu Ala Leu Ala Leu His His Leu Ala His Leu Ala
1 5 10 15

Leu His Leu Ala Leu Ala Leu Lys Lys Ala
20 25

<210> 7

<211> 24

<212> PRT

<213> Artificial sequence

<220>

<223> HGP

<400> 7

Leu Leu Gly Arg Arg Gly Trp Glu Val Leu Lys Tyr Trp Trp Asn Leu
1 5 10 15

Leu Gln Tyr Trp Ser Gln Glu Leu
20

<210> 8

<211> 23

<212> PRT

<213> Artificial sequence

<220>

<223> H5WYG

<400> 8

Gly Leu Phe His Ala Ile Ala His Phe Ile His Gly Gly Trp His Gly
1 5 10 15

Leu Ile His Gly Trp Tyr Gly
20

<210> 9
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<220>
<223> HA2

<400> 9

Gly Leu Phe Gly Ala Ile Ala Gly Phe Ile Glu Asn Gly Trp Glu Gly
1 5 10 15

Met Ile Asp Gly Trp Tyr Gly
20

<210> 10
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<220>
<223> EB1

<400> 10

Leu Ile Arg Leu Trp Ser His Leu Ile His Ile Trp Phe Gln Asn Arg
1 5 10 15

Arg Leu Lys Trp Lys Lys Lys
20

<210> 11
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<220>
<223> VSVG

<400> 11

Lys Phe Thr Ile Val Phe Pro His Asn Gln Lys Gly Asn Trp Lys Asn
1 5 10 15

Val Pro Ser Asn Tyr His Tyr Cys Pro
20 25

<210> 12
 <211> 115
 <212> PRT
 <213> Artificial sequence

<220>
 <223> Pseudomonas toxin

<400> 12

Glu Gly Gly Ser Leu Ala Ala Leu Thr Ala His Gln Ala Cys His Leu
 1 5 10 15

Pro Leu Glu Thr Phe Thr Arg His Arg Gln Pro Arg Gly Trp Glu Gln
 20 25 30

Leu Glu Gln Cys Gly Tyr Pro Val Gln Arg Leu Val Ala Leu Tyr Leu
 35 40 45

Ala Ala Arg Leu Ser Trp Asn Gln Val Asp Gln Val Ile Arg Asn Ala
 50 55 60

Leu Ala Ser Pro Gly Ser Gly Gly Asp Leu Gly Glu Ala Ile Arg Glu
 65 70 75 80

Gln Pro Glu Gln Ala Arg Leu Ala Leu Thr Leu Ala Ala Ala Glu Ser
 85 90 95

Glu Arg Phe Val Arg Gln Gly Thr Gly Asn Asp Glu Ala Gly Ala Ala
 100 105 110

Asn Ala Asp
 115

<210> 13
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<220>
 <223> Melittin

<400> 13

Gly Ile Gly Ala Val Leu Lys Val Leu Thr Thr Gly Leu Pro Ala Leu
 1 5 10 15

Ile Ser Trp Ile Lys Arg Lys Arg Gln Gln
 20 25

<210> 14
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<220>
 <223> KALA

<400> 14

Trp Glu Ala Lys Leu Ala Lys Ala Leu Ala Lys Ala Leu Ala Lys His
 1 5 10 15

Leu Ala Lys Ala Leu Ala Lys Ala Leu Lys Ala Cys Glu Ala
 20 25 30

<210> 15
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<220>
 <223> JST-1

<400> 15

Gly Leu Phe Glu Ala Leu Leu Glu Leu Leu Glu Ser Leu Trp Glu Leu
 1 5 10 15

Leu Leu Glu Ala
 20

<210> 16
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<220>
 <223> SP

<400> 16

Ala Ala Val Ala Leu Leu Pro Ala Val Leu Leu Ala Leu Leu Ala Pro
 1 5 10 15

<210> 17
 <211> 11
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<220>

<223> TAT

<400> 17

Tyr Gly Arg Lys Lys Arg Arg Gln Arg Arg Arg
1 5 10

<210> 18

<211> 16

<212> PRT

<213> Artificial sequence

<220>

<223> Penetratin (Antennapedia)

<400> 18

Arg Gln Ile Lys Ile Trp Phe Gln Asn Arg Arg Met Lys Trp Lys Lys
1 5 10 15

<210> 19

<211> 18

<212> PRT

<213> Artificial sequence

<220>

<223> pVEC

<400> 19

Leu Leu Ile Ile Leu Arg Arg Arg Ile Arg Lys Gln Ala His Ala His
1 5 10 15

Ser Lys

<210> 20

<211> 22

<212> PRT

<213> Artificial sequence

<220>

<223> M918

<400> 20

Met Val Thr Val Leu Phe Arg Arg Leu Arg Ile Arg Arg Ala Cys Gly
1 5 10 15

Pro Pro Arg Val Arg Val
20

<210> 21
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 <212> PRT
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<220>
 <223> Pep-1

<400> 21

Lys Glu Thr Trp Trp Glu Thr Trp Trp Thr Glu Trp Ser Gln Pro Lys
 1 5 10 15

Lys Lys Arg Lys Val
 20

<210> 22
 <211> 21
 <212> PRT
 <213> Artificial sequence

<220>
 <223> Pep-2

<400> 22

Lys Glu Thr Trp Phe Glu Thr Trp Phe Thr Glu Trp Ser Gln Pro Lys
 1 5 10 15

Lys Lys Arg Lys Val
 20

<210> 23
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 <212> PRT
 <213> Artificial sequence

<220>
 <223> Xentry

<400> 23

Leu Cys Leu Arg Pro Val Gly
 1 5

<210> 24
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 <212> PRT
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<220>

<223> Arginine stretch

<400> 24

Arg Arg Arg Arg Arg Arg Arg Arg Arg
1 5

<210> 25

<211> 26

<212> PRT

<213> Artificial sequence

<220>

<223> Transportan

<400> 25

Trp Thr Leu Asn Ser Ala Gly Tyr Leu Leu Gly Lys Ile Asn Leu Lys
1 5 10 15

Ala Leu Ala Ala Leu Ala Lys Lys Ile Leu
20 25

<210> 26

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<212> PRT

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<220>

<223> SynB1

<400> 26

Arg Gly Gly Arg Leu Ser Tyr Ser Arg Arg Arg Phe Ser Thr Ser Thr
1 5 10 15

Gly Arg

<210> 27

<211> 10

<212> PRT

<213> Artificial sequence

<220>

<223> SynB3

<400> 27

Arg Arg Leu Ser Tyr Ser Arg Arg Arg Phe
1 5 10

<210> 28
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 <212> PRT
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<400> 28

Lys Arg Pro Arg Pro
 1 5

<210> 29
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<400> 29

Pro Lys Lys Lys Arg Lys Val
 1 5

<210> 30
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 <223> c-myc

<400> 30

Pro Ala Ala Lys Arg Val Lys Leu Asp
 1 5

<210> 31
 <211> 22
 <212> PRT
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<220>
 <223> Op-T-NLS

<400> 31

Ser Ser Asp Asp Glu Ala Thr Ala Asp Ser Gln His Ala Ala Pro Pro
 1 5 10 15

Lys Lys Lys Arg Lys Val
 20

<210> 32
 <211> 5
 <212> PRT
 <213> Artificial sequence

<220>
 <223> Vp3

<400> 32

Lys Lys Lys Arg Lys
 1 5

<210> 33
 <211> 16
 <212> PRT
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<220>
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<400> 33

Lys Arg Pro Ala Ala Thr Lys Lys Ala Gly Gln Ala Lys Lys Lys Lys
 1 5 10 15

<210> 34
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 <223> Histone 2B NLS

<400> 34

Asp Gly Lys Lys Arg Lys Arg Ser Arg Lys
 1 5 10

<210> 35
 <211> 24
 <212> PRT
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<220>
 <223> Xenopus N1

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Val Arg Lys Lys Arg Lys Thr Glu Glu Glu Ser Pro Leu Lys Asp Lys
 1 5 10 15

Asp Ala Lys Lys Ser Lys Gln Glu
20

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<211> 19
<212> PRT
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<223> PARP

<400> 36

Lys Arg Lys Gly Asp Glu Val Asp Gly Val Asp Glu Cys Ala Lys Lys
1 5 10 15

Ser Lys Lys

<210> 37
<211> 7
<212> PRT
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<223> PDX-1

<400> 37

Arg Arg Met Lys Trp Lys Lys
1 5

<210> 38
<211> 7
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<400> 38

Arg Val His Pro Tyr Gln Arg
1 5

<210> 39
<211> 24
<212> PRT
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<220>
<223> HCDA

<400> 39

Lys Arg Pro Ala Cys Thr Leu Lys Pro Glu Cys Val Gln Gln Leu Leu
1 5 10 15

Val Cys Ser Gln Glu Ala Lys Lys
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<210> 40

<211> 7

<212> PRT

<213> Artificial sequence

<220>

<223> H2B

<400> 40

Gly Lys Lys Arg Ser Lys Ala
1 5

<210> 41

<211> 6

<212> PRT

<213> Artificial sequence

<220>

<223> v-Rel

<400> 41

Lys Ala Lys Arg Gln Arg
1 5

<210> 42

<211> 5

<212> PRT

<213> Artificial sequence

<220>

<223> Amida

<400> 42

Arg Lys Arg Arg Arg
1 5

<210> 43

<211> 9

<212> PRT

<213> Artificial sequence

<220>

<223> RanBP3

<400> 43

Pro Pro Val Lys Arg Glu Arg Thr Ser
1 5

<210> 44

<211> 10

<212> PRT

<213> Artificial sequence

<220>

<223> Pho4p

<400> 44

Pro Tyr Leu Asn Lys Arg Lys Gly Lys Pro
1 5 10

<210> 45

<211> 9

<212> PRT

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<223> LEF-1

<400> 45

Lys Lys Lys Lys Arg Lys Arg Glu Lys
1 5

<210> 46

<211> 9

<212> PRT

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<220>

<223> TCF-1

<400> 46

Lys Lys Lys Arg Arg Ser Arg Glu Lys
1 5

<210> 47

<211> 8

<212> PRT

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<223> BDV-P

<400> 47

Pro Arg Pro Arg Lys Ile Pro Arg
1 5

<210> 48

<211> 20

<212> PRT

<213> Artificial sequence

<220>

<223> TR2

<400> 48

Lys Asp Cys Val Ile Asn Lys His His Arg Asn Arg Cys Gln Tyr Cys
1 5 10 15

Arg Leu Gln Arg
20

<210> 49

<211> 5

<212> PRT

<213> Artificial sequence

<220>

<223> SOX9

<400> 49

Pro Arg Arg Arg Lys
1 5

<210> 50

<211> 8

<212> PRT

<213> Artificial sequence

<220>

<223> Max

<400> 50

Pro Gln Ser Arg Lys Lys Leu Arg
1 5

<210> 51

<211> 9

<212> PRT

<213> Artificial sequence

<220>

<223> Mitochondrial signal sequence from Tim9

<400> 51

Asn Leu Val Glu Arg Cys Phe Thr Asp
1 5

<210> 52

<211> 12

<212> PRT

<213> Artificial sequence

<220>

<223> Mitochondrial signal sequence from Yeast cytochrome c oxidase subunit IV

<400> 52

Met Leu Ser Leu Arg Gln Ser Ile Arg Phe Phe Lys
1 5 10

<210> 53

<211> 16

<212> PRT

<213> Artificial sequence

<220>

<223> Mitochondrial signal sequence from 18S rRNA

<400> 53

Met Leu Ile Ser Arg Cys Lys Trp Ser Arg Phe Pro Gly Asn Gln Arg
1 5 10 15

<210> 54

<211> 3

<212> PRT

<213> Artificial sequence

<220>

<223> Peroxisome signal sequence - PTS1

<400> 54

Ser Lys Leu
1

<210> 55

<211> 17

<212> PRT

<213> Artificial sequence

<220>

<223> Nucleolar signal sequence from BIRC5

<400> 55

Met	Gln	Arg	Lys	Pro	Thr	Ile	Arg	Arg	Lys	Asn	Leu	Arg	Leu	Arg	Arg
1				5					10					15	

Lys

<210> 56

<211> 11

<212> PRT

<213> Artificial sequence

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<223> Nucleolar signal sequence from RECQL4

<400> 56

Lys	Gln	Ala	Trp	Lys	Gln	Lys	Trp	Arg	Lys	Lys
1				5					10	

<210> 57

<211> 29

<212> PRT

<213> Artificial sequence

<220>

<223> CM18-TAT

<400> 57

Lys	Trp	Lys	Leu	Phe	Lys	Lys	Ile	Gly	Ala	Val	Leu	Lys	Val	Leu	Thr
1				5					10					15	

Thr	Gly	Tyr	Gly	Arg	Lys	Lys	Arg	Arg	Gln	Arg	Arg	Arg
			20					25				

<210> 58

<211> 34

<212> PRT

<213> Artificial sequence

<220>

<223> CM18-Penetratin

<400> 58

Lys	Trp	Lys	Leu	Phe	Lys	Lys	Ile	Gly	Ala	Val	Leu	Lys	Val	Leu	Thr
1				5					10					15	

Thr Gly Arg Gln Ile Lys Ile Trp Phe Gln Asn Arg Arg Met Lys Trp

20

25

30

Lys Lys

<210> 59
 <211> 36
 <212> PRT
 <213> Artificial sequence

<220>
 <223> His-CM18-TAT

<400> 59

Met His His His His His His Lys Trp Lys Leu Phe Lys Lys Ile Gly
 1 5 10 15

Ala Val Leu Lys Val Leu Thr Thr Gly Tyr Gly Arg Lys Lys Arg Arg
 20 25 30

Gln Arg Arg Arg
 35

<210> 60
 <211> 290
 <212> PRT
 <213> Artificial sequence

<220>
 <223> GFP

<400> 60

Met His His His His His His Gly Gly Gly Gly Ser Gly Gly Gly Gly
 1 5 10 15

Ser Gly Gly Ala Ser Thr Gly Thr Gly Ile Arg Met Val Ser Lys Gly
 20 25 30

Glu Glu Leu Phe Thr Gly Val Val Pro Ile Leu Val Glu Leu Asp Gly
 35 40 45

Asp Val Asn Gly His Lys Phe Ser Val Ser Gly Glu Gly Glu Gly Asp
 50 55 60

Ala Thr Tyr Gly Lys Leu Thr Leu Lys Phe Ile Cys Thr Thr Gly Lys
 65 70 75 80

Leu Pro Val Pro Trp Pro Thr Leu Val Thr Thr Leu Thr Tyr Gly Val
85 90 95

Gln Cys Phe Ser Arg Tyr Pro Asp His Met Lys Gln His Asp Phe Phe
100 105 110

Lys Ser Ala Met Pro Glu Gly Tyr Val Gln Glu Arg Thr Ile Phe Phe
115 120 125

Lys Asp Asp Gly Asn Tyr Lys Thr Arg Ala Glu Val Lys Phe Glu Gly
130 135 140

Asp Thr Leu Val Asn Arg Ile Glu Leu Lys Gly Ile Asp Phe Lys Glu
145 150 155 160

Asp Gly Asn Ile Leu Gly His Lys Leu Glu Tyr Asn Tyr Asn Ser His
165 170 175

Asn Val Tyr Ile Met Ala Asp Lys Gln Lys Asn Gly Ile Lys Val Asn
180 185 190

Phe Lys Ile Arg His Asn Ile Glu Asp Gly Ser Val Gln Leu Ala Asp
195 200 205

His Tyr Gln Gln Asn Thr Pro Ile Gly Asp Gly Pro Val Leu Leu Pro
210 215 220

Asp Asn His Tyr Leu Ser Thr Gln Ser Ala Leu Ser Lys Asp Pro Asn
225 230 235 240

Glu Lys Arg Asp His Met Val Leu Leu Glu Phe Val Thr Ala Ala Gly
245 250 255

Ile Thr Leu Gly Met Asp Glu Leu Tyr Lys Gly Gly Ser Gly Gly Gly
260 265 270

Ser Gly Gly Gly Ser Gly Trp Ile Arg Ala Ser Ser Gly Gly Arg Glu
275 280 285

Ile Ser
290

<210> 61

<211> 317
 <212> PRT
 <213> Artificial sequence

<220>
 <223> TAT-GFP

<400> 61

Met His His His His His His Gly Gly Gly Gly Ser Gly Gly Gly Gly
 1 5 10 15

Ser Gly Gly Ala Ser Thr Gly Thr Gly Arg Lys Lys Arg Arg Gln Arg
 20 25 30

Arg Arg Pro Pro Gln Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly
 35 40 45

Gly Gly Thr Gly Ile Arg Met Val Ser Lys Gly Glu Glu Leu Phe Thr
 50 55 60

Gly Val Val Pro Ile Leu Val Glu Leu Asp Gly Asp Val Asn Gly His
 65 70 75 80

Lys Phe Ser Val Ser Gly Glu Gly Glu Gly Asp Ala Thr Tyr Gly Lys
 85 90 95

Leu Thr Leu Lys Phe Ile Cys Thr Thr Gly Lys Leu Pro Val Pro Trp
 100 105 110

Pro Thr Leu Val Thr Thr Leu Thr Tyr Gly Val Gln Cys Phe Ser Arg
 115 120 125

Tyr Pro Asp His Met Lys Gln His Asp Phe Phe Lys Ser Ala Met Pro
 130 135 140

Glu Gly Tyr Val Gln Glu Arg Thr Ile Phe Phe Lys Asp Asp Gly Asn
 145 150 155 160

Tyr Lys Thr Arg Ala Glu Val Lys Phe Glu Gly Asp Thr Leu Val Asn
 165 170 175

Arg Ile Glu Leu Lys Gly Ile Asp Phe Lys Glu Asp Gly Asn Ile Leu
 180 185 190

Gly His Lys Leu Glu Tyr Asn Tyr Asn Ser His Asn Val Tyr Ile Met

195 200 205
 Ala Asp Lys Gln Lys Asn Gly Ile Lys Val Asn Phe Lys Ile Arg His
 210 215 220
 Asn Ile Glu Asp Gly Ser Val Gln Leu Ala Asp His Tyr Gln Gln Asn
 225 230 235 240
 Thr Pro Ile Gly Asp Gly Pro Val Leu Leu Pro Asp Asn His Tyr Leu
 245 250 255
 Ser Thr Gln Ser Ala Leu Ser Lys Asp Pro Asn Glu Lys Arg Asp His
 260 265 270
 Met Val Leu Leu Glu Phe Val Thr Ala Ala Gly Ile Thr Leu Gly Met
 275 280 285
 Asp Glu Leu Tyr Lys Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser
 290 295 300
 Gly Trp Ile Arg Ala Ser Ser Gly Gly Arg Glu Ile Ser
 305 310 315

 <210> 62
 <211> 327
 <212> PRT
 <213> Artificial sequence

 <220>
 <223> GFP-NLS

 <400> 62
 Met His His His His His His Gly Gly Gly Gly Ser Gly Gly Gly Gly
 1 5 10 15
 Ser Gly Gly Ala Ser Thr Gly Ile Arg Met Val Ser Lys Gly Glu Glu
 20 25 30
 Leu Phe Thr Gly Val Val Pro Ile Leu Val Glu Leu Asp Gly Asp Val
 35 40 45
 Asn Gly His Lys Phe Ser Val Ser Gly Glu Gly Glu Gly Asp Ala Thr
 50 55 60
 Tyr Gly Lys Leu Thr Leu Lys Phe Ile Cys Thr Thr Gly Lys Leu Pro

Arg Lys Val Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly
 305 310 315 320

Gly Arg Gly Thr Glu Ile Ser
 325

<210> 63
 <211> 14
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> C(LLKK)3C

<400> 63

Cys Leu Leu Lys Lys Leu Leu Lys Lys Leu Leu Lys Lys Cys
 1 5 10

<210> 64
 <211> 14
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> G(LLKK)3G

<400> 64

Gly Leu Leu Lys Lys Leu Leu Lys Lys Leu Leu Lys Lys Gly
 1 5 10

<210> 65
 <211> 11
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> PTD4

<400> 65

Tyr Ala Arg Ala Ala Ala Arg Gln Ala Arg Ala
 1 5 10

<210> 66
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> TAT-CM18

<400> 66

Tyr Gly Arg Lys Lys Arg Arg Gln Arg Arg Arg Cys Lys Trp Lys Leu
1 5 10 15

Phe Lys Lys Ile Gly Ala Val Leu Lys Val Leu Thr Thr Gly
20 25 30

<210> 67

<211> 42

<212> PRT

<213> Artificial Sequence

<220>

<223> TAT-KALA

<400> 67

Tyr Gly Arg Lys Lys Arg Arg Gln Arg Arg Arg Cys Trp Glu Ala Lys
1 5 10 15

Leu Ala Lys Ala Leu Ala Lys Ala Leu Ala Lys His Leu Ala Lys Ala
20 25 30

Leu Ala Lys Ala Leu Lys Ala Cys Glu Ala
35 40

<210> 68

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> His-CM18-PTD4

<400> 68

His His His His His His Lys Trp Lys Leu Phe Lys Lys Ile Gly Ala
1 5 10 15

Val Leu Lys Val Leu Thr Thr Gly Tyr Ala Arg Ala Ala Ala Arg Gln
20 25 30

Ala Arg Ala
35

<210> 69

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> His-CM18-9Arg

<400> 69

His His His His His His Lys Trp Lys Leu Phe Lys Lys Ile Gly Ala
1 5 10 15

Val Leu Lys Val Leu Thr Thr Gly Arg Arg Arg Arg Arg Arg Arg Arg
20 25 30

Arg

<210> 70

<211> 50

<212> PRT

<213> Artificial Sequence

<220>

<223> His-CM18-Transportan

<400> 70

His His His His His His Lys Trp Lys Leu Phe Lys Lys Ile Gly Ala
1 5 10 15

Val Leu Lys Val Leu Thr Thr Gly Gly Trp Thr Leu Asn Ser Ala Gly
20 25 30

Tyr Leu Leu Lys Ile Asn Leu Lys Ala Leu Ala Ala Leu Ala Lys Lys
35 40 45

Ile Leu
50

<210> 71

<211> 43

<212> PRT

<213> Artificial Sequence

<220>

<223> His-LAH4-PDT4

<400> 71

His His His His His His Lys Lys Ala Leu Leu Ala Leu Ala Leu His
1 5 10 15

His Leu Ala His Leu Ala Leu His Leu Ala Leu Ala Leu Lys Lys Ala
 20 25 30

Tyr Ala Arg Ala Ala Ala Arg Gln Ala Arg Ala
 35 40

<210> 72
 <211> 31
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> His-C(LLKK)3C-PDT4

<400> 72

His His His His His His Cys Leu Leu Lys Lys Leu Leu Lys Lys Leu
 1 5 10 15

Leu Lys Lys Cys Tyr Ala Arg Ala Ala Ala Arg Gln Ala Arg Ala
 20 25 30

<210> 73
 <211> 324
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> mCherry-NLS

<400> 73

Met His His His His His His Gly Gly Gly Gly Ser Gly Gly Gly Gly
 1 5 10 15

Ser Gly Gly Ala Ser Thr Gly Ile Arg Met Val Ser Lys Cys Glu Glu
 20 25 30

Asp Asn Met Ala Ile Ile Lys Glu Phe Met Arg Phe Lys Val His Met
 35 40 45

Glu Gly Ser Val Asn Gly His Glu Phe Glu Ile Glu Gly Glu Gly Glu
 50 55 60

Gly Arg Pro Tyr Glu Gly Thr Gln Thr Ala Lys Leu Lys Val Thr Lys
 65 70 75 80

Gly Gly Pro Leu Pro Phe Ala Trp Asp Ile Leu Ser Pro Gln Phe Met

85								90					95				
Tyr	Gly	Ser	Lys	Ala	Tyr	Val	Lys	His	Pro	Ala	Asp	Ile	Pro	Asp	Tyr		
			100					105					110				
Leu	Lys	Leu	Ser	Phe	Pro	Glu	Gly	Phe	Lys	Trp	Glu	Arg	Val	Met	Asn		
		115					120					125					
Phe	Glu	Asp	Gly	Gly	Val	Val	Thr	Val	Thr	Gln	Asp	Ser	Ser	Leu	Gln		
	130					135					140						
Asp	Gly	Glu	Phe	Ile	Tyr	Lys	Val	Lys	Leu	Arg	Gly	Thr	Asn	Phe	Pro		
145					150					155					160		
Ser	Asp	Gly	Gln	Val	Met	Gln	Lys	Lys	Thr	Met	Gly	Trp	Glu	Ala	Ser		
				165					170					175			
Ser	Glu	Arg	Met	Tyr	Pro	Glu	Asp	Gly	Ala	Leu	Lys	Gly	Glu	Ile	Lys		
			180					185					190				
Gln	Arg	Leu	Lys	Leu	Lys	Asp	Gly	Gly	His	Tyr	Asp	Ala	Glu	Val	Lys		
		195					200					205					
Thr	Thr	Tyr	Lys	Ala	Lys	Lys	Pro	Val	Gln	Leu	Pro	Gly	Ala	Tyr	Asn		
	210					215					220						
Val	Asn	Ile	Lys	Leu	Asp	Ile	Thr	Ser	His	Asn	Glu	Asp	Tyr	Thr	Ile		
225					230					235					240		
Val	Glu	Gln	Tyr	Glu	Arg	Ala	Glu	Gly	Arg	His	Ser	Thr	Gly	Gly	Met		
				245					250					255			
Asp	Glu	Leu	Tyr	Lys	Gly	Gly	Ser	Gly	Gly	Gly	Ser	Gly	Gly	Gly	Ser		
			260					265					270				
Gly	Trp	Ile	Arg	Ala	Ser	Ser	Gly	Gly	Arg	Ser	Ser	Asp	Asp	Glu	Ala		
		275					280					285					
Thr	Ala	Asp	Ser	Gln	His	Ala	Ala	Pro	Pro	Lys	Lys	Lys	Arg	Lys	Val		
	290					295					300						
Gly	Gly	Ser	Gly	Gly	Gly	Ser	Gly	Gly	Gly	Ser	Gly	Gly	Gly	Arg	Gly		
305					310					315					320		

Thr Glu Ile Ser

<210> 74
 <211> 1414
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Cas9-NLS

<400> 74

Met Asp Lys Lys Tyr Ser Ile Gly Leu Asp Ile Gly Thr Asn Ser Val
 1 5 10 15

Gly Trp Ala Val Ile Thr Asp Glu Tyr Lys Val Pro Ser Lys Lys Phe
 20 25 30

Lys Val Leu Gly Asn Thr Asp Arg His Ser Ile Lys Lys Asn Leu Ile
 35 40 45

Gly Ala Leu Leu Phe Asp Ser Gly Glu Thr Ala Glu Ala Thr Arg Leu
 50 55 60

Lys Arg Thr Ala Arg Arg Arg Tyr Thr Arg Arg Lys Asn Arg Ile Cys
 65 70 75 80

Tyr Leu Gln Glu Ile Phe Ser Asn Glu Met Ala Lys Val Asp Asp Ser
 85 90 95

Phe Phe His Arg Leu Glu Glu Ser Phe Leu Val Glu Glu Asp Lys Lys
 100 105 110

His Glu Arg His Pro Ile Phe Gly Asn Ile Val Asp Glu Val Ala Tyr
 115 120 125

His Glu Lys Tyr Pro Thr Ile Tyr His Leu Arg Lys Lys Leu Val Asp
 130 135 140

Ser Thr Asp Lys Ala Asp Leu Arg Leu Ile Tyr Leu Ala Leu Ala His
 145 150 155 160

Met Ile Lys Phe Arg Gly His Phe Leu Ile Glu Gly Asp Leu Asn Pro
 165 170 175

Asp Asn Ser Asp Val Asp Lys Leu Phe Ile Gln Leu Val Gln Thr Tyr
 180 185 190

Asn Gln Leu Phe Glu Glu Asn Pro Ile Asn Ala Ser Gly Val Asp Ala
 195 200 205

Lys Ala Ile Leu Ser Ala Arg Leu Ser Lys Ser Arg Arg Leu Glu Asn
 210 215 220

Leu Ile Ala Gln Leu Pro Gly Glu Lys Lys Asn Gly Leu Phe Gly Asn
 225 230 235 240

Leu Ile Ala Leu Ser Leu Gly Leu Thr Pro Asn Phe Lys Ser Asn Phe
 245 250 255

Asp Leu Ala Glu Asp Ala Lys Leu Gln Leu Ser Lys Asp Thr Tyr Asp
 260 265 270

Asp Asp Leu Asp Asn Leu Leu Ala Gln Ile Gly Asp Gln Tyr Ala Asp
 275 280 285

Leu Phe Leu Ala Ala Lys Asn Leu Ser Asp Ala Ile Leu Leu Ser Asp
 290 295 300

Ile Leu Arg Val Asn Thr Glu Ile Thr Lys Ala Pro Leu Ser Ala Ser
 305 310 315 320

Met Ile Lys Arg Tyr Asp Glu His His Gln Asp Leu Thr Leu Leu Lys
 325 330 335

Ala Leu Val Arg Gln Gln Leu Pro Glu Lys Tyr Lys Glu Ile Phe Phe
 340 345 350

Asp Gln Ser Lys Asn Gly Tyr Ala Gly Tyr Ile Asp Gly Gly Ala Ser
 355 360 365

Gln Glu Glu Phe Tyr Lys Phe Ile Lys Pro Ile Leu Glu Lys Met Asp
 370 375 380

Gly Thr Glu Glu Leu Leu Val Lys Leu Asn Arg Glu Asp Leu Leu Arg
 385 390 395 400

Lys Gln Arg Thr Phe Asp Asn Gly Ser Ile Pro His Gln Ile His Leu

				405						410						415
Gly	Glu	Leu	His	Ala	Ile	Leu	Arg	Arg	Gln	Glu	Asp	Phe	Tyr	Pro	Phe	
			420					425					430			
Leu	Lys	Asp	Asn	Arg	Glu	Lys	Ile	Glu	Lys	Ile	Leu	Thr	Phe	Arg	Ile	
		435					440					445				
Pro	Tyr	Tyr	Val	Gly	Pro	Leu	Ala	Arg	Gly	Asn	Ser	Arg	Phe	Ala	Trp	
	450					455					460					
Met	Thr	Arg	Lys	Ser	Glu	Glu	Thr	Ile	Thr	Pro	Trp	Asn	Phe	Glu	Glu	
465					470					475					480	
Val	Val	Asp	Lys	Gly	Ala	Ser	Ala	Gln	Ser	Phe	Ile	Glu	Arg	Met	Thr	
				485					490					495		
Asn	Phe	Asp	Lys	Asn	Leu	Pro	Asn	Glu	Lys	Val	Leu	Pro	Lys	His	Ser	
			500					505					510			
Leu	Leu	Tyr	Glu	Tyr	Phe	Thr	Val	Tyr	Asn	Glu	Leu	Thr	Lys	Val	Lys	
		515					520					525				
Tyr	Val	Thr	Glu	Gly	Met	Arg	Lys	Pro	Ala	Phe	Leu	Ser	Gly	Glu	Gln	
	530					535					540					
Lys	Lys	Ala	Ile	Val	Asp	Leu	Leu	Phe	Lys	Thr	Asn	Arg	Lys	Val	Thr	
545					550					555					560	
Val	Lys	Gln	Leu	Lys	Glu	Asp	Tyr	Phe	Lys	Lys	Ile	Glu	Cys	Phe	Asp	
				565					570					575		
Ser	Val	Glu	Ile	Ser	Gly	Val	Glu	Asp	Arg	Phe	Asn	Ala	Ser	Leu	Gly	
			580					585					590			
Thr	Tyr	His	Asp	Leu	Leu	Lys	Ile	Ile	Lys	Asp	Lys	Asp	Phe	Leu	Asp	
		595					600					605				
Asn	Glu	Glu	Asn	Glu	Asp	Ile	Leu	Glu	Asp	Ile	Val	Leu	Thr	Leu	Thr	
	610					615					620					
Leu	Phe	Glu	Asp	Arg	Glu	Met	Ile	Glu	Glu	Arg	Leu	Lys	Thr	Tyr	Ala	
625					630					635					640	

His Leu Phe Asp Asp Lys Val Met Lys Gln Leu Lys Arg Arg Arg Tyr
645 650 655

Thr Gly Trp Gly Arg Leu Ser Arg Lys Leu Ile Asn Gly Ile Arg Asp
660 665 670

Lys Gln Ser Gly Lys Thr Ile Leu Asp Phe Leu Lys Ser Asp Gly Phe
675 680 685

Ala Asn Arg Asn Phe Met Gln Leu Ile His Asp Asp Ser Leu Thr Phe
690 695 700

Lys Glu Asp Ile Gln Lys Ala Gln Val Ser Gly Gln Gly Asp Ser Leu
705 710 715 720

His Glu His Ile Ala Asn Leu Ala Gly Ser Pro Ala Ile Lys Lys Gly
725 730 735

Ile Leu Gln Thr Val Lys Val Val Asp Glu Leu Val Lys Val Met Gly
740 745 750

Arg His Lys Pro Glu Asn Ile Val Ile Glu Met Ala Arg Glu Asn Gln
755 760 765

Thr Thr Gln Lys Gly Gln Lys Asn Ser Arg Glu Arg Met Lys Arg Ile
770 775 780

Glu Glu Gly Ile Lys Glu Leu Gly Ser Gln Ile Leu Lys Glu His Pro
785 790 795 800

Val Glu Asn Thr Gln Leu Gln Asn Glu Lys Leu Tyr Leu Tyr Tyr Leu
805 810 815

Gln Asn Gly Arg Asp Met Tyr Val Asp Gln Glu Leu Asp Ile Asn Arg
820 825 830

Leu Ser Asp Tyr Asp Val Asp His Ile Val Pro Gln Ser Phe Leu Lys
835 840 845

Asp Asp Ser Ile Asp Asn Lys Val Leu Thr Arg Ser Asp Lys Asn Arg
850 855 860

Gly Lys Ser Asp Asn Val Pro Ser Glu Glu Val Val Lys Lys Met Lys

865		870		875		880
Asn Tyr Trp Arg Gln Leu Leu Asn Ala Lys Leu Ile Thr Gln Arg Lys						
		885		890		895
Phe Asp Asn Leu Thr Lys Ala Glu Arg Gly Gly Leu Ser Glu Leu Asp						
		900		905		910
Lys Ala Gly Phe Ile Lys Arg Gln Leu Val Glu Thr Arg Gln Ile Thr						
		915		920		925
Lys His Val Ala Gln Ile Leu Asp Ser Arg Met Asn Thr Lys Tyr Asp						
		930		935		940
Glu Asn Asp Lys Leu Ile Arg Glu Val Lys Val Ile Thr Leu Lys Ser						
		945		950		955
Lys Leu Val Ser Asp Phe Arg Lys Asp Phe Gln Phe Tyr Lys Val Arg						
		965		970		975
Glu Ile Asn Asn Tyr His His Ala His Asp Ala Tyr Leu Asn Ala Val						
		980		985		990
Val Gly Thr Ala Leu Ile Lys Lys Tyr Pro Lys Leu Glu Ser Glu Phe						
		995		1000		1005
Val Tyr Gly Asp Tyr Lys Val Tyr Asp Val Arg Lys Met Ile Ala						
		1010		1015		1020
Lys Ser Glu Gln Glu Ile Gly Lys Ala Thr Ala Lys Tyr Phe Phe						
		1025		1030		1035
Tyr Ser Asn Ile Met Asn Phe Phe Lys Thr Glu Ile Thr Leu Ala						
		1040		1045		1050
Asn Gly Glu Ile Arg Lys Arg Pro Leu Ile Glu Thr Asn Gly Glu						
		1055		1060		1065
Thr Gly Glu Ile Val Trp Asp Lys Gly Arg Asp Phe Ala Thr Val						
		1070		1075		1080
Arg Lys Val Leu Ser Met Pro Gln Val Asn Ile Val Lys Lys Thr						
		1085		1090		1095

Glu	Val	Gln	Thr	Gly	Gly	Phe	Ser	Lys	Glu	Ser	Ile	Leu	Pro	Lys
1100						1105					1110			
Arg	Asn	Ser	Asp	Lys	Leu	Ile	Ala	Arg	Lys	Lys	Asp	Trp	Asp	Pro
1115						1120					1125			
Lys	Lys	Tyr	Gly	Gly	Phe	Asp	Ser	Pro	Thr	Val	Ala	Tyr	Ser	Val
1130						1135					1140			
Leu	Val	Val	Ala	Lys	Val	Glu	Lys	Gly	Lys	Ser	Lys	Lys	Leu	Lys
1145						1150					1155			
Ser	Val	Lys	Glu	Leu	Leu	Gly	Ile	Thr	Ile	Met	Glu	Arg	Ser	Ser
1160						1165					1170			
Phe	Glu	Lys	Asn	Pro	Ile	Asp	Phe	Leu	Glu	Ala	Lys	Gly	Tyr	Lys
1175						1180					1185			
Glu	Val	Lys	Lys	Asp	Leu	Ile	Ile	Lys	Leu	Pro	Lys	Tyr	Ser	Leu
1190						1195					1200			
Phe	Glu	Leu	Glu	Asn	Gly	Arg	Lys	Arg	Met	Leu	Ala	Ser	Ala	Gly
1205						1210					1215			
Glu	Leu	Gln	Lys	Gly	Asn	Glu	Leu	Ala	Leu	Pro	Ser	Lys	Tyr	Val
1220						1225					1230			
Asn	Phe	Leu	Tyr	Leu	Ala	Ser	His	Tyr	Glu	Lys	Leu	Lys	Gly	Ser
1235						1240					1245			
Pro	Glu	Asp	Asn	Glu	Gln	Lys	Gln	Leu	Phe	Val	Glu	Gln	His	Lys
1250						1255					1260			
His	Tyr	Leu	Asp	Glu	Ile	Ile	Glu	Gln	Ile	Ser	Glu	Phe	Ser	Lys
1265						1270					1275			
Arg	Val	Ile	Leu	Ala	Asp	Ala	Asn	Leu	Asp	Lys	Val	Leu	Ser	Ala
1280						1285					1290			
Tyr	Asn	Lys	His	Arg	Asp	Lys	Pro	Ile	Arg	Glu	Gln	Ala	Glu	Asn
1295						1300					1305			
Ile	Ile	His	Leu	Phe	Thr	Leu	Thr	Asn	Leu	Gly	Ala	Pro	Ala	Ala

1310		1315		1320
Phe Lys Tyr Phe Asp Thr Thr Ile Asp Arg Lys Arg Tyr Thr Ser				
1325		1330		1335
Thr Lys Glu Val Leu Asp Ala Thr Leu Ile His Gln Ser Ile Thr				
1340		1345		1350
Gly Leu Tyr Glu Thr Arg Ile Asp Leu Ser Gln Leu Gly Gly Asp				
1355		1360		1365
Gly Gly Arg Ser Ser Asp Asp Glu Ala Thr Ala Asp Ser Gln His				
1370		1375		1380
Ala Ala Pro Pro Lys Lys Lys Arg Lys Val Gly Gly Ser Gly Gly				
1385		1390		1395
Gly Ser Gly Gly Gly Ser Gly Gly Gly Arg His His His His His				
1400		1405		1410

His

<210> 75
 <211> 42
 <212> RNA
 <213> Artificial Sequence

<220>
 <223> crRNA (Example 13.3)

<400> 75
 gaguccgagc agaagaagaa guuuuagagc uaugcuguuu ug
 42

<210> 76
 <211> 69
 <212> RNA
 <213> Artificial Sequence

<220>
 <223> tracrRNA (Example 13.3)

<400> 76
 aaacagcaua gcaaguuaaa auaaggcuag uccguuauca acuugaaaaa guggcaccga
 60

gucggugcu
 69

<210> 77
 <211> 69
 <212> RNA
 <213> Artificial Sequence

<220>
 <223> tracrRNA (Example 13.5)

<400> 77
 aaacagcaua gcaaguuaaa auaaggcuag uccguuauca acuugaaaaa guggcaccga
 60

gucggugcu
 69

<210> 78
 <211> 42
 <212> RNA
 <213> Artificial Sequence

<220>
 <223> PPIB crRNA (Example 13.5)

<400> 78
 guguaauuug accuacgaau guuuuagagc uaugcuguuu ug
 42

<210> 79
 <211> 74
 <212> RNA
 <213> Artificial Sequence

<220>
 <223> PPIB tracrRNA (Example 13.5)

<400> 79
 aacagcauag caaguuaaaa uaaggcuagu ccguuaucaa cuugaaaaag uggcaccgag
 60

ucggugcuuu uuuu
 74

<210> 80
 <211> 246
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> HOXB4-WT

<400> 80

Met His His His His His His Met Ala Met Ser Ser Phe Leu Ile Asn

1		5		10		15										
Ser	Asn	Tyr	Val	Asp	Pro	Lys	Phe	Pro	Pro	Cys	Glu	Glu	Tyr	Ser	Gln	
			20					25					30			
Ser	Asp	Tyr	Leu	Pro	Ser	Asp	His	Ser	Pro	Gly	Tyr	Tyr	Ala	Gly	Gly	
		35					40					45				
Gln	Arg	Arg	Glu	Ser	Ser	Phe	Gln	Pro	Glu	Ala	Gly	Phe	Gly	Arg	Arg	
	50					55					60					
Ala	Ala	Cys	Thr	Val	Gln	Arg	Tyr	Pro	Pro	Pro	Pro	Pro	Pro	Pro	Pro	
65					70				75						80	
Pro	Pro	Gly	Leu	Ser	Pro	Arg	Ala	Pro	Ala	Pro	Pro	Pro	Ala	Gly	Ala	
				85					90					95		
Leu	Leu	Pro	Glu	Pro	Gly	Gln	Arg	Cys	Glu	Ala	Val	Ser	Ser	Ser	Pro	
			100					105					110			
Pro	Pro	Pro	Pro	Cys	Ala	Gln	Asn	Pro	Leu	His	Pro	Ser	Pro	Ser	His	
		115					120					125				
Ser	Ala	Cys	Lys	Glu	Pro	Val	Val	Tyr	Pro	Trp	Met	Arg	Lys	Val	His	
	130					135					140					
Val	Ser	Thr	Val	Asn	Pro	Asn	Tyr	Ala	Gly	Gly	Glu	Pro	Lys	Arg	Ser	
145					150					155					160	
Arg	Thr	Ala	Tyr	Thr	Arg	Gln	Gln	Val	Leu	Glu	Leu	Glu	Lys	Glu	Phe	
				165					170					175		
His	Tyr	Asn	Arg	Tyr	Leu	Thr	Arg	Arg	Arg	Arg	Val	Glu	Ile	Ala	His	
			180					185					190			
Ala	Leu	Cys	Leu	Ser	Glu	Arg	Gln	Ile	Lys	Ile	Trp	Phe	Gln	Asn	Arg	
		195					200					205				
Arg	Met	Lys	Trp	Lys	Lys	Asp	His	Lys	Leu	Pro	Asn	Thr	Lys	Ile	Arg	
	210					215					220					
Ser	Gly	Gly	Ala	Ala	Gly	Ser	Ala	Gly	Gly	Pro	Pro	Gly	Arg	Pro	Asn	
225					230					235					240	

Gly Gly Pro Arg Ala Leu
245

<210> 81
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> His-PTD4

<400> 81

His His His His His His Tyr Ala Arg Ala Ala Ala Arg Gln Ala Arg
1 5 10 15

Ala

<210> 82
<211> 41
<212> PRT
<213> Artificial Sequence

<220>
<223> PTD4-KALA

<400> 82

Tyr Ala Arg Ala Ala Ala Arg Gln Ala Arg Ala Trp Glu Ala Lys Leu
1 5 10 15

Ala Lys Ala Leu Ala Lys Ala Leu Ala Lys His Leu Ala Lys Ala Leu
20 25 30

Ala Lys Ala Leu Lys Ala Cys Glu Ala
35 40

<210> 83
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> 9Arg-KALA

<400> 83

Arg Arg Arg Arg Arg Arg Arg Arg Arg Trp Glu Ala Lys Leu Ala Lys
1 5 10 15

Ala Leu Ala Lys Ala Leu Ala Lys His Leu Ala Lys Ala Leu Ala Lys
 20 25 30

Ala Leu Lys Ala Cys Glu Ala
 35

<210> 84
 <211> 51
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Pep1-KALA

<400> 84

Lys Glu Thr Trp Trp Glu Thr Trp Trp Thr Glu Trp Ser Gln Pro Lys
 1 5 10 15

Lys Lys Arg Lys Val Trp Glu Ala Lys Leu Ala Lys Ala Leu Ala Lys
 20 25 30

Ala Leu Ala Lys His Leu Ala Lys Ala Leu Ala Lys Ala Leu Lys Ala
 35 40 45

Cys Glu Ala
 50

<210> 85
 <211> 37
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Xentry-KALA

<400> 85

Leu Cys Leu Arg Pro Val Gly Trp Glu Ala Lys Leu Ala Lys Ala Leu
 1 5 10 15

Ala Lys Ala Leu Ala Lys His Leu Ala Lys Ala Leu Ala Lys Ala Leu
 20 25 30

Lys Ala Cys Glu Ala
 35

<210> 86

<211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> SynB3-KALA

<400> 86

Arg Arg Leu Ser Tyr Ser Arg Arg Arg Phe Trp Glu Ala Lys Leu Ala
 1 5 10 15

Lys Ala Leu Ala Lys Ala Leu Ala Lys His Leu Ala Lys Ala Leu Ala
 20 25 30

Lys Ala Leu Lys Ala Cys Glu Ala
 35 40

<210> 87
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> VSVG-PTD4

<400> 87

Lys Phe Thr Ile Val Phe Pro His Asn Gln Lys Gly Asn Trp Lys Asn
 1 5 10 15

Val Pro Ser Asn Tyr His Tyr Cys Pro Tyr Ala Arg Ala Ala Arg
 20 25 30

Gln Ala Arg Ala
 35

<210> 88
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> EB1-PTD4

<400> 88

Leu Ile Arg Leu Trp Ser His Leu Ile His Ile Trp Phe Gln Asn Arg
 1 5 10 15

Arg Leu Lys Trp Lys Lys Lys Tyr Ala Arg Ala Ala Arg Gln Ala

20

25

30

Arg Ala

<210> 89
 <211> 31
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> JST-PTD4

<400> 89

Gly Leu Phe Glu Ala Leu Leu Glu Leu Leu Glu Ser Leu Trp Glu Leu
 1 5 10 15

Leu Leu Glu Ala Tyr Ala Arg Ala Ala Ala Arg Gln Ala Arg Ala
 20 25 30

<210> 90
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> CM18-PTD4

<400> 90

Lys Trp Lys Leu Phe Lys Lys Ile Gly Ala Val Leu Lys Val Leu Thr
 1 5 10 15

Thr Gly Tyr Ala Arg Ala Ala Ala Arg Gln Ala Arg Ala
 20 25

<210> 91
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> 6Cys-CM18-PTD4

<400> 91

Cys Cys Cys Cys Cys Cys Lys Trp Lys Leu Phe Lys Lys Ile Gly Ala
 1 5 10 15

Val Leu Lys Val Leu Thr Thr Gly Tyr Ala Arg Ala Ala Ala Arg Gln

20

25

30

Ala Arg Ala
35

<210> 92
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> CM18-L1-PTD4

<400> 92

Lys Trp Lys Leu Phe Lys Lys Ile Gly Ala Val Leu Lys Val Leu Thr
1 5 10 15

Thr Gly Gly Gly Ser Tyr Ala Arg Ala Ala Ala Arg Gln Ala Arg Ala
20 25 30

<210> 93
<211> 36
<212> PRT
<213> Artificial Sequence

<220>
<223> CM18-L2-PTD4

<400> 93

Lys Trp Lys Leu Phe Lys Lys Ile Gly Ala Val Leu Lys Val Leu Thr
1 5 10 15

Thr Gly Gly Gly Ser Gly Gly Gly Ser Tyr Ala Arg Ala Ala Ala Arg
20 25 30

Gln Ala Arg Ala
35

<210> 94
<211> 41
<212> PRT
<213> Artificial Sequence

<220>
<223> CM18-L3-PTD4

<400> 94

Lys Trp Lys Leu Phe Lys Lys Ile Gly Ala Val Leu Lys Val Leu Thr

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<210> 95
<211> 35
<212> PRT
<213> Artificial Sequence
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<400> 95

Val Leu Lys Val Leu Thr Thr Gly Tyr Gly Arg Lys Lys Arg Arg Gln
20 25 30

<210>	96
<211>	41
<212>	PRT
<213>	Artificial Sequence

<400> 96

Val Leu Lys Val Leu Thr Thr Gly Tyr Ala Arg Ala Ala Ala Arg Gln
20 25 30

$\langle 210 \rangle$	97
$\langle 211 \rangle$	32
$\langle 212 \rangle$	PRT

<213> Artificial Sequence

<220>

<223> 3His-CM18-PTD4

<400> 97

His	His	His	Lys	Trp	Lys	Leu	Phe	Lys	Lys	Ile	Gly	Ala	Val	Leu	Lys
1				5					10					15	

Val	Leu	Thr	Thr	Gly	Tyr	Ala	Arg	Ala	Ala	Ala	Arg	Gln	Ala	Arg	Ala
			20					25					30		

<210> 98

<211> 41

<212> PRT

<213> Artificial Sequence

<220>

<223> 12His-CM18-PTD4

<400> 98

His	His	His	His	His	His	His	His	His	His	His	His	Lys	Trp	Lys	Leu
1				5					10					15	

Phe	Lys	Lys	Ile	Gly	Ala	Val	Leu	Lys	Val	Leu	Thr	Thr	Gly	Tyr	Ala
			20					25					30		

Arg	Ala	Ala	Ala	Arg	Gln	Ala	Arg	Ala
		35					40	

<210> 99

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> HA-CM18-PTD4

<400> 99

His	His	His	Ala	His	His	His	Lys	Trp	Lys	Leu	Phe	Lys	Lys	Ile	Gly
1				5					10					15	

Ala	Val	Leu	Lys	Val	Leu	Thr	Thr	Gly	Tyr	Ala	Arg	Ala	Ala	Ala	Arg
			20					25					30		

Gln	Ala	Arg	Ala
			35

<210> 100
 <211> 38
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> 3HA-CM18-PTD4

<400> 100

His Ala His His Ala His His Ala His Lys Trp Lys Leu Phe Lys Lys
 1 5 10 15

Ile Gly Ala Val Leu Lys Val Leu Thr Thr Gly Tyr Ala Arg Ala Ala
 20 25 30

Ala Arg Gln Ala Arg Ala
 35

<210> 101
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> CM18-His-PTD4

<400> 101

Lys Trp Lys Leu Phe Lys Lys Ile Gly Ala Val Leu Lys Val Leu Thr
 1 5 10 15

Thr Gly His His His His His His Tyr Ala Arg Ala Ala Ala Arg Gln
 20 25 30

Ala Arg Ala
 35

<210> 102
 <211> 41
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> His-CM18-PTD4-His

<400> 102

His His His His His His Lys Trp Lys Leu Phe Lys Lys Ile Gly Ala
 1 5 10 15

Val Leu Lys Val Leu Thr Thr Gly Tyr Ala Arg Ala Ala Ala Arg Gln
20 25 30

Ala Arg Ala His His His His His His
35 40

<210>	103
<211>	36
<212>	RNA
<213>	Artificial Sequence

<220>
<223> HPRT crRNA

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<400> 103
aaauaugggg auuacuagga guuuuagagc uaugcu
36
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<210>	104
<211>	38
<212>	PRT
<213>	Artificial Sequence

<220>
<223> FSD1

$\langle 400 \rangle$ 104

His His His His His His Lys Trp Lys Leu Leu Arg Arg Ala Ala Lys
1 5 10 15

Lys Ala Ala Arg Arg Tyr Leu Lys Leu Leu Leu Lys Gln Leu Lys Leu
20 25 30

His His His His His His
35

<210>	105
<211>	38
<212>	PRT
<213>	Artificial Sequence

<220>
<223> FSD2

<400> 105

His His His His His His Trp Leu Lys Leu Leu Arg Arg Ala Ala Lys
1 5 10 15

Lys Ala Ala Arg Leu Tyr Arg Lys Leu Leu Arg Lys Ala Arg Lys Leu
 20 25 30

His His His His His His
 35

<210> 106
 <211> 38
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> FSD3

<400> 106

His His His His His His Lys Arg Lys Lys Lys Arg Arg Ala Lys Lys
 1 5 10 15

Lys Arg Ala Trp Leu Tyr Leu Ala Leu Leu Leu Trp Ala Leu Ala Leu
 20 25 30

His His His His His His
 35

<210> 107
 <211> 38
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 107

His His His His His His Lys Arg Gln Leu Lys Arg Lys Leu Arg Lys
 1 5 10 15

Trp Lys Arg Leu Leu Arg Leu Leu Arg Leu Leu Ala Arg Leu Trp Leu
 20 25 30

His His His His His His
 35

<210> 108
 <211> 37
 <212> PRT
 <213> Artificial Sequence

<220>

<223> FSD5

<400> 108

His	His	His	His	His	His	Leu	Leu	Lys	Leu	Trp	Ser	Arg	Leu	Leu	Lys
1				5				10						15	

Leu	Trp	Thr	Gln	Gly	Arg	Arg	Leu	Lys	Ala	Lys	Arg	Ala	Lys	Ala	His
			20					25					30		

His	His	His	His	His
				35

<210> 109

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> FSD6

<400> 109

His	His	His	His	His	His	Trp	Tyr	Leu	Ala	Leu	Leu	Ala	Leu	Tyr	Trp
1				5				10						15	

Gln	Arg	Ala	Lys	Ala	Lys	Thr	Arg	Gln	Arg	Arg	Arg	His	His	His	His
			20					25					30		

His His

<210> 110

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> FSD7

<400> 110

His	His	His	His	His	His	Trp	Ala	Arg	Leu	Ala	Arg	Ala	Phe	Ala	Arg
1				5				10						15	

Ala	Ile	Lys	Lys	Leu	Tyr	Ala	Arg	Ala	Leu	Arg	Arg	Gln	Ala	Arg	Thr
			20					25					30		

Gly

<210> 111
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> FSD8

<400> 111

His His His His His His Lys Trp Lys Leu Ala Arg Ala Phe Ala Arg
 1 5 10 15

Ala Ile Lys Lys Leu Tyr Ala Arg Ala Leu Arg Arg Gln Ala Arg Thr
 20 25 30

Gly

<210> 112
 <211> 39
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> FSD8

<400> 112

His His His His His His Lys Trp Lys Leu Ala Arg Ala Phe Ala Arg
 1 5 10 15

Ala Ile Lys Lys Leu Tyr Ala Arg Ala Leu Arg Arg Gln Ala Arg Thr
 20 25 30

Gly His His His His His His
 35

<210> 113
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> FSD10

<400> 113

Lys Trp Lys Leu Ala Arg Ala Phe Ala Arg Ala Ile Lys Lys Leu Gly
 1 5 10 15

Gly Ser Gly Gly Gly Ser Tyr Ala Arg Ala Leu Arg Arg Gln Ala Arg
 20 25 30

Thr Gly

<210> 114
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> FSD11

<400> 114

His His His His His His Lys Trp Lys Leu Ala Arg Ala Phe Ala Arg
 1 5 10 15

Ala Leu Arg Ala Ile Lys Lys Leu Tyr Ala Arg Ala Leu Arg Arg Gln
 20 25 30

Ala Arg Thr Gly
 35

<210> 115
 <211> 27
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> FSD12

<400> 115

Lys Trp Lys Leu Ala Arg Ala Phe Ala Arg Ala Ile Lys Lys Leu Tyr
 1 5 10 15

Ala Arg Ala Leu Arg Arg Gln Ala Arg Thr Gly
 20 25

<210> 116
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> FSD13

<400> 116

His His His His His His Lys Trp Ala Lys Leu Leu Arg Ala Phe Ala
1 5 10 15

Lys Ala Ile Lys Lys Leu Tyr Ala Arg Leu Ala Arg Arg Gln Ala Arg
20 25 30

Thr Gly His His His His His His
35 40

<210> 117

<211> 38

<212> PRT

<213> Artificial Sequence

<220>

<223> FSD14

<400> 117

His His His His His His Leu Ala Leu Ala Arg Trp Ala Arg Tyr Phe
1 5 10 15

Arg Ile Leu Ala Lys Leu Lys Arg Thr Lys Arg Gly Gln Ala Lys Ala
20 25 30

His His His His His His
35

<210> 118

<211> 39

<212> PRT

<213> Artificial Sequence

<220>

<223> FSD15

<400> 118

His His His His His His Lys Trp Lys Ile Ala Arg Ala Phe Ala Arg
1 5 10 15

Ser Leu Lys Lys Leu Tyr Ala Arg Leu Leu Ala Arg Gln Ala Lys Thr
20 25 30

Gly His His His His His His
35

<210> 119
 <211> 31
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> FSD16

<400> 119

His His His His His His Leu Leu Lys Leu Trp Ser Arg Leu Leu Lys
 1 5 10 15

Leu Trp Thr Gln Gly Arg Arg Leu Lys Ala Lys Arg Ala Lys Ala
 20 25 30

<210> 120
 <211> 37
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> FSD17

<400> 120

His His His His His His Leu Ala Lys Leu Phe Lys Trp Leu Arg Ala
 1 5 10 15

Leu Ile Arg Gln Gly Ala Lys Arg Lys Thr Lys Arg Ala Ser Ala His
 20 25 30

His His His His His
 35

<210> 121
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> FSD18

<400> 121

Leu Leu Lys Leu Trp Ser Arg Leu Leu Lys Leu Trp Thr Gln Gly Gly
 1 5 10 15

Ser Gly Gly Gly Ser Gly Arg Arg Leu Lys Ala Lys Arg Ala Lys Ala
 20 25 30

<210> 122
 <211> 42
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> FSD19

<400> 122

His His His His His His Leu Leu Lys Leu Trp Ser Arg Leu Leu Lys
 1 5 10 15

Thr Trp Thr Gln Gly Arg Arg Leu Lys Ala Lys Ser Ala Gln Ala Ser
 20 25 30

Thr Arg Gln Ala His His His His His His
 35 40

<210> 123
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> FSD20

<400> 123

His His His His Ala Ala Val Leu Lys Leu Trp Lys Arg Leu Leu Lys
 1 5 10 15

Leu Phe Arg Lys Gly Arg Arg Leu Lys Ala Lys Arg Ala Lys Ala Lys
 20 25 30

Arg

<210> 124
 <211> 31
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> FSD21

<400> 124

His His His His His His Phe Leu Lys Ile Trp Ser Arg Leu Ile Lys
 1 5 10 15

Ile Trp Thr Gln Gly Arg Arg Lys Gly Ala Gln Ala Ala Phe Arg
 20 25 30

<210> 125
 <211> 38
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> FSD22

<400> 125

His His His His His His Val Leu Lys Leu Trp Ser Arg Ile Leu Lys
 1 5 10 15

Ala Phe Thr Gln Gly Arg Arg Met Ala Ala Lys Arg Ala Lys Cys Asn
 20 25 30

His His His His His His
 35

<210> 126
 <211> 37
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> FSD23

<400> 126

His His His His His His Leu Leu Lys Leu Trp Ser Arg Leu Leu Lys
 1 5 10 15

Glu Trp Thr Gln Gly Arg Arg Leu Glu Ala Lys Arg Ala Glu Ala His
 20 25 30

His His His His His
 35

<210> 127
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> FSD24

<400> 127

His His His His His His Leu Leu Cys Leu Trp Ser Arg Leu Leu Lys
 1 5 10 15

Leu Trp Thr Gln Gly Glu Arg Leu Lys Ala Lys Cys Ala Lys Ala Cys
 20 25 30

Glu Arg

<210> 128
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> FSD25

<400> 128

His His His His His His Val Trp Lys Leu Phe Trp Thr Leu Leu Ala
 1 5 10 15

Ala Ile Tyr Gly Arg Gly Lys Ala Arg Gln Lys Arg Ala Lys Arg Gln
 20 25 30

Ala Arg Gly
 35

<210> 129
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> FSD26

<400> 129

Ala Leu Leu Gly Leu Phe Ile Lys Trp Val Lys Lys Val Gly Thr Leu
 1 5 10 15

Phe Arg Lys Ala Lys Ala Gly Ala Gln Asn Arg Arg Ala Lys Ala Gln
 20 25 30

Lys Gly Lys
 35

<210> 130
 <211> 37

<212> PRT
 <213> Artificial Sequence

<220>
 <223> FSN1

<400> 130

His His His His His His Lys Arg Lys Arg Arg Ser Lys Lys Arg Lys
 1 5 10 15

Leu Trp Thr Gln Gly Trp Leu Leu Leu Ala Leu Leu Ala Leu Ala His
 20 25 30

His His His His His
 35

<210> 131
 <211> 37
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> FSN2

<400> 131

His His His His His His Lys Leu Lys Leu Arg Ser Arg Leu Lys Trp
 1 5 10 15

Gly Arg Thr Gln Leu Trp Arg Ala Leu Ala Lys Lys Ala Leu Leu His
 20 25 30

His His His His His
 35

<210> 132
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> FSN3

<400> 132

His His His His His His Gln Phe Leu Cys Phe Trp Leu Asn Lys Met
 1 5 10 15

Gly Lys His Asn Thr Val Trp His Gly Arg His Leu Lys Cys His Lys
 20 25 30

Arg Gly Lys Gly
35

<210> 133
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> FSN4

<400> 133

His His His His His His Leu Leu Tyr Leu Trp Arg Arg Leu Leu Lys
1 5 10 15

Phe Trp Cys Ala Gly Arg Arg Val Tyr Ala Lys Cys Ala Lys Ala Tyr
20 25 30

Gly Cys Phe
35

<210> 134
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> FSN5

<400> 134

His His His His His His Leu Leu Lys Leu Trp Arg Arg Leu Leu Lys
1 5 10 15

Leu Phe Arg Lys Ala Leu Arg Ala Leu Ala Lys Arg Ala Lys Ser Ala
20 25 30

Leu Lys Arg Ala Gln Ala Ala
35

<210> 135
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> FSN6

<400> 135

His His His His His His Leu Leu Lys Leu Trp Ser Arg Leu Leu Lys
1 5 10 15

Leu Trp Thr Gln Ala Leu Arg Ala Leu Ala Lys Arg Ala Lys Ala Leu
20 25 30

Ala His His His His His His
35

<210> 136

<211> 31

<212> PRT

<213> Artificial Sequence

<220>

<223> FSN7

<400> 136

Leu Ile Lys Leu Trp Ser Arg Phe Ile Lys Phe Trp Thr Gln Gly Arg
1 5 10 15

Arg Ile Lys Ala Lys Leu Ala Arg Ala Gly Gln Ser Trp Phe Gly
20 25 30

<210> 137

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> FSN8

<400> 137

His His His His His His Phe Arg Lys Leu Trp Leu Ala Ile Val Arg
1 5 10 15

Ala Lys Lys

<210> 138

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> FSD27

<400> 138

His His His His His His Lys Trp Lys Leu Phe Trp Glu Ala Lys Leu
1 5 10 15

Ala Lys Tyr Ala Arg Ala Ala Ala Arg Gln Ala Arg Ala Ala Arg Gln
20 25 30

Ala Arg Ala
35

<210> 139

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> FSD28

<400> 139

His His His His His His His Met Ala His Leu Trp Glu Ser Asn Ala
1 5 10 15

Arg Lys Phe Trp Lys Lys Ala Phe Ala Gln His Ala Ala Ala His Ile
20 25 30

Ala Glu Ala
35

<210> 140

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> FSD29

<400> 140

Leu His His His Ser His His Leu Ile His Ile Trp Leu Leu Phe Lys
1 5 10 15

Leu Lys Leu Lys Lys Lys Lys Ala Ala Arg Arg Ala Arg Arg Ala Arg
20 25 30

Arg His His
35

<210> 141
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> FSD30

<400> 141

His His His His His His Cys Leu Leu Lys Lys Trp Glu Ala Lys Leu
 1 5 10 15

Ala Lys Lys Ile Gly Gly Gly Gly Arg Gln Ala Arg Ala Lys Ala Leu
 20 25 30

Ala Lys Ala
 35

<210> 142
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> FSD31

<400> 142

Tyr His His His His His Lys Trp Lys Lys Arg Trp Glu Ala Lys Leu
 1 5 10 15

Ala Lys Ala Leu Arg Ala Ala Gly Arg Gln Ala Arg Ala Lys Ala Leu
 20 25 30

Ala Lys Ala
 35

<210> 143
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> FSD32

<400> 143

Ile Val Arg His Glu His Cys Met Ile His Leu Trp Tyr Lys Asn Leu
 1 5 10 15

Ala Lys Tyr Cys Ser Thr Ser His Ala Arg Arg Leu Ala Arg Arg Arg
 20 25 30

Ala His His
 35

<210> 144
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> FSD33

<400> 144

His His His His His His His His Arg Gln Arg Arg Arg Trp Glu Ala
 1 5 10 15

Arg Gly Gly Phe Leu Gly Gly Gly Gly Tyr Ala Arg Ala Ala Arg Gln
 20 25 30

Ala Arg Ala
 35

<210> 145
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> FSD34

<400> 145

His His His His His His Lys Leu Ile His Ile Trp Glu Ala Lys Leu
 1 5 10 15

Phe Lys Lys Ile Arg Ala Ala Ala Arg Gln Ala Arg Ala Arg Arg Ala
 20 25 30

Ala Lys Ala
 35

<210> 146
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>

<223> FSD35

<400> 146

His	His	His	His	His	His	Lys	Leu	Leu	Lys	Arg	Trp	Glu	Ala	Lys	Leu
1				5					10					15	

Ala	Lys	Ala	Leu	Ala	Lys	Ala	Leu	Ala	Lys	His	Leu	Ala	Lys	Ala	Leu
			20					25					30		

Ala	Lys	Ala
		35

<210> 147

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> FSD36

<400> 147

His	His	His	His	His	His	Cys	Leu	Ile	His	Ile	Trp	Glu	Ala	Lys	Leu
1				5					10					15	

Ala	Lys	Lys	Cys	Gly	Gly	Gly	Gly	Tyr	Ala	Arg	Ala	Ala	Ala	Arg	Gln
			20					25					30		

Ala	Arg	Ala
		35

<210> 148

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> FSD37

<400> 148

Arg	Leu	His	His	Ser	His	His	Leu	Ile	His	Ile	Trp	Leu	Leu	Phe	Lys
1				5					10					15	

Leu	Lys	Leu	Lys	Lys	Lys	Lys	Arg	Ala	Ala	Arg	Arg	Ala	Arg	Arg	His
			20					25					30		

His	His	Leu
		35

<210> 149
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> FSD38

<400> 149

Gly His His His His His His His Leu Ile His Ile Trp Glu Ala Lys
 1 5 10 15

Leu Ala Lys Leu Ala Lys Ala Leu Ala Arg Ala Ala Ala Arg Gln Ala
 20 25 30

Arg Ala Lys
 35

<210> 150
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> FSD39

<400> 150

His His His His His His His His Arg Gln Arg Arg Arg Trp Glu Ala
 1 5 10 15

Arg Gly Phe Leu Gly Gly Gly Gly Tyr Ala Arg Ala Ala Arg Gln Ala
 20 25 30

Arg Ala Ala
 35

<210> 151
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> FSD40

<400> 151

Tyr Gly Arg Lys Lys Arg Tyr Met Leu Arg Leu Trp Tyr Gln Asn Leu
 1 5 10 15

Arg Met Tyr Cys Lys Lys Ala Tyr Ala Gln His Arg Ala Arg Gln His
 20 25 30

Ala Lys Leu
 35

<210> 152
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> FSD41

<400> 152

Leu His His His His His Lys Leu Ile His Ile Trp Glu Ala Lys Leu
 1 5 10 15

Ala Lys Ala Leu Ala Lys Ala Leu Ala Arg Arg Ala Ala Ala Arg Gln
 20 25 30

Ala Arg Ala
 35

<210> 153
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> FSD42

<400> 153

His His His His His His Cys Met Lys Val Val Trp Glu Ile Val Leu
 1 5 10 15

Ala Lys Tyr Lys Gly Gly Gly Gly Arg Ala Arg Ala Ala Ser Arg Arg
 20 25 30

Ala Arg Ala
 35

<210> 154
 <211> 72
 <212> DNA
 <213> Artificial Sequence

<220>

<223> Short DNA template

<400> 154

tgaaatggag agctaaatta tggggattac aagcttgata gcgaaggggc agcaatgagt
60

tgacactaca ga
72

<210> 155

<211> 1353

<212> PRT

<213> Artificial Sequence

<220>

<223> Cpfl1-NLS

<400> 155

Met Thr Gln Phe Glu Gly Phe Thr Asn Leu Tyr Gln Val Ser Lys Thr
1 5 10 15

Leu Arg Phe Glu Leu Ile Pro Gln Gly Lys Thr Leu Lys His Ile Gln
20 25 30

Glu Gln Gly Phe Ile Glu Glu Asp Lys Ala Arg Asn Asp His Tyr Lys
35 40 45

Glu Leu Lys Pro Ile Ile Asp Arg Ile Tyr Lys Thr Tyr Ala Asp Gln
50 55 60

Cys Leu Gln Leu Val Gln Leu Asp Trp Glu Asn Leu Ser Ala Ala Ile
65 70 75 80

Asp Ser Tyr Arg Lys Glu Lys Thr Glu Glu Thr Arg Asn Ala Leu Ile
85 90 95

Glu Glu Gln Ala Thr Tyr Arg Asn Ala Ile His Asp Tyr Phe Ile Gly
100 105 110

Arg Thr Asp Asn Leu Thr Asp Ala Ile Asn Lys Arg His Ala Glu Ile
115 120 125

Tyr Lys Gly Leu Phe Lys Ala Glu Leu Phe Asn Gly Lys Val Leu Lys
130 135 140

Gln Leu Gly Thr Val Thr Thr Thr Glu His Glu Asn Ala Leu Leu Arg
 145 150 155 160

Ser Phe Asp Lys Phe Thr Thr Tyr Phe Ser Gly Phe Tyr Glu Asn Arg
 165 170 175

Lys Asn Val Phe Ser Ala Glu Asp Ile Ser Thr Ala Ile Pro His Arg
 180 185 190

Ile Val Gln Asp Asn Phe Pro Lys Phe Lys Glu Asn Cys His Ile Phe
 195 200 205

Thr Arg Leu Ile Thr Ala Val Pro Ser Leu Arg Glu His Phe Glu Asn
 210 215 220

Val Lys Lys Ala Ile Gly Ile Phe Val Ser Thr Ser Ile Glu Glu Val
 225 230 235 240

Phe Ser Phe Pro Phe Tyr Asn Gln Leu Leu Thr Gln Thr Gln Ile Asp
 245 250 255

Leu Tyr Asn Gln Leu Leu Gly Gly Ile Ser Arg Glu Ala Gly Thr Glu
 260 265 270

Lys Ile Lys Gly Leu Asn Glu Val Leu Asn Leu Ala Ile Gln Lys Asn
 275 280 285

Asp Glu Thr Ala His Ile Ile Ala Ser Leu Pro His Arg Phe Ile Pro
 290 295 300

Leu Phe Lys Gln Ile Leu Ser Asp Arg Asn Thr Leu Ser Phe Ile Leu
 305 310 315 320

Glu Glu Phe Lys Ser Asp Glu Glu Val Ile Gln Ser Phe Cys Lys Tyr
 325 330 335

Lys Thr Leu Leu Arg Asn Glu Asn Val Leu Glu Thr Ala Glu Ala Leu
 340 345 350

Phe Asn Glu Leu Asn Ser Ile Asp Leu Thr His Ile Phe Ile Ser His
 355 360 365

Lys Lys Leu Glu Thr Ile Ser Ser Ala Leu Cys Asp His Trp Asp Thr
 370 375 380

Leu Arg Asn Ala Leu Tyr Glu Arg Arg Ile Ser Glu Leu Thr Gly Lys
385 390 395 400

Ile Thr Lys Ser Ala Lys Glu Lys Val Gln Arg Ser Leu Lys His Glu
405 410 415

Asp Ile Asn Leu Gln Glu Ile Ile Ser Ala Ala Gly Lys Glu Leu Ser
420 425 430

Glu Ala Phe Lys Gln Lys Thr Ser Glu Ile Leu Ser His Ala His Ala
435 440 445

Ala Leu Asp Gln Pro Leu Pro Thr Thr Leu Lys Lys Gln Glu Glu Lys
450 455 460

Glu Ile Leu Lys Ser Gln Leu Asp Ser Leu Leu Gly Leu Tyr His Leu
465 470 475 480

Leu Asp Trp Phe Ala Val Asp Glu Ser Asn Glu Val Asp Pro Glu Phe
485 490 495

Ser Ala Arg Leu Thr Gly Ile Lys Leu Glu Met Glu Pro Ser Leu Ser
500 505 510

Phe Tyr Asn Lys Ala Arg Asn Tyr Ala Thr Lys Lys Pro Tyr Ser Val
515 520 525

Glu Lys Phe Lys Leu Asn Phe Gln Met Pro Thr Leu Ala Ser Gly Trp
530 535 540

Asp Val Asn Lys Glu Lys Asn Asn Gly Ala Ile Leu Phe Val Lys Asn
545 550 555 560

Gly Leu Tyr Tyr Leu Gly Ile Met Pro Lys Gln Lys Gly Arg Tyr Lys
565 570 575

Ala Leu Ser Phe Glu Pro Thr Glu Lys Thr Ser Glu Gly Phe Asp Lys
580 585 590

Met Tyr Tyr Asp Tyr Phe Pro Asp Ala Ala Lys Met Ile Pro Lys Cys
595 600 605

Ser Thr Gln Leu Lys Ala Val Thr Ala His Phe Gln Thr His Thr Thr
610 615 620

Pro Ile Leu Leu Ser Asn Asn Phe Ile Glu Pro Leu Glu Ile Thr Lys
625 630 635 640

Glu Ile Tyr Asp Leu Asn Asn Pro Glu Lys Glu Pro Lys Lys Phe Gln
645 650 655

Thr Ala Tyr Ala Lys Lys Thr Gly Asp Gln Lys Gly Tyr Arg Glu Ala
660 665 670

Leu Cys Lys Trp Ile Asp Phe Thr Arg Asp Phe Leu Ser Lys Tyr Thr
675 680 685

Lys Thr Thr Ser Ile Asp Leu Ser Ser Leu Arg Pro Ser Ser Gln Tyr
690 695 700

Lys Asp Leu Gly Glu Tyr Tyr Ala Glu Leu Asn Pro Leu Leu Tyr His
705 710 715 720

Ile Ser Phe Gln Arg Ile Ala Glu Lys Glu Ile Met Asp Ala Val Glu
725 730 735

Thr Gly Lys Leu Tyr Leu Phe Gln Ile Tyr Asn Lys Asp Phe Ala Lys
740 745 750

Gly His His Gly Lys Pro Asn Leu His Thr Leu Tyr Trp Thr Gly Leu
755 760 765

Phe Ser Pro Glu Asn Leu Ala Lys Thr Ser Ile Lys Leu Asn Gly Gln
770 775 780

Ala Glu Leu Phe Tyr Arg Pro Lys Ser Arg Met Lys Arg Met Ala His
785 790 795 800

Arg Leu Gly Glu Lys Met Leu Asn Lys Lys Leu Lys Asp Gln Lys Thr
805 810 815

Pro Ile Pro Asp Thr Leu Tyr Gln Glu Leu Tyr Asp Tyr Val Asn His
820 825 830

Arg Leu Ser His Asp Leu Ser Asp Glu Ala Arg Ala Leu Leu Pro Asn
835 840 845

Val Ile Thr Lys Glu Val Ser His Glu Ile Ile Lys Asp Arg Arg Phe
850 855 860

Thr Ser Asp Lys Phe Phe Phe His Val Pro Ile Thr Leu Asn Tyr Gln
865 870 875 880

Ala Ala Asn Ser Pro Ser Lys Phe Asn Gln Arg Val Asn Ala Tyr Leu
885 890 895

Lys Glu His Pro Glu Thr Pro Ile Ile Gly Ile Asp Arg Gly Glu Arg
900 905 910

Asn Leu Ile Tyr Ile Thr Val Ile Asp Ser Thr Gly Lys Ile Leu Glu
915 920 925

Gln Arg Ser Leu Asn Thr Ile Gln Gln Phe Asp Tyr Gln Lys Lys Leu
930 935 940

Asp Asn Arg Glu Lys Glu Arg Val Ala Ala Arg Gln Ala Trp Ser Val
945 950 955 960

Val Gly Thr Ile Lys Asp Leu Lys Gln Gly Tyr Leu Ser Gln Val Ile
965 970 975

His Glu Ile Val Asp Leu Met Ile His Tyr Gln Ala Val Val Val Leu
980 985 990

Glu Asn Leu Asn Phe Gly Phe Lys Ser Lys Arg Thr Gly Ile Ala Glu
995 1000 1005

Lys Ala Val Tyr Gln Gln Phe Glu Lys Met Leu Ile Asp Lys Leu
1010 1015 1020

Asn Cys Leu Val Leu Lys Asp Tyr Pro Ala Glu Lys Val Gly Gly
1025 1030 1035

Val Leu Asn Pro Tyr Gln Leu Thr Asp Gln Phe Thr Ser Phe Ala
1040 1045 1050

Lys Met Gly Thr Gln Ser Gly Phe Leu Phe Tyr Val Pro Ala Pro
1055 1060 1065

Tyr	Thr	Ser	Lys	Ile	Asp	Pro	Leu	Thr	Gly	Phe	Val	Asp	Pro	Phe
1070						1075					1080			
Val	Trp	Lys	Thr	Ile	Lys	Asn	His	Glu	Ser	Arg	Lys	His	Phe	Leu
1085						1090					1095			
Glu	Gly	Phe	Asp	Phe	Leu	His	Tyr	Asp	Val	Lys	Thr	Gly	Asp	Phe
1100						1105					1110			
Ile	Leu	His	Phe	Lys	Met	Asn	Arg	Asn	Leu	Ser	Phe	Gln	Arg	Gly
1115						1120					1125			
Leu	Pro	Gly	Phe	Met	Pro	Ala	Trp	Asp	Ile	Val	Phe	Glu	Lys	Asn
1130						1135					1140			
Glu	Thr	Gln	Phe	Asp	Ala	Lys	Gly	Thr	Pro	Phe	Ile	Ala	Gly	Lys
1145						1150					1155			
Arg	Ile	Val	Pro	Val	Ile	Glu	Asn	His	Arg	Phe	Thr	Gly	Arg	Tyr
1160						1165					1170			
Arg	Asp	Leu	Tyr	Pro	Ala	Asn	Glu	Leu	Ile	Ala	Leu	Leu	Glu	Glu
1175						1180					1185			
Lys	Gly	Ile	Val	Phe	Arg	Asp	Gly	Ser	Asn	Ile	Leu	Pro	Lys	Leu
1190						1195					1200			
Leu	Glu	Asn	Asp	Asp	Ser	His	Ala	Ile	Asp	Thr	Met	Val	Ala	Leu
1205						1210					1215			
Ile	Arg	Ser	Val	Leu	Gln	Met	Arg	Asn	Ser	Asn	Ala	Ala	Thr	Gly
1220						1225					1230			
Glu	Asp	Tyr	Ile	Asn	Ser	Pro	Val	Arg	Asp	Leu	Asn	Gly	Val	Cys
1235						1240					1245			
Phe	Asp	Ser	Arg	Phe	Gln	Asn	Pro	Glu	Trp	Pro	Met	Asp	Ala	Asp
1250						1255					1260			
Ala	Asn	Gly	Ala	Tyr	His	Ile	Ala	Leu	Lys	Gly	Gln	Leu	Leu	Leu
1265						1270					1275			
Asn	His	Leu	Lys	Glu	Ser	Lys	Asp	Leu	Lys	Leu	Gln	Asn	Gly	Ile
1280						1285					1290			

Ser Asn Gln Asp Trp Leu Ala Tyr Ile Gln Glu Leu Arg Asn Gly
 1295 1300 1305

Gly Arg Ser Ser Asp Asp Glu Ala Thr Ala Asp Ser Gln His Ala
 1310 1315 1320

Ala Pro Pro Lys Lys Lys Arg Lys Val Gly Gly Ser Gly Gly Gly
 1325 1330 1335

Ser Gly Gly Gly Ser Gly Gly Gly Arg His His His His His His
 1340 1345 1350

<210> 156

<211> 1631

<212> DNA

<213> Artificial Sequence

<220>

<223> GFP coding DNA template

<400> 156

aagtaatcaa ttacgggggtc attagttcat agcccatata tggagttccg cgttacataa
 60

cttacggtaa atggcccgcc tggctgaccg cccaacgacc cccgcccatt gacgtcaata
 120

atgacgtatg ttcccatagt aacgccaata gggactttcc attgacgtca atgggtggag
 180

tatttacggg aaactgcccc cttggcagta catcaagtgt atcatatgcc aagtacgccc
 240

cctattgacg tcaatgacgg taaatggccc gcctggcatt atgcccagta catgacctta
 300

tgggactttc ctacttggca gtacatctac gtattagtca tcgctattac catggtgatg
 360

cggttttggc agtacatcaa tgggcgtgga tagcggtttg actcacgggg atttccaagt
 420

ctccacccca ttgacgtcaa tgggagtttg ttttggcacc aaaatcaacg ggactttcca
 480

aatgtcgtg acaactccgc ccattgacg caaatgggcg gtaggcgtgt acggtgggag
 540

gtctatataa gcagagctgg tttagtgaac cgtcagatcc gctagcgcta ccggtcgcca
 600

ccatggtgag caagggcgag gagctgttca ccggggtggt gcccatcctg gtcgagctgg
660

acggcgacgt aaacggccac aagttcagcg tgtccggcga gggcgagggc gatgccacct
720

acggcaagct gaccctgaag ttcatctgca ccaccggcaa gctgcccgtg ccctggccca
780

ccctcgtgac caccctgacc tacggcgtgc agtgcttcag ccgctacccc gaccacatga
840

agcagcacga cttcttcaag tccgccatgc ccgaaggcta cgtccaggag cgcaccatct
900

tcttcaagga cgacggcaac tacaagacct gcgccgaggt gaagttcgag ggcgacacct
960

tggtgaaccg catcgagctg aagggcatcg acttcaagga ggacggcaac atcctggggc
1020

acaagctgga gtacaactac aacagccaca acgtctatat catggccgac aagcagaaga
1080

acggcatcaa ggtgaacttc aagatccgcc acaacatcga ggacggcagc gtgcagctcg
1140

ccgaccacta ccagcagaac acccccatcg gcgacggccc cgtgctgctg cccgacaacc
1200

actacctgag caccagtcg gccctgagca aagaccccaa cgagaagcgc gatcacatgg
1260

tcctgctgga gttcgtgacc gccgccggga tcaactctcg catggacgag ctgtacaagt
1320

ccggactcag atctcgagct caagcttcga attctgcagt cgacggtacc gcgggcccgc
1380

gatccaccgg atctagataa ctgatcataa tcagccatac cacatttgta gaggttttac
1440

ttgctttaaa aaacctccca cacctcccc tgaacctgaa acataaaatg aatgcaattg
1500

ttgttgtaa cttgtttatt gcagcttata atggttacaa ataaagcaat agcatcacia
1560

atttcacaaa taaagcattt ttttactgc attctagttg tggtttgtcc aaactcatca
1620

atgtatctta a
1631

<210> 157

<211> 42

<212> RNA

<213> Artificial Sequence

<220>

<223> DNMT1 crRNA

<400> 157

aaauuucuacu guuguagauc ugauggucca ugucuguuac uc
42

<210> 158

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> FSD5, FSD16, FSD18, FSD19, FSD20, FSD22, and FSD23 consensus

<220>

<221> MISC_FEATURE

<222> (5)..(5)

<223> N, Q, S, T, K, R, H, D, E, C, Y (polar/hydrophilic residues)

<220>

<221> MISC_FEATURE

<222> (7)..(7)

<223> G, A, V, L, I, P, Y, F, W, M, C (non-polar / hydrophobic)

<220>

<221> MISC_FEATURE

<222> (10)..(10)

<223> Any amino acid other than proline

<220>

<221> MISC_FEATURE

<222> (11)..(11)

<223> N, Q, S, T, K, R, H, D, E, C, Y (polar/hydrophilic residues)

<220>

<221> MISC_FEATURE

<222> (12)..(12)

<223> N, Q, S, T, K, R, H, D, E, C, Y (polar/hydrophilic residues)

<220>

<221> MISC_FEATURE

<222> (13)..(13)

<223> N, Q, S, T, K, R, H, D, E, C, Y (polar/hydrophilic residues)

<220>

<221> MISC_FEATURE

<222> (13)..(13)

<223> N, Q, S, T, K, R, H, D, E, C, Y (polar/hydrophilic residues)

<400> 158

Leu Lys Leu Trp Asn Arg Asn Leu Lys Asn Asn Asn Asn Gly

1

5

10

<210> 159
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> FSD5, FSD16, FSD18, FSD19, FSD20, FSD22, FSD23 consensus

<220>
 <221> MISC_FEATURE
 <222> (3)..(3)
 <223> G, A, V, L, I, P, Y, F, W, M, C (non-polar / hydrophobic)

<220>
 <221> MISC_FEATURE
 <222> (4)..(4)
 <223> Any amino acid other than proline

<220>
 <221> MISC_FEATURE
 <222> (7)..(7)
 <223> N, Q, S, T, K, R, H, D, E, C, Y (polar / hydrophilic)

<400> 159

Arg Arg Asn Asn Ala Lys Asn Ala
 1 5

<210> 160
 <211> 42
 <212> RNA
 <213> Artificial Sequence

<220>
 <223> B2M crRNA (Cas9)

<400> 160
 gaguagcgcg agcacagcua guuuuagagc uaugcuguuu ug
 42

<210> 161
 <211> 39
 <212> RNA
 <213> Artificial Sequence

<220>
 <223> B2M exon 2 crRNA-1 (Cpf1)

<400> 161
 aaauuucuacu guuguagaua uccaucgac auugaaguu
 39

<210> 162
 <211> 41
 <212> RNA
 <213> Artificial Sequence

<220>
 <223> B2M exon 2 crRNA-2 (Cpf1)

<400> 162
 aaauucuacu cuuguagauc cgauauuccu cagguacucc a
 41

<210> 163
 <211> 39
 <212> RNA
 <213> Artificial Sequence

<220>
 <223> CBLB crRNA

<400> 163
 aaauucuacu cuuguagauc uuucuuccuu uaggagaca
 39

<210> 164
 <211> 39
 <212> RNA
 <213> Artificial Sequence

<220>
 <223> GSK3 crRNA

<400> 164
 aaauucuacu cuuguagaua agaacuaaaa uuccagaug
 39

<210> 165
 <211> 39
 <212> RNA
 <213> Artificial Sequence

<220>
 <223> NKG2A crRNA

<400> 165
 aaauucuacu cuuguagaug gggcagauuc aggucugag
 39

<210> 166
 <211> 39
 <212> RNA
 <213> Artificial Sequence

<220>

<223> B2M crRNA-E

<400> 166
 aaauuucuacu cuuguagaua uccauccgac auugaaguu
 39

<210> 167
 <211> 41
 <212> RNA
 <213> Artificial Sequence

<220>
 <223> B2M crRNA-J

<400> 167
 aaauuucuacu cuuguagauc cgauauuccu cagguacucc a
 41

<210> 168
 <211> 41
 <212> RNA
 <213> Artificial Sequence

<220>
 <223> B2M crRNA-G

<400> 168
 aaauuucuacu cuuguagauu uagagucucg ugauguuuuaa g
 41

<210> 169
 <211> 31
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> FSD

<400> 169

His	His	His	His	His	His	Phe	Leu	Lys	Phe	Trp	Ser	Arg	Leu	Phe	Lys
1				5					10					15	

Phe	Trp	Thr	Gln	Gly	Arg	Arg	Lys	Gly	Ala	Gln	Ala	Ala	Phe	Arg
			20				25						30	

<210> 170
 <211> 31
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> FSD

<400> 170

His His His His His His Ile Leu Lys Ile Trp Ser Arg Leu Ile Lys
1 5 10 15

Ile Trp Thr Gln Gly Arg Arg Lys Gly Ala Gln Ala Ala Ile Arg
20 25 30

<210> 171

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> FSD

<400> 171

His His His His His His Phe Leu Lys Ile Trp Ser Arg Ala Leu Ile
1 5 10 15

Lys Ile Trp Thr Gln Gly Leu Arg Lys Gly Ala Gln Ala Ala Lys Arg
20 25 30

<210> 172

<211> 31

<212> PRT

<213> Artificial Sequence

<220>

<223> FSD

<400> 172

His His His His His His Phe Leu Lys Ile Trp Ser Arg Leu Ile Lys
1 5 10 15

Ile Trp Thr Gln Gly Leu Arg Lys Gly Ala Gln Ala Ala Lys Arg
20 25 30

<210> 173

<211> 31

<212> PRT

<213> Artificial Sequence

<220>

<223> FSD

<400> 173

His His His His His His Val Leu Lys Ile Trp Ser Arg Leu Ile Lys

<400> 174

<400> 175

<400> 176

Ile Trp Gln Gln Gly Arg Arg Lys Gly Ala Gln Ala Ala Phe Arg

20

25

30

<210> 177
 <211> 31
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> FSD

<400> 177

His His His His His His Phe Leu Lys Ile Trp Asn Arg Leu Ile Lys
 1 5 10 15

Ile Trp Asn Asn Gly Arg Arg Lys Gly Ala Asn Ala Ala Phe Arg
 20 25 30

<210> 178
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> FSD

<400> 178

His His His His His His Phe Leu Lys Ile Trp Ser Arg Leu Ile Lys
 1 5 10 15

Ile Trp Thr Gln Gly Trp Arg Thr Gly Ala Gln Ala Gly Phe
 20 25 30

<210> 179
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> FSD

<400> 179

His His His His His His Leu Leu Lys Ile Trp Ser Arg Leu Ile Lys
 1 5 10 15

Gly Trp Thr Gln Gly Trp Arg Thr Ile Ala Gln Ala Leu Gly
 20 25 30

<210> 180

<211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> FSD

<400> 180

His His His His His His Phe Leu Lys Ile Trp Ser Arg Leu Ile Lys
 1 5 10 15

Ile Trp Thr Gln Gly Ala Leu Trp Lys Thr Leu Leu Lys Lys Val Leu
 20 25 30

Lys Ala

<210> 181
 <211> 31
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> FSD

<400> 181

His His His His His His Phe Leu Lys Ile Trp Ser Arg Leu Ile Lys
 1 5 10 15

Ile Trp Pro Gln Pro Arg Arg Lys Gly Ala Gln Ala Ala Phe Arg
 20 25 30

<210> 182
 <211> 31
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> FSD

<400> 182

Phe Leu Lys Ile Trp Ser Arg Leu Ile Lys Ile Trp Thr Gln Gly Gly
 1 5 10 15

Ser Gly Gly Gly Ser Arg Arg Lys Gly Ala Gln Ala Ala Phe Arg
 20 25 30

<210> 183

<211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> FSD

<400> 183

Leu Ile Arg Lys Trp Ile His Leu Ile His Ser Trp Phe Gln Asn Leu
 1 5 10 15

Arg Arg Leu Tyr Ala Arg Ala Ala Ala Arg Gln Ala Arg Ala
 20 25 30

<210> 184
 <211> 31
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> FSD

<400> 184

Leu Leu Arg Leu Trp Ser His Leu Ile His Leu Trp Thr Gln Gly Gly
 1 5 10 15

Ser Gly Gly Gly Ser Arg Arg Leu Lys Ala Lys Arg Ala Lys Ala
 20 25 30

<210> 185
 <211> 31
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> FSD

<400> 185

Phe Leu Lys Ile Trp Ser His Leu Ile His Ile Trp Thr Gln Gly Gly
 1 5 10 15

Ser Gly Gly Gly Ser Arg Arg Leu Lys Ala Lys Arg Ala Lys Ala
 20 25 30

<210> 186
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>

<223> FSD

<400> 186

Leu	Leu	Lys	Leu	Trp	Ser	Arg	Leu	Leu	Lys	Leu	Trp	Thr	Gln	Gly	Gly
1				5					10					15	

Ser	Pro	Pro	Pro	Ser	Gly	Arg	Arg	Leu	Lys	Ala	Lys	Arg	Ala	Lys	Ala
			20					25					30		

<210> 187

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> FSD

<400> 187

His	His	His	His	His	His	Met	Val	Arg	Val	Leu	Thr	Arg	Phe	Leu	Arg
1					5				10					15	

Ile	Gly	Ala	Arg	Cys	Arg	Arg	Pro	Pro	Val	Val	Arg
			20					25			

<210> 188

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> FSD

<400> 188

His	His	His	His	His	His	Trp	Ile	Thr	Trp	Leu	Phe	Lys	Arg	Leu	Lys
1					5				10					15	

Ile	Arg	Arg	Ala	Ala	Gly	Gln	Ser	Lys	Phe	Arg	Ile	Ala	Gly
			20					25					30

<210> 189

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> FSD

<400> 189

His His His His His His Trp Ile Thr Trp Leu Arg Lys Ile Leu Lys
 1 5 10 15

Arg Phe Arg Lys Ala Ala Gln Ser Gly Phe Arg Ile Ala Gly
 20 25 30

<210> 190
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> FSD

<400> 190

His His His His His His Trp Ile Thr Trp Leu Arg Lys Ile Leu Lys
 1 5 10 15

Arg Phe Gly Lys Ala Ala Gln Ser Gly Phe Arg Ile Ala Arg
 20 25 30

<210> 191
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> FSD

<400> 191

His His His His His His Trp Ile Thr Trp Leu Arg Lys Ile Leu Lys
 1 5 10 15

Arg Leu Gly Gly Ala Ala Gln Ser Ile Ile Thr Gly Gly Gln
 20 25 30

<210> 192
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> FSD

<400> 192

Trp Ile Thr Trp Leu Phe Lys Arg Leu Lys Ile Arg Arg Ala Ala Gly
 1 5 10 15

Gly Ser Gly Gly Gly Ser Gln Ser Lys Phe Arg Ile Ala Gly
 20 25 30

<210> 193
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> FSD

<400> 193

His His His His His His Trp Ile Thr Trp Leu Phe Lys Arg Leu Lys
 1 5 10 15

Ile Arg Arg Ala Ala Gly Gly Ser Gly Gly Gly Ser Gln Ser Lys Phe
 20 25 30

Arg Ile Ala Gly
 35

<210> 194
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> FSD

<400> 194

Leu Leu Lys Leu Glu Ser Arg Glu Leu Lys Leu Trp Thr Gln Gly Gly
 1 5 10 15

Ser Gly Gly Gly Ser Gly Arg Arg Leu Lys Ala Lys Arg Ala Lys Ala
 20 25 30

<210> 195
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> FSD

<400> 195

Lys Trp Lys Leu Ala Arg Ala Glu Ala Arg Ala Glu Lys Lys Leu Gly
 1 5 10 15

Gly Ser Gly Gly Gly Ser Tyr Ala Arg Ala Leu Arg Arg Gln Ala Arg
 20 25 30

Thr Gly

<210> 196
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> FSD

<400> 196

Leu Leu Lys Leu Trp Ser Arg Leu Leu Lys Leu Trp Thr Gln Gly Gly
 1 5 10 15

Ser Gly Glu Gly Ser Gly Arg Arg Leu Lys Ala Lys Arg Ala Lys Ala
 20 25 30

<210> 197
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> FSD

<400> 197

Leu Leu Lys Leu Trp Ser Arg Leu Glu Lys Leu Trp Thr Gln Gly Gly
 1 5 10 15

Ser Gly Gly Gly Ser Gly Arg Arg Leu Lys Ala Lys Arg Ala Lys Ala
 20 25 30

<210> 198
 <211> 42
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> FSD

<400> 198

His His His His His His Leu Leu Lys Glu Trp Ser Arg Leu Leu Lys
 1 5 10 15

Thr Trp Thr Gln Gly Arg Arg Leu Lys Ala Lys Ser Ala Gln Ala Ser
 20 25 30

Thr Arg Gln Ala His His His His His His
 35 40

<210> 199
 <211> 43
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> FSD

<400> 199

His His His His His His Lys Lys Ala Leu Leu Ala Leu Ala Leu His
 1 5 10 15

His Leu Ala His Leu Ala Leu His Leu Glu Leu Ala Leu Lys Lys Ala
 20 25 30

Tyr Ala Arg Ala Ala Ala Arg Gln Ala Arg Ala
 35 40

<210> 200
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> FSD

<400> 200

Trp Ile Arg Leu Phe Thr Lys Leu Trp Arg Ile Phe Gln Gln Gly Lys
 1 5 10 15

Arg Ile Lys Ala Lys Arg Ala
 20

<210> 201
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> FSD

<400> 201

Trp Ile Arg Leu Phe Thr Lys Leu Trp Arg Ile Phe Gln Gln Gly Gly
 1 5 10 15

Ser Gly Gly Gly Ser Lys Arg Ile Lys Ala Lys Arg Ala
 20 25

<210> 202
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> FSD

<400> 202

Trp Ile Arg Leu Phe Thr Lys Leu Trp Arg Ile Phe Arg Gln Gly Lys
 1 5 10 15

Arg Ile Lys Ala Lys Ala Ala
 20

<210> 203
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> FSD

<400> 203

Trp Ile Arg Leu Phe Thr Lys Leu Trp Arg Ile Phe Arg Gln Gly Gly
 1 5 10 15

Ser Gly Gly Gly Ser Lys Arg Ile Lys Ala Lys Ala Ala
 20 25

<210> 204
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> FSD

<400> 204

Ile Leu Lys Leu Trp Ser Arg Leu Ile Lys Ile Trp Thr Gln Gly Arg
 1 5 10 15

Arg Leu Gly Ala Gln Ala Ala Leu Arg
 20 25

<210> 205
 <211> 31
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> FSD

<400> 205

Ile Leu Lys Leu Trp Ser Arg Leu Ile Lys Ile Trp Thr Gln Gly Gly
 1 5 10 15

Ser Gly Gly Gly Ser Arg Arg Leu Gly Ala Gln Ala Ala Leu Arg
 20 25 30

<210> 206
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> FSD

<400> 206

Ile Leu Lys Leu Trp Ser Arg Leu Ile Lys Ile Trp Thr Gln Gly Arg
 1 5 10 15

Arg Lys Lys Ala Gln Ala Ala Lys Arg
 20 25

<210> 207
 <211> 31
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> FSD

<400> 207

Ile Leu Lys Leu Trp Ser Arg Leu Ile Lys Ile Trp Thr Gln Gly Gly
 1 5 10 15

Ser Gly Gly Gly Ser Arg Arg Lys Lys Ala Gln Ala Ala Lys Arg
 20 25 30

<210> 208
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> FSD

<400> 208

Leu Leu Lys Ile Trp Ser Arg Leu Ile Lys Ile Trp Thr Gln Gly Arg
 1 5 10 15

Arg Leu Gly Ala Arg Ala Ala Arg Ala
 20 25

<210> 209
 <211> 31
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> FSD

<400> 209

Leu Leu Lys Ile Trp Ser Arg Leu Ile Lys Ile Trp Thr Gln Gly Gly
 1 5 10 15

Ser Gly Gly Gly Ser Arg Arg Lys Lys Ala Arg Ala Ala Arg Ala
 20 25 30

<210> 210
 <211> 26
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> FSD

<400> 210

Leu Leu Lys Leu Trp Ser Arg Leu Ile Lys Ile Trp Thr Lys Gly Arg
 1 5 10 15

Arg Lys Lys Ala Arg Ala Ala Gln Ala Arg
 20 25

<210> 211
 <211> 32
 <212> PRT

<213> Artificial Sequence

<220>

<223> FSD

<400> 211

Leu	Leu	Lys	Leu	Trp	Ser	Arg	Leu	Ile	Lys	Ile	Trp	Thr	Lys	Gly	Gly
1				5					10					15	

Ser	Gly	Gly	Gly	Ser	Arg	Arg	Lys	Lys	Ala	Arg	Ala	Ala	Gln	Ala	Arg
			20					25					30		

<210> 212

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> FSD

<400> 212

Leu	Leu	Lys	Ile	Trp	Ser	Arg	Leu	Ile	Lys	Ile	Trp	Thr	Gln	Gly	Arg
1				5					10					15	

Arg	Leu	Gly	Ala	Arg	Ala	Gln	Ala	Arg
			20					25

<210> 213

<211> 31

<212> PRT

<213> Artificial Sequence

<220>

<223> FSD

<400> 213

Leu	Leu	Lys	Ile	Trp	Ser	Arg	Leu	Ile	Lys	Ile	Trp	Thr	Gln	Gly	Gly
1				5					10					15	

Ser	Gly	Gly	Gly	Ser	Arg	Arg	Leu	Gly	Ala	Arg	Ala	Gln	Ala	Arg
			20					25				30		

<210> 214

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> FSD

<400> 214

Leu Leu Lys Ile Trp Ser Arg Leu Ile Lys Ile Trp Thr Gln Gly Arg
1 5 10 15

Arg Leu Gly Ala Arg Ala Ala Arg Gln Ala Arg
20 25

<210> 215

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> FSD

<400> 215

Leu Leu Lys Ile Trp Ser Arg Leu Ile Lys Ile Trp Thr Gln Gly Arg
1 5 10 15

Arg Leu Gly Gly Ser Gly Gly Gly Ser Ala Arg Ala Ala Arg Gln Ala
20 25 30

Arg

<210> 216

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> FSD

<400> 216

Lys Leu Lys Ile Trp Ser Arg Leu Ile Arg Lys Trp Thr Lys Gly Leu
1 5 10 15

Arg Leu Gly Ala Gln Ala Gln Ala Arg
20 25

<210> 217

<211> 31

<212> PRT

<213> Artificial Sequence

<220>

<223> FSD

<400> 217

Lys Leu Lys Ile Trp Ser Arg Leu Ile Arg Lys Trp Thr Lys Gly Gly
1 5 10 15

Ser Gly Gly Gly Ser Leu Arg Leu Gly Ala Gln Ala Gln Ala Arg
20 25 30

<210> 218

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> FSD

<400> 218

Leu Leu Lys Ile Trp Ser Arg Leu Ile Lys Ile Trp Thr Gln Gly
1 5 10 15

<210> 219

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> FSD

<400> 219

Leu Leu Lys Ile Trp Ser Arg Leu Ile Lys Ile Trp Thr Gln Gly Gly
1 5 10 15

Ser Gly Gly Gly Ser
20

<210> 220

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> FSD

<400> 220

Leu Leu Lys Ile Trp Ser Arg Leu Ile Lys Ile Trp Thr Gln Gly Arg
1 5 10 15

Gly Arg Glu Ser Arg Lys Pro Arg Lys Ser Arg Gln

20

25

<210> 221
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> FSD

<400> 221

Leu Leu Lys Ile Trp Ser Arg Leu Ile Lys Ile Trp Thr Gln Gly Gly
 1 5 10 15

Ser Gly Gly Gly Ser Arg Gly Arg Glu Ser Arg Lys Pro Arg Lys Ser
 20 25 30

Arg Gln

<210> 222
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> FSD

<400> 222

Leu Leu Lys Ile Trp Ser Arg Leu Ile Lys Ile Trp Thr Gln Gly Leu
 1 5 10 15

Gly Leu Leu Val Leu Arg Val Arg Ala Gly Lys Arg
 20 25

<210> 223
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> FSD

<400> 223

Leu Leu Lys Ile Trp Ser Arg Leu Ile Lys Ile Trp Thr Gln Gly Gly
 1 5 10 15

Ser Gly Gly Gly Ser Leu Gly Leu Leu Val Leu Arg Val Arg Ala Gly

20

25

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Lys Arg

<210> 224
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> FSD

<400> 224

Phe Leu His Ser Trp Lys Lys Phe Leu Lys Ala Phe Leu Gly Arg Ile
 1 5 10 15

Leu Gln Ser Ala Arg Ala Gly Ala Arg Gln Ala Arg Ala
 20 25

<210> 225
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> FSD

<400> 225

Phe Leu His Leu Trp Gln Lys Phe Leu Lys Phe Leu Ser Thr Gly Arg
 1 5 10 15

Lys Ile Gly Ala Arg Gln Ala Lys
 20

<210> 226
 <211> 37
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> FSD

<400> 226

His His His His His His Phe Leu Lys Ile Trp Ser Arg Leu Ile Lys
 1 5 10 15

Ile Trp Thr Gln Gly Arg Arg Lys Gly Ala Gln Ala Ala Phe Arg His

20

25

30

His His His His His
35

<210> 227
<211> 31
<212> PRT
<213> Artificial Sequence

<220>
<223> FSD

<400> 227

His His His His His His Arg Phe Ala Ala Gln Ala Gly Lys Arg Arg
1 5 10 15

Gly Gln Thr Trp Ile Lys Ile Leu Arg Ser Trp Ile Lys Leu Phe
20 25 30

<210> 228
<211> 31
<212> PRT
<213> Artificial Sequence

<220>
<223> FSD

<400> 228

His His His His Phe Leu His His Ser Trp Ile Lys Lys Ile Leu Arg
1 5 10 15

Thr Trp Ile Arg Arg Gly Gln Gln Ala Gly Lys Phe Ala Ala Arg
20 25 30

<210> 229
<211> 37
<212> PRT
<213> Artificial Sequence

<220>
<223> FSD

<400> 229

His His His His His His Ala Lys Ala Arg Lys Ala Lys Leu Arg Arg
1 5 10 15

Gly Gln Thr Trp Leu Lys Leu Leu Arg Ser Trp Leu Lys Leu Leu His

20

25

30

His His His His His
35

<210> 230
<211> 37
<212> PRT
<213> Artificial Sequence

<220>
<223> FSD

<400> 230

His His His His Leu Leu His His Ser Trp Leu Lys Lys Leu Leu Arg
1 5 10 15

Thr Trp Leu Arg Arg Gly Gln Lys Ala Lys Leu Lys Ala Arg Ala His
20 25 30

His His His His His
35

<210> 231
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> FSD

<400> 231

His His His His His His Arg Arg Ala Leu Leu Ala Leu Ala Leu His
1 5 10 15

His Leu Ala His Leu Ala Leu His Leu Ala Leu Ala Leu Arg Arg Ala
20 25 30

<210> 232
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> FSD

<400> 232

His His His His His His Lys Lys Gly Leu Leu Gly Leu Gly Leu His

20

25

30

<210> 236
 <211> 26
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> FSD

<400> 236

His His His His His His Gly Leu Phe Lys Ala Leu Leu Lys Leu Leu
 1 5 10 15

Lys Ser Leu Trp Lys Leu Leu Leu Lys Ala
 20 25

<210> 237
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> FSD

<400> 237

His His His His His His Gly Leu Phe Lys Ala Leu Leu Lys Leu His
 1 5 10 15

His Leu Lys His Ser Leu Trp His Lys Leu Leu Leu Lys Ala
 20 25 30

<210> 238
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> FSD

<400> 238

His His His His His His Ala Leu Ala Leu Ala Leu Leu Lys Leu His
 1 5 10 15

His Leu Lys His Leu Leu Ala His Lys Leu Leu Ala Lys Ala Ala Ala
 20 25 30

<210> 239

<211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> FSD

<400> 239

His His His His His His Ala Leu Leu Lys Ala Leu Ala Lys Leu Leu
 1 5 10 15

Leu Ala Leu Ala Lys Leu Leu Leu Lys Ala Ala Ala
 20 25

<210> 240
 <211> 31
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> FSD

<400> 240

His His His His His His Lys Leu Lys Leu Arg Ser Arg Leu Lys Trp
 1 5 10 15

Gly Arg Thr Gln Leu Trp Arg Ala Leu Ala Lys Lys Ala Leu Leu
 20 25 30

<210> 241
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> FSD

<400> 241

His His His His His His Val Leu Lys Leu Trp Ser Arg Ile Leu Lys
 1 5 10 15

Ala Phe Thr Gln Gly Arg Arg Met Ala Ala Lys Arg Ala Lys Cys Asn
 20 25 30

<210> 242
 <211> 31
 <212> PRT
 <213> Artificial Sequence

<220>

<223> FSD

<400> 242

His	His	His	His	His	His	Leu	Leu	Lys	Leu	Trp	Ser	Arg	Leu	Leu	Lys
1				5					10					15	

Glu	Trp	Thr	Gln	Gly	Arg	Arg	Leu	Glu	Ala	Lys	Arg	Ala	Glu	Ala
			20					25					30	

<210> 243

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 243

Arg	Leu	Lys	Phe	Leu	Arg	Arg	Leu	Met	Arg	Leu	Ile	Arg	Ser	Gly	Leu
1				5					10					15	

Arg	Val	Phe	His	Arg	Ala	Cys	Val
							20

<210> 244

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 244

Arg	Phe	Lys	Leu	Leu	Asn	Arg	Met	Leu	Arg	Arg	Phe	Arg	Ser	Ser	Ala
1				5					10					15	

Leu	Thr	Leu	Val	Ile	Ala	Val	Ala	Leu	Ile	Met	Leu	Arg	Trp	Ala	Asp
			20					25					30		

Lys	Leu	Ile	Lys
			35

<210> 245

<211> 67

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 245

Phe	Leu	Lys	Leu	Met	Arg	Lys	Leu	Phe	Lys	Arg	Tyr	Arg	Lys	Gly	Lys
1				5				10						15	

Ala	Leu	Leu	Lys	Gly	Asp	Leu	Ala	Lys	Arg	Leu	Leu	Lys	Ala	Lys	Ala
			20					25					30		

Trp	Tyr	Met	Leu	Pro	Leu	Val	Phe	His	Arg	Ile	Arg	Lys	Ala	Thr	Ile
		35					40					45			

Gly	Pro	Leu	His	Cys	Arg	Ala	Lys	Met	Arg	Lys	Arg	Pro	Gly	Arg	Arg
	50					55					60				

Glu	Ala	Arg
65		

<210> 246

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 246

Leu	Met	Lys	Leu	Leu	Gln	Lys	Ile	Tyr	Arg	Leu	Leu	Arg	Arg	Lys	His
1				5				10						15	

Leu	Lys	Pro	Asn	Arg	Tyr	Ser	Cys	Asp	Leu	Leu	Arg	Gln	His
			20					25				30	

<210> 247

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 247

Arg	Phe	Lys	Phe	Leu	Gln	Lys	Phe	Tyr	Arg	Leu	Tyr	Pro	Lys	Arg	Ser
1				5				10						15	

His	Asn	Asn	Lys	Ala	Pro	Arg	Leu	Arg	Leu	Val	Leu	Leu	Ala
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

20

25

30

<210> 248
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 248

Tyr Tyr Lys Ile Trp Gln Lys Leu Leu Arg Lys Leu Arg Arg Lys Lys
 1 5 10 15

Arg Ser Ala Ala Cys Ala Ile Leu Gln
 20 25

<210> 249
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 249

Lys Leu Arg Leu Leu Arg Arg Phe Tyr Arg Tyr Ile Arg Asn Pro Thr
 1 5 10 15

Ser Leu Cys Lys Ala Lys Leu Ile Lys Lys Trp Tyr Ala Val Tyr Gln
 20 25 30

Ala Ala Arg Ala
 35

<210> 250
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 250

Lys Trp Arg Trp Leu Thr Lys Leu Ile Arg Arg Leu Pro Cys Leu Gly
 1 5 10 15

Asp His Leu Asn Lys Gln Ser Leu Ala Tyr Asp Arg Ala Lys Ser Ala

20

25

30

Leu Arg

<210> 251

<211> 57

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 251

Leu	Phe	Arg	Met	Leu	Arg	Lys	Phe	Met	Arg	Arg	Leu	Arg	Arg	Leu	Ser
1				5					10					15	

Ala	Ala	Leu	Phe	Leu	Leu	Lys	Arg	Gln	Gln	Gln	Glu	Leu	Phe	Ala	Gly
		20						25					30		

Val	Lys	Pro	Leu	Arg	Val	Ser	Lys	Ala	Asp	Val	Val	Leu	Lys	Arg	Ala
		35					40					45			

Phe	Leu	Leu	Ala	Arg	Arg	Leu	Asp	Cys
	50					55		

<210> 252

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 252

Leu	Leu	Lys	Phe	Leu	Lys	Arg	Trp	Trp	Lys	Leu	Trp	Lys	Lys	Asp	Asn
1				5					10					15	

Arg	His	Ser	Ala	Lys	Leu	Thr	Glu	Trp	Asp	Leu	Arg	Leu	Gly
			20					25					30

<210> 253

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 253

Leu Leu Arg Leu Met Lys Lys Leu Ile Lys Arg Phe Thr Asn Leu His
1 5 10 15

Leu Leu Met Lys Ser Lys Arg Pro Ser Ala Val
20 25

<210> 254

<211> 75

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 254

Lys Trp Lys Ile Leu Arg Lys Met Leu Lys Lys Ile Gln Thr Arg Gly
1 5 10 15

Ala Phe Asp Lys Leu Pro Arg Ala Arg Asp Arg Lys Val Trp Thr Gly
20 25 30

Trp Leu Leu Asp Gln Asn Phe Trp Leu Ala Lys Gly Ser Lys Leu Arg
35 40 45

Leu Leu His Lys Pro Leu Ala Ser Arg Asp Arg Leu Lys Ala Lys Glu
50 55 60

Arg His Phe His Glu His Arg Ala Leu Arg Lys
65 70 75

<210> 255

<211> 44

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 255

Leu Leu Lys Phe Phe Ser Lys Leu Met Lys Arg Phe Lys Arg Ala Arg
1 5 10 15

His Ser Leu Ile Leu Arg Asp Ala His Arg Lys Gln Ala Leu Trp Met
20 25 30

Ala Trp Leu Ile Val Lys Lys Lys His Phe Leu Phe
 35 40

<210> 256
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 256

Arg Ile Arg Phe Met His Arg Leu Leu Arg Arg Phe Cys Lys Val Ala
 1 5 10 15

Asp Lys Tyr Ala Ala
 20

<210> 257
 <211> 75
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 257

Leu Trp Arg Tyr Met Lys Arg Tyr Leu Arg Phe Leu His Arg Arg Ala
 1 5 10 15

Glu Ile Thr Leu Ile Leu Gln Ala Tyr Ile Phe Leu His Ala Lys Arg
 20 25 30

Ala Arg Lys Arg His Gly Leu Phe Ser Ala Lys Gly Lys Lys Lys Glu
 35 40 45

Lys Trp Met Leu Cys His Cys Leu Gln Leu Gly Leu Ala Arg Thr Lys
 50 55 60

Lys Arg Ala Leu Ala Thr Ala Lys Leu Pro Pro
 65 70 75

<210> 258
 <211> 81
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 258

Phe	Leu	Lys	Leu	Met	Thr	Arg	Met	Tyr	Lys	Arg	Leu	Lys	Cys	Asp	Ala
1				5				10						15	

Lys	Lys	Leu	His	Lys	Gly	Lys	His	Ile	Ala	Asn	Lys	Ala	Thr	Leu	Leu
			20					25					30		

Ala	Arg	Phe	Ala	Gln	Arg	Leu	His	Gln	Tyr	Ala	Arg	Ile	Lys	Lys	Arg
		35					40					45			

Arg	Lys	Leu	Trp	Lys	Leu	Lys	Tyr	Leu	Pro	Arg	Leu	Lys	Tyr	Ile	Lys
	50					55					60				

Ala	Asn	Asn	Ala	Trp	His	Leu	Leu	Lys	Arg	Ala	Pro	Trp	Leu	Ala	Leu
65					70					75					80

Arg

<210> 259

<211> 45

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 259

Phe	Leu	Lys	Phe	Tyr	Ser	Arg	Ile	Phe	Arg	Arg	Phe	Lys	Thr	Phe	Pro
1				5				10						15	

Arg	Phe	Lys	Leu	Arg	Pro	Ala	Gly	Ala	Phe	Leu	Gln	Leu	Arg	His	Ala
			20					25					30		

Lys	Ala	Leu	Lys	Arg	Trp	Cys	Arg	Pro	Ala	Leu	Leu	Lys
		35				40						45

<210> 260

<211> 59

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 260

Lys Leu Lys Leu Ile Arg Arg Phe Met Lys Lys Phe Arg Thr Arg Leu
 1 5 10 15

Ala Val Lys Ile Arg Ala Trp Asp Lys Ala Lys Pro Tyr Ala Asp Gly
 20 25 30

Leu Leu Ala Ser Leu Leu Lys Arg Leu Arg Val Pro Arg Cys Ile Met
 35 40 45

Cys His Ala Lys Phe Ile Leu Thr Gln Cys Lys
 50 55

<210> 261

<211> 49

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 261

Lys Leu Lys Leu Phe Asn Arg Tyr Leu Lys Lys Leu Thr Arg Ala Asp
 1 5 10 15

Ala Gly Leu Gly Leu Trp Ala Trp Ser Ala Ala Lys Glu Leu Phe Leu
 20 25 30

Ala Glu Trp Ala Asn Trp Lys Thr Tyr Tyr Arg Arg Leu Arg Pro Asn
 35 40 45

Lys

<210> 262

<211> 38

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 262

Lys Phe Arg Leu Phe Gln Arg Trp Trp Arg Arg Leu Arg Thr Leu Arg
 1 5 10 15

Ala Asn Ser Cys Arg Lys Ala Ala Ser Ser Ala Leu Cys Met Ala Trp
 20 25 30

Asn Arg Gly Lys Cys Ala
 35

<210> 263
 <211> 38
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 263

Phe Met Lys Phe Leu Lys Lys Tyr Phe Arg Phe Tyr Thr Lys Cys Ala
 1 5 10 15

Leu Arg Ala Tyr Leu His Lys Ala His Lys Arg Leu Arg Thr Arg Ser
 20 25 30

Trp Ile Leu Ala Gln Arg
 35

<210> 264
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 264

Ile Trp Lys Leu Leu Arg Lys Leu Leu Lys Lys Leu Arg Lys Glu Met
 1 5 10 15

Met Leu Leu Lys Ser Asp Lys Pro Ala Gln His Glu Lys Leu His Tyr
 20 25 30

<210> 265
 <211> 43
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 265

Lys Tyr Lys Tyr Leu Lys Arg Phe Leu Lys Phe Leu Arg Lys Glu Glu
 1 5 10 15

Thr Arg Leu Leu Leu Ala Ala Asn His Cys Tyr Arg Ala Leu Lys Asn
 20 25 30

Glu Phe Glu Tyr Arg Ala Ala Lys Gln Ala Arg
 35 40

<210> 266
 <211> 58
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 266

Leu Leu Arg Leu Phe Arg Lys Leu Phe Lys Phe Leu Arg Lys Gly Leu
 1 5 10 15

Gly Glu Pro Leu Leu Gln Gly Asn Lys Lys Leu Phe Lys Asp Leu Lys
 20 25 30

Leu Arg His Ser Lys Ala Ala Leu Ala Phe Met Ser Ala Ser Phe Phe
 35 40 45

Ala Gly Asp Lys Leu Asn Gly Arg Trp Gly
 50 55

<210> 267
 <211> 56
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 267

Tyr Met Arg Leu Met Lys Arg Leu Leu Lys Trp Ile Thr Thr Leu Ala
 1 5 10 15

Leu Asp Tyr Gly Arg Asn Leu Pro Leu Ala Leu Arg Ser Arg Ala Lys
 20 25 30

Leu Pro Ala Phe Trp Leu Pro Ile Gly Asp Ala Arg Arg Arg Lys Val

35

40

45

Leu Arg Leu Asn Tyr Tyr Arg Val
 50 55

<210> 268

<211> 43

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 268

Arg Leu Arg Leu Phe Arg Lys Phe Tyr Arg Lys Phe Thr Arg Arg Lys
 1 5 10 15

Leu Cys Val Ala Lys Ala Ser Thr Phe Arg Val Leu Tyr Ala Asn Arg
 20 25 30

Thr Glu Ala Arg Lys Tyr Thr Leu Leu Leu Arg
 35 40

<210> 269

<211> 54

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 269

Lys Leu Arg Leu Ile Lys Arg Phe Leu Arg Phe Met Asn Lys Leu Arg
 1 5 10 15

Val Arg Ala Val Pro Lys Lys Ala Ala Arg Lys Leu Lys Glu Trp Gln
 20 25 30

Ala Trp Lys Thr Gly Glu Ala Trp Gly Asp Lys Ala Ala Phe Arg Leu
 35 40 45

Leu Asp Leu Asn Lys Cys
 50

<210> 270

<211> 42

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 270

Leu Trp Lys Leu Leu Lys Arg Tyr Phe Lys Lys Met Cys Lys Leu Ala
1 5 10 15

Trp Lys His Arg Lys Gly Ala Asp Pro Leu Val Leu Leu Met Met His
20 25 30

Ala Lys Lys Val Leu Pro Leu Ser Gly Leu
35 40

<210> 271

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 271

Leu Met Arg Phe Ile Lys Arg Met Met Lys Leu Leu Thr Arg Ser Leu
1 5 10 15

Lys Ile Leu Gly Ala Arg Gly Lys Glu Leu Thr Arg Arg Gly Arg Trp
20 25 30

Leu

<210> 272

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 272

Lys Leu Lys Met Leu Arg Lys Phe Ile Lys Met Leu Pro Lys Leu Leu
1 5 10 15

Arg Cys Arg Lys Leu Arg Trp His Cys Cys Ala Lys Ser Trp His Ala
20 25 30

His Leu Tyr Ala
35

<210> 273
<211> 31
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 273

Lys Phe Lys Phe Leu Arg Arg Tyr Met Lys Lys Phe Lys Arg Ala Gly
1 5 10 15

Lys Ala Asp Asp Leu Glu Leu Leu Ala Ala Trp Ala Lys Ala Ile
20 25 30

<210> 274
<211> 49
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 274

Leu Met Lys Leu Phe Lys Lys Met Phe Arg Lys Met Lys Arg Met Leu
1 5 10 15

Trp Ala Ile Leu Leu Arg Leu Arg Glu Asp Lys Ala Ile Leu Thr Lys
20 25 30

Glu Gly Leu Leu Leu Asn Lys Lys Arg Arg Lys Arg Phe Ala Ala Lys
35 40 45

Met

<210> 275
<211> 68
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 275

Lys Trp Lys Phe Leu Arg Arg Phe Trp Lys Lys Leu Lys His Ala Arg
 1 5 10 15

Ala Lys Met Arg Leu Ala Ser Arg Ile Phe Asn Lys Leu Arg Gly Glu
 20 25 30

Arg Cys His Gly Ala Gly Val Phe Ile Tyr Arg Leu Asp Phe Asn Arg
 35 40 45

Pro His Gly His Ala Arg Ala Leu Arg Ala Ile Ala Leu Lys Ala Ala
 50 55 60

Ile Lys Arg Arg
 65

<210> 276
 <211> 62
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 276

Lys Ile Lys Leu Tyr Arg Arg Phe Met Lys Arg Ile Cys Ser Lys Lys
 1 5 10 15

Arg Ala Asp Trp Leu Leu Leu Cys Lys Ala Leu Asn Glu Lys Thr Tyr
 20 25 30

Lys Leu Lys Ala Arg Tyr Ala Ala Arg Leu Ala Trp Ser Thr Lys Asp
 35 40 45

Lys Ile Leu Lys Phe Leu Lys Ala Gln Arg Arg Thr Glu Ser
 50 55 60

<210> 277
 <211> 46
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 277

Phe Leu Arg Met Tyr Arg Lys Leu Trp Lys Lys Leu Lys His Leu Lys

<210> 280
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 280

Lys Phe Lys Leu Ile Cys Lys Leu Trp Arg Trp Phe His Gln Arg Leu
 1 5 10 15

Ala Thr Lys Phe Leu Arg Ala
 20

<210> 281
 <211> 79
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 281

Trp Met Lys Met Tyr Arg Arg Met Leu Arg Arg Leu His Cys Val Leu
 1 5 10 15

His His Ile Leu Arg Lys Arg Lys Tyr Phe Leu Trp Arg Leu Trp Lys
 20 25 30

Lys Gln Tyr Thr His Arg Leu Ser Glu Ala Leu Ala Ser Ala Leu Asn
 35 40 45

Tyr Leu Leu Lys Arg Ala Ala Leu Glu Lys Ile Val Leu Arg Asn Lys
 50 55 60

Leu Lys Ala Lys Leu Ala Val Asn Lys Gln Tyr Ala Tyr Ala Lys
 65 70 75

<210> 282
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 282

Lys Leu Arg Phe Leu Pro Lys Leu Leu Arg Leu Trp Ser Arg Arg Asp
 1 5 10 15

Leu Met Asn Leu Lys Leu Arg
 20

<210> 283
 <211> 66
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 283

Lys Phe Arg Tyr Leu Cys Arg Leu Leu Lys Tyr Met Thr Lys Thr Ala
 1 5 10 15

Phe Asp Tyr Lys Leu Lys Gly Leu Asn His Lys Lys Leu Phe Ala Ala
 20 25 30

Leu Lys Ser Ala Val Gln Ala Tyr Tyr Lys Arg Arg Leu Val Asn Lys
 35 40 45

Leu Lys Ala Arg Ala Asn Arg Tyr Lys Ala Gly Ala Asp Glu Ser Lys
 50 55 60

Leu Arg
 65

<210> 284
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 284

Arg Ile Arg Leu Leu Arg Arg Tyr Leu Arg Leu Leu Arg Lys His Tyr
 1 5 10 15

Ser Glu His His Glu
 20

<210> 285

<211> 90
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 285

Arg Phe Lys Phe Ile Lys Lys Tyr Phe Lys Tyr Leu His Lys Lys Lys
 1 5 10 15

His Glu Arg Cys Met Lys Ile Trp Ala Glu Tyr Met His Arg Asp Lys
 20 25 30

Ser Leu Leu Ala Asp Lys Lys Lys Asn Ala Arg Ala Lys Ala Arg Arg
 35 40 45

Leu Ala Tyr Ala Lys Thr Gly Leu Pro Glu Lys Pro Arg Ser Ala Ala
 50 55 60

Ala Thr Arg Thr Lys Gly Leu Cys Asp Leu Leu Cys Lys Arg Arg Ala
 65 70 75 80

Ile Leu Ala Ala Cys Asp Ala Ala His Tyr
 85 90

<210> 286
 <211> 59
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 286

Phe Phe Arg Trp Leu Lys Arg Met Phe Arg Arg Met Thr Lys Arg Ala
 1 5 10 15

Lys Cys Leu Lys Ala Ala Trp Lys Trp Pro Asn Ala Trp Ala Lys Leu
 20 25 30

Leu Glu Lys Ile Pro Arg Cys His Lys Gly Asn Cys Leu Arg Arg Leu
 35 40 45

Leu Ala Asn Lys Ile Asn Ile Leu Leu Lys Arg
 50 55

<210> 287
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 287

Arg Leu Lys Phe Phe Cys Lys Leu Trp Arg Lys Phe Arg Lys Ala Lys
 1 5 10 15

Tyr Leu Leu Pro Glu Leu Pro Ile Ala Ala Arg Thr Pro Leu Leu Lys
 20 25 30

Tyr Ala Gln
 35

<210> 288
 <211> 57
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 288

Leu Leu Arg Leu Leu Lys Lys Tyr Phe Lys Lys Met Arg Gln Asp Leu
 1 5 10 15

Arg Ser Ala Ser Phe Pro His Ala Leu Ala Ala Ala Asp Lys Ala Lys
 20 25 30

Lys Arg Pro Ile Lys Leu Asn Ile Ala Lys Ile Met Leu Met Phe Arg
 35 40 45

Leu Asp His His Glu Ala Met Tyr Leu
 50 55

<210> 289
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 289

Lys Leu Lys Ile Phe Arg Lys Ile Leu Arg Trp Met Arg Lys Ala Leu
 1 5 10 15

Leu Arg Arg Leu Ser Cys Gly His Thr Val Gly Leu Ala
 20 25

<210> 290
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 290

Leu Leu Arg Phe Leu Cys Arg Leu Leu Arg Arg Trp Arg Cys Ala Lys
 1 5 10 15

Asp Leu Leu Arg Trp
 20

<210> 291
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 291

Lys Leu Arg Ile Tyr Pro Lys Ile Trp Arg Leu Phe Arg Arg Arg Met
 1 5 10 15

Thr Val Leu Cys Glu Leu Lys Tyr Val Lys Ala Ala Ala Lys Leu Ala
 20 25 30

<210> 292
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 292

Met Leu Lys Leu Ile Lys Arg Leu Ile Arg Lys Met Thr Arg Lys Asn
 1 5 10 15

Phe Ala Ser Arg Lys Tyr Leu Gln Ala Ala Ala Thr Tyr Trp
 20 25 30

<210> 293
 <211> 100
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 293

Arg Phe Arg Tyr Phe Lys Arg Phe Leu Arg Leu Phe Lys Lys Ala Phe
 1 5 10 15

Ala Thr Lys Pro Lys Ala Lys His Arg Ile Ala Ala Gly Asn Phe Thr
 20 25 30

Arg Trp Arg Phe Ala Ala Ala Leu Leu Ala Val Pro Leu Cys Ala Asn
 35 40 45

Asp Cys Arg Leu Lys Arg Asn Ala Lys Pro Arg Ala Gln Lys Ala Trp
 50 55 60

Asp Ala Arg Trp Lys Pro Phe Glu Leu Lys Cys Leu Ala Lys Glu Gly
 65 70 75 80

Ile Ala Leu Arg Met Lys Glu His Ala His Thr Phe Arg Pro Arg Asn
 85 90 95

Lys Arg Arg Gln
 100

<210> 294
 <211> 76
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 294

Trp Phe Lys Met Phe Ser Arg Leu Trp Arg Lys Ile Lys Arg Ile Leu
 1 5 10 15

Lys Ala Lys Cys Trp Lys Thr His Leu Arg Leu His Asp Arg Lys Ala

20 25 30
 Arg Ala Cys Leu Leu Leu Leu Lys Arg Ala Ile Trp Leu His Tyr Val
 35 40 45
 Gln Met Asn Trp Leu Tyr Asp Leu Lys Ala Pro Ala Glu Asp Ala Ala
 50 55 60
 Pro Gly Ala Leu Leu Arg Gly Lys Arg Ala Met Cys
 65 70 75

<210>	295
<211>	65
<212>	PRT
<213>	Artificial Sequence
<220>	
<223>	Computer-generated peptide variant
<400>	295

Phe	Leu	Lys	Tyr	Leu	Lys	Arg	Leu	Trp	Lys	Met	Phe	Asn	Arg	Asp	Leu
1				5					10					15	
Ala	Met	Lys	Ala	Arg	Lys	Leu	Ala	Ala	Pro	Lys	Ala	Trp	Met	His	Ile
			20					25					30		
Ala	Cys	Tyr	Arg	Glu	Pro	Phe	Thr	Gln	Ala	Leu	Lys	Met	Lys	Leu	Leu
		35					40					45			
Arg	Asn	Leu	Lys	Ala	Leu	Thr	Thr	Arg	Trp	Ala	His	Arg	Pro	Leu	Lys
	50					55					60				

Leu
65

<210>	296
<211>	33
<212>	PRT
<213>	Artificial Sequence
<220>	
<223>	Computer-generated peptide variant
<400>	296

Leu Met Lys Leu Met Lys Lys Phe Leu Arg Met Leu Asn Thr Lys Lys
1 5 10 15

Ala Ala Tyr Gln Thr Arg Cys Lys Ala Ala Arg Tyr Gln Thr Ala Met
 20 25 30

Leu

<210> 297
 <211> 55
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 297

Lys Leu Arg Phe Leu Lys Arg Met Met Arg Phe Trp Arg Arg Arg Lys
 1 5 10 15

Arg Glu Trp Thr Ser Leu Ala Met Val Arg Ala Lys Leu Ser Arg Trp
 20 25 30

Ala Ala Leu Ala Ala Asp Leu Val Leu Asn Phe Leu Ala Ala Leu Asn
 35 40 45

Glu Cys Ala Trp Gly Val Lys
 50 55

<210> 298
 <211> 51
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 298

Met Leu Lys Met Tyr Gln Lys Leu Leu Arg Arg Phe Arg Arg Ala Lys
 1 5 10 15

Pro Ala Pro Lys Gly Ala Ser Gly Cys Ala Phe Leu Leu Val Ala Arg
 20 25 30

Leu Trp Gln Met Arg Arg Met Lys Arg Ala Lys Ala Ser Leu Val Lys
 35 40 45

Cys Pro Leu

50

<210> 299
 <211> 75
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 299

Lys Ile Lys Ile Trp Arg Lys Tyr Leu Arg Arg Leu Thr Gln Leu Arg
 1 5 10 15

Ser Ser Val Trp Tyr Trp Ile Gly Cys His Arg Arg Ala Ala Leu Lys
 20 25 30

Leu Gly Gln Lys Phe Ala Lys Ala Trp Arg Cys Arg Ala Leu Phe Met
 35 40 45

Leu Tyr Asn Arg Asn Gly Gln Leu Ser Ala Leu Lys Lys Lys Lys Leu
 50 55 60

Ala His Arg Lys Thr Arg Arg Met Leu Phe Lys
 65 70 75

<210> 300
 <211> 54
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 300

Arg Met Arg Ile Tyr Cys Lys Leu Leu Arg Lys Leu Arg Arg Leu Ala
 1 5 10 15

Trp Leu Gln Arg Ala Leu Glu Lys Phe Asn Tyr Pro Arg Phe Ala Leu
 20 25 30

Val Ile Arg Leu Ala Leu Lys Lys Lys Ala Lys Gln Ala Lys Arg Lys
 35 40 45

Leu Leu Trp Ile Arg Ala
 50

<210> 301
 <211> 31
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 301

Lys Leu Arg Met Phe Thr Lys Leu Trp Arg Leu Phe Lys Arg Lys Leu
 1 5 10 15

Ala Ala Phe Thr Glu Ala Lys Leu Lys Cys Asn Lys Lys Ala Cys
 20 25 30

<210> 302
 <211> 95
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 302

Leu Tyr Arg Met Leu Arg Arg Leu Trp Lys Lys Leu Arg Lys Lys Ile
 1 5 10 15

Ile Leu Met Leu Lys Arg Thr Arg His Arg Glu Met Lys Cys Ala Gly
 20 25 30

Ala Tyr Ala Thr Lys Tyr Arg Ile Leu Arg Gln Ala Ala Met Met Arg
 35 40 45

Leu Ile Met Asp Leu Leu Arg Leu Tyr Lys Ala Leu Leu Gly Leu Glu
 50 55 60

Pro Phe Arg Asp Leu Ala Leu Ala Lys Glu Lys Asn Met Arg Ala Ile
 65 70 75 80

Lys Asn Glu Asp Ala Phe Arg Gln Lys Ser Phe Leu Ala Thr Cys
 85 90 95

<210> 303
 <211> 48
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 303

Lys	Phe	Lys	Leu	Met	Arg	Lys	Phe	Leu	Lys	Arg	Phe	Lys	Thr	Val	Lys
1				5					10					15	

Cys	Gly	Leu	Thr	Gly	Thr	Gly	Ala	Leu	Leu	Lys	Leu	Thr	Ile	Gln	Leu
			20					25						30	

Lys	Ser	Arg	Ser	Arg	Lys	Glu	Trp	Ala	Ile	Leu	Leu	Ala	Leu	Leu	Cys
		35					40					45			

<210> 304

<211> 44

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 304

Lys	Leu	Arg	Trp	Leu	His	Lys	Trp	Phe	Lys	Leu	Met	Gln	Pro	Met	Leu
1				5					10					15	

Ala	Ala	Asp	Asp	Tyr	Gln	Ala	Ala	Ala	Arg	Leu	Ser	Lys	Leu	Ile	Arg
			20					25					30		

Ala	Leu	Cys	Cys	Phe	Arg	Lys	Leu	Leu	Lys	Arg	His
		35					40				

<210> 305

<211> 67

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 305

Lys	Leu	Arg	Leu	Leu	Arg	Arg	Ile	Ile	Arg	Ile	Phe	Lys	Asn	Gly	Glu
1				5					10					15	

Asn	Ala	Ala	Leu	Arg	Lys	Asp	Asn	His	Leu	Gly	Leu	Lys	Gly	Ala	Arg
			20					25					30		

Pro	Met	Arg	His	Arg	Lys	Ala	Lys	Phe	Leu	Leu	Phe	Lys	Thr	Tyr	Arg
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

35

40

45

Asp Asp Arg Leu Pro Arg Thr Lys Asn Val Leu Arg Glu Ala Leu Leu
 50 55 60

Arg Arg Leu
 65

<210> 306
 <211> 42
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 306

Phe Leu Lys Leu Leu His Lys Ile Phe Arg Phe Leu Arg Lys Leu Arg
 1 5 10 15

Asp Trp Met Ala Cys Gly Phe Lys Lys Pro Leu Tyr Lys Ala Trp Lys
 20 25 30

Lys Cys Leu Arg Leu Leu Lys Met Leu Arg
 35 40

<210> 307
 <211> 59
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 307

Arg Phe Arg Leu Ile Lys Arg Trp Leu Arg Trp Leu Arg His Leu Ala
 1 5 10 15

Lys Tyr Asn Lys Asp Arg Ala Lys Val Tyr Ala Thr Ala Arg Arg Trp
 20 25 30

Lys Cys Trp Lys Ala Arg Trp Ser Arg Leu Leu Leu Gln Gly Arg Cys
 35 40 45

Lys Ile Lys Ala Arg Leu Trp Ala Ala Ala Glu
 50 55

<210> 308
 <211> 74
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 308

Arg Phe Lys Leu Trp Arg Arg Ile Phe Arg Arg Leu Pro Ser Leu Lys
 1 5 10 15

Phe Trp Leu Lys Lys Tyr Glu Pro Ile Ala Ala Asp Gly Val Lys Arg
 20 25 30

Trp Arg Arg Pro Met Ala Ala His Ala Arg Leu Asp Leu Leu Lys His
 35 40 45

Ala Gly Leu Arg Gln Ala Ala Ala Cys Ser Lys Met Pro Arg Thr Tyr
 50 55 60

Ala Glu Phe Arg Lys Leu Lys Gly Leu Ala
 65 70

<210> 309
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 309

Lys Leu Arg Met Leu His Arg Leu Ile Arg Trp Trp Cys Lys Lys Leu
 1 5 10 15

Leu Lys Pro Ala
 20

<210> 310
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 310

Ile Phe Lys Ile Leu Lys Arg Leu Tyr Arg Met Phe Lys Lys Trp Leu
 1 5 10 15

Leu Ala Lys Tyr Arg Ala Ala Leu Gly Arg Ala Ala Leu Leu Lys Arg
 20 25 30

Ser Lys

<210> 311
 <211> 38
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 311

Leu Trp Arg Met Leu His Arg Leu Met Arg Lys Leu Thr Arg Cys Gly
 1 5 10 15

Lys Val Ile Tyr Lys Ala Ser Met Ala Gly Ala Leu Arg Lys Gly Leu
 20 25 30

Met Phe Arg Arg Leu Gln
 35

<210> 312
 <211> 49
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 312

Arg Leu Lys Phe Phe Lys Lys Met Tyr Arg Arg Phe Gln Lys Thr Cys
 1 5 10 15

Lys Pro Phe Gly Arg Ala Gln Asp Ile Lys Leu Tyr Leu Ala Lys Ala
 20 25 30

Leu Ala Arg Leu His Pro Leu Thr Arg Ala Leu Lys Tyr Tyr Met Leu
 35 40 45

Arg

<210> 313
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 313

Phe Leu Lys Trp Phe Cys Lys Phe Met Lys Lys Trp Lys Pro Leu Ala
 1 5 10 15

Leu Val Asp Met Arg Lys Ala Leu Leu Arg Val Leu Gly Asn Lys Gln
 20 25 30

Lys Arg Leu
 35

<210> 314
 <211> 51
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 314

Leu Leu Lys Leu Leu Gln Arg Phe Met Lys Arg Trp Lys Arg Tyr Leu
 1 5 10 15

Arg Phe Arg Leu Trp Leu Arg Lys Gln Cys Leu Ile Phe Thr Glu Ile
 20 25 30

Arg Leu Ala Ala Leu Leu Met Tyr Ala Lys Met Glu Lys Arg Trp His
 35 40 45

Lys Lys Ala
 50

<210> 315
 <211> 67
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 315

Phe Leu Lys Phe Met Lys Lys Leu Ile Lys Ile Leu Lys Lys Ala Tyr
1 5 10 15

Gln Asp Glu Arg Ala Asn Ala Thr Ala Ala Arg Glu Ala Ala Arg Leu
20 25 30

Asn Lys Gly Glu Leu Arg Lys His His Phe Phe Phe Ile His Gly Lys
35 40 45

Thr Arg Ala Leu Arg Ala Thr Arg His Asn Arg Leu Arg Thr Lys Leu
50 55 60

Asn Lys Ala
65

<210> 316

<211> 59

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 316

Lys Leu Arg Met Leu Arg Lys Phe Trp Arg Leu Met Cys Gln Lys Ala
1 5 10 15

Asp Ile Ala Tyr Pro Lys Trp Met Arg Ala Leu Arg Leu Arg Phe Lys
20 25 30

Leu Ala Pro Leu Arg Ala Ala Glu Asn Lys Val Asp Lys Ile Leu Ser
35 40 45

Tyr Lys Arg Cys Leu Tyr Arg Gln Ala Gly Lys
50 55

<210> 317

<211> 31

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 317

Lys Leu Arg Trp Tyr Arg Arg Leu Leu Lys Phe Leu Arg Lys Arg Ala
 1 5 10 15

Lys Thr Leu Ala Lys Met Lys Lys Gly Ala Thr Leu Glu Ala Tyr
 20 25 30

<210> 318

<211> 77

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 318

Met Phe Lys Leu Phe Pro Arg Leu Leu Arg Lys Leu Arg Cys Leu His
 1 5 10 15

Ser Asn Ile Ala Leu Lys Leu Leu Arg Tyr Lys Asn Lys Ala Lys Asp
 20 25 30

Lys Leu Cys Leu Ala Lys Pro Trp Pro Leu Leu Leu Thr Lys Lys Ala
 35 40 45

Ala Trp Lys Met Tyr Lys Lys Gln Pro Lys Asn Ile Glu Ser Leu Asp
 50 55 60

Gln Ala Pro Arg His Asp Leu Arg Lys Tyr Gln Glu Leu
 65 70 75

<210> 319

<211> 57

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 319

Trp Ile Arg Trp Met Asn Arg Leu Leu Arg Ile Leu Arg Cys Lys Lys
 1 5 10 15

Ile Lys Leu Asp Asp Pro Lys Phe Phe Leu Arg Pro Arg Phe Leu Lys
 20 25 30

Ala Arg Thr Asp Arg Ala Ser Ala Lys Leu Ala Asn Ala Met Arg Arg

35

40

45

Lys Ala Lys Ile Lys Cys Ala His Met
 50 55

<210> 320

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 320

Arg Leu Lys Leu Leu Lys Lys Trp Met Lys Met Leu Lys Thr Ala Tyr
 1 5 10 15

Trp Lys Val Tyr Val Leu Lys
 20

<210> 321

<211> 58

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 321

Arg Phe Arg Phe Leu Arg Arg Leu Phe Arg Arg Trp Arg Gln His Ala
 1 5 10 15

Ala Arg Cys Leu Cys Tyr Pro His Asp Pro Ala Tyr Glu Lys Asp Leu
 20 25 30

Met Met Ala Ala Ala Leu Arg Leu Ala Lys Arg Ile Met Cys Ala Ile
 35 40 45

Arg Asn Tyr Ala Leu Arg His Leu Met Leu
 50 55

<210> 322

<211> 48

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 322

Phe Leu Arg Trp Trp Arg Arg Met Leu Lys Lys Trp Arg Cys Ala Ala
1 5 10 15

Lys His Arg Ala His Leu Lys Leu Arg Met Gln Ala Leu Phe Ser Glu
20 25 30

His Lys Arg Ala Arg Asn Tyr Leu Asp Arg Gln Leu Ala Met Ala Lys
35 40 45

<210> 323

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 323

Lys Ile Lys Phe Tyr Asn Arg Phe Leu Arg Leu Met Arg Arg Ala Leu
1 5 10 15

Val Lys Phe Leu
20

<210> 324

<211> 73

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 324

Lys Phe Lys Leu Trp Asn Lys Trp Leu Arg Arg Leu Ser Asn Lys Ala
1 5 10 15

Arg Ser Lys Leu Lys Cys Ala Ser Lys Trp Glu Gln Ala Ala Trp Cys
20 25 30

Asn Arg Ala Phe Arg Ala Ser Val Ala Gly Arg Lys Thr Leu Lys Ala
35 40 45

Asn Leu Arg Gly Leu Ala Glu Leu Ala Asn Val Ala Leu Gln Pro Arg
50 55 60

Arg Thr Lys Arg Arg Ala Ile Ala Arg
65 70

<210> 325
<211> 33
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 325

Lys Leu Arg Met Leu Pro Arg Leu Ile Arg Arg Leu Lys His Ala Arg
1 5 10 15

Arg Ile Ala Asn Lys Cys Arg His Ala Pro Ala Gly Val Lys Ile Arg
20 25 30

Leu

<210> 326
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 326

Trp Leu Lys Leu Leu Lys Lys Ile Tyr Lys Ile Trp Ser Thr Leu Ala
1 5 10 15

Phe Lys Pro Lys Trp Arg Arg Ser Ala Leu Lys
20 25

<210> 327
<211> 36
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 327

Arg Met Arg Ile Leu Cys Arg Leu Tyr Arg Phe Leu Gln Lys Leu Met
1 5 10 15

Lys Arg Ala Arg Lys Ala Ile Pro Lys Phe Arg Arg Leu Ala Cys Leu
 20 25 30

Thr Trp Phe Tyr
 35

<210> 328
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 328

Arg Ile Arg Trp Tyr Lys Lys Ile Trp Arg Ile Leu Arg Lys Asn Leu
 1 5 10 15

Ser Arg Leu Gln Ala Lys Leu Glu Leu Lys Tyr Ala Leu Gly Leu Ser
 20 25 30

Glu Leu Leu Gly Arg Val Leu Arg
 35 40

<210> 329
 <211> 37
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 329

Arg Leu Lys Leu Met Arg Lys Leu Leu Arg Phe Trp Lys Thr Leu Leu
 1 5 10 15

Arg Arg Arg Lys Ala Arg Leu Leu Lys Cys Ile Gly Trp Asp Leu Gly
 20 25 30

Ala Ala His Gly Arg
 35

<210> 330
 <211> 62
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 330

Leu	Met	Arg	Phe	Met	Arg	Arg	Leu	Met	Arg	Arg	Phe	Cys	Asn	Ala	Leu
1				5					10					15	

Arg	Arg	Thr	Arg	Asp	Arg	Pro	Ala	Leu	Arg	Asp	Lys	Lys	Ala	Lys	Glu
			20					25					30		

Ala	Ala	Leu	Leu	Pro	Arg	Val	Thr	Leu	Asn	Val	Gly	Phe	Val	Arg	Lys
		35					40					45			

Asp	Lys	Leu	Ala	Arg	Ser	Val	Arg	Ala	Glu	Lys	Ala	Arg	Arg
	50					55					60		

<210> 331

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 331

Phe	Phe	Arg	Phe	Tyr	Gln	Lys	Tyr	Leu	Lys	Arg	Ile	Arg	Lys	Asn	Leu
1				5					10					15	

Phe	Leu	Leu	Gln	Ala	Lys	Tyr	Lys	Trp	Arg	Asp	Ala	Leu
			20					25				

<210> 332

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 332

Arg	Trp	Lys	Tyr	Phe	Lys	Lys	Leu	Phe	Lys	Leu	Ile	Lys	Cys	Leu	Thr
1				5					10					15	

Tyr	Arg	Leu	Asp	Leu	Lys	Gly	Leu	Arg	Leu	Leu	Phe	Lys	Asp
			20				25					30	

<210> 333

<211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 333

Lys Leu Arg Tyr Leu Gln Lys Trp Tyr Lys Arg Tyr Ser Arg Ala Tyr
 1 5 10 15

Gly Leu Met Cys Ala Lys Arg Ala Arg His Leu Trp Pro Lys Phe Ala
 20 25 30

Asn Ala

<210> 334
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 334

Phe Phe Lys Tyr Leu His Lys Leu Leu Lys Leu Leu Arg Cys Leu Ala
 1 5 10 15

Gln Asp Val Lys Thr Lys Arg Arg Arg
 20 25

<210> 335
 <211> 49
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 335

Lys Phe Lys Trp Tyr Cys Arg Leu Phe Arg Leu Phe Lys His Lys Trp
 1 5 10 15

Ser Leu Leu Leu Arg Glu Leu Ala Met Leu Cys Tyr Leu His Cys Ala
 20 25 30

Lys Leu Ala Gly Ala Ala Cys Leu Gln Arg Trp Lys Lys Gln Leu Val

35

40

45

Lys

<210> 336

<211> 51

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 336

Lys Met Lys Tyr Met Cys Arg Leu Met Arg Lys Ile Arg Thr Leu Met
 1 5 10 15

Pro Glu Pro Phe Lys Ala Leu Ala Leu Leu Ala Tyr Leu Ala Thr Arg
 20 25 30

Leu Gln Glu Leu Phe Val Arg Met Ala Ala Arg Val Lys Arg Arg Asp
 35 40 45

Leu Lys Trp
 50

<210> 337

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 337

Arg Leu Lys Ile Trp Lys Arg Phe Phe Lys Lys Tyr Arg Thr Leu Asn
 1 5 10 15

Lys Leu Ile Ser His Ala Arg Leu Leu Arg Trp Lys Leu Gly Leu Arg
 20 25 30

Leu Ile His Gly Arg Ala Gly Arg
 35 40

<210> 338

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 338

Leu Phe Lys Tyr Tyr Cys Arg Met Trp Arg Leu Leu Asn Lys Cys Gln
1 5 10 15

Ala Leu Thr Arg Lys Met His Arg Cys Leu Ile Ala Leu Lys Ala Lys
20 25 30

<210> 339

<211> 38

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 339

Tyr Phe Lys Phe Met Lys Arg Leu Leu Arg Lys Ile Arg Lys Leu Ser
1 5 10 15

Arg Trp Arg Met Leu Leu Arg Trp Ala Ala Pro Lys Ala Asp Ala Asp
20 25 30

Ala Asn Leu Trp Ala Ile
35

<210> 340

<211> 52

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 340

Arg Trp Arg Leu Ile Arg Arg Met Phe Arg Ile Leu Ser Ser Trp Lys
1 5 10 15

Pro Ala Arg Gln Lys Ala Asn Leu Arg Leu Arg Arg Ile His Leu Leu
20 25 30

Leu Lys Pro Arg Leu Ala Lys Ala Asp Lys Leu Ala Leu Cys Pro Asn
35 40 45

Phe Ser Ala Leu
50

<210> 341
<211> 47
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 341

Met Leu Lys Leu Met Lys Arg Leu Tyr Lys Leu Leu Lys Lys Ala Gln
1 5 10 15

Leu Arg Arg Ala Tyr Ile Ala Gln Pro Met Asn Cys His Arg Arg Leu
20 25 30

Arg Leu Lys Ala Gln Trp Leu Asp Arg Asp Ala Tyr Ile Lys Asn
35 40 45

<210> 342
<211> 99
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 342

Lys Tyr Lys Phe Phe Lys Lys Ile Phe Arg Leu Leu Lys Lys Thr Met
1 5 10 15

Ala Phe Asn Ala Leu Gln His Lys Leu Pro His Lys Gly Ala Lys Leu
20 25 30

Leu Arg Lys Asn Gly Leu Arg Asn Ser Arg Pro Glu Lys Arg Arg Arg
35 40 45

Lys Asp Lys Lys Lys Thr Asn Asp Phe Ile Leu Lys Ala Met Phe Lys
50 55 60

Ala His Ala Lys Met His Leu Gln Glu Leu Arg Arg Thr His Arg Ala
65 70 75 80

Glu Lys Ala Arg Ala Cys Ala Ala Ala Cys Tyr Leu Arg Val Phe Gln

85

90

95

Arg Glu Gln

<210> 343
 <211> 61
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 343

Leu Ile Lys Phe Leu Arg Arg Leu Leu Arg Lys Trp Thr Ser Arg Thr
 1 5 10 15

Cys Glu Lys Ala Ala Ser Met His Lys Ala Met Arg Ala Phe Ser Val
 20 25 30

Ala Thr Leu Trp Leu Ile Ala Leu Val Leu Lys Tyr Thr Ala Arg Ala
 35 40 45

Ala Phe Leu Ala Ala Ile Arg Tyr Arg Trp Lys Asn Cys
 50 55 60

<210> 344
 <211> 72
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 344

Arg Leu Lys Leu Leu Thr Arg Met Tyr Lys Tyr Trp Arg Lys Asp Gln
 1 5 10 15

Ala Arg Leu Lys Val His Leu His Phe Arg Arg Ser Tyr Leu Ala Glu
 20 25 30

Lys Lys Ala Met Thr Lys Gln Lys Lys Val Asn Lys His Ala Asn Asn
 35 40 45

Thr Ala Trp Lys Leu Arg Leu Ala His Leu Lys Arg Ala Thr Asp Leu
 50 55 60

Met His Arg Ala Glu Leu Ser Ser
65 70

<210> 345
<211> 36
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 345

Phe Trp Lys Tyr Met Lys Arg Leu Met Arg Arg Tyr His Arg Lys Cys
1 5 10 15

Ala Lys Ala Glu Cys Arg Lys Leu Met Ala Ala Met Ala Met Tyr Arg
20 25 30

His Leu Phe Ala
35

<210> 346
<211> 58
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 346

Tyr Ile Arg Phe Leu Lys Lys Leu Phe Lys Lys Ile Arg Thr Cys Asp
1 5 10 15

Ala Trp Pro Leu His Thr Asn Lys Leu Thr Arg Leu Tyr Val Ala His
20 25 30

Leu Val Thr Val Arg Arg Leu Arg Ala Leu Arg Arg Gly Ile Leu Thr
35 40 45

Val Leu Lys Cys Lys Leu Arg Lys Leu Gly
50 55

<210> 347
<211> 24
<212> PRT
<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 347

Leu Leu Lys Tyr Trp Thr Arg Phe Trp Arg Trp Phe Arg Arg Ile Arg
 1 5 10 15

Leu Val Glu Ala Arg Leu Leu Lys
 20

<210> 348

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 348

Met Trp Arg Met Leu Ser Lys Ile Tyr Lys Lys Leu Thr Arg Ala Ser
 1 5 10 15

Leu Asp Leu Ala Leu Ser Arg Ala Phe Ala His Arg Arg Gln Ile Ala
 20 25 30

Lys

<210> 349

<211> 66

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 349

Lys Trp Arg Ile Met Lys Arg Met Tyr Arg Arg Trp Arg Cys Leu Ile
 1 5 10 15

Lys Asn Ala Ala Lys Arg Lys Lys Thr Lys Ile Pro Lys Arg Ser Ala
 20 25 30

Leu Lys Ala Ala Gly Glu Ala Asn Phe Arg Arg Leu Ala Arg Ala Val
 35 40 45

Lys Ile Asp Ala Asn Asp Thr Ala Leu Leu Ala Asn Lys Pro Thr Ser

50

55

60

Met Asn
65

<210> 350
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 350

Lys Trp Arg Leu Leu Arg Arg Leu Leu Arg Met Trp Lys Thr Tyr Asn
1 5 10 15

Phe Gly Leu Cys Arg
20

<210> 351
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 351

Ile Phe Arg Leu Phe Lys Lys Phe Leu Lys Lys Leu Thr His Leu Arg
1 5 10 15

Met Ala Lys Leu Gly Ile Gln
20

<210> 352
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 352

Leu Leu Arg Leu Leu Gln Arg Leu Phe Arg Arg Leu His Gln Asn Lys
1 5 10 15

Glu Phe Ile Ala Ile Lys Ala Gly Trp Arg Val Ala

20

25

<210> 353
 <211> 70
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 353

Arg Leu Lys Trp Ile Lys Lys Ile Tyr Lys Arg Leu Thr Arg Lys Ile
 1 5 10 15

Phe His Arg Ala Arg Ala Ile Leu Met Ser Cys Thr Lys Asn Arg Trp
 20 25 30

Asp Lys Gln Asp Ala Ala Lys Ala Leu Lys Lys Leu Gln Arg Leu Arg
 35 40 45

Asn Arg Leu Leu Val Leu Gly Glu Leu Leu Lys Ile Thr Ile Ala Ile
 50 55 60

Ile Tyr His Thr Ala Lys
 65 70

<210> 354
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 354

Phe Trp Arg Tyr Phe Lys Lys Phe Leu Arg Phe Leu Arg Arg Leu Pro
 1 5 10 15

Ala His Asn Leu Lys Lys Leu Gln Ala Ala Arg Phe Gly Cys
 20 25 30

<210> 355
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 355

Arg	Phe	Lys	Leu	Tyr	Arg	Arg	Met	Leu	Lys	Arg	Ile	Cys	Ser	Leu	Gly
1				5					10					15	

Pro	Ala	Ile	Ala	Ala	Ala	Arg	Asp	Gly	His	Ala	Ser	Ala	Phe	Ala	Leu
			20					25					30		

Gln Arg

<210> 356

<211> 54

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 356

Lys	Ile	Arg	Trp	Phe	Gln	Arg	Leu	Leu	Lys	Arg	Leu	Arg	Asn	Ala	Ala
1				5					10					15	

Arg	Asn	Leu	Gln	Pro	Leu	Val	Ala	Leu	Asp	His	Lys	Gln	Leu	Gly	Arg
			20					25					30		

Lys	Trp	Leu	Asn	Phe	Pro	Leu	Arg	Leu	Pro	Ile	Ile	Ile	Leu	Ala	Ala
		35					40					45			

Thr	Arg	Glu	Asn	Arg	Leu
		50			

<210> 357

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 357

Lys	Leu	Arg	Phe	Leu	Gln	Arg	Phe	Trp	Arg	Leu	Leu	Lys	Arg	Asn	Lys
1				5					10					15	

Thr	Leu	Ala	Lys	Val	Val	Arg	Leu	Gly	Leu	Cys	Arg	Pro	Asp	Arg	Asn
			20					25					30		

Thr

<210> 358
 <211> 52
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 358

Arg Phe Lys Trp Met Arg Arg Ile Met Arg Lys Tyr Gln Lys Ile Phe
 1 5 10 15

Arg Thr Ala Trp Val Ser Cys Asn Ala Ala Met Pro Ala Ala Lys Gly
 20 25 30

Lys Arg Gly Asn Leu Ala Gly Arg Lys Leu Ala Ala Ala Arg Cys Ala
 35 40 45

Lys Arg Leu Tyr
 50

<210> 359
 <211> 26
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 359

Trp Met Lys Met Leu Arg Arg Tyr Trp Lys Arg Leu Lys Arg Ala Val
 1 5 10 15

Ala Ala Ala Ala His Ala Gly Cys Lys Asp
 20 25

<210> 360
 <211> 90
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 360

Lys Phe Lys Ile Leu Lys Arg Phe Leu Arg Leu Tyr Thr Arg Val Ser
 1 5 10 15

Ala Gln Tyr Phe Tyr Leu Phe Asn Ala Lys Lys Met Asp Arg Phe Ala
 20 25 30

Ala Val Val Ala Ile Ala Ala Lys Ala Arg Pro Asn Leu Pro Arg Ala
 35 40 45

Ala Leu His Asn Ala Arg Lys Met Lys Gly Lys Ala Lys Ala Ala Arg
 50 55 60

Ser Ile Lys Trp Met Gly Lys Ala Lys Thr Ala Lys Ser Val Lys Ala
 65 70 75 80

Pro Ser Arg Arg Ala Ser Ser Thr Val Arg
 85 90

<210> 361
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 361

Ile Ile Lys Phe Leu Cys Arg Leu Met Lys Trp Phe Cys Arg Ala Leu
 1 5 10 15

His Lys Lys Ala
 20

<210> 362
 <211> 69
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 362

Arg Leu Arg Tyr Met Asn Arg Phe Tyr Lys Arg Leu Arg Lys Arg Arg
 1 5 10 15

Ile Leu Ala Thr Leu Cys Trp Phe Lys Phe Lys His Ala Glu Asn Leu

20

25

30

Lys Arg Lys Gln Thr Ser Tyr Cys Ala Leu Glu Glu Glu Lys Arg Leu
 35 40 45

Gln His Thr Leu Ala Leu Leu Gln Ala Ala Val Arg Val Leu Arg Val
 50 55 60

Arg Arg Lys Ala Arg
 65

<210> 363
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 363

Leu Leu Lys Leu Met Lys Arg Tyr Tyr Arg Trp Leu Arg Gln Ala Phe
 1 5 10 15

Ala Ala Lys Leu Met Pro Ala Arg Tyr Lys Ser Ala
 20 25

<210> 364
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 364

Phe Met Lys Tyr Leu Lys Arg Met Met Lys Leu Phe His Arg Trp Arg
 1 5 10 15

Tyr Arg Lys Phe Glu Leu Trp Leu Leu Arg Pro Lys Met Leu Lys Leu
 20 25 30

Met Arg Met Pro Val Lys Ala Ala
 35 40

<210> 365
 <211> 23
 <212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 365

Leu	Met	Arg	Phe	Tyr	Asn	Lys	Tyr	Tyr	Lys	Lys	Leu	Arg	Lys	Glu	Gly
1				5					10					15	

Leu	Leu	Trp	Leu	Cys	Lys	Ala
			20			

<210> 366

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 366

Lys	Phe	Lys	Tyr	Tyr	Arg	Arg	Leu	Tyr	Arg	Arg	Phe	Ser	Thr	Leu	Ala
1				5				10						15	

Ser	Ala	His	Leu	Ala
			20	

<210> 367

<211> 41

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 367

Phe	Met	Arg	Tyr	Ile	Asn	Lys	Tyr	Leu	Arg	Tyr	Leu	Lys	Lys	Leu	Ala
1				5				10						15	

Arg	Ala	Ser	Ile	Leu	Ala	His	Arg	Pro	Phe	Lys	Ala	Asp	Cys	Lys	Glu
			20					25					30		

Gly	Lys	Tyr	Leu	Ala	Leu	Leu	Arg	Lys
			35				40	

<210> 368

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 368

Leu Leu Lys Trp Tyr Arg Arg Phe Leu Lys Arg Ile Gln Thr Lys Phe
1 5 10 15

Ala Leu Lys Cys Ile Ser Ala Ser Ala Arg
20 25

<210> 369

<211> 49

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 369

Arg Tyr Arg Leu Leu Lys Arg Phe Trp Lys Phe Phe His Arg Arg Lys
1 5 10 15

Leu Arg Gly Pro Leu Ala Glu Arg Lys Ala Leu Ile Ile Gly Leu Ala
20 25 30

Lys Gln Ser Glu Ser Ala Lys Ile Ala Pro Ala Ala Lys Glu Leu Ala
35 40 45

Met

<210> 370

<211> 100

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 370

Leu Phe Arg Ile Tyr Lys Arg Ile Met Arg Leu Met Arg Lys Ala Ala
1 5 10 15

Arg Met Arg Gln Leu Leu Asp Leu Ser Trp Gln Phe Ala Arg Trp Phe
20 25 30

Asp Val Gly Ile Ala Lys Asp Leu Arg Arg Arg Pro Met Ala Ala Leu
 35 40 45

Arg Leu Leu Ala Leu Leu Lys Thr Cys Tyr His Arg Thr Gln Met Gln
 50 55 60

Trp Asn Ala Val Val His Lys Lys Lys Arg Ala Lys Arg Gln Gln Lys
 65 70 75 80

His Arg Thr Lys Ala Thr Met Cys Cys Leu Arg Leu Ala Ala Leu Ala
 85 90 95

Ala Glu Arg Val
 100

<210> 371
 <211> 74
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 371

Lys Ile Arg Trp Ile Arg Arg Leu Leu Lys Lys Leu Lys Lys Leu Gly
 1 5 10 15

Phe Ala Ala Trp Glu Trp Ile Asn Leu Arg Ala Lys Thr Leu Ala Leu
 20 25 30

Ala Arg Tyr Gln Arg Leu Ala Gln Ala Gly Leu Ala Met Lys Gln Asn
 35 40 45

Arg Phe Ala Gln Ser Cys Arg Leu Met Lys Phe Trp Cys Ala Phe Met
 50 55 60

Phe Leu Gln Arg Val Arg Lys Glu Lys Tyr
 65 70

<210> 372
 <211> 41
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 372

Tyr Tyr Lys Phe Leu Arg Lys Met Trp Lys Lys Leu Lys His Tyr Arg
1 5 10 15

Arg Leu Leu Gly Val Arg Glu Thr Pro Leu Lys Val Tyr Arg Ala Leu
20 25 30

Ala Arg Thr Cys Lys Leu Lys Gln Ala
35 40

<210> 373

<211> 48

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 373

Ile Phe Arg Leu Ile Arg Arg Tyr Tyr Arg Arg Trp Ser Lys Arg Lys
1 5 10 15

Pro Leu Lys Ala Gln Leu Arg Lys Leu Ala Lys Leu Cys Met Ala Leu
20 25 30

Leu Trp Trp Ile Arg Leu Ala Gly Leu Val Arg Arg Ile Leu Gly Arg
35 40 45

<210> 374

<211> 39

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 374

Arg Tyr Lys Tyr Leu Asn Lys Ile Leu Arg Arg Leu Arg Asn Lys Ala
1 5 10 15

Ala His Ile Val Trp Lys Cys Met Lys Phe Leu Ala Lys Arg Gly Asp
20 25 30

Leu Leu Gly Arg Leu Gln Ser
35

<210> 375
 <211> 52
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 375

Tyr Trp Lys Leu Trp Asn Arg Phe Leu Arg Lys Phe Asn Lys Arg Ala
 1 5 10 15

Arg Leu Pro Leu Lys Lys Asp Met Lys Ala Lys Arg His Asp Arg Leu
 20 25 30

Leu Asp Glu Leu Thr Ala Arg Ala Gly Ala His Lys His Ser His Tyr
 35 40 45

Leu Ala Leu Val
 50

<210> 376
 <211> 82
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 376

Lys Phe Arg Leu Leu Cys Arg Phe Met Lys Arg Phe Lys Arg Lys Cys
 1 5 10 15

Thr Asn Trp Tyr Lys Glu Ser Ala Ala Leu Met Arg Thr Ala Lys Leu
 20 25 30

Phe Pro Lys Ala Arg Arg Lys Leu Ala Thr Phe Arg Arg Leu Gly His
 35 40 45

Lys Val Ala Ala Asn Gly Gly Leu Lys Pro His Leu Cys Arg Arg Arg
 50 55 60

Ala Ser Asn Arg Leu Val Ala Ala Pro Val Cys Ala Ala His Met Gln
 65 70 75 80

Arg Arg

<210> 377
 <211> 60
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 377

Leu Tyr Lys Leu Phe Asn Lys Leu Leu Arg Met Leu Lys Lys Met Arg
 1 5 10 15

Leu Cys Tyr Lys Cys Asp Val Pro Ala Arg His Leu Arg Gln Arg Gly
 20 25 30

Thr Ser Lys Thr Ala Leu Phe Lys Ser Arg Leu Lys Glu Thr Arg Lys
 35 40 45

Ala Ala Leu Arg Ser Ala Trp Leu Tyr Cys Arg Gln
 50 55 60

<210> 378
 <211> 71
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 378

Arg Leu Lys Leu Leu Gln Arg Trp Ile Arg Arg Met Arg Lys Ala Arg
 1 5 10 15

His Asp Cys Leu Phe Leu Lys Ala Glu Ala Pro Leu Asp Arg Thr Ser
 20 25 30

Thr Arg Ala Ala Ala Cys Trp Glu Leu Ala Lys Trp Lys Asn Asn Tyr
 35 40 45

Cys Ala Ala Tyr Lys Ala Arg Lys Asn Ala Gln Val Gly Lys Ser Ala
 50 55 60

Ala Ala Ile Ala Gln Asn Arg
 65 70

<210> 379
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 379

Arg Leu Lys Tyr Trp Ser Lys Leu Phe Lys Phe Tyr Lys Arg Tyr Ala
 1 5 10 15

Lys Ala Tyr Ala Ile
 20

<210> 380
 <211> 46
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 380

Ile Leu Lys Phe Leu Lys Lys Ile Ile Lys Lys Leu Asn Thr Val Leu
 1 5 10 15

Ala Ala Gly Arg Leu Lys Arg Ala Lys Lys Ala Lys Ala Lys Ile Lys
 20 25 30

Leu Leu Ala Val Lys Cys Phe Asp Arg Asn Lys Ser Asn Ala
 35 40 45

<210> 381
 <211> 41
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 381

Arg Leu Lys Met Phe Thr Lys Leu Tyr Arg Arg Met Lys Asn Leu Asp
 1 5 10 15

Pro Lys Cys Lys Ala Ala Cys Arg Val Ile His Ala Ala Lys Arg His
 20 25 30

Ala Leu Ala Arg Tyr Leu Ala Phe Lys
 35 40

<210> 382
 <211> 41
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 382

Phe Phe Lys Phe Phe Arg Lys Leu Phe Arg Leu Leu Arg Lys Ile Ala
 1 5 10 15

Glu Ala Asn Glu Leu Ala Gly Lys Gly Arg Lys Trp Ala Leu Arg Trp
 20 25 30

Ala Arg Ser Lys Arg Lys Ala Gly Gly
 35 40

<210> 383
 <211> 38
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 383

Lys Trp Arg Tyr Met Arg Lys Ile Leu Arg Phe Leu His Asn Gln Arg
 1 5 10 15

Ala Phe Leu Trp Leu Ile Leu Phe His Ala Leu Gly Arg Lys Trp Lys
 20 25 30

Gly Lys Ala Ala Arg Lys
 35

<210> 384
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 384

Leu Leu Arg Leu Leu Gln Arg Tyr Met Lys Arg Leu Lys Lys Asp Gly
 1 5 10 15

Ala Ile Thr Ile Met Lys
 20

<210> 385
 <211> 61
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 385

Lys Leu Lys Phe Leu Arg Arg Phe Leu Lys Phe Phe Pro Lys Gln Leu
 1 5 10 15

Lys Asp Leu Ala Ser Asn Tyr Arg Leu Leu Arg Lys Thr His Asp Arg
 20 25 30

Glu Leu Leu Lys Ile Pro Phe Cys Gln Ala Leu Lys Ser Ala Asn Tyr
 35 40 45

Lys Lys Arg Lys Lys Glu Lys Val Lys Trp Gln Ala Leu
 50 55 60

<210> 386
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 386

Ile Met Arg Tyr Tyr Lys Arg Leu Phe Lys Ile Leu Arg Lys Arg Arg
 1 5 10 15

Lys Ala Leu Leu Lys Arg His Lys Ala Ala Tyr Leu Ser Ala Ala Ala
 20 25 30

Gln Leu His Cys
 35

<210> 387

<211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 387

Phe Leu Arg Tyr Met Lys Arg Leu Trp Lys Phe Met Arg Gln Ile Asp
 1 5 10 15

Trp Asp Ser Ala Arg Ala Lys His Lys Leu Lys Leu Met Leu Ala Val
 20 25 30

Lys Leu Lys
 35

<210> 388
 <211> 31
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 388

Leu Ile Lys Tyr Tyr Arg Lys Phe Leu Lys Lys Phe Lys Arg Asp Arg
 1 5 10 15

Ile Thr Gln Leu Gly Val Ala Leu Leu Leu Ala Ala Glu Ile Ala
 20 25 30

<210> 389
 <211> 54
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 389

Phe Tyr Arg Phe Met Lys Arg Leu Leu Lys Arg Tyr Arg Lys Asp Ala
 1 5 10 15

Lys Leu Ser Leu Arg Phe Arg Leu Arg Ala Leu Glu Ala Met Tyr Ala
 20 25 30

His Val Ala Arg Arg Pro Ile Ala Thr Thr Ala Thr Lys Ala Cys Ala

35

40

45

Val Thr Lys Phe Leu Ala
50

<210> 390
<211> 37
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 390

Trp Phe Lys Ile Leu Lys Lys Phe Ile Arg Leu Leu His Pro Arg Arg
1 5 10 15

Arg Ile Ala Arg Ala Thr Asn Ala Gln Leu Met Gly Ile Ala Lys Glu
20 25 30

Ala Arg Leu Leu Tyr
35

<210> 391
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 391

Lys Leu Lys Leu Phe Thr Arg Phe Tyr Lys Ile Leu Lys Gln Asp Ser
1 5 10 15

Leu Ala Trp Lys Arg Phe Met Leu Leu Ala Arg
20 25

<210> 392
<211> 55
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 392

Leu Phe Arg Phe Leu Pro Lys Met Leu Arg Leu Tyr Thr Lys Pro Arg

Lys Asn Phe Lys Ala Arg Thr Tyr Ala Leu Lys Ala Ala Cys Asn Arg
 20 25 30

Pro Ala Pro Asn Met
 35

<210> 395
 <211> 55
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 395

Arg Met Lys Leu Phe Lys Lys Leu Leu Lys Arg Phe Lys Pro Leu Phe
 1 5 10 15

Ser Trp Arg Gly Leu Cys Ala Ala Arg Arg Leu Ala Ser Thr Ile Cys
 20 25 30

Ile Leu Lys Arg Leu Cys Asn Arg Gln Gly Gly Ala Ala Trp Lys Ala
 35 40 45

Lys Arg Ala Arg Arg Ser Pro
 50 55

<210> 396
 <211> 39
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 396

Leu Leu Arg Ile Leu Ser Arg Leu Leu Arg Lys Phe Arg Lys Asp Lys
 1 5 10 15

Ile Arg Leu Ser Val Lys Arg Leu Gln Leu Arg Ala Leu Val Lys Asp
 20 25 30

Val Glu Ala Gly Arg Ala Gln
 35

<210> 397

<211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 397

Arg Leu Arg Met Phe Lys Arg Tyr Leu Arg Lys Ile Lys Arg Leu Arg
 1 5 10 15

Ala Leu Lys Asp His Ala Met Leu Tyr Thr Ala Arg Met Pro Ser Ala
 20 25 30

<210> 398
 <211> 55
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 398

Arg Phe Arg Tyr Ile Lys Arg Leu Trp Arg Leu Leu Lys Lys His Ser
 1 5 10 15

Ile Lys Lys Leu Ala Thr Met Leu Cys Ala Glu Lys Pro Asp Lys Leu
 20 25 30

Trp Gly Leu Arg Lys Ser Glu Gly Leu Leu Ala Ala Leu Met Cys Leu
 35 40 45

Thr Asp Glu Leu Leu Ile Ala
 50 55

<210> 399
 <211> 53
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 399

Arg Leu Lys Leu Phe Lys Arg Leu Leu Arg Leu Leu Gln Arg Leu Ser
 1 5 10 15

Trp Ala Gln Arg Arg Ala Ala Leu Lys Pro Gln Cys Arg Ile Ser Thr

20

25

30

Met Thr Ala Gln Asp Lys Arg Leu Pro Pro Ala Phe Lys Ile Cys Asp
 35 40 45

Arg Ala Ala Ala Thr
 50

<210> 400
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 400

Arg Tyr Lys Leu Ile Thr Arg Phe Leu Lys Lys Phe Cys Ser His Lys
 1 5 10 15

Leu Ala Ile Ala Leu Arg Ser Lys
 20

<210> 401
 <211> 42
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 401

Arg Leu Lys Phe Met Lys Lys Leu Leu Lys Phe Tyr Arg Arg Arg Lys
 1 5 10 15

Ala Lys Gln Leu Leu Ala Trp Glu Gln Cys Leu Ile Met Val Arg Asp
 20 25 30

Arg Ile Leu Leu Pro Arg Arg Leu Leu Tyr
 35 40

<210> 402
 <211> 49
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 402

Phe Trp Arg Leu Leu Lys Arg Phe Ile Arg Tyr Leu Thr Ser Met Tyr
1 5 10 15

Glu Ala Ile Ala Arg Arg Lys Ala Lys Arg Ala Glu Arg Leu Met Ile
20 25 30

Ala Arg Leu Lys Glu Leu Leu Ser Ile Trp Arg Lys His Glu Trp Arg
35 40 45

Lys

<210> 403

<211> 65

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 403

Leu Leu Lys Tyr Trp Lys Lys Phe Tyr Arg Ile Ile Thr Arg Ser Cys
1 5 10 15

Arg Ala Gly Lys Trp Arg Lys Pro His Ala Arg Leu Tyr Phe Leu Ala
20 25 30

Ala Leu Lys Ala Gln Trp Ala Trp Arg Lys Met Arg Leu Ile Leu Gly
35 40 45

Leu Lys Glu Leu Ala Gly Arg Met Glu Ala Met Ser Gly Ser Ala Arg
50 55 60

Arg

65

<210> 404

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 404

Phe Leu Arg Leu Ile Lys Arg Leu Leu Arg Met Leu Thr Arg Arg Ala
 1 5 10 15

Ala Arg Ile Arg Thr Tyr Gly His Glu
 20 25

<210> 405

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 405

Leu Ile Lys Leu Phe Lys Arg Ile Leu Lys Met Leu Lys Thr Asn Ala
 1 5 10 15

His Leu Ala Lys Arg Val Leu Ser Lys Phe Ser Cys
 20 25

<210> 406

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 406

Leu Phe Arg Ile Ile Gln Lys Tyr Leu Arg Arg Leu Cys Arg Leu Ala
 1 5 10 15

Gln Arg Arg Ser Ala His Pro Arg
 20

<210> 407

<211> 47

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 407

Arg Ile Lys Leu Met Arg Arg Phe Tyr Lys Arg Leu Ser Lys Glu Ser
 1 5 10 15

Ala Phe Val His Met Leu Val Arg Leu Ala Lys Arg Leu Leu Ala Met
 20 25 30

Leu Thr Asp Trp Leu Val Gly Arg Ala Lys Ala Ala Asp Thr Cys
 35 40 45

<210> 408
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 408

Lys Met Lys Leu Leu Thr Arg Leu Met Lys Phe Phe Arg Asn Ala Trp
 1 5 10 15

Phe Lys His Tyr Lys Ala Leu Leu Ala Phe Ala Arg Tyr
 20 25

<210> 409
 <211> 41
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 409

Arg Phe Lys Leu Tyr Lys Arg Leu Tyr Arg Lys Phe Thr Thr Lys Ile
 1 5 10 15

Lys Arg Thr Ala Met Lys Ala His Leu Val Asp Arg Ser Leu Val Cys
 20 25 30

Phe Leu Leu Arg Asp Arg Ala Ala Ala
 35 40

<210> 410
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 410

Lys Tyr Arg Phe Leu Arg Lys Leu Leu Arg Ile Phe Lys Lys Cys Trp
 1 5 10 15

Asp Lys Ser Gly Ala Ala Ile Val Lys Ala His Arg Ala Ala Ala Trp
 20 25 30

His

<210> 411
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 411

Lys Phe Lys Trp Tyr Thr Arg Leu Leu Arg Lys Leu Lys Pro Trp His
 1 5 10 15

Ala Asp Ala Arg Lys Ala Met Trp
 20

<210> 412
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 412

Ile Met Lys Phe Trp Lys Arg Phe Leu Lys Arg Met Thr Pro His Ala
 1 5 10 15

Leu Ala Met Ala His Ala Ala Arg Ala
 20 25

<210> 413
 <211> 75
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 413

Lys Met Arg Leu Trp Lys Lys Phe Tyr Lys Ile Leu Gln Cys Asp Tyr
 1 5 10 15

Leu Ser Asn Arg Leu Lys Arg Glu Tyr Cys Ala Leu Leu Leu Gln Lys
 20 25 30

Lys Met Ala Gly Ala Leu Ala Pro Arg Arg Trp Leu Pro Leu Lys Leu
 35 40 45

Val Ser Lys Val Ser Ala Gln Lys Asp Leu Gln Arg Arg Ala Asp Asp
 50 55 60

Lys Gly Arg Ser Leu Ala Leu Arg Ser Leu Asp
 65 70 75

<210> 414
 <211> 27
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 414

Leu Leu Arg Ile Phe Asn Lys Met Leu Arg Arg Met Lys His Arg His
 1 5 10 15

Leu Tyr Cys Arg Trp Ala Tyr Arg Leu Ala Tyr
 20 25

<210> 415
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 415

Leu Leu Arg Leu Phe Lys Arg Leu Trp Arg Arg Met Arg Pro Leu Ala
 1 5 10 15

Asp Arg Ile Ile Ala
 20

<210> 416

<211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 416

Arg	Leu	Lys	Leu	Trp	Pro	Lys	Tyr	Leu	Lys	Arg	Trp	His	Lys	Met	Phe
1				5					10					15	

Thr	Lys	Ala	Ala
		20	

<210> 417
 <211> 27
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 417

Leu	Met	Lys	Met	Leu	Ser	Lys	Phe	Leu	Arg	Lys	Trp	Lys	Pro	Leu	Leu
1				5					10					15	

Thr	Ala	Phe	Tyr	Lys	Gly	Glu	Trp	Leu	Lys	Leu
		20						25		

<210> 418
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 418

Leu	Phe	Lys	Leu	Ile	Arg	Arg	Tyr	Phe	Lys	Lys	Trp	Arg	Thr	Val	Cys
1				5					10					15	

Phe	Lys	Ala	His	Arg	Ala	Glu	Leu	Ala	Leu	Lys	Arg	Ser	Trp
		20						25					30

<210> 419
 <211> 46
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 419

Met	Leu	Arg	Ile	Tyr	Cys	Arg	Phe	Phe	Lys	Leu	Phe	Arg	Pro	Thr	Cys
1				5					10					15	

Leu	Arg	Arg	Lys	Leu	Gln	Lys	Lys	Leu	Gln	Cys	Lys	Ser	Ser	Gly	Arg
			20					25					30		

Lys	Ala	Arg	Ala	Leu	Ala	Arg	Cys	Ala	Ala	Cys	Leu	Asn	Gly
		35					40					45	

<210> 420

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 420

Arg	Ile	Arg	Leu	Tyr	Cys	Arg	Leu	Leu	Arg	Arg	Leu	Ser	Lys	Leu	Lys
1				5					10					15	

Cys	Arg	Leu	Leu	Tyr	Lys
			20		

<210> 421

<211> 82

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 421

Lys	Leu	Arg	Tyr	Leu	Cys	Arg	Phe	Met	Arg	Lys	Tyr	Arg	Arg	Ala	Lys
1				5					10					15	

His	Leu	Thr	Glu	Ala	Arg	Ala	Trp	Thr	Lys	Met	Leu	Ala	Arg	Leu	Leu
			20					25					30		

Arg	Arg	Lys	Leu	Thr	Ser	His	His	Gly	Leu	Asn	Leu	Ser	Ser	Arg	Thr
		35					40					45			

Leu	Lys	Ala	Lys	Ala	Arg	Thr	Glu	Thr	Lys	Lys	Ala	Lys	Cys	Leu	Arg
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

50

55

60

Leu Asn Asn Tyr Gly Arg Glu Leu Gly Ser Asp Val Lys Arg Tyr Phe
 65 70 75 80

Cys Arg

<210> 422

<211> 48

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 422

Lys Phe Lys Leu Met Arg Lys Leu Phe Lys Lys Phe Lys Gln Ala Val
 1 5 10 15

Leu Thr Gly Thr Leu Lys Gly Lys Lys Leu Ala Leu Asn Trp Leu Gln
 20 25 30

Cys Glu Tyr Arg Leu Cys Lys Thr Arg Phe Leu Leu Lys Arg Val Thr
 35 40 45

<210> 423

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 423

Leu Met Arg Leu Tyr Lys Lys Leu Phe Arg Arg Met Lys Lys Ala Lys
 1 5 10 15

Leu Lys Phe Cys Phe Val Lys Asp Pro Asn Gly Ala Leu Cys
 20 25 30

<210> 424

<211> 41

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 424

Lys Met Lys Leu Phe Pro Arg Leu Phe Lys Phe Phe Cys Arg Leu Ala
1 5 10 15

Lys Ser Cys Cys His Arg Ala Arg Arg Phe Glu Ala Lys Leu Ala Ala
20 25 30

Arg Glu Gln Asn Lys Arg Pro Tyr Leu
35 40

<210> 425

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 425

Trp Phe Arg Phe Leu Lys Lys Tyr Leu Arg Lys Leu Arg His Phe Phe
1 5 10 15

Cys Phe Lys Lys Met Ala Met Ser Val Ala Leu Thr Arg Leu Arg Ala
20 25 30

Lys Leu

<210> 426

<211> 58

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 426

Ile Leu Lys Leu Phe Pro Arg Leu Leu Arg Leu Leu His Gln Lys Lys
1 5 10 15

Trp Tyr Lys Glu Ala Leu Lys Leu Lys Trp Lys Ala Lys Val Met Lys
20 25 30

Arg Trp Arg Tyr Phe Ala His Asp Ala Lys Met Ala Ala Arg Asn Asn
35 40 45

Asn Pro Lys Met Ser Lys Met Leu Tyr Lys
 50 55

<210> 427
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 427

Lys Ile Lys Tyr Leu Lys Lys Leu Met Arg Lys Leu Lys Asn Trp Ala
 1 5 10 15

Val Ala Gln Gln Phe
 20

<210> 428
 <211> 31
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 428

Lys Met Arg Leu Phe Lys Lys Leu Met Arg Arg Leu Asn Gln Arg Arg
 1 5 10 15

Gly Arg Cys Arg Tyr Leu Thr Arg Ala Ala Ala Lys Ala Leu Ser
 20 25 30

<210> 429
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 429

Met Leu Lys Phe Trp Arg Lys Tyr Leu Arg Arg Leu Arg Arg Thr Asp
 1 5 10 15

Trp Glu Arg Leu Leu Trp Ala Ser Val
 20 25

<210> 430
 <211> 27
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 430

Met Leu Arg Leu Leu Lys Lys Leu Leu Lys Lys Leu Pro Lys Asn Ala
 1 5 10 15

Glu Thr Lys Gly Met Lys Gly Thr Asp Gln Pro
 20 25

<210> 431
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 431

Lys Tyr Arg Met Leu Arg Lys Leu Ile Arg Lys Ile Cys Pro Leu Lys
 1 5 10 15

Thr Ala Leu Leu Lys Ala Arg His
 20

<210> 432
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 432

Leu Tyr Arg Trp Tyr Lys Arg Trp Trp Lys Phe Leu Ser Cys Tyr Ser
 1 5 10 15

His Trp Lys Leu Lys Gly Leu Leu Ala Lys Asp Ala Lys Lys Leu Ala
 20 25 30

Arg

<210> 433
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 433

Arg Leu Lys Leu Leu Lys Lys Leu Ile Arg Lys Trp Lys His Leu Trp
 1 5 10 15

Lys His Arg Glu Ser Asp Met Ala Phe Asp Ala Tyr Leu His Ser Ser
 20 25 30

Ala Trp Lys Leu Thr Leu Gly Arg
 35 40

<210> 434
 <211> 27
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 434

Lys Phe Lys Ile Trp Lys Arg Ile Phe Lys Arg Ile Asn His Leu Thr
 1 5 10 15

Leu Ala Ala Ser Leu Pro Ala Ala Val Arg Lys
 20 25

<210> 435
 <211> 67
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 435

Lys Phe Arg Leu Leu Pro Lys Leu Leu Lys Lys Ile Ser Lys Lys Tyr
 1 5 10 15

Tyr Ala Ile Arg Val Ala Cys Ala Ala Glu Leu Trp Leu Leu Ala Gln
 20 25 30

Arg Pro Leu Pro Asp Lys Gln Ser Lys Arg Asn Arg Arg Thr Ala Lys
 35 40 45

Ala Cys Phe Ser Tyr Lys Asp Ala Tyr Asp Ala Ala Lys Asp Arg Trp
 50 55 60

Phe Gly Arg
 65

<210> 436
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 436

Lys Met Lys Leu Leu Asn Arg Leu Leu Lys Lys Trp Arg Lys Ala Val
 1 5 10 15

Val Val Ala Met Asp Ala Ser Trp Trp Val Lys Arg Leu Asn Tyr Glu
 20 25 30

Lys Lys

<210> 437
 <211> 52
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 437

Ile Trp Arg Met Ile Lys Arg Met Leu Arg Leu Tyr Lys Arg His Ala
 1 5 10 15

Ala Asn Pro Arg Lys Leu Trp Lys Leu Ile Thr Leu Ala Val Gln Ala
 20 25 30

Ala His Gln Leu Val Leu Ala Leu Phe Arg Phe Gln Arg Arg His Arg
 35 40 45

Trp Ala Leu Lys

50

<210> 438
 <211> 39
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 438

Tyr Phe Arg Phe Phe Arg Lys Met Leu Lys Arg Trp Lys Pro Arg Ala
 1 5 10 15

Leu Asn Ala Leu Thr Ala Ala Arg Arg Arg Lys Leu Cys Tyr Arg Pro
 20 25 30

Glu Ala Gln Ala Ile Leu Lys
 35

<210> 439
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 439

Lys Leu Lys Phe Ile Arg Lys Trp Leu Arg Lys Phe Gln Lys Leu Ile
 1 5 10 15

Asp Pro Leu Ala
 20

<210> 440
 <211> 45
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 440

Leu Phe Lys Trp Met Lys Lys Leu Leu Arg Ile Trp Asn Lys Asn Arg
 1 5 10 15

Arg Leu Ala Arg Leu Ala Met Gln Asn Pro Pro Ala Arg Leu Thr Lys

20

25

30

Arg Ala Cys Lys Ile Lys Gln Leu Asn Arg Ala Gln Tyr
 35 40 45

<210> 441
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 441

Arg Ile Lys Phe Leu Arg Arg Leu Met Arg Lys Leu Arg Cys Asn Leu
 1 5 10 15

Asp Thr Leu Leu Ala Ala Glu
 20

<210> 442
 <211> 41
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 442

Arg Leu Arg Leu Trp His Lys Tyr Trp Arg Lys Leu Arg Ser Leu Ala
 1 5 10 15

Lys Glu Cys Gln Phe Cys Phe Lys Leu Ala Ala Ala Ala Lys Asp Pro
 20 25 30

Thr Arg Pro Glu Arg Arg Ile Arg Lys
 35 40

<210> 443
 <211> 46
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 443

Arg Phe Lys Leu Leu Cys Lys Leu Phe Arg Lys Met Arg Lys Arg Ala

<210>	444
<211>	46
<212>	PRT
<213>	Artificial Sequence

$\langle 400 \rangle$ 444

Leu Thr Thr Lys Ala Arg Leu Met Pro Cys Ile Asp Thr Pro Leu Lys
20 25 30

<210>	445
<211>	41
<212>	PRT
<213>	Artificial Sequence

<400> 445

Gly Gly Leu Ala Arg Leu Arg Gln Lys Ala Leu Ile Leu His Leu Arg
20 25 30

$\langle 210 \rangle$	446
$\langle 211 \rangle$	36
$\langle 212 \rangle$	PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 446

Phe	Met	Arg	Leu	Leu	Lys	Lys	Leu	Leu	Arg	Phe	Phe	His	Arg	Trp	Lys
1				5					10					15	

Lys	Leu	Leu	Leu	Met	Leu	Lys	Leu	Cys	Lys	Glu	Ala	Arg	Ala	Phe	Ala
			20					25						30	

Met	Asp	Pro	Ser
			35

<210> 447

<211> 50

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 447

Leu	Phe	Lys	Trp	Phe	Lys	Arg	Leu	Leu	Lys	Arg	Tyr	Arg	Arg	Arg	Asp
1				5					10					15	

Arg	Lys	Tyr	His	Ser	Thr	Lys	Leu	Arg	Leu	Ala	Ser	Trp	Asp	Phe	Ala
			20					25					30		

Leu	Ser	Cys	Leu	Arg	Arg	Lys	Gly	His	Ala	Glu	His	Thr	Ser	Ala	Val
		35					40					45			

Lys	Ala
	50

<210> 448

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 448

Arg	Leu	Lys	Phe	Leu	Arg	Lys	Phe	Tyr	Lys	Arg	Leu	His	Arg	Leu	Tyr
1				5					10					15	

Phe Ala Ala Trp Leu Arg
20

<210> 449
<211> 67
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 449

Lys Leu Arg Met Leu His Lys Phe Phe Arg Tyr Ile Arg Gln Lys Pro
1 5 10 15

Ala Tyr Tyr Lys Leu Ala Glu Arg Phe His Pro Ser Leu Val His Ala
20 25 30

Glu Pro Ala Arg Tyr Lys Ala Ala Lys Lys Ala Asp Leu Asn Ala Asp
35 40 45

Lys Gln Arg Val Lys Leu Ala Glu Gln Lys Asp Lys Ala Cys Val Ala
50 55 60

Arg Leu Ala
65

<210> 450
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 450

Lys Met Lys Phe Ile Lys Lys Met Leu Lys Leu Leu Arg Arg Ala Lys
1 5 10 15

Leu Trp Arg Pro Pro Leu Val Asp Thr Pro Gln Gly Arg Leu Leu Glu
20 25 30

<210> 451
<211> 49
<212> PRT
<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 451

Leu	Trp	Arg	Phe	Leu	Asn	Lys	Met	Leu	Lys	Met	Leu	Ser	Arg	Leu	Arg
1				5					10					15	

Ala	Arg	Arg	Arg	Gln	Arg	Cys	Asp	Leu	Gln	Met	Leu	Trp	His	Leu	Leu
			20					25					30		

Gln	Leu	Lys	Ala	Gln	Thr	Lys	Ala	Lys	Thr	Phe	Trp	His	Thr	Gly	Ala
		35					40					45			

Ala

<210> 452

<211> 85

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 452

Arg	Phe	Lys	Leu	Met	Pro	Arg	Leu	Met	Lys	Arg	Ile	Gln	Lys	Arg	Lys
1				5					10					15	

Ala	Cys	Ile	Tyr	Ala	Lys	Met	Trp	Phe	Leu	Ala	His	Val	Thr	Met	Asp
			20					25					30		

Ala	Ala	Arg	Arg	Leu	Ala	Met	Arg	Val	Lys	Tyr	Phe	Pro	Leu	His	Asp
		35					40					45			

His	Lys	Leu	Ser	Ser	Lys	Cys	Ala	Arg	Pro	Ile	Lys	Cys	His	Arg	Ile
	50					55					60				

Leu	Glu	Ala	Lys	Gln	Leu	Lys	Ala	Leu	Tyr	Arg	Arg	Leu	Lys	Arg	Leu
65					70					75					80

Thr	Ala	Asn	Lys	Arg
				85

<210> 453

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 453

Leu Leu Lys Leu Leu Asn Lys Met Leu Lys Ile Tyr Thr Thr Arg Met
1 5 10 15

Gln Ala Val Ala Ala Ile Arg Arg
20

<210> 454

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 454

Arg Leu Arg Phe Phe Lys Lys Phe Leu Arg Lys Met Lys Arg Lys Ala
1 5 10 15

Asp Ala Leu Ala Gln Ile Leu Tyr Ala Ser His Asp
20 25

<210> 455

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 455

Arg Phe Lys Phe Leu Lys Arg Trp Leu Lys Arg Leu Gln Lys Leu Ala
1 5 10 15

Gln Leu Leu Val Gln Lys Asp Ala Gly Gln Gln Ser Pro Arg Trp Leu
20 25 30

Lys His Gly Leu Ser Ala Arg Pro
35 40

<210> 456

<211> 57

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 456

Leu Leu Arg Trp Leu Asn Arg Leu Phe Lys Arg Leu Lys Cys Cys Lys
1 5 10 15

Arg Ser Tyr Tyr Phe Arg Glu Leu Lys Arg Leu Asp Arg Ala Arg Ile
20 25 30

Leu Pro Arg Thr Arg Arg Val Ile Leu Arg Ala Leu His Met Pro Phe
35 40 45

Cys Ala Trp Lys Asp Ile Gly Ala Arg
50 55

<210> 457

<211> 39

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 457

Leu Trp Arg Phe Leu Arg Arg Leu Met Arg Phe Leu Lys Arg Thr Gly
1 5 10 15

Leu Phe Gln Arg Asn Asn Leu Leu Phe Ala Lys His Lys Pro Arg Ala
20 25 30

Arg Asn Phe Arg Leu Leu Ile
35

<210> 458

<211> 56

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 458

Phe Phe Arg Met Ile Lys Arg Phe Leu Lys Met Leu Lys Gln Leu Ala
1 5 10 15

Glu Trp Lys Arg Asn Gly Ala Phe Lys Ala Ala Ala Lys Ala Leu Arg
 20 25 30

Glu Lys Thr Lys Ala Pro Tyr Arg Ala Arg Thr Ala Arg Leu Lys His
 35 40 45

Cys Arg Ile Arg Arg Val Arg Leu
 50 55

<210> 459
 <211> 38
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 459

Leu Ile Arg Leu Tyr Arg Arg Phe Phe Lys Ile Phe Arg Lys Arg Ala
 1 5 10 15

Lys Leu Val Gly Cys Tyr Ala Ala Ser Leu His Phe Thr Glu Pro Arg
 20 25 30

Leu Arg Arg Lys Leu Phe
 35

<210> 460
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 460

Met Leu Lys Leu Leu Arg Lys Trp Met Arg Arg Met Gln Asn Leu Ala
 1 5 10 15

Tyr Lys Cys Leu Thr
 20

<210> 461
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 461

Arg	Leu	Arg	Met	Leu	Arg	Arg	Leu	Phe	Arg	Arg	Leu	Ser	Arg	Val	Cys
1				5				10						15	

Arg	Leu	Glu	Arg	Ala	Thr	Ala	Gln	His	Pro	Tyr	Leu	Gln	Arg
			20				25					30	

<210> 462

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 462

Phe	Trp	Arg	Leu	Phe	Asn	Arg	Leu	Phe	Lys	Lys	Phe	Lys	Thr	Ala	Asn
1				5				10						15	

Arg	Cys	Lys	Ala	Ala
			20	

<210> 463

<211> 42

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 463

Phe	Leu	Lys	Leu	Tyr	Pro	Lys	Ile	Leu	Arg	Leu	Leu	Arg	Thr	Ala	Glu
1				5				10						15	

Asn	Pro	Ala	Leu	Leu	Asp	Ala	Leu	Leu	Asp	Ile	Arg	Lys	Asn	Lys	Ile
			20				25						30		

Gln	Asn	Lys	Arg	Arg	Thr	Lys	Arg	Cys	Lys
		35				40			

<210> 464

<211> 69

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 464

Phe Met Arg Leu Leu Thr Arg Trp Tyr Lys Trp Leu Arg Asn Tyr Ser
 1 5 10 15

Leu Lys Ala Glu Gly Arg Leu Arg Arg Gln Pro Ala Lys Met Leu Asp
 20 25 30

Lys Cys Trp Lys Leu Asn Thr Arg Arg His Ile His Lys Ser Arg Ala
 35 40 45

Trp Lys Arg Leu Val Arg Ala Tyr Leu Lys Leu His Pro His Lys Ala
 50 55 60

Thr Ala Ala Lys Tyr
 65

<210> 465

<211> 37

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 465

Arg Leu Arg Leu Leu Cys Lys Trp Phe Arg Lys Leu Lys Pro Leu Gln
 1 5 10 15

Leu Val Leu Trp Thr Arg Ala Leu Trp Arg Ile Lys Arg Ala Tyr Asn
 20 25 30

Ala Ile Cys Tyr Phe
 35

<210> 466

<211> 70

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 466

Arg Leu Lys Tyr Leu Lys Arg Phe Tyr Arg Lys Phe Gln Cys Lys Lys

Arg	Leu	Lys	Leu	Leu	Cys	Lys	Trp	Leu	Arg	Met	Met	Lys	Thr	Ala	Arg
1				5					10					15	
Ala	Ser	Met	Ala	Ala	Cys	Leu	Ser	Met	Ser	Trp	Asp	Val	Lys	Ala	Asn
			20					25					30		
Val	Gly	Leu	Arg	Gln	Arg	Thr	Gly	Leu	Lys	Ala	Arg	Lys	Cys	Glu	Leu
		35					40					45			
Lys	Lys	Leu	Ala	Cys	Ala	Leu	Ala								
	50					55									

Lys Phe Lys Met Leu Asn Arg Tyr Ile Lys Arg Leu Pro Arg Ala Pro
1 5 10 15

Arg Leu Ala Lys Lys Leu Ala Glu Phe Val Met Asp Arg Thr Leu Glu
 20 25 30

Thr Asp Asn Ala Lys Lys Tyr Gly Met Thr Leu Leu Leu Ser Asp Cys
 35 40 45

Asn Ala Ala Leu Asp Gly Leu Ala Leu Leu Arg Lys
 50 55 60

<210> 469
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 469

Arg Leu Arg Leu Ile Arg Arg Phe Phe Arg Trp Phe Arg Lys Arg Thr
 1 5 10 15

Leu Pro Leu Arg Asp His Phe Lys Leu Met Tyr Ala Arg Ala Trp Ala
 20 25 30

Ala Tyr Ala
 35

<210> 470
 <211> 71
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 470

Arg Leu Arg Met Tyr Lys Arg Met Trp Arg Lys Leu Arg Lys Cys Asp
 1 5 10 15

Ser Ala Tyr Phe Leu Lys Tyr Trp Asn Lys Lys Pro Leu Lys Val Lys
 20 25 30

Arg Ala Trp Leu Ala Thr Trp Ala Ala Asn Leu Ala Ile Gln Pro Val
 35 40 45

Cys Ala Lys Cys Arg Arg Asp Gly Asn Met Lys Arg Arg Trp Leu Met

50

55

60

Ala Lys Leu Ile Arg Arg Leu
65 70

<210> 471
<211> 44
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 471

Arg Leu Lys Phe Ile Lys Arg Phe Trp Lys Arg Tyr His Arg Met Pro
1 5 10 15

Arg Ile Ala Ala Leu Arg Asp Phe Lys Ala Asn Ala Phe Ala Ala His
20 25 30

Lys Lys Arg Leu Lys Met Gly Asp Phe Cys Ala Ala
35 40

<210> 472
<211> 37
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 472

Arg Met Lys Leu Met Cys Arg Tyr Leu Arg Arg Leu Cys Cys Thr Ile
1 5 10 15

Lys Lys Thr Leu Leu Leu Asp Leu Cys Arg Glu Ala Asn Leu Leu Ala
20 25 30

Thr Leu Ala Lys Lys
35

<210> 473
<211> 34
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 473

Arg Phe Arg Tyr Trp Gln Lys Leu Phe Arg Arg Leu Arg Arg Glu Ala
1 5 10 15

Ala Val Asn Met Ala Thr Leu Leu Ser Ala Gly Met Glu Lys Leu Glu
20 25 30

Ala Ala

<210> 474

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 474

Tyr Leu Arg Leu Met Arg Lys Leu Met Arg Phe Leu Arg Ser Glu Lys
1 5 10 15

Ala Cys Thr Trp Lys Ala His Lys Lys Ala Leu Ala
20 25

<210> 475

<211> 56

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 475

Phe Phe Arg Leu Leu Lys Lys Met Leu Arg Ile Leu Ser Lys Ala Leu
1 5 10 15

Leu Pro Lys Glu Ser Lys Lys Ile Lys Asp Asn Glu Thr Leu Arg Ser
20 25 30

Arg Cys Gln Leu Ala Val Leu Arg Arg Ala Leu Asp Ser Lys Phe Trp
35 40 45

Arg Ala Tyr Leu Leu Asn Thr Arg
50 55

<210> 476
 <211> 26
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 476

Arg Phe Arg Phe Ile Arg Lys Leu Leu Arg Arg Leu Lys Gln Trp Asp
 1 5 10 15

Leu Asn Leu Gln Pro Leu Phe Leu Asn Ala
 20 25

<210> 477
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 477

Lys Phe Arg Leu Ile Lys Lys Leu Leu Arg Leu Leu Arg Arg Asp Lys
 1 5 10 15

Ala Leu Asn Val Gln Ile Leu Met Cys Arg Ser Glu Phe Arg Asp Ala
 20 25 30

Arg

<210> 478
 <211> 42
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 478

Lys Tyr Lys Tyr Tyr Arg Arg Phe Ile Arg Lys Leu His His Val Lys
 1 5 10 15

Lys Leu Arg Asp Glu His Asp Ala Ala Val Arg Ala Leu Pro Lys Leu
 20 25 30

Leu Ala Gln Arg Leu Trp Ala Arg Ala Trp
 35 40

<210> 479
 <211> 45
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 479

Arg Ile Arg Phe Leu Lys Arg Ile Leu Arg Arg Trp Arg His Leu Cys
 1 5 10 15

Ile Leu His Ala Leu Ala Ala His Lys Pro Pro Thr Leu Ala Tyr Lys
 20 25 30

Trp Lys Val Trp Pro Lys Ala Tyr Asp Leu Leu Lys Lys
 35 40 45

<210> 480
 <211> 62
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 480

Lys Tyr Lys Leu Phe Pro Arg Phe Leu Lys Phe Leu Gln Asn Arg Ser
 1 5 10 15

His Leu Trp Asn Glu Arg Asp Ala Leu Ala Ala Lys Pro Val Lys Trp
 20 25 30

Arg Lys Lys Glu Ala Leu Val Trp Glu Gln Gly Ala Asn Leu Arg Leu
 35 40 45

Asp Arg Lys Lys Ala Trp Ala Ala Arg Gln Cys Lys Lys Lys
 50 55 60

<210> 481
 <211> 67
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 481

Phe	Met	Lys	Ile	Ile	Cys	Lys	Phe	Met	Lys	Trp	Phe	Lys	Asn	Lys	Leu
1				5					10					15	

Val	Leu	Met	Leu	Leu	Leu	Ile	Arg	Glu	Ser	Ile	Pro	Ala	Gly	Tyr	Leu
			20					25					30		

Asp	Phe	Lys	Phe	Ala	Tyr	Leu	Met	Lys	Leu	Ala	Arg	Lys	His	Pro	Lys
		35					40					45			

Arg	Arg	Arg	Leu	Phe	Arg	Arg	Lys	Leu	Lys	Ala	Phe	Ala	Ala	Met	Lys
	50					55					60				

Ala	Ala	Asp
65		

<210> 482

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 482

Arg	Leu	Arg	Leu	Phe	Lys	Lys	Tyr	Ile	Lys	Lys	Trp	Arg	Lys	Ala	Phe
1				5					10					15	

Cys	Val	Ala	Phe	Arg	Gly	Ala	Leu	Leu	Leu	Arg	Lys	Ser	Leu
		20					25					30	

<210> 483

<211> 55

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 483

Leu	Tyr	Arg	Leu	Leu	Cys	Arg	Trp	Met	Arg	Arg	Leu	Lys	Pro	Lys	Asp
1				5				10						15	

His	Ala	Asp	Glu	Ala	Leu	Leu	Ile	Lys	Gln	Lys	Asp	Lys	Asn	Lys	Lys
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

20

25

30

Cys Phe Ala Leu Val Leu Lys Leu Leu Leu Ser His Leu Lys Gly Lys
 35 40 45

His Pro Asp Val Ala Gly Arg
 50 55

<210> 484

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 484

Lys Trp Lys Leu Tyr His Lys Ile Leu Arg Arg Trp Lys Thr Ala Ala
 1 5 10 15

Ala Glu Glu Leu
 20

<210> 485

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 485

Arg Ile Arg Leu Leu Gln Arg Ile Phe Lys Leu Phe Cys Arg Gly Arg
 1 5 10 15

Arg Ala Thr Leu Val
 20

<210> 486

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 486

Arg Trp Arg Met Trp His Arg Leu Trp Arg Tyr Leu Lys Cys Leu Val

1 5 10 15

Lys Arg Gln Arg Lys Asn Trp Leu Ala Leu Ala Lys Ala Lys Arg Trp
 20 25 30

Gln Glu Asp Ala
35

<210>	487
<211>	38
<212>	PRT
<213>	Artificial Sequence

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<220>  
<223> Computer-generated peptide variant
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<400> 487

Ile Tyr Arg Leu Ile Gln Lys Leu Met Lys Arg Leu Gln His Leu Ser
1 5 10 15

Asn Lys Leu Gln Arg Lys Leu Ala Lys Ala Arg Leu Ala Ala Ala Ile
20 25 30

Cys Ala Arg Lys Ile Tyr
35

<210>	488
<211>	46
<212>	PRT
<213>	Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 488

Tyr Leu Arg Leu Leu Lys Lys Leu Tyr Arg Leu Leu Arg Pro Ala Lys
1 5 10 15

Glu Met Lys Lys Leu Thr Leu Arg Lys Leu Lys Arg Ile Tyr Lys Ile
20 25 30

Lys Pro Asn Arg Ala Leu Thr Met Leu Ser Ser Lys Arg Asp
35 40 45

$\langle 210 \rangle$	489
$\langle 211 \rangle$	69
$\langle 212 \rangle$	PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 489

Leu Ile Lys Phe Phe Lys Lys Met Leu Arg Lys Leu Arg Pro Phe Gln
1 5 10 15

Arg Leu Ala Lys Arg Arg Leu Leu Ala Ala Ser Asn Lys Phe Glu Ala
20 25 30

Glu Leu Ile Trp Ser Lys His Asp Lys Leu Asp Gly Pro Lys Lys Arg
35 40 45

Gly Arg His Met Tyr Lys Leu Leu Met Val Arg Arg Ser Gln Leu Ser
50 55 60

Lys Ile Ala Ser Ala
65

<210> 490

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 490

Arg Leu Lys Leu Leu Lys Arg Leu Met Arg Leu Tyr Lys His Leu Gln
1 5 10 15

Trp Gln Leu Ala Cys Tyr Arg Met Lys Tyr Tyr Lys Pro Thr
20 25 30

<210> 491

<211> 63

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 491

Met Leu Lys Trp Trp Gln Arg Phe Leu Lys Leu Ile His Lys Arg Gln
1 5 10 15

Leu Lys Ala Leu Asp Ala Arg Ile Lys Trp Cys Asn Arg Leu Arg Ala
 20 25 30

Arg Ala Ala Cys Gly Ala Tyr Arg Ala Ala Leu Gln Pro Glu Leu Arg
 35 40 45

Gln Val Met Ala Glu Asp Ala Phe Trp Met Ala Ala Arg Arg Glu
 50 55 60

<210> 492
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 492

Lys Phe Lys Tyr Tyr Arg Lys Leu Phe Arg Arg Leu Ser Arg Ala Lys
 1 5 10 15

Ala Arg Glu Leu Ala Leu Gln
 20

<210> 493
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 493

Leu Leu Arg Ile Trp Lys Lys Phe Met Lys Leu Phe Cys Lys His Gln
 1 5 10 15

Glu Leu Ala Glu Arg Ala Lys Ser Thr Arg Lys Met Arg Tyr Val Leu
 20 25 30

Ala Met Arg Leu
 35

<210> 494
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 494

Ile	Ile	Arg	Leu	Phe	Arg	Lys	Leu	Leu	Arg	Arg	Leu	Cys	Arg	His	Ala
1				5					10					15	

Arg	Pro	Val	Lys	Arg	Thr	Ala	Asn	Val	Glu	Leu	Lys	Leu	Lys	Met	Ser
			20					25					30		

<210> 495

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 495

Phe	Phe	Arg	Leu	Leu	Arg	Arg	Tyr	Phe	Lys	Leu	Phe	Lys	Arg	Arg	Met
1				5					10					15	

Ser	Thr	Leu	Lys	Lys	Val	Ala	Met	Ser	Thr	Ala	Ala	Asn	Leu	Leu	Ala
			20					25					30		

Gln Leu

<210> 496

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 496

Leu	Phe	Lys	Tyr	Tyr	Arg	Arg	Ile	Phe	Lys	Leu	Leu	Lys	Asn	Ala	Asn
1				5					10					15	

Gln	Arg	Gly	Ala	Lys	Leu
			20		

<210> 497

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 497

Leu	Tyr	Arg	Met	Trp	Lys	Arg	Leu	Ile	Arg	Lys	Leu	His	Arg	Gln	Asp
1				5					10					15	

Lys	Lys	Trp	Ala	Leu	Gly	Ala	Arg	Val	Asp	Ala	Lys	Lys	Met	Cys	Gly
			20					25					30		

Glu	Ala	Leu	Lys
			35

<210> 498

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 498

Arg	Phe	Lys	Tyr	Tyr	Ser	Arg	Leu	Tyr	Arg	Phe	Leu	Arg	Arg	Leu	Leu
1				5					10					15	

Asn	Leu	Ile	Gln
			20

<210> 499

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 499

Arg	Met	Arg	Leu	Tyr	Lys	Arg	Leu	Trp	Arg	Phe	Leu	Lys	Pro	His	Leu
1				5					10					15	

Pro	Ala	Met	Leu	Glu	Arg	Leu	Val
				20			

<210> 500

<211> 55

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 500

Leu	Tyr	Arg	Phe	Phe	Lys	Arg	Leu	Ile	Arg	Arg	Leu	Pro	Thr	Trp	Met
1				5					10					15	

Leu	Cys	Met	Val	Ala	Ala	Tyr	Leu	Leu	Leu	Arg	Arg	Arg	Arg	Ser	Cys
			20					25					30		

Lys	Phe	Ile	Lys	Ala	Arg	Leu	Pro	Asp	Leu	Ser	Ala	Met	Ser	Pro	Arg
		35					40					45			

Leu	Lys	Arg	Leu	Asp	Ala	Arg
	50					55

<210> 501

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 501

Lys	Ile	Arg	Phe	Leu	Lys	Arg	Leu	Ile	Lys	Lys	Phe	Asn	Thr	Val	Ser
1				5					10					15	

Ala	Gly	Leu	Leu	Leu	Lys	Arg	Tyr	Lys	Leu	Leu	Leu	Gly	Met	Pro	Lys
			20					25					30		

Ala	Gln	Arg	Leu	Leu	Ala	Ala	Met
		35					40

<210> 502

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 502

Arg	Ile	Arg	Phe	Leu	Thr	Arg	Trp	Phe	Lys	Leu	Ile	Lys	Arg	Lys	Leu
1				5					10					15	

Leu	Ala	Leu	Leu	Leu	Gln	Ala	Gln	Trp	Tyr	His
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

20

25

<210> 503
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 503

Lys Leu Arg Leu Tyr Lys Lys Tyr Leu Arg Phe Met Arg Lys Phe Ala
 1 5 10 15

Arg Asp Leu Leu Ala Lys Glu Phe Lys Leu Ser Arg Asn Asn Ala Leu
 20 25 30

Cys Met Phe
 35

<210> 504
 <211> 58
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 504

Lys Phe Lys Phe Leu Ser Arg Phe Leu Lys Arg Leu Arg Arg Asn Met
 1 5 10 15

Ala Ile Ala Ala Phe Leu Met Met Lys Ser Ala Gly Met Arg Tyr Lys
 20 25 30

Ala Glu Cys Lys Trp Lys Cys Leu Asp Glu Arg Met Leu Arg Met Ala
 35 40 45

Leu Ser Ala Ala Pro Tyr Arg Lys Leu Arg
 50 55

<210> 505
 <211> 44
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 505

Leu Leu Arg Phe Leu Asn Arg Leu Phe Lys Arg Ile Arg Lys Glu Ala
1 5 10 15

Ala Gln Leu Tyr Lys Arg Leu Tyr Ile Lys Lys Lys Arg Pro Gln Lys
20 25 30

Ala His Leu Glu Gly Tyr Arg Asp Met Gly Trp Leu
35 40

<210> 506

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 506

Lys Tyr Lys Phe Phe Gln Lys Met Phe Lys Arg Leu Gln Lys Ala Arg
1 5 10 15

Leu Glu Leu Arg Arg Arg Leu Ala Ala Leu
20 25

<210> 507

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 507

Lys Trp Arg Tyr Leu Cys Arg Met Phe Arg Lys Leu Cys Ser Arg Leu
1 5 10 15

His Arg Pro Ala Leu Ala Thr Leu
20

<210> 508

<211> 62

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 508

Leu Leu Lys Leu Phe Arg Lys Ile Leu Lys Arg Leu Arg Ser Ile Lys
 1 5 10 15

Lys Ala Ala Val His Cys Ala Ile Ala Thr Leu Glu Ala Ser Ala Arg
 20 25 30

Arg Ala Glu Ala Asn Ala Trp Lys Asn Thr Ser Thr Ala Ala Thr Glu
 35 40 45

Lys Ala Arg Leu Arg Val Met Lys Leu Leu Glu Ala Lys Trp
 50 55 60

<210> 509

<211> 52

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 509

Leu Tyr Lys Leu Leu Arg Lys Ile Leu Arg Lys Phe Lys Lys Tyr Leu
 1 5 10 15

Ala Met Pro Arg Phe His Ala Gly Ala Arg Ala Asp Pro Leu Arg Leu
 20 25 30

Lys Arg Arg Ser Pro Gly Leu Gln Phe Ser Glu Lys Lys Arg Met Leu
 35 40 45

Thr Thr Met Tyr
 50

<210> 510

<211> 57

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 510

Phe Leu Arg Ile Leu Lys Arg Leu Tyr Arg Phe Ile Arg Arg Ala Ala
 1 5 10 15

Asn Trp Lys Lys Leu Gln Leu Leu Ala Met Ala Asp Thr Arg Ala Val
 20 25 30

Arg Trp Cys Arg Ala Val Arg Phe Pro Val Cys Ala Ile Lys Pro Lys
 35 40 45

Lys Arg Ala Arg Lys Gln Met Phe Glu
 50 55

<210> 511
 <211> 26
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 511

Leu Leu Lys Phe Leu Arg Arg Phe Leu Arg Phe Tyr Lys Cys Pro Asn
 1 5 10 15

Leu Ala Lys Lys Glu Ser Lys Lys Trp Ala
 20 25

<210> 512
 <211> 31
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 512

Lys Met Lys Phe Leu Arg Lys Leu Tyr Arg Arg Trp Lys Arg Ile Leu
 1 5 10 15

Ala Ala Met Val Lys Leu Leu Thr Leu Lys Cys Gln Gly Leu Gln
 20 25 30

<210> 513
 <211> 74
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 513

Arg Phe Lys Ile Phe Asn Arg Met Leu Lys Arg Phe Arg Asn Ala Leu
 1 5 10 15

Lys Ala Ala Lys Phe Glu Ala Trp Met His Leu Leu Arg Leu Arg Gln
 20 25 30

Trp Asn Leu His Ala Asp Thr Ile Lys Ala Phe Arg Leu Thr Leu Arg
 35 40 45

Pro Lys Asp Ala Leu Pro Gln Glu Leu Arg Lys Leu Gly Thr Ser Gln
 50 55 60

Leu Lys Arg Ala Gln Ala Ala Leu Lys Met
 65 70

<210> 514
 <211> 46
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 514

Arg Phe Lys Met Leu Arg Arg Leu Leu Arg Met Leu Asn Pro Asn Ala
 1 5 10 15

Ala Leu Thr Arg Ser Leu Thr Gln Lys Trp Gln Ala Ala Leu Gln Arg
 20 25 30

Lys Ala Leu Arg Arg Lys Pro Arg Arg Asp Tyr Ile Pro Pro
 35 40 45

<210> 515
 <211> 46
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 515

Arg Tyr Arg Trp Met Gln Arg Ile Phe Lys Tyr Leu Arg Ser Ala Lys
 1 5 10 15

Leu Thr Cys His Tyr Arg Leu Lys Ala Pro Lys Val Asp Cys Arg Tyr

20

25

30

Leu Ala Leu Lys Leu Gln Leu Arg Leu Pro Ala Ala Leu Asp
 35 40 45

<210> 516
 <211> 27
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 516

Met Tyr Lys Met Leu Lys Lys Phe Ile Lys Arg Leu His Pro Lys Leu
 1 5 10 15

His Leu Trp Leu Lys Phe Lys Ala Leu Val Arg
 20 25

<210> 517
 <211> 44
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 517

Lys Leu Arg Trp Ile Cys Arg Leu Leu Arg Arg Met Arg Asn Leu Asn
 1 5 10 15

Ile Asp Met Ala Ile Val Arg Leu Leu Ala Thr Val Lys Ser Asp Lys
 20 25 30

Arg Tyr Ile Lys Thr Lys Ala Arg Lys Ala Arg Ala
 35 40

<210> 518
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 518

Leu Leu Arg Met Tyr Arg Lys Leu Tyr Arg Lys Trp Lys Arg Leu Ala

1 5 10 15

His Lys Leu Lys Met Ala Pro Cys Asn Trp Leu Val Cys His Arg Ala
 20 25 30

Val Cys

<210> 519
 <211> 37
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 519

Arg Phe Arg Leu Phe Ser Arg Phe Trp Lys Arg Leu Thr Ser Ser Trp
 1 5 10 15

Leu Leu Ala Lys Cys Ala Ala Arg Lys Ala Val Leu Tyr Gly Val Arg
 20 25 30

Leu Ala Ala Arg Trp
 35

<210> 520
 <211> 54
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 520

Lys Leu Arg Phe Leu Gln Arg Phe Tyr Lys Leu Ile Lys Arg Ala Trp
 1 5 10 15

Arg Leu Lys Ala Leu Gly Leu Leu Lys Arg Cys Pro Gly Ala Pro Glu
 20 25 30

Lys Asp Arg Leu Glu Ile Val Ala Arg Leu Leu Val Ala Leu Cys Phe
 35 40 45

Arg His Lys Ala Pro Leu
 50

<210> 521
 <211> 43
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 521

Arg Met Lys Phe Leu Arg Arg Ile Leu Arg Lys Tyr His Pro Thr Gln
 1 5 10 15

Asp Arg Arg Ala Ser Asn Ser Arg Ala Thr Ser His Arg Asp Leu Leu
 20 25 30

Leu Leu Leu Lys Ala Cys Leu Cys Ala Tyr Arg
 35 40

<210> 522
 <211> 57
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 522

Lys Leu Lys Phe Leu Cys Arg Phe Ile Arg Arg Trp Thr Arg Phe Leu
 1 5 10 15

Pro Gln Lys Tyr Ala Tyr Asp Ala Ala Leu Ala Asn Glu Ala Arg Ala
 20 25 30

Pro Ala Met Gln Ala Arg Arg Asn Lys Gln Leu Val Lys Asn Lys Trp
 35 40 45

Ala Ala Thr Glu Tyr Arg Ala Arg Leu
 50 55

<210> 523
 <211> 92
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 523

Leu Trp Lys Tyr Tyr Arg Arg Met Leu Arg Lys Phe Lys Cys Arg Glu
 1 5 10 15

Leu Lys Leu Ala Trp Asp Gln Leu Trp Pro Arg Cys Lys Arg Pro Tyr
 20 25 30

Ala Val Thr Lys Ile Val Lys Glu Gln Ser Arg Gly Ala Ala Val Leu
 35 40 45

Ile Ala Asn Ala Leu Leu Lys Pro Leu Leu Leu Cys Gly Leu Ala Arg
 50 55 60

Lys Tyr Arg Ala Asp Ala Cys Gln Lys His Arg Gly Arg Thr Leu Asp
 65 70 75 80

Arg His Lys Leu Ala Arg Leu Glu Ala Pro Glu Ala
 85 90

<210> 524

<211> 31

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 524

Arg Leu Lys Leu Leu Lys Arg Tyr Phe Arg Leu Leu Lys Lys Lys Thr
 1 5 10 15

Gly Arg Val Trp Ala Trp Lys Tyr Ala Cys His Ala Asn Asn His
 20 25 30

<210> 525

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 525

Leu Phe Arg Leu Leu Lys Lys Leu Leu Arg Trp Met Thr Arg Gln Lys
 1 5 10 15

Lys Ala Ala Lys Pro Ala Asp Lys Leu Leu Lys Leu Phe Leu Asp Lys

20

25

30

Gly Val His Asn Arg Ile Leu Ile
 35 40

<210> 526
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 526

Arg Phe Lys Leu Met Arg Arg Leu Ile Arg Leu Met Lys Asn Cys Asn
 1 5 10 15

Lys Ala His Arg Glu Ala Thr Ala
 20

<210> 527
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 527

Arg Met Lys Ile Phe Lys Arg Leu Leu Lys Arg Phe Ser Pro Leu Ile
 1 5 10 15

Leu Arg Leu Ser Cys Ala Tyr
 20

<210> 528
 <211> 45
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 528

Leu Met Arg Leu Tyr His Lys Leu Phe Arg Lys Phe Lys Pro Thr Leu
 1 5 10 15

Arg Ala Asp Lys Lys Asn Ala Arg Pro Lys Ala Met Arg Tyr Met Ser

20

25

30

Asp Leu Cys Tyr Leu Phe Ala Arg Trp Arg Leu Lys Lys
 35 40 45

<210> 529
 <211> 50
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 529

Phe Ile Arg Trp Tyr Thr Lys Leu Trp Arg Phe Leu Arg Arg Glu Ala
 1 5 10 15

Lys Pro Arg Glu Ala Leu His Glu Lys Lys Ala Ala Asn Arg Ala Arg
 20 25 30

Ile Ser Ala Cys Lys Ala Cys Ala Asp His Lys Arg Lys Phe Ala Lys
 35 40 45

Ala Met
 50

<210> 530
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 530

Leu Phe Arg Trp Leu Arg Arg Tyr Leu Arg Arg Tyr Thr His Ala Tyr
 1 5 10 15

Leu Arg Cys Leu Leu His
 20

<210> 531
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 531

Leu Leu Arg Phe Met Lys Lys Leu Tyr Lys Arg Leu Lys Lys Leu Arg
1 5 10 15

Asn Ile Leu Lys Ala Ser Ser Leu Asp Lys Leu Leu Pro Leu Glu His
20 25 30

<210> 532

<211> 42

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 532

Lys Tyr Arg Leu Leu Lys Lys Ile Leu Arg Lys Phe Gln Pro Ala Arg
1 5 10 15

Asn Lys Phe Arg Lys Leu Gly Cys Leu Arg Gln Ala Ser Arg Tyr Glu
20 25 30

Leu Ala Leu Ala Met Tyr Thr Arg Ile Trp
35 40

<210> 533

<211> 58

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 533

Arg Leu Lys Phe Leu Arg Lys Met Ile Arg Arg Ile Pro Arg Ala Ala
1 5 10 15

Leu Lys Tyr Met Cys Ala Glu Trp Gly Lys Lys Leu Ala Gly Ala Ile
20 25 30

Thr Leu Ala Gly Leu Lys Lys Tyr His Ile Ala Leu Phe His Ala Asp
35 40 45

Lys Lys Ala Pro Lys Leu Tyr Cys Asn Leu
50 55

<210> 534
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 534

Arg Phe Arg Met Trp Asn Lys Ile Leu Lys Leu Trp Arg Lys Trp Ala
 1 5 10 15

Leu Ala Ala Glu
 20

<210> 535
 <211> 37
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 535

Leu Leu Arg Met Trp Lys Lys Tyr Met Arg Lys Trp Lys Cys Leu Ala
 1 5 10 15

Cys His Ala Phe Ile His Leu Ser Thr Leu Leu Leu Arg Leu Met Ala
 20 25 30

Arg Val Arg Ala Thr
 35

<210> 536
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 536

Lys Phe Lys Tyr Leu Pro Lys Met Trp Arg Phe Met Ser Lys Ala Leu
 1 5 10 15

Lys Leu Leu Asn Leu
 20

<210> 537
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 537

Arg Met Arg Trp Trp Asn Arg Leu Phe Arg Lys Phe Lys Pro Ile Ala
 1 5 10 15

Ala Ala Leu Leu Ser
 20

<210> 538
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 538

Leu Phe Arg Leu Phe Thr Arg Trp Leu Arg Trp Leu Pro Arg Val Leu
 1 5 10 15

Lys Gln Arg Gly Lys
 20

<210> 539
 <211> 26
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 539

Lys Leu Arg Leu Leu Ser Lys Leu Phe Lys Arg Leu Cys Arg Pro Leu
 1 5 10 15

Leu Lys Gln Ala Leu Tyr Asp Lys Ala Lys
 20 25

<210> 540
 <211> 34
 <212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 540

Met Leu Arg Leu Leu Lys Lys Phe Leu Lys Lys Trp Pro Ser Ala Ser
1 5 10 15

Leu Leu Arg Tyr Cys Phe Leu Tyr Phe Phe Ala Ala Lys Phe Arg Ala
20 25 30

Arg Arg

<210> 541

<211> 45

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 541

Tyr Leu Arg Leu Trp Arg Lys Trp Leu Arg Lys Trp Lys Lys Asp Arg
1 5 10 15

Gly Met Leu Lys Trp Ala Glu Gln Gly Ala Ala Ile Gly Cys Leu Tyr
20 25 30

Leu Lys Glu Asp Ala Lys Leu Trp Pro Leu Lys Leu Phe
35 40 45

<210> 542

<211> 78

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 542

Lys Leu Arg Trp Leu Thr Lys Leu Trp Arg Arg Phe Asn Arg Leu Lys
1 5 10 15

Gln Ala Leu Gln Arg Phe Asn Leu Leu Leu Gln Tyr Trp Arg Arg Thr
20 25 30

Ala Lys Val Ala Lys Leu Gly Lys Trp Arg Glu Asp Ala Ile Tyr Leu
 35 40 45

Gln Lys Ile Ala Leu Ser Lys Asn Lys Ala Ala Arg Thr Ala Lys Cys
 50 55 60

Ser His Ala Gly Trp Ser Lys Lys Lys Trp Ile Ala Ile Ser
 65 70 75

<210> 543
 <211> 70
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 543

Lys Trp Lys Ile Ile Cys Arg Trp Met Arg Arg Phe Arg Arg Ala Ala
 1 5 10 15

Ala Lys Thr Lys Arg Trp Ala Ala Lys Lys Asn Ala Gly Pro Ala Lys
 20 25 30

Tyr Lys Arg His Glu Val Tyr Arg Leu Lys Lys Trp Glu Ala Leu His
 35 40 45

Lys Val Asp Phe Lys Cys Leu Trp Trp Arg Arg Ser Leu Ala Ala Ser
 50 55 60

Thr Thr Arg Ala Thr Leu
 65 70

<210> 544
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 544

Phe Leu Arg Phe Leu His Arg Leu Leu Arg Lys Leu His Arg Lys Thr
 1 5 10 15

Lys Ala Leu Arg Arg Glu Leu Lys Ala Gly Ala His Lys Leu Phe Ser

20

25

30

<210> 545
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 545

Leu Leu Arg Met Leu Pro Lys Tyr Leu Lys Leu Phe Arg Ser Arg His
 1 5 10 15

Arg Phe Lys Cys Ile Ala Leu Arg Arg Asp Lys Gly Asp Tyr Met Asp
 20 25 30

Val Leu Arg Arg His Leu Tyr Lys
 35 40

<210> 546
 <211> 66
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 546

Leu Leu Arg Met Leu Gln Lys Phe Phe Arg Arg Leu Thr Gln Thr Lys
 1 5 10 15

Leu Arg Pro Ser Ala Arg Leu Arg Gly Lys Ala Arg Leu Arg Gln Leu
 20 25 30

Leu Met Arg Met Glu Lys Arg Arg Val Leu Gly Gly Leu Tyr Leu Phe
 35 40 45

Lys Val Pro Leu Leu Asn Met Ala Ile Leu Asn Lys Cys Gly Arg Lys
 50 55 60

Gln Pro
 65

<210> 547
 <211> 20
 <212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 547

Arg Ile Lys Tyr Trp His Arg Phe Leu Lys Phe Leu Ser Pro Leu Leu
1 5 10 15

Ala Arg Gly Arg
20

<210> 548

<211> 76

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 548

Trp Tyr Arg Leu Met Thr Lys Leu Leu Arg Leu Leu Lys Gln Leu Phe
1 5 10 15

Ile Lys Asn Lys Lys Asn Leu Phe Ala Phe Arg Leu Pro Met Ser Arg
20 25 30

Met Leu Lys Thr Ile Cys Trp Asp Gly Ala Met Lys Lys Leu Leu Ala
35 40 45

Met Lys Met Lys Gly Cys Ala Thr Lys Val Arg Lys Ala Arg Phe Thr
50 55 60

Trp Leu Asn Asp Lys Ala Leu Leu Thr Leu Lys Lys
65 70 75

<210> 549

<211> 77

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 549

Lys Leu Lys Leu Ile Lys Lys Leu Leu Arg Arg Met Arg Asn Arg Leu
1 5 10 15

Arg Ala Asn Cys Arg Val Ile Ser Ala Leu Cys Thr Asp Trp Leu Cys
 20 25 30

Lys Trp Ala Lys Ser Glu Ile Cys Asp Leu Cys Thr Leu Trp Leu Lys
 35 40 45

Arg His Lys Ala Lys Ala Lys Arg Ala Asn Ala Lys Ala Leu Leu Ser
 50 55 60

Ala Lys Leu Cys Lys Thr Ala Ala Asn Met Ala Ala Cys
 65 70 75

<210> 550
 <211> 43
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 550

Ile Phe Arg Met Leu Cys Lys Phe Met Arg Lys Leu Ser Arg Ala Ala
 1 5 10 15

Leu Lys Met Leu Thr Arg Gly Val Cys Leu Ala Ile Pro Val Leu Lys
 20 25 30

Ile Lys Tyr Lys Gln Lys Lys Asn Leu Ala Ala
 35 40

<210> 551
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 551

Leu Phe Arg Leu Leu Cys Arg Leu Leu Lys Arg Leu Arg Gln Gly Ala
 1 5 10 15

Pro Ser Lys Arg Pro Asp Ala Asp Ile Leu Lys Tyr
 20 25

<210> 552

<211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 552

Phe Leu Arg Met Met Thr Lys Phe Trp Lys Phe Leu Arg Thr Lys Ala
 1 5 10 15

Ala Gln Leu Arg Arg Gly Ala Arg
 20

<210> 553
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 553

Tyr Leu Arg Leu Phe Ser Lys Phe Phe Lys Arg Leu Lys Arg Ala Ala
 1 5 10 15

Phe His Phe Ala Gln Lys Leu Arg
 20

<210> 554
 <211> 38
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 554

Leu Trp Lys Leu Trp Arg Arg Leu Met Arg Leu Leu Lys Ser Asn Arg
 1 5 10 15

Gly Tyr Pro Val Lys Leu Leu Glu Ala Leu Gly Ala Arg Lys Leu Ser
 20 25 30

Lys Val Ala Glu Phe Asp
 35

<210> 555

<211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 555

Arg Phe Arg Leu Met Lys Arg Phe Phe Lys Ile Leu Lys Lys His Tyr
 1 5 10 15

Lys Leu Val His Phe Ala Arg Asp Ala Ala Gln Thr Ala Gln Tyr Lys
 20 25 30

Ala Arg

<210> 556
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 556

Phe Tyr Lys Leu Tyr Arg Arg Leu Leu Arg Lys Trp Arg Thr Tyr Ala
 1 5 10 15

Lys Leu Leu Val Arg His Asn Leu
 20

<210> 557
 <211> 27
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 557

Leu Tyr Arg Leu Met Thr Arg Met Leu Arg Lys Phe Gln Lys Arg Ala
 1 5 10 15

Gly Trp Asp Gly Met Leu Thr Ala Arg Arg Leu
 20 25

<210> 558

<211> 47
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 558

Lys Leu Arg Met Leu Arg Lys Phe Leu Arg Met Leu Lys Arg Arg Ala
 1 5 10 15

Val Gly Trp Lys Ile Pro Ala Arg Gln Leu Leu Arg Phe Pro Ile Phe
 20 25 30

Ala Gly Arg Leu Tyr Leu Tyr Leu Ser Lys Cys Thr Ala Arg Pro
 35 40 45

<210> 559
 <211> 60
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 559

Arg Tyr Lys Ile Leu Lys Lys Ile Leu Arg Arg Ile Arg His Val Arg
 1 5 10 15

Met Leu Tyr Ala Glu Leu Asp Phe Leu Ala His Gln Leu Ala Gly Met
 20 25 30

Trp Asn Ile Lys Leu His Trp Arg Ala Arg Ala Asn Tyr Ala Pro Gly
 35 40 45

Arg Ala Lys Lys Leu Phe Gly Leu Arg Leu Leu Ala
 50 55 60

<210> 560
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 560

Ile Met Arg Ile Tyr Lys Lys Leu Trp Lys Phe Leu Lys Arg Leu Pro

1 5 10 15

Ala Leu Arg Arg Asn Gln Leu Tyr Tyr Leu Leu Thr Ala Arg
20 25 30

<210> 561
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 561

Arg Met Arg Leu Met Cys Arg Tyr Tyr Arg Leu Leu His Arg Arg Asn
1 5 10 15

Ala Ala Lys Asp Asp
20

<210> 562
<211> 50
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 562

Arg Phe Lys Leu Phe Gln Lys Trp Trp Lys Met Phe Pro Cys Ala Ala
1 5 10 15

Arg Tyr Lys Ala Arg Lys Ala Ala Met Arg His Leu Ile Arg Leu Ile
20 25 30

Leu Ala Glu Arg Lys Ala Ala Val Leu His Ala Met Val Asp Lys Lys
35 40 45

Leu Gln
50

<210> 563
<211> 75
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 563

Lys Leu Lys Met Leu Gln Lys Met Leu Lys Lys Met Thr Lys Gly Cys
 1 5 10 15

Leu Leu Val Ala Tyr Asn Leu Leu Lys Arg Ala Thr Val Val Ala Thr
 20 25 30

Ala Lys Leu Arg Leu Tyr Lys Lys Leu Arg Ile Ala Phe Asn Gly Lys
 35 40 45

Lys Lys Cys Leu Lys Leu Lys Val Lys Met Asn Met Ser Cys Lys Ala
 50 55 60

Phe Arg Asn Lys Ala Lys Lys Lys Tyr Ala Asp
 65 70 75

<210> 564

<211> 64

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 564

Leu Phe Arg Leu Leu Pro Arg Tyr Met Arg Leu Leu Lys Pro Ala Met
 1 5 10 15

Asp Lys Lys Ala Leu Gln Ala Ala Trp Gly Arg Leu Glu Glu His Glu
 20 25 30

Gln Leu Leu Lys Gly Lys Tyr Leu Arg Arg Ile Lys Leu Thr Leu Lys
 35 40 45

Asn Cys Lys Ala Trp Thr Lys Trp Phe Arg Leu Ala Cys Pro Lys Cys
 50 55 60

<210> 565

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 565

Tyr Ile Arg Met Ile Arg Lys Ile Leu Arg Leu Phe Gln Gln Leu Arg
 1 5 10 15

Leu Tyr Gln Leu Arg Met Arg Arg Ala Lys Lys His Ala His Leu Leu
 20 25 30

Ala Glu His Trp
 35

<210> 566
 <211> 55
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 566

Ile Met Lys Leu Trp Arg Lys Phe Leu Lys Tyr Tyr Arg Cys Gln Pro
 1 5 10 15

His Lys Val Leu Phe Arg Arg Arg Tyr Leu Arg Leu Trp Ser Ala Thr
 20 25 30

Leu Arg Arg Gln Arg Lys Leu Arg Met Thr Ala Arg Lys Ala Ala Ile
 35 40 45

Thr Leu Arg Trp Leu His Ala
 50 55

<210> 567
 <211> 76
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 567

Arg Leu Arg Met Leu Arg Arg Phe Met Lys Arg Ile Lys Lys Arg His
 1 5 10 15

Ser Leu Leu Lys Leu Glu Cys Arg Leu Ala Ala Ala Lys Ser Ala Trp
 20 25 30

Lys Leu Leu Cys Lys Glu Leu Asp Ser Ala Ile Val Ala Met Val Arg

35

40

45

Lys Phe Pro Thr Ala Arg Leu Lys Ala Tyr Thr Lys Lys Arg Phe Asp
 50 55 60

Gly Gln Lys Leu Arg His Val Arg Val Asn Leu Leu
 65 70 75

<210> 568
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 568

Arg Met Arg Leu Trp Lys Arg Met Phe Lys Leu Leu Pro Lys Arg Leu
 1 5 10 15

Leu Gly Ala Gly Asp Lys Ala Gly Ser Ala Pro Arg
 20 25

<210> 569
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 569

Leu Tyr Lys Leu Leu Gln Arg Leu Phe Lys Leu Tyr Gln Arg Arg Lys
 1 5 10 15

Arg Asp Leu Ala Gly Lys Leu Arg Leu Ile Trp Lys
 20 25

<210> 570
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 570

Lys Leu Arg Phe Leu Cys Arg Leu Met Lys Phe Tyr Lys Arg Ala Ala

1 5 10 15

Lys Ala Met Ser Leu
20

<210> 571
<211> 61
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 571

Arg Leu Lys Tyr Phe Lys Arg Ile Trp Lys Arg Leu Lys Arg Pro Tyr
1 5 10 15

Trp Gly Glu Lys Ser Pro Ala Ala His Leu Gln Tyr Leu Asn Ala Gly
20 25 30

Lys Arg Leu Lys Gly Arg Glu Ala Thr Ala Cys Val Ala Leu Leu Thr
35 40 45

Arg Lys Gln Tyr Ala Val Leu Ala Ala Val Arg Cys Arg
50 55 60

<210> 572
<211> 33
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 572

Ile Met Lys Trp Leu Lys Arg Trp Tyr Lys Tyr Phe Arg Arg Lys Ala
1 5 10 15

Leu Ala Lys Met Thr Ala Arg Ser Leu Ala Cys Tyr Arg Ala Asp Thr
20 25 30

Lys

<210> 573
<211> 55
<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 573

Ile Ile Arg Leu Tyr His Lys Met Ile Arg Tyr Leu Arg Cys Val Lys
1 5 10 15

Phe Arg Ser Leu Val Thr Lys Arg Pro Leu Leu Asn Gly Ala Ala Lys
20 25 30

Leu Gln Arg Phe His Thr Thr Lys Val Ala Arg His Lys Leu Ala Lys
35 40 45

Lys Leu Lys Lys Arg Trp Leu
50 55

<210> 574

<211> 87

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 574

Lys Tyr Lys Phe Phe Arg Arg Leu Leu Arg Lys Met His Lys Val Lys
1 5 10 15

Arg Met Leu Gln Pro Met Trp Leu Trp Leu Gln Arg Lys Ala Tyr Gly
20 25 30

Arg Leu Leu Gly Ala Arg Gly Cys Arg Ala Val Arg Cys Arg Met Arg
35 40 45

Leu His Asp Lys Arg Ser His Cys Lys Ala Tyr Pro Leu Ala Gly Arg
50 55 60

Lys Ala Thr Arg Leu Arg Thr His Asn Lys Leu Ser His His Glu Arg
65 70 75 80

Arg Leu Gly Thr Ala Leu Arg
85

<210> 575

<211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 575

Phe Leu Lys Phe Leu Thr Lys Tyr Phe Arg Lys Phe Ser Lys Lys Ala
 1 5 10 15

Pro Ile Arg Ala Arg Leu Glu Leu
 20

<210> 576
 <211> 43
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 576

Arg Leu Lys Met Leu Pro Arg Leu Phe Arg Lys Tyr Asn Lys Leu His
 1 5 10 15

Arg Lys Ser Asn Val Ile His Lys Ala Met Asp Arg Leu His Leu Lys
 20 25 30

Val Arg Thr Leu Ala Lys Pro Lys Leu Leu Arg
 35 40

<210> 577
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 577

Phe Phe Arg Trp Met Ser Arg Leu Leu Arg Arg Ile Lys Arg Asp Ala
 1 5 10 15

Tyr Met Lys Leu Thr Pro Ser Leu Leu Leu Lys Leu Arg Tyr
 20 25 30

<210> 578

<211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 578

Arg Leu Lys Phe Leu His Arg Trp Leu Arg Arg Tyr Asn Cys Trp Leu
 1 5 10 15

Thr Ile Thr Ala Leu Ala Arg Arg Pro Arg Leu Lys Gln Ala Arg Val
 20 25 30

Trp Ala His
 35

<210> 579
 <211> 31
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 579

Leu Phe Lys Leu Ile Cys Arg Leu Leu Lys Arg Tyr Ser Arg Met Arg
 1 5 10 15

Tyr Arg Leu Cys Arg Cys Arg Lys Tyr Cys Met Leu Ala Ile Ala
 20 25 30

<210> 580
 <211> 37
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 580

Tyr Met Arg Phe Phe Thr Arg Leu Trp Arg Trp Phe Ser Arg Leu Gly
 1 5 10 15

Ala Lys Ser Ala Arg Ala Tyr Ala Arg Leu Arg Leu Met Arg Met Ile
 20 25 30

Leu Arg Arg Phe Arg

35

<210> 581
 <211> 58
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 581

Arg Leu Arg Phe Tyr Arg Arg Leu Met Arg Lys Leu Gln Arg Asp Leu
 1 5 10 15

Arg Arg Arg Lys Leu Ser Lys Ser Ala Phe Phe Gln Leu Arg Ile Ser
 20 25 30

Glu Lys Leu Ala Tyr Phe Val Phe Lys Thr Leu Arg Leu Ala Arg Tyr
 35 40 45

Ser Val Arg Leu Pro Gln Pro Leu Leu Ala
 50 55

<210> 582
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 582

Leu Tyr Lys Ile Ile Arg Lys Leu Leu Arg Arg Leu Pro Arg Ala Ile
 1 5 10 15

Met Asp Met Leu Lys Ala
 20

<210> 583
 <211> 71
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 583

Arg Leu Arg Ile Tyr Arg Arg Ile Trp Arg Lys Ile Lys Thr Leu Leu

[illegible]

<210>	584
<211>	83
<212>	PRT
<213>	Artificial Sequence
<220>	
<223>	Computer-generated peptide variant
<400>	584

Lys	Phe	Arg	Leu	Leu	His	Lys	Leu	Tyr	Lys	Arg	Leu	Asn	Lys	Glu	Arg
1				5					10					15	
Lys	Lys	Arg	His	Ile	Arg	Gly	Glu	Thr	Leu	Met	Leu	Tyr	Asn	Lys	Thr
			20					25					30		
Ala	Leu	Pro	Arg	Arg	Cys	Leu	Leu	Arg	Phe	Ala	Phe	Gly	Arg	Arg	Asn
		35					40					45			
Arg	Ala	Ala	Pro	Thr	Arg	Gln	Gln	Val	Arg	Lys	His	Tyr	Gly	Lys	Ala
	50					55					60				
Ala	Ala	His	Lys	Leu	Lys	Leu	Leu	Arg	Ser	Glu	Ile	Ala	Ala	Ile	Lys
65					70					75					80

Leu Ala Pro

<210>	585
<211>	44
<212>	PRT
<213>	Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 585

Lys	Leu	Lys	Leu	Tyr	Arg	Lys	Trp	Leu	Arg	Leu	Phe	Thr	Gln	Leu	Arg
1				5				10						15	

Lys	Leu	Gly	Lys	Phe	Leu	Pro	Arg	His	Asp	Ala	Trp	Ala	Arg	Arg	Val
			20					25					30		

Met	Gly	Ala	Asn	Gln	Leu	Trp	Tyr	Met	Leu	Leu	Ala
			35				40				

<210> 586

<211> 45

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 586

Lys	Leu	Arg	Leu	Ile	Lys	Arg	Tyr	Met	Arg	Lys	Trp	Lys	His	Leu	Leu
1				5				10						15	

Lys	Cys	Gln	Leu	Asn	Arg	Met	Cys	Leu	Phe	Arg	Leu	Glu	Arg	Lys	Ala
			20				25						30		

Gln	Lys	Arg	Val	Ile	Leu	Leu	Val	His	Met	Glu	Leu	Trp
			35				40					45

<210> 587

<211> 84

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 587

Arg	Leu	Lys	Leu	Tyr	Pro	Arg	Phe	Trp	Lys	Met	Met	Pro	Lys	Leu	Pro
1				5				10						15	

Arg	Leu	Lys	Ala	Val	Ala	Arg	Met	Leu	Lys	Lys	Lys	Lys	Arg	Leu	Trp
			20					25					30		

Leu	Leu	Ser	Gln	Tyr	Leu	Gly	Leu	Pro	Glu	Pro	Lys	Met	Arg	Gly	Met
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

35

40

45

His Glu Asp Lys Ala Ala Ile Ala Asp Lys Val Leu Tyr Arg Leu Leu
 50 55 60

Lys Asp Ser Leu Leu Tyr Ala Val Leu Leu Leu Pro Leu Ile His Leu
 65 70 75 80

Ala Asn Lys Lys

<210> 588
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 588

Lys Tyr Arg Trp Phe Lys Lys Met Phe Arg Leu Phe Thr Arg Ala Met
 1 5 10 15

Leu Leu Glu Ala Leu Tyr Leu Arg
 20

<210> 589
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 589

Arg Met Lys Leu Trp His Arg Leu Tyr Lys Arg Trp Gln Thr Ile Lys
 1 5 10 15

Leu Leu Ala Leu
 20

<210> 590
 <211> 49
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 590

Met Leu Arg Leu Phe Lys Arg Leu Leu Arg Phe Phe Thr Arg Leu Leu
1 5 10 15

Glu Arg Leu Phe Gln Leu Arg Lys Lys Ser Arg Ala Thr Asp Lys Lys
20 25 30

Lys Arg Ala Pro Glu Phe Ala Leu Cys Leu Tyr Glu Leu His Tyr Arg
35 40 45

Tyr

<210> 591

<211> 49

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 591

Phe Trp Lys Tyr Met Asn Arg Leu Leu Arg Leu Met Thr Arg Asn Leu
1 5 10 15

Ala Ser Leu Asn Ser Ala Glu Ala Pro Lys Pro Leu Cys Lys Leu Ile
20 25 30

Asn Ala Arg Arg Ile Lys Glu Ala Leu Ala Arg Leu Lys Trp Lys Gln
35 40 45

Trp

<210> 592

<211> 46

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 592

Leu Leu Lys Leu Met Arg Lys Phe Leu Lys Leu Leu Ser Asn Lys Pro
1 5 10 15

Ile Arg Leu Leu Lys Leu Val Ser Arg Arg Asp Ile Trp Met Val Lys
 20 25 30

Leu Arg Leu Ala Asn Gly Gln Ala Trp Leu Tyr Lys Ile Trp
 35 40 45

<210> 593

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 593

Trp Leu Lys Ile Leu Thr Lys Tyr Met Lys Ile Leu Arg Arg Asp Ala
 1 5 10 15

Lys Val Asp Leu Leu Leu Lys Lys Lys Arg Leu Tyr Leu
 20 25

<210> 594

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 594

Tyr Phe Lys Ile Leu Arg Lys Leu Ile Lys Trp Leu Arg Arg Gly Leu
 1 5 10 15

Asp Leu Lys Leu Lys Ala Val Leu Tyr Arg Pro
 20 25

<210> 595

<211> 42

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 595

Tyr Leu Arg Leu Phe Arg Arg Tyr Tyr Lys Phe Met Lys Ser Tyr Arg
 1 5 10 15

Glu Ala Arg Leu Lys Ile Ala Leu Ile Arg Arg Gln Met Cys Leu Ala
 20 25 30

Ala Thr Ala Tyr Leu Ala Lys Thr Asp Arg
 35 40

<210> 596
 <211> 49
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 596

Arg Phe Arg Tyr Leu Asn Lys Leu Trp Arg Lys Trp Thr His Arg Asn
 1 5 10 15

Arg Lys Ala Asn Leu Arg Trp Arg Phe Asp Gln Ala Leu Arg Leu Ile
 20 25 30

Leu Pro Gln Ala Asp Met Lys Ala Lys Leu Asp Ala Ala Arg Val Arg
 35 40 45

Asp

<210> 597
 <211> 44
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 597

Lys Leu Arg Phe Leu Arg Lys Leu Phe Arg Lys Leu Ser Arg Tyr Val
 1 5 10 15

Trp Asn Cys Arg Ala Ile Val Pro Ala Trp Tyr Thr Lys Lys Glu Leu
 20 25 30

Glu Lys Leu Lys Leu Ala Asn Leu Leu Thr Arg Tyr
 35 40

<210> 598

<211> 99
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 598

Arg Tyr Arg Leu Leu Lys Arg Met Ile Arg Lys Phe Arg Cys Ala Met
 1 5 10 15

Arg Ala Arg Lys Lys Ala Gln Leu Leu Lys Gln Val Lys Asn Leu Lys
 20 25 30

Tyr Gln Pro Ile Arg Ala Asp Glu Phe Asp Arg Ile Leu Met Asp Phe
 35 40 45

Ala Pro Leu Arg Leu Thr Leu Arg Arg Arg Met Ile Asn Arg Asp Lys
 50 55 60

Ala Leu Thr Arg Trp Leu Ala Cys Gly Leu Tyr Arg Val Asn Ala His
 65 70 75 80

Met Ala Arg Val Val Trp Ala Arg Leu Glu Ala Lys Gln Arg Glu Gly
 85 90 95

Leu Arg Leu

<210> 599
 <211> 61
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 599

Tyr Leu Arg Ile Leu Arg Arg Leu Met Arg Lys Leu Ser Arg Arg Ala
 1 5 10 15

Cys His Tyr Lys Glu Leu Ala Cys Ile Leu Ala Arg Cys Thr Leu Trp
 20 25 30

Leu Arg Trp Ser Val Val Arg Leu Ala Ala Lys Leu Ile Arg Phe Lys
 35 40 45

Lys Asn Arg Trp Asp Cys Leu Arg Ile Leu Arg Leu Leu
 50 55 60

<210> 600
 <211> 27
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 600

Lys Leu Lys Leu Tyr Lys Arg Trp Trp Arg Tyr Phe Ser Lys Ala Trp
 1 5 10 15

Phe His Arg Lys Leu Asn Ala Cys Asn Leu Ala
 20 25

<210> 601
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 601

Lys Met Arg Met Leu Thr Arg Leu Phe Lys Arg Met Arg Arg Ser Leu
 1 5 10 15

Arg Ala Arg Met Leu Asp Asp Ala Leu Ile Ala Ala Asp Leu
 20 25 30

<210> 602
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 602

Leu Leu Arg Ile Phe Cys Arg Met Tyr Arg Arg Phe Ser Arg Lys Tyr
 1 5 10 15

Leu Leu Leu Arg Cys Ala
 20

<210> 603
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 603

Leu Ile Arg Met Tyr Arg Lys Phe Leu Arg Arg Leu His Asn Ala Leu
 1 5 10 15

Tyr Lys Ile Met
 20

<210> 604
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 604

Trp Leu Arg Leu Met Arg Lys Leu Leu Arg Lys Leu Lys Cys Lys Gln
 1 5 10 15

Trp Leu Gln Lys His Ala Ser Val Arg Leu Ala Leu Leu Ala Ile Val
 20 25 30

Gly

<210> 605
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 605

Tyr Leu Arg Met Leu Arg Lys Leu Leu Lys Arg Met His Gln Ala Ala
 1 5 10 15

Phe Asn Leu Ser
 20

<210> 606
 <211> 60
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 606

Leu Leu Arg Leu Phe Gln Arg Leu Trp Arg Lys Leu Arg Asn Gly Lys
 1 5 10 15

Ala Lys Leu Gly His Leu Trp Lys Leu Asp Gly Lys Ala Gln Leu Tyr
 20 25 30

Ala Val His Met Ala Glu Lys Thr Leu Arg Tyr His Thr Arg Tyr Pro
 35 40 45

Cys Phe Lys Ala Ala Arg Arg Ala Arg Arg Gly Tyr
 50 55 60

<210> 607
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 607

Arg Met Arg Phe Tyr Ser Arg Tyr Leu Lys Phe Leu Lys Asn Leu Ala
 1 5 10 15

Leu Met Leu Asn Ala Lys Lys Lys Asp
 20 25

<210> 608
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 608

Phe Leu Lys Leu Trp Cys Lys Leu Leu Arg Lys Leu Gln Gln Gly Lys
 1 5 10 15

Pro Tyr Leu Arg Arg Arg Ala Ala Ala Thr Cys Arg Gln
 20 25

<210> 609
 <211> 100
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 609

Leu Phe Arg Met Ile Thr Lys Tyr Met Lys Arg Leu Arg Arg Lys Val
 1 5 10 15

Cys Met Ala Gly Tyr Arg Ala Lys Leu Asn Lys Asn Pro Lys Leu Glu
 20 25 30

Arg Leu Leu Ser Ala Tyr Ala Lys Gln Pro Val Arg Met Ala Arg Gly
 35 40 45

Ala Leu Ala Met Arg Leu Glu Phe Asp Val Glu Ala Tyr Phe Leu Ile
 50 55 60

Leu Lys Gln Leu Gln Tyr His Ala Tyr Arg Ile Ala Ile Ala Arg Thr
 65 70 75 80

Lys Ser Glu Trp Arg Ala Ala Lys Lys Lys Ser Lys Arg Leu Arg Lys
 85 90 95

Asp Tyr Ala Lys
 100

<210> 610
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 610

Arg Tyr Lys Ile Trp Pro Arg Leu Leu Lys Ile Leu Arg Arg Ala Trp
 1 5 10 15

Gln Arg Glu Leu Lys Ile Phe Leu Pro Gly Asn Arg Leu Arg

20

25

30

<210> 611
 <211> 65
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 611

Lys Leu Lys Ile Leu Arg Lys Trp Tyr Arg Lys Leu Gln His Lys Ala
 1 5 10 15

His Asn Ala Arg His Gln Arg Ala Tyr Pro Glu Leu Ala Arg Ala Thr
 20 25 30

Thr Ser Ala Leu Cys Asp Lys Arg Arg Lys Arg Cys Ser Lys Arg Lys
 35 40 45

Ile Pro Ala Arg Leu Leu Ala Leu Asn Arg Glu His Arg Gln Arg Glu
 50 55 60

Ser
 65

<210> 612
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 612

Tyr Leu Lys Tyr Ile Lys Lys Leu Leu Lys Lys Leu Asn Ser Arg Leu
 1 5 10 15

Ala Arg Ala Ile Arg Ser Leu
 20

<210> 613
 <211> 67
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 613

Trp Tyr Lys Leu Leu Arg Arg Tyr Ile Arg Arg Phe Lys Thr Lys Glu
1 5 10 15

Gln Leu Ala Asn Lys Arg Cys Ala Lys Leu Asp Ala Leu Arg Cys Arg
20 25 30

Thr Arg Pro Glu Lys Arg Asn Lys Ser Glu Phe Leu Leu Asp Ala Ile
35 40 45

Pro His Leu Ala Leu Lys Val Ala Arg Arg Ser Pro Phe Arg Ala Met
50 55 60

Arg Gln Gly
65

<210> 614

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 614

Arg Ile Arg Phe Leu Ser Arg Leu Leu Lys Lys Phe Arg Lys Asp Ser
1 5 10 15

Thr Met Tyr Ala Gln Asp Ala Arg Ala Arg Leu Gly Ala Leu Gln Lys
20 25 30

Tyr Arg Trp Ser
35

<210> 615

<211> 55

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 615

Trp Leu Arg Leu Leu Arg Lys Leu Phe Arg Arg Met Lys Lys Lys Glu
1 5 10 15

Ile Ala Arg Ile Thr Lys Ser Leu Lys Arg Ile Gln Ala Asn Phe Asn
 20 25 30

Thr Arg Ala Gly Ala Lys Ile Gln Arg Thr Gln Ala Ala Thr Ala Leu
 35 40 45

Cys Asn Asn Arg Ile Leu Lys
 50 55

<210> 616
 <211> 48
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 616

Phe Phe Arg Phe Trp Ser Arg Phe Phe Lys Lys Trp Lys Lys Leu Leu
 1 5 10 15

Leu Ala Ala Leu Lys Ala Ser Phe Val Gln Arg Lys Cys Ala Asn Ala
 20 25 30

Lys Met Thr Arg Arg Cys Ala Leu Ala Arg Gln Lys Leu Lys Trp Asp
 35 40 45

<210> 617
 <211> 54
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 617

Trp Leu Lys Trp Ile Lys Arg Phe Leu Arg Met Leu Cys Thr Lys Ile
 1 5 10 15

Lys Lys Ala Ser Ala Lys Ala Ala Arg Lys Leu Ala Ala Val Asn Trp
 20 25 30

Arg Lys Gly Asp Arg Leu Ser Ser Lys Lys Tyr Ala Lys Gln Arg Asn
 35 40 45

Ala Leu Ala Met Arg Gln

50

<210> 618
 <211> 45
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 618

Lys Ile Arg Met Phe Lys Arg Ile Leu Arg Tyr Phe His Arg Ala Ala
 1 5 10 15

Leu Val Arg His Tyr Ala Val Asp Arg Val Thr Lys Gly Cys Leu Leu
 20 25 30

Leu Leu Arg Ala Leu Pro Lys Ile Trp Trp Lys Arg Ala
 35 40 45

<210> 619
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 619

Met Leu Lys Leu Met Arg Lys Met Leu Arg Leu Leu Cys His Arg Val
 1 5 10 15

Ala Lys Arg Asp His Ile Arg Tyr
 20

<210> 620
 <211> 51
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 620

Phe Ile Lys Phe Leu Arg Arg Trp Leu Lys Phe Met Asn Asn Leu Cys
 1 5 10 15

Tyr Tyr Ala Met Arg Lys Leu Leu Val Lys Ala Phe Arg Lys Arg Leu

20

25

30

Lys Ile Leu His Arg Tyr Ile Arg Asn Arg Arg Trp Leu Leu Leu Lys
 35 40 45

Leu Lys Thr
 50

<210> 621
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 621

Ile Leu Arg Phe Leu Cys Lys Ile Leu Lys Arg Leu Lys Gln Asn Phe
 1 5 10 15

Leu Ala Thr Leu Lys Cys Pro
 20

<210> 622
 <211> 26
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 622

Met Leu Lys Met Phe Arg Arg Leu Trp Lys Arg Leu Asn Lys Phe Leu
 1 5 10 15

Ala Arg Gln Lys Leu Leu Arg Trp Asn Tyr
 20 25

<210> 623
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 623

Arg Leu Lys Phe Leu Arg Arg Leu Trp Lys Trp Leu Lys Cys Ala Pro

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<210> 624
<211> 66
<212> PRT
<213> Artificial Sequence
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<220>
<223> Computer-generated peptide variant

Leu Phe Arg Met Leu Pro Arg Met Trp Arg Met Phe Lys Gln Lys Asp
1 5 10 15

Ile Phe Ser Asp Ala Leu Lys Lys Lys Ala Leu Lys Lys Leu Phe Gln
20 25 30

Trp Glu Gln Arg His Ala Leu Leu Arg Lys Ser Phe Leu Lys Ala Leu
35 40 45

Arg Arg Val Phe Ile His Thr Arg Leu Arg Cys Arg Lys Ala Ser Arg
50 55 60

Ala Gln
65

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<210> 625
<211> 22
<212> PRT
<213> Artificial Sequence
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<220>
<223> Computer-generated peptide variant

<400> 625

Lys Trp Arg Phe Leu Cys Arg Tyr Ile Lys Leu Met Asn Lys Ala Leu
1 5 10 15

Leu Trp Ala Glu Arg Leu
20

<210> 626
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 626

Lys Phe Arg Phe Leu Arg Lys Met Tyr Arg Arg Leu Lys Lys Lys Ile
 1 5 10 15

Pro Tyr Cys Gln Leu Gln Arg Asn Thr Met Arg Gln Ala Ala Ala Val
 20 25 30

Cys Ala Ala Arg Leu Leu Lys Arg
 35 40

<210> 627
 <211> 63
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 627

Arg Ile Lys Met Leu Thr Lys Phe Ile Arg Met Leu Ser Arg Leu Arg
 1 5 10 15

Ala Val Arg Lys Phe Arg Leu Glu Cys Cys Leu Gln Ala Gln Asp Trp
 20 25 30

Leu Phe Lys Asp Ser Thr Arg Ala Gln Ile Glu Met Leu Ala His Lys
 35 40 45

Arg Ala Arg Lys Lys Val Arg Ala Ala Ala Thr Ala Arg Leu Pro
 50 55 60

<210> 628
 <211> 79
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 628

Arg Tyr Arg Leu Ile Lys Lys Trp Leu Lys Lys Phe Arg Pro Arg Leu
 1 5 10 15

Arg Ala Ala Ser Arg Ala Lys Ala Leu Lys Met Gly Lys Leu Cys Ala
 20 25 30

Lys Arg Pro Ala Gly Gln Asp Leu Pro Arg Leu Trp Ala Met Asn His
 35 40 45

Glu Asn Arg Gly Tyr Tyr Asn Ala Gly Ala Tyr Arg Ala Gly Lys Ala
 50 55 60

Phe Lys Arg Lys Ala Tyr Lys Asn Lys Ile Leu Ala Arg Leu Arg
 65 70 75

<210> 629

<211> 82

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 629

Lys Leu Lys Leu Leu Gln Lys Ile Phe Lys Lys Phe Gln Arg Glu Leu
 1 5 10 15

Gly Leu Arg Asn Lys Leu Ala Leu Lys Ala Glu Leu Asn Thr Ser Arg
 20 25 30

Arg Leu Leu Cys Phe Tyr Thr Leu Leu Lys Lys Arg Ile Ile Leu Lys
 35 40 45

Lys Lys Trp Gly Ala Gln Ala Trp Arg Leu Tyr Asp His Arg Thr Met
 50 55 60

Leu Arg Thr Arg Lys Leu Ala Val Lys Lys Ala Ala Asp Met Leu Ile
 65 70 75 80

Ala Phe

<210> 630

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 630

Lys Leu Lys Met Phe Pro Arg Phe Leu Arg Lys Leu Ser Lys Ala Lys
1 5 10 15

Ala Val Asp Gln Ala Cys Thr
20

<210> 631

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 631

Arg Leu Lys Trp Ile Lys Arg Leu Phe Arg Arg Met Arg Gln Ala Met
1 5 10 15

Ile Arg Asn Ala Leu Cys Ala Ala Arg Met
20 25

<210> 632

<211> 43

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 632

Phe Trp Arg Leu Leu Gln Arg Leu Leu Lys Arg Leu Thr Pro Ala Leu
1 5 10 15

Leu Pro Cys Ser Lys Arg Leu Val Val His Arg Gly Leu Thr Ala Lys
20 25 30

Arg Arg Ala Ala Asp Lys His Ala Pro Lys Cys
35 40

<210> 633

<211> 51

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 633

Lys Leu Arg Ile Phe Lys Arg Met Leu Lys Phe Ile Lys Lys Ala Ala
1 5 10 15

Ala Ala Tyr Cys Leu Ala Lys Ala Glu Arg Ser Gly Arg Lys Lys Cys
20 25 30

Leu Asp Gly Val Ala Val Pro Lys Pro Gln Gly Lys Ala Asn Lys Pro
35 40 45

Tyr Lys Arg
50

<210> 634

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 634

Leu Leu Arg Ile Leu Pro Arg Phe Phe Arg Ile Phe Arg Asn Ala Arg
1 5 10 15

Trp His Gln Leu Arg Asp Leu Lys Leu Leu Leu Val Glu Lys Ala Arg
20 25 30

<210> 635

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 635

Phe Phe Arg Ile Leu Thr Arg Leu Leu Arg Phe Trp Asn Arg Glu Gly
1 5 10 15

Ala Arg Arg Ala Lys Thr Thr Ala Leu Arg Ser Ala Leu Asp Trp Arg
20 25 30

Lys Gly Gln Arg
35

<210> 636
<211> 43
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 636

Leu Tyr Arg Leu Met Lys Arg Leu Leu Arg Lys Met Lys Cys Leu Asn
1 5 10 15

Ala Lys Gly Met Lys Phe Lys Gly Lys Cys Ala Ile Arg Ala Leu Gln
20 25 30

Lys Cys Ala His Arg Arg Ala Arg Leu His Phe
35 40

<210> 637
<211> 50
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 637

Leu Tyr Lys Phe Tyr Arg Arg Phe Trp Lys Arg Tyr Gln Lys Arg Lys
1 5 10 15

Tyr Lys Ala Asp Ala His Phe Ala Lys Arg Val Ala Leu Val Ala Leu
20 25 30

Ala Pro Met Lys Gly Lys Glu Thr Leu Arg Ser Arg Ala Ala Thr Gly
35 40 45

Lys Cys
50

<210> 638
<211> 36
<212> PRT
<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 638

Lys	Leu	Arg	Leu	Phe	Lys	Lys	Met	Leu	Lys	Lys	Phe	Lys	Cys	Lys	Ala
1				5					10					15	

Met	Leu	Ser	Ala	Asn	Asp	Met	Ala	Arg	Gln	Ser	Val	Ala	Lys	Trp	Leu
			20					25					30		

Ala	Ser	Ala	Thr
			35

<210> 639

<211> 39

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 639

Arg	Tyr	Lys	Leu	Phe	Arg	Lys	Phe	Tyr	Arg	Lys	Tyr	Pro	Gln	Asn	Leu
1				5					10					15	

Ala	Ala	Ala	Arg	Ala	Arg	Val	Pro	Arg	Val	Arg	Ala	Asp	Cys	Gln	Leu
			20					25					30		

Arg	Lys	Ala	Arg	Thr	Ala	Leu
						35

<210> 640

<211> 39

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 640

Lys	Met	Lys	Ile	Tyr	Lys	Lys	Leu	Ile	Lys	Arg	Leu	Lys	Lys	Gln	Lys
1				5					10					15	

Ala	Ala	Ala	Gln	His	Ile	Pro	Arg	Gly	Leu	Leu	Leu	Tyr	Leu	Cys	Lys
			20					25					30		

Arg	Leu	Ala	Gly	Arg	Arg	Trp
-----	-----	-----	-----	-----	-----	-----

35

<210> 641
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 641

Phe Trp Arg Leu Phe His Lys Leu Phe Arg Lys Ile Thr Arg Asp Leu
 1 5 10 15

Lys Leu Asn Ala Trp Ala Arg Lys Asn
 20 25

<210> 642
 <211> 38
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 642

Trp Leu Lys Trp Leu Cys Lys Phe Tyr Lys Tyr Tyr Lys Cys Cys Arg
 1 5 10 15

Pro Arg Arg Arg Val Leu Ala Leu Lys Arg Leu Lys Met Leu Arg Ser
 20 25 30

Leu Pro Gln Leu Gln His
 35

<210> 643
 <211> 27
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 643

Arg Phe Lys Tyr Leu Lys Arg Phe Leu Arg Leu Leu Arg Arg Gly Val
 1 5 10 15

Val Ala Gly Leu Lys Gln Ile Leu Ser Ile His

20

25

<210> 644
 <211> 49
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 644

Leu Leu Arg Phe Phe Arg Lys Leu Leu Lys Arg Leu Ser Lys Gly Arg
 1 5 10 15

Thr Cys Asn Phe Phe Phe Pro Ile Cys Asn Gln Leu Lys Asn Lys Lys
 20 25 30

Ala Asn Arg Met Ala Ala Ala Lys Ala Leu Arg Arg Tyr Arg Ile Leu
 35 40 45

Phe

<210> 645
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 645

Lys Met Arg Phe Ile Lys Lys Trp Leu Arg Leu Ile Cys Arg Ser Ile
 1 5 10 15

Leu Arg Phe Arg Ala Leu Leu Gly Gly Gln Arg Leu
 20 25

<210> 646
 <211> 72
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 646

Met Trp Arg Phe Phe Arg Lys Trp Tyr Lys Lys Phe Lys Asn Pro Ala

Lys Leu Lys Phe Phe Thr Lys Ile Leu Lys Lys Phe Pro Lys Arg Ala
1 5 10 15

Leu Leu Tyr Thr Arg Thr Ala Leu Lys Ala His Lys Glu Arg Ser Tyr
20 25 30

Leu Arg Arg Val Tyr Lys Thr Asp Cys Leu Leu Arg Val Lys Ala Lys
35 40 45

Trp Asn Arg Leu Gln Asn Val Tyr Ala Leu Cys
50 55

Arg Leu Lys Leu Leu Arg Lys Leu Leu Lys Met Ile Lys Lys Trp Ala
1 5 10 15

Asp His Lys Ala Pro Lys Glu His Met Arg Cys Leu
 20 25

<210> 649
 <211> 26
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 649

Lys Leu Lys Phe Leu Asn Lys Phe Leu Arg Arg Trp Lys Pro Leu Ile
 1 5 10 15

Ala Asn Pro Leu Ala Asp Lys Arg Met Pro
 20 25

<210> 650
 <211> 72
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 650

Tyr Leu Lys Leu Phe Arg Lys Leu Ile Arg Lys Phe Lys Thr Arg Leu
 1 5 10 15

Val Val Phe Glu Ser Asn Lys Leu Met Ala Ala Arg Tyr Leu Arg Lys
 20 25 30

Lys Pro Val Leu Leu Ala Leu His Arg Leu Phe Leu Leu Arg Arg Asp
 35 40 45

Ala Arg His Arg Glu Leu Ser Pro Lys Arg Gln Leu His Ile His Arg
 50 55 60

Leu Gln Phe Pro Leu Met Ala Arg
 65 70

<210> 651
 <211> 38
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 651

Arg	Met	Arg	Met	Leu	Pro	Lys	Leu	Leu	Arg	Leu	Leu	Thr	Lys	Ala	Asn
1				5					10					15	

Lys	Asn	Lys	Phe	Tyr	Met	Met	Leu	Lys	Leu	Ala	Arg	Cys	Phe	Ala	Asn
			20					25					30		

Arg	Leu	Gly	Tyr	Ala	His
		35			

<210> 652

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 652

Trp	Trp	Lys	Leu	Trp	Asn	Lys	Phe	Tyr	Lys	Arg	Phe	Lys	Cys	Arg	Pro
1				5					10					15	

Ala	Leu	Gln	Asp	Arg	Cys	Arg	Lys	Ala	Phe	Arg	Lys	Lys	Val	Lys	Leu
			20					25					30		

Val	Ala	Tyr	Leu	Gln	Leu	Leu	Ala
		35					40

<210> 653

<211> 41

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 653

Arg	Leu	Lys	Phe	Tyr	Thr	Lys	Phe	Met	Arg	Arg	Trp	Asn	Arg	Ala	Ile
1				5					10					15	

Val	Glu	Arg	Asn	Ala	Ala	Pro	Leu	Thr	Ala	Ala	Lys	Asp	Ala	Leu	Gln
			20					25					30		

Leu	Ala	Leu	Lys	Leu	Pro	His	Lys	Gly
-----	-----	-----	-----	-----	-----	-----	-----	-----

35

40

<210> 654

<211> 89

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 654

Phe Leu Lys Ile Ile Lys Arg Phe Ile Arg Phe Met Lys Thr Asp Leu
 1 5 10 15

Lys Arg Leu Lys Arg Ser Lys Tyr Thr Val Ala Lys Tyr Ile Trp Val
 20 25 30

Trp Val Glu Glu Asp Ala Arg Ala Arg Lys Leu Ala Ala His Lys His
 35 40 45

Ala Ala Leu Leu Ser Leu Arg Cys Ala Arg Asp Ala Arg Lys Tyr Cys
 50 55 60

Lys Cys Tyr Ser Gly His Lys Ala Lys Ile Glu Lys Lys Leu Asp Ala
 65 70 75 80

Arg Ala Lys Leu Ala Arg Arg His Asp
 85

<210> 655

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 655

Arg Ile Lys Phe Leu Cys Lys Leu Met Lys Lys Leu Arg Lys Trp Gln
 1 5 10 15

Lys Lys Val Gly Leu Ala Lys Leu Pro Ala Lys Leu Leu Ser Gln Val
 20 25 30

Asn Asp Leu Lys Leu Met Gln Pro
 35 40

<210> 656
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 656

Lys Leu Lys Phe Phe Arg Lys Trp Met Lys Leu Ile Cys Lys Gly Ala
 1 5 10 15

Leu Ala Lys Leu Pro Asp Lys Ala His Lys Arg Gln Gly Ile Lys Tyr
 20 25 30

Ala Ser Ala Leu Arg Cys Arg Gly
 35 40

<210> 657
 <211> 55
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 657

Arg Leu Arg Trp Ile Arg Arg Trp Phe Lys Leu Met Thr Lys Cys Ala
 1 5 10 15

Lys Asn Trp Ala Arg Ala Glu Lys Arg Glu Tyr Ala Asp Ala Ala Tyr
 20 25 30

Arg Ala Tyr Leu Asn Arg Pro Ala Arg Ala Leu Ala Ala Arg Pro Arg
 35 40 45

Lys Leu Thr Lys Ala Arg Gly
 50 55

<210> 658
 <211> 58
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 658

Arg Phe Lys Leu Leu Thr Lys Leu Ile Arg Lys Leu Arg Asn Pro Ala
 1 5 10 15

Leu Ala Lys Val Cys Arg Met Arg Met His Val Asp Gly Trp Glu Arg
 20 25 30

Trp Leu Glu Pro His Ala Arg Lys Ala Arg Val Arg Thr Arg Leu His
 35 40 45

Ala Leu His Lys Leu Gly Ala Ser Leu Val
 50 55

<210> 659
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 659

Phe Leu Arg Phe Leu Thr Arg Leu Phe Lys Arg Trp Lys Arg Lys Leu
 1 5 10 15

Ala His Ser Thr Ala Ala
 20

<210> 660
 <211> 67
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 660

Lys Ile Arg Leu Tyr Lys Lys Phe Trp Arg Lys Leu Ser Arg Arg His
 1 5 10 15

Met Thr Ser Asn Ala Ala Lys Met Ala Asp Asn Arg Arg Lys Arg Ala
 20 25 30

Gly Ile Ala Ala Arg Arg Lys Arg Ala Ala Ser Met Ala Ala Ala Met
 35 40 45

Arg Pro Arg Gln Thr Thr Gln Ala Ser Val Arg Arg Ala Arg Leu Gly

50

55

60

Arg Leu Phe
65

<210> 661
<211> 34
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 661

Leu Phe Lys Phe Phe Asn Arg Leu Leu Lys Arg Ile Arg Arg Met Pro
1 5 10 15

Ala Val Ile Leu Leu Ala Glu Ala Lys Thr Pro His Cys Lys Arg Ala
20 25 30

Phe Lys

<210> 662
<211> 74
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 662

Lys Leu Arg Phe Phe Cys Lys Ile Phe Arg Lys Ile Arg Arg His Leu
1 5 10 15

Leu Ala Lys Leu Ala Val Ile Gln Arg Trp Gln Leu Pro Ala Ile Arg
20 25 30

Ala Lys Ala Trp Arg Leu Val His Ala Thr Ala Thr Ala Arg Thr Arg
35 40 45

Ala Asp Arg Asp Arg Ile Arg Leu Lys Lys Leu Tyr Ala Arg Ala Arg
50 55 60

Gly Arg Gln Arg Phe Arg Ala Leu Cys Arg
65 70

<210> 663
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 663

Phe Leu Lys Met Leu His Lys Leu Phe Lys Arg Ile Cys Lys Ile Arg
 1 5 10 15

Glu Ala Ala Met Ala Arg Arg His Ser
 20 25

<210> 664
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 664

Leu Ile Arg Met Leu Arg Lys Phe Leu Arg Arg Trp Arg Thr Arg His
 1 5 10 15

Leu Ala Ala Ala Ala Leu Thr Ile Lys Lys Phe Leu Ala
 20 25

<210> 665
 <211> 70
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 665

Met Met Arg Leu Phe Arg Arg Leu Tyr Lys Lys Met Cys Asn His Trp
 1 5 10 15

Arg Leu Ser His Leu Arg Leu Lys Thr Tyr Asn Arg Gln Ala Ile Ala
 20 25 30

Gly Ala Ala Lys Ala Pro Ala Gly Leu Gln Lys Ala Leu Val Leu Arg
 35 40 45

Phe Leu Ala Arg Leu Arg Thr Leu Glu Leu Met Phe Tyr Pro Lys Val
 50 55 60

Lys Leu Leu Val Asp Ala
 65 70

<210> 666
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 666

Ile Trp Arg Phe Tyr Lys Lys Leu Met Arg Leu Leu Lys Lys Lys Ala
 1 5 10 15

Leu Ala Cys Ser Arg Arg Leu Ser Ala Asp Leu Glu Phe Arg Asn Lys
 20 25 30

His Asp Leu Val
 35

<210> 667
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 667

Arg Met Arg Leu Leu Ser Arg Trp Leu Arg Arg Phe Asn Lys Arg His
 1 5 10 15

Leu Trp Leu Leu Ala Lys Leu Glu Leu Lys Leu Leu Ser Lys Trp Arg
 20 25 30

Lys Ser Ile Ala
 35

<210> 668
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 668

Met	Leu	Arg	Phe	Phe	Cys	Arg	Phe	Leu	Lys	Arg	Leu	His	Cys	Ser	Ala
1				5					10					15	

Lys	Leu	Leu	Ala	His	Ile	Lys	Asn	Arg
			20					25

<210> 669

<211> 39

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 669

Arg	Leu	Lys	Leu	Met	Arg	Lys	Phe	Trp	Arg	Lys	Leu	Lys	Thr	Leu	Leu
1				5					10					15	

Leu	His	Lys	Gln	Lys	Arg	Ile	Lys	Arg	Cys	Glu	Arg	Pro	Ala	Gly	Ala
			20					25					30		

Lys	Ala	Ala	Leu	Thr	Ala	Pro
			35			

<210> 670

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 670

Phe	Met	Arg	Phe	Ile	Lys	Lys	Leu	Leu	Lys	Lys	Tyr	Arg	Asn	Ala	Leu
1				5					10					15	

Ser	Ala	Leu	Gln	Leu	Tyr
			20		

<210> 671

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 671

Tyr	Phe	Lys	Leu	Tyr	Lys	Arg	Leu	Leu	Arg	Leu	Phe	Lys	Gln	Gly	Asn
1				5					10					15	

Leu	Tyr	Asp	Ala
			20

<210> 672

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 672

Arg	Trp	Lys	Tyr	Tyr	Pro	Arg	Leu	Trp	Lys	Lys	Ile	Gln	Lys	Leu	Arg
1				5					10					15	

Gln	Tyr	Gln	Gly	Ala	Ala	Lys	Lys	Leu	Arg	Leu	Asn	Ala	Ala
			20					25					30

<210> 673

<211> 61

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 673

Leu	Met	Lys	Tyr	Leu	Ser	Arg	Leu	Phe	Lys	Lys	Leu	Asn	Arg	Ala	Arg
1				5					10					15	

Lys	Ala	Leu	Ala	Lys	Ala	Ala	Arg	Pro	Arg	Ala	Met	Leu	Lys	Arg	Arg
			20					25					30		

Leu	Gly	Gly	Thr	Cys	Gly	Ile	Cys	Lys	Ala	Leu	Gln	Thr	Thr	Lys	Ser
		35					40					45			

Ile	Val	Phe	Cys	Ile	Gly	Leu	Arg	Trp	Leu	Tyr	Leu	Met
	50					55					60	

<210> 674

<211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 674

Met Ile Arg Leu Met Arg Arg Leu Leu Arg Tyr Phe Lys Ser Ser Ala
 1 5 10 15

Leu Asn Arg Lys Gly Leu Leu Leu
 20

<210> 675
 <211> 73
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 675

Lys Leu Arg Met Phe Lys Arg Leu Phe Arg Leu Phe Lys Lys Leu Ala
 1 5 10 15

His Phe His Val Leu Met Leu Tyr Cys Lys Phe Arg Lys Arg Gln Ile
 20 25 30

Asn Ala Leu Lys Leu Asp Tyr Lys Lys Arg Arg Lys Val Ala Leu Ile
 35 40 45

Ala Met Lys Arg Asp Met Leu Lys Phe Lys Arg Arg Tyr Arg His Leu
 50 55 60

Leu Trp Lys Trp Met Ala Leu Trp Thr
 65 70

<210> 676
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 676

Lys Leu Lys Met Met Arg Lys Leu Leu Lys Lys Leu Arg Pro Lys Val

<210>	677
<211>	25
<212>	PRT
<213>	Artificial Sequence
<220>	
<223>	Computer-generated peptide variant
<400>	677

<210>	678
<211>	23
<212>	PRT
<213>	Artificial Sequence
<220>	
<223>	Computer-generated peptide variant
<400>	678

<210>	679
<211>	21
<212>	PRT
<213>	Artificial Sequence
<220>	
<223>	Computer-generated peptide variant
<400>	679

1 5 10 15

Ile Ser Tyr Leu Gln
20

<210> 680
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 680

Arg Leu Lys Leu Phe Lys Lys Trp Leu Arg Lys Leu Thr Gln Arg Asp
1 5 10 15

Asn Arg Arg Leu Lys Leu Leu Asp Gly Ser Ala Lys Cys His Asn Tyr
20 25 30

Leu Asn His Pro Asn Asp Arg Ala
35 40

<210> 681
<211> 46
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 681

Tyr Trp Arg Leu Leu Pro Arg Met Leu Lys Leu Phe Lys Thr Leu Lys
1 5 10 15

Leu Arg Leu Ala Tyr Leu Arg Lys Leu Ala Ser Gly Arg Lys Leu Thr
20 25 30

Val Ala Arg Glu Lys Lys Gln Pro Gly Arg Gln Tyr Lys Pro
35 40 45

<210> 682
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 682

Leu Leu Arg Leu Ile Gln Arg Leu Ile Arg Leu Phe Asn Arg Lys Ile
 1 5 10 15

Asn Leu Ala Arg Met Arg Arg Arg Val His Asn Val Lys Leu Leu Tyr
 20 25 30

Leu Ala Thr
 35

<210> 683

<211> 57

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 683

Lys Trp Lys Phe Tyr Arg Lys Leu Phe Lys Leu Leu Arg Lys His Ala
 1 5 10 15

Glu Thr Lys Asp Ile Ala Asp Ala Arg Lys Leu Asn Ala Lys Cys Lys
 20 25 30

Trp Leu Val Ala Val His Cys Leu Ala Leu Cys Ala Arg Ala Lys Asn
 35 40 45

Arg Trp Ala Tyr Ile Tyr Arg Asn Arg
 50 55

<210> 684

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 684

Lys Leu Arg Phe Leu Arg Arg Ile Leu Arg Tyr Leu Thr Arg Arg Met
 1 5 10 15

His Lys Cys Thr Gly Ala Asn Leu
 20

<210> 685
 <211> 71
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 685

Lys Phe Lys Ile Phe Thr Lys Ile Tyr Lys Lys Leu Lys Arg Leu Leu
 1 5 10 15

Leu Gly Gly His Lys Pro Arg Lys Lys Val Asp Leu Leu Phe Lys Cys
 20 25 30

Thr Asn Val Lys Lys Leu His Arg Ala Pro Leu Cys Arg Ala Gln Ile
 35 40 45

Leu Pro Leu Val Ala Asn Ala Phe Leu Ala Arg Ala Arg Lys Arg Gln
 50 55 60

Leu Phe Leu Gly Arg Lys Asp
 65 70

<210> 686
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 686

Leu Phe Lys Ile Leu Cys Lys Leu Leu Lys Trp Leu Arg Arg Ser Arg
 1 5 10 15

Arg Met Ser Ala Val Asp Asp Arg Met Ala Phe Gln Leu Arg Asn Ala
 20 25 30

Leu

<210> 687
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 687

Trp	Phe	Arg	Phe	Leu	Cys	Lys	Ile	Leu	Arg	Arg	Leu	Arg	Lys	Ala	Lys
1				5				10						15	

Leu	Ala	Ala	Tyr	His	Asn	Ala	Arg	Ala	Arg	Trp	Ala	Met	Gln
			20				25						30

<210> 688

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 688

Trp	Leu	Arg	Met	Leu	Lys	Arg	Phe	Tyr	Lys	Leu	Phe	Gln	Ser	Lys	Leu
1				5				10						15	

His	Lys	Lys	Thr	Met	Gln	Asp	Pro	Leu	Ala	Lys	Lys	Lys	Arg	Leu	Glu
			20					25					30		

Leu Gly

<210> 689

<211> 37

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 689

Leu	Leu	Lys	Trp	Leu	Lys	Lys	Leu	Phe	Arg	Ile	Leu	Lys	Lys	Asp	Cys
1				5				10						15	

Pro	Lys	Ala	Asn	Leu	Gln	Gly	Ala	Cys	Arg	Ala	Leu	His	Phe	Lys	Cys
			20				25						30		

Leu	Asn	Tyr	Leu	Gln
			35	

<210> 690

<211> 83
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 690

Arg Met Lys Tyr Leu Pro Arg Leu Phe Arg Trp Phe Lys Lys Arg His
 1 5 10 15

Leu Pro Arg Ser Leu Cys Ala Leu Ser Ala Asp Gly Leu Ala Arg Ala
 20 25 30

Val Lys Asp Leu Arg Gln Val Gln Lys Asn Arg Ala Leu His Ala Arg
 35 40 45

Met Met Ala Asn Lys Leu Pro Leu Cys Leu Ala Phe Leu Ala Glu Ala
 50 55 60

Arg Asn Leu Glu Ser Thr Arg Ile Ala Lys Arg Ala Gln Arg Met Leu
 65 70 75 80

Arg Ala Lys

<210> 691
 <211> 74
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 691

Ile Leu Arg Phe Tyr Arg Arg Leu Leu Arg Leu Met His Arg Lys Ala
 1 5 10 15

His Lys Arg Arg Leu Arg Leu Phe Ala Val His Thr Met Cys Arg Ala
 20 25 30

Ala Lys Gly Ile Arg Asp Ser Lys Ala Lys Val Lys Leu Tyr Leu Gln
 35 40 45

Leu Pro Tyr Ala Arg Ala Ser Ile Arg Ala Leu Glu Glu Thr Trp Lys
 50 55 60

Lys Phe Ala Leu Ala Leu Ala Ala Glu Leu
65 70

<210> 692
<211> 45
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 692

Tyr Met Lys Met Ile Arg Lys Leu Leu Lys Lys Tyr Ser Lys Leu Phe
1 5 10 15

His His Leu Lys Phe Glu Ala Asn Ile Ala Lys Val Lys Leu Tyr Gln
20 25 30

Lys His Arg Ala Gln Leu Pro Leu Ala Lys Arg Leu Glu
35 40 45

<210> 693
<211> 89
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 693

Phe Leu Arg Trp Tyr Arg Lys Tyr Leu Lys Lys Ile Lys Arg His Tyr
1 5 10 15

Lys Arg Met Val Arg Lys Glu Cys Val Glu Asn Met Leu Lys Arg Ala
20 25 30

Ala Lys Ala Cys Glu Tyr Thr Val Lys Asn Ala Leu Lys Lys Trp His
35 40 45

Ala Ala Tyr Lys Ala Leu Asp Ala Ser Gly Gly Asp Arg Asn His Thr
50 55 60

Ala Phe Leu Arg Ala Arg Pro Ala Ala Asp Ser Arg Lys Lys Arg Val
65 70 75 80

Arg Ala Phe Glu Leu Ala Leu Thr Lys

85

<210> 694
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 694

Lys Ile Lys Leu Phe Arg Lys Leu Leu Lys Leu Leu Cys Lys Met Gly
 1 5 10 15

Ile Lys Met Leu Lys His Glu Ala Arg Lys Ala Gly Trp Ile His Ala
 20 25 30

Tyr Leu

<210> 695
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 695

Lys Leu Lys Phe Phe Gln Lys Leu Leu Arg Arg Leu Lys Pro Ala Arg
 1 5 10 15

Arg Lys Met Leu Val Leu Leu Ser Arg Leu Ala Arg Gly Glu Leu Glu
 20 25 30

Leu Lys Ile Asp
 35

<210> 696
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 696

Phe Phe Lys Tyr Met Arg Lys Leu Phe Lys Lys Leu Arg Lys Asn Asp

<210>	697
<211>	98
<212>	PRT
<213>	Artificial Sequence

<400> 697

Thr Thr Asn Leu Gln Asn Thr Arg Arg Ala Gly Gln Pro Asn His Ala
20 25 30

His His His Arg Gln Leu Arg Leu Ala Leu Arg Arg Leu Glu Arg Arg
50 55 60

Arg Phe Ala Trp Pro Gly Lys Leu Leu Leu Arg Cys Arg Arg Lys Arg
85 90 95

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<210> 698
<211> 23
<212> PRT
<213> Artificial Sequence
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<400> 698

Leu Trp Lys Leu Phe Asn Lys Phe Ile Lys Arg Leu Arg Thr Leu Val
 1 5 10 15

Ala Asp Leu Lys Lys Thr Arg
 20

<210> 699

<211> 60

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 699

Arg Phe Lys Leu Leu Cys Arg Phe Leu Lys Arg Met Arg Gln His Cys
 1 5 10 15

Ala Lys Arg Val Arg Ala Lys Arg Leu Ile Lys Ile Ala Asn Leu Asp
 20 25 30

Leu Lys His Lys Ala Glu Cys Thr Leu Arg Pro Trp Phe Lys Lys Ile
 35 40 45

Ala Gly Tyr Ala His Lys Arg Asn Gly Gln Ala Glu
 50 55 60

<210> 700

<211> 74

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 700

Phe Leu Arg Tyr Leu Arg Lys Phe Met Lys Lys Phe Arg Arg Asp Tyr
 1 5 10 15

Ala Ala Arg Leu Ala Arg Cys Met Arg Glu Cys Arg Leu Ala Lys Ala
 20 25 30

Lys Leu Ile Leu Arg Ala Lys Arg Cys Phe Val Ala Phe Ile Leu Asp
 35 40 45

Lys Arg Arg Tyr Arg Gly Arg Ala Glu Thr His Lys Trp Lys Phe Thr

50

55

60

Lys Gly Tyr Ala Leu Pro Pro Ile Arg Ala
 65 70

<210> 701
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 701

Leu Leu Lys Leu Leu Arg Lys Trp Phe Lys Phe Phe Cys Gln Leu Asn
 1 5 10 15

Thr Gly Arg Lys
 20

<210> 702
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 702

Lys Ile Lys Ile Leu Gln Arg Leu Leu Arg Lys Met Thr Cys Phe Arg
 1 5 10 15

Lys Ala Arg Ala Tyr Ser Pro Arg Val Leu Glu Ala Ala Gly Ser Leu
 20 25 30

Asn Lys

<210> 703
 <211> 45
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 703

Lys Phe Arg Leu Leu His Lys Met Leu Lys Arg Leu Cys Gln Thr Glu

1 5 10 15

Lys Arg Gly Pro Ser Arg Leu Leu Ala Tyr Arg Arg Ala Phe Gly Arg
 20 25 30

Ala Pro Lys Lys Pro Pro Asn Lys Ala Asp Arg Pro Leu
 35 40 45

<210> 704
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 704

Lys Trp Arg Leu Leu Asn Arg Trp Leu Lys Arg Phe Lys Asn Ala Ala
 1 5 10 15

His Leu Thr Tyr Ala
 20

<210> 705
 <211> 79
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 705

Tyr Phe Lys Phe Tyr Lys Arg Phe Leu Lys Arg Leu Pro Lys Ala Arg
 1 5 10 15

Arg Thr Cys Tyr Val Ile Lys Glu Gln Arg Arg Gly Ala Tyr Lys Pro
 20 25 30

Leu Lys Pro Leu Ala Leu Leu Trp Cys Met Gln Arg Leu Val Tyr Arg
 35 40 45

Arg Ala Lys Phe Lys Arg Ala Gln Ala Gly Pro Ser Lys Lys Gly Leu
 50 55 60

Lys Lys Lys Ile Val Leu Lys Asp Leu Lys Leu Leu His Ala Gly
 65 70 75

<210> 706
 <211> 54
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 706

Leu Leu Arg Met Leu Lys Lys Phe Leu Arg Met Leu Thr Thr Cys His
 1 5 10 15

Lys Ala Ala Lys Trp Glu Pro Ala Arg Asn Thr Leu Leu Leu Glu Tyr
 20 25 30

Val Lys Thr Leu Arg Lys Asp Lys Leu Arg Ala Arg Lys Lys Trp Leu
 35 40 45

Leu Lys His Glu His Ala
 50

<210> 707
 <211> 39
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 707

Tyr Leu Lys Leu Trp Arg Lys Trp Leu Lys Leu Leu Lys Lys His Asp
 1 5 10 15

Trp Leu Gln Arg Arg Arg Gln Tyr Cys Gly Arg Arg Ser Thr Ala Ala
 20 25 30

Tyr Lys Thr Ala Phe Leu Met
 35

<210> 708
 <211> 59
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 708

Met Leu Lys Phe Leu Thr Arg Trp Leu Arg Arg Phe Lys Lys Lys Arg
 1 5 10 15

Met Leu Asp Trp Leu Asn Lys Leu Ala Lys Trp Thr Ile Ile Glu Leu
 20 25 30

Tyr Arg Ala Ala Lys Asp His Asp Pro Lys Arg Ala Leu Tyr Glu Ala
 35 40 45

Ala Lys Leu Leu Leu Ala Val Cys Leu Val Trp
 50 55

<210> 709

<211> 80

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 709

Lys Met Arg Tyr Phe Arg Arg Trp Leu Arg Arg Leu Arg Pro Pro Asp
 1 5 10 15

Gly Arg Tyr Ala Asp Lys Leu Pro Arg Gln Arg Trp Lys Phe Met Phe
 20 25 30

Lys Arg Leu Glu Leu Gln Ser Arg Lys Leu Arg Arg Lys Ser Ala Pro
 35 40 45

Leu Lys Leu Ala Lys Glu Leu Lys Ala Ser Ala Met Ala Cys Phe Leu
 50 55 60

Asp Phe Lys Lys Cys Leu Gln Tyr Lys Arg Leu Ser Val Trp Pro Ser
 65 70 75 80

<210> 710

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 710

Ile Leu Arg Trp Phe Lys Arg Phe Leu Lys Tyr Ile Lys Arg Cys Ala

1 5 10 15

Lys Thr Arg Ala Gly Ala Ala Lys Ala
20 25

<210> 711
<211> 45
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 711

Phe Leu Arg Leu Trp Cys Arg Leu Leu Arg Lys Leu Arg Arg Leu His
1 5 10 15

Cys Lys Gln Ala Thr Lys Ala Ala Leu His Ala Gly Ser Arg Gly Phe
20 25 30

His Val Lys Arg Ile Leu Ala Asp Leu Phe Lys Tyr Gly
35 40 45

<210> 712
<211> 42
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 712

Arg Trp Lys Leu Leu Lys Lys Ile Leu Arg Phe Met Cys Lys Ala His
1 5 10 15

Ala Thr Ile Ile Arg Lys Lys Pro Leu Thr Lys Leu Gly His Gly Leu
20 25 30

Leu Ala Leu Ala Leu Arg Lys Gly Trp Leu
35 40

<210> 713
<211> 33
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 713

Lys Leu Arg Ile Tyr Lys Lys Leu Phe Arg Arg Met His Gln Thr Asn
1 5 10 15

Arg Leu Arg Val Gly Leu Arg His Lys Gln Arg Leu Cys Val Ala Leu
20 25 30

Leu

<210> 714

<211> 37

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 714

Arg Phe Lys Leu Phe Lys Arg Leu Trp Arg Lys Leu Ser Lys Ala Gly
1 5 10 15

Arg Asp Asn Leu His Ala Lys Arg His Ala Leu Met Gln Val Thr Leu
20 25 30

Leu Cys Ala Arg Asp
35

<210> 715

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 715

Tyr Phe Arg Leu Trp Asn Arg Ile Phe Lys Arg Trp Lys Asn Asp Lys
1 5 10 15

Leu Arg Leu Leu Leu Ala Val
20

<210> 716

<211> 39

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 716

Arg	Phe	Lys	Tyr	Leu	Lys	Arg	Tyr	Trp	Lys	Ile	Tyr	Arg	Arg	Cys	Thr
1				5				10						15	

Ala	Arg	Arg	Lys	Thr	Ser	Leu	Ser	Ala	His	Arg	Thr	Leu	Leu	Ala	Ala
			20					25					30		

Lys	Ile	Leu	Leu	Ser	Lys	His
						35

<210> 717

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 717

Leu	Phe	Arg	Leu	Leu	Gln	Arg	Trp	Tyr	Arg	Lys	Ile	Lys	Lys	Lys	Leu
1				5				10						15	

Leu	Gly	Cys	Glu	His	Asn	Lys	Leu	Ala	Gly	Met	Asn	Leu
			20					25				

<210> 718

<211> 44

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 718

Leu	Leu	Lys	Leu	Leu	Arg	Lys	Ile	Leu	Arg	Arg	Phe	Arg	Lys	Ile	Cys
1				5				10						15	

Arg	Leu	Gly	Gly	Cys	Lys	Leu	Leu	Trp	Lys	Ser	Pro	Lys	Leu	Lys	Leu
			20					25					30		

Leu	Asp	Arg	Pro	Arg	Tyr	Gln	Leu	Leu	Phe	Met	Lys
			35				40				

<210> 719
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 719

Lys Leu Arg Leu Phe Lys Lys Tyr Met Arg Arg Leu His Pro Lys Leu
 1 5 10 15

Ala Asn Leu Ser
 20

<210> 720
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 720

Lys Leu Arg Tyr Trp Arg Lys Ile Leu Lys Leu Met His Lys Leu Phe
 1 5 10 15

Gly Ala Trp Lys
 20

<210> 721
 <211> 57
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 721

Phe Leu Arg Leu Leu Lys Lys Leu Met Lys Arg Tyr His Arg Ala Arg
 1 5 10 15

Leu Arg Ser Lys Lys Ala Arg Arg Phe Lys Gln Asp Phe Leu Arg Leu
 20 25 30

Lys Val Ala Arg Gln Ala Leu His Trp Tyr Ala Cys Glu Lys Leu Arg
 35 40 45

Tyr Gly Leu Ile Trp Cys Met Thr Leu
 50 55

<210> 722
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 722

Leu Tyr Lys Leu Met Lys Lys Leu Phe Lys Arg Leu Thr Gln Leu Ala
 1 5 10 15

Met Met Ala Arg Ala Trp Leu Lys Leu Leu Lys Lys Glu Lys Arg Lys
 20 25 30

Lys Ser Tyr Tyr
 35

<210> 723
 <211> 64
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 723

Ile Leu Arg Leu Leu Thr Lys Leu Phe Arg Lys Tyr Arg Gln Asn Arg
 1 5 10 15

Lys Ala Trp Leu Lys Leu Leu Gln Ala Arg Cys Arg Ile Lys Met Gly
 20 25 30

Val Tyr Lys Ala Lys Arg Ala Met Arg Ala Tyr Trp Ile Glu Gln Arg
 35 40 45

Arg Arg Lys Ala Arg Glu Arg Asp Trp Cys Ser Ala Leu Asp Phe Thr
 50 55 60

<210> 724
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 724

Arg Leu Lys Leu Ile Lys Arg Tyr Phe Arg Arg Leu Arg Asn Tyr Ala
 1 5 10 15

Val Ala Leu Arg Glu Ala
 20

<210> 725

<211> 80

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 725

Trp Trp Arg Leu Ile Arg Arg Ile Leu Lys Lys Tyr Lys Gln Ala Lys
 1 5 10 15

Lys Leu Arg Thr Trp Leu Leu Arg Leu Leu Lys Lys Lys Thr Gln Lys
 20 25 30

Asp Tyr Glu Ala Lys Ala Tyr Lys Arg Ser Arg Leu Arg His Phe Gly
 35 40 45

Ile Leu Met Phe Met Leu Met Ala Leu Arg Ala Lys Lys Ser Tyr Ile
 50 55 60

His Tyr Cys Leu Gln Arg Arg Ala Ala Tyr Val Arg Pro Lys Leu Tyr
 65 70 75 80

<210> 726

<211> 38

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 726

Lys Phe Lys Leu Leu Cys Lys Leu Leu Lys Lys Trp Ser Arg Asp Leu
 1 5 10 15

Ser Lys Leu Met Leu Arg Gln Glu Ile Met Ile Phe Phe Ile Lys Lys

20

25

30

Asn Arg Gln Leu Leu Leu
35

<210> 727
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 727

Phe Leu Arg Ile Phe Arg Lys Leu Leu Arg Lys Met Asn Lys Arg Glu
1 5 10 15

Trp Arg Gln Trp Leu Pro Ala Gln Met Ala Lys Ala
20 25

<210> 728
<211> 50
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 728

Lys Ile Arg Ile Ile Lys Arg Ile Leu Lys Lys Leu Lys Ser Leu Arg
1 5 10 15

Thr Pro Lys Tyr Ala Lys Lys Arg Lys Val Ala Asn Leu Lys Trp Lys
20 25 30

Cys Leu Thr Ala Lys Asn Ala Lys Ala Phe Leu Ala Phe Leu Arg Arg
35 40 45

Leu Met
50

<210> 729
<211> 44
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 729

Ile Leu Arg Leu Ile Thr Arg Leu Ile Lys Arg Phe His Ser Val Arg
 1 5 10 15

Lys Ala Leu Arg Arg Leu Phe Phe Ala Ala Thr Glu Trp Leu Phe Lys
 20 25 30

Phe Ser Trp Lys Leu Lys Ala Arg Leu Val Arg Glu
 35 40

<210> 730

<211> 78

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 730

Lys Tyr Lys Leu Met Arg Arg Phe Leu Arg Lys Trp Cys Ser His Glu
 1 5 10 15

Gly Lys Asp Leu Lys Trp Arg Thr Ala Ala Ser Thr Arg Lys Trp Arg
 20 25 30

Leu Lys Gln Glu Ala Ala Leu Arg Lys Leu Lys Trp Leu Ser Leu Ala
 35 40 45

Phe Ala Leu Ala Arg Ala His Phe Lys Ile Ile Lys Arg Arg Met Met
 50 55 60

Gln His His Val Leu Lys Cys Ala Ala Met Gln Ala Lys Arg
 65 70 75

<210> 731

<211> 89

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 731

Lys Trp Lys Ile Leu Asn Arg Leu Ile Lys Lys Tyr His Thr Trp Lys
 1 5 10 15

Cys Ala Ser Arg Arg Ala Pro Arg Cys Gln Met Lys Leu Lys Arg Lys
 20 25 30

Met Gly Leu Pro Arg Asp Thr Arg Asp Arg Ala Ile His Arg Val Ala
 35 40 45

Ala Ser Ala Lys Lys Arg Arg Arg Pro Arg Ala Tyr Ala Cys Leu Ala
 50 55 60

Gln His Val Tyr Lys Leu Leu Lys Val Ala Leu Phe Asn Ser Lys Ala
 65 70 75 80

Val Lys Ala Lys Tyr Ala Gln Leu Asp
 85

<210> 732
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 732

Lys Leu Lys Ile Tyr Thr Arg Phe Trp Lys Arg Leu His Arg Leu Lys
 1 5 10 15

Arg Phe Leu Ile Ser Ser Ala Val Ala Leu Arg Asp Arg Arg Ala Tyr
 20 25 30

Val

<210> 733
 <211> 84
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 733

Phe Trp Lys Leu Tyr Asn Arg Leu Phe Arg Phe Trp Lys Pro Leu Asp
 1 5 10 15

Glu Gln Lys Lys Met Trp Leu Lys Pro Leu Glu Leu His Lys Leu Lys

20							25				30				
Lys	Leu	Asn	Met	Ile	Gly	Phe	Leu	His	Arg	Thr	Leu	Phe	Leu	His	Trp
		35					40					45			
Ala	Ala	Ala	Lys	Arg	Ala	Arg	Lys	Arg	Gln	Met	Leu	Val	Arg	Gly	Phe
	50					55					60				
Leu	Glu	Phe	Lys	Leu	Lys	Ala	Arg	Leu	Lys	Lys	Lys	Leu	Leu	Ala	Ala
65					70					75					80

Ala Ile Leu Ser

<210>	734
<211>	37
<212>	PRT
<213>	Artificial Sequence
<220>	
<223>	Computer-generated peptide variant
<400>	734

Leu Leu Arg Ile Phe Arg Arg Ile Phe Lys Lys Leu Ser Arg Tyr Ile
1 5 10 15

Asn Ala Arg Ala Arg Arg Arg Lys Gln Ala Cys Thr Leu Pro Asn Gln
20 25 30

Leu Met Ala Ala Gly
35

<210>	735
<211>	39
<212>	PRT
<213>	Artificial Sequence
<220>	
<223>	Computer-generated peptide variant
<400>	735

Ile Leu Arg Leu Phe Lys Lys Tyr Met Lys Lys Ile Lys Lys Glu Ala
1 5 10 15

Leu Lys Leu Ala Gly Leu Arg Ala Val Ala Lys Asp Gln Pro His Ala
20 25 30

Lys Leu Met Asp Phe Pro Arg
35

<210> 736
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 736

Lys Leu Arg Leu Leu Lys Arg Phe Trp Lys Arg Leu His Cys Ser Arg
1 5 10 15

Ala Ser Lys Gln Lys Leu Leu
20

<210> 737
<211> 24
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 737

Arg Leu Lys Leu Leu Thr Lys Phe Trp Lys Lys Phe Lys Lys Leu Ala
1 5 10 15

Ser Ile Thr Asp Tyr Ala Leu Cys
20

<210> 738
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 738

Arg Met Lys Ile Leu Lys Arg Leu Leu Lys Phe Ile Pro Lys His Gly
1 5 10 15

Asp Ala Gln Ala
20

<210> 739
 <211> 72
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 739

Arg Leu Lys Leu Leu Pro Lys Leu Trp Lys Lys Met Lys Ser Leu Phe
 1 5 10 15

Lys Cys Arg Trp Glu Phe Met Ala Gly Phe Arg Cys Leu Leu Leu Lys
 20 25 30

Arg Thr Thr Asn Asn Pro Arg Ala Arg Val Ile Ala Arg Arg Leu Thr
 35 40 45

Trp Ile Arg Ala Glu Tyr Leu Phe Arg Lys Val Met Leu Val Arg Ala
 50 55 60

Ser Ser Ala Ala Arg Ala Arg Asn
 65 70

<210> 740
 <211> 27
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 740

Met Leu Lys Trp Phe Gln Lys Phe Leu Lys Arg Leu Lys Lys Leu Gln
 1 5 10 15

Arg Arg Ala Leu Glu Lys Ala Leu Trp Arg Glu
 20 25

<210> 741
 <211> 56
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 741

Lys Leu Lys Phe Phe Arg Arg Phe Ile Lys Leu Met Arg Cys Lys Lys
 1 5 10 15

Lys Val His Val Thr Glu Ile His Cys Ala Ala Leu His Leu Pro Pro
 20 25 30

Lys Ala Arg Asn Leu Lys Ala Ser Leu Thr Lys Lys Arg Val Arg Arg
 35 40 45

Ile Gly Ala Phe Lys Phe Leu Leu
 50 55

<210> 742
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 742

Lys Phe Arg Leu Leu Lys Arg Phe Leu Arg Arg Phe Arg Asn Leu Ala
 1 5 10 15

Ala Phe Ala Cys Leu Lys Gln Lys Pro Met Cys Ile
 20 25

<210> 743
 <211> 76
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 743

Lys Phe Lys Leu Tyr Lys Arg Met Phe Lys Arg Leu Lys Pro Gly Arg
 1 5 10 15

Ala Asp Lys Leu Ala Lys His Arg Gly His Leu Arg Tyr Ala Tyr Leu
 20 25 30

Ser Lys Leu His Leu Ala Lys Leu Arg Ser Cys His Cys Gly Leu Thr
 35 40 45

Arg Phe Gln His Ile Lys Lys Met Leu Asn Ala Leu Ala Asp Lys Leu

50 55 60
 Leu Ala Tyr Lys Arg Asp Arg Arg Lys Gln Met Asp
 65 70 75

 <210> 744
 <211> 70
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Computer-generated peptide variant

 <400> 744

 Leu Leu Arg Trp Leu Cys Arg Met Leu Lys Lys Ile Thr Arg Leu Leu
 1 5 10 15

 Glu Arg Lys Ala Arg Val Trp Phe Lys Ala Leu Val Met Ala Lys Arg
 20 25 30

 Pro Lys Lys Leu Tyr Arg Arg Val Arg Leu Lys Ala Arg Glu Lys Gln
 35 40 45

 Ala Ala Arg Ala Asp Met Ala Asn Leu Phe Asp Lys Glu Pro Ala Leu
 50 55 60

 Gln Glu Tyr Ala Leu Arg
 65 70

 <210> 745
 <211> 40
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Computer-generated peptide variant

 <400> 745

 Phe Trp Arg Trp Leu Arg Lys Phe Leu Lys Ile Phe Lys His Asp Leu
 1 5 10 15

 Ile Asp Arg Arg Leu Leu Cys Gly Ile Cys Ala Leu Cys Asn Arg Leu
 20 25 30

 Arg Ala Ala Arg Leu Arg Leu Phe
 35 40

<210> 746
 <211> 43
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 746

Leu Phe Arg Leu Phe Lys Lys Leu Leu Lys Arg Ile Lys Cys Ala Cys
 1 5 10 15

Leu Cys Met Ala Lys Glu Asn Pro Ser Leu Leu Thr His Arg Ile His
 20 25 30

Lys Leu Ala Pro Lys Arg Asp Met Lys Ala Lys
 35 40

<210> 747
 <211> 42
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 747

Arg Leu Lys Trp Leu Thr Arg Tyr Ile Arg Arg Tyr Ser Arg Arg His
 1 5 10 15

Trp Ala Tyr Trp Lys Ala Ala Leu Arg Leu His Arg Ala Arg Val Ser
 20 25 30

His Leu Cys Arg Lys Ala Lys Ala Gln Gln
 35 40

<210> 748
 <211> 46
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 748

Arg Ile Arg Leu Met Lys Lys Leu Tyr Lys Leu Met Arg Lys Cys Gly
 1 5 10 15

Gly Ala Lys Lys Ala Met Leu Val Val Ser Ala Met Asp Ala Met Asp
 20 25 30

Leu Lys Leu Ala Trp Cys Leu Asp Leu Ala Met Arg Lys Lys
 35 40 45

<210> 749
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 749

Leu Tyr Arg Leu Leu Lys Lys Phe Tyr Lys Lys Leu Asn Lys Gln Arg
 1 5 10 15

Phe Leu Arg Gly Ala Gly Cys Lys Ala
 20 25

<210> 750
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 750

Lys Leu Arg Leu Leu Lys Lys Trp Leu Lys Arg Phe Arg Arg Asp Tyr
 1 5 10 15

Leu Ala Ile Asp Arg Asn Phe Arg Asp Ala Leu Leu Thr Ala
 20 25 30

<210> 751
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 751

Phe Ile Arg Met Trp Lys Arg Trp Phe Lys Arg Ile Lys Arg Ala His
 1 5 10 15

Leu Lys Lys Leu Thr Leu His Ile Lys Gln Ala Arg Leu Ala Ser Leu
 20 25 30

Phe His Ala Pro
 35

<210> 752
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 752

Phe Ile Lys Phe Phe Thr Arg Met Ile Lys Lys Leu Asn Arg Leu Arg
 1 5 10 15

Pro Leu Leu Leu Gln Lys Met Arg Ala Ser Leu Lys Ser Lys Arg Val
 20 25 30

Ala Met

<210> 753
 <211> 31
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 753

Lys Leu Lys Trp Leu Asn Lys Leu Ile Arg Arg Ile Arg His Leu Asp
 1 5 10 15

Arg Leu Ala Val Asp Phe Gly Leu Ala Phe Ala Ile Arg Gln Leu
 20 25 30

<210> 754
 <211> 93
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 754

Leu Phe Lys Leu Met Asn Arg Tyr Ile Lys Arg Leu Arg Lys Gln Ala
 1 5 10 15

Lys Glu Lys Leu Ala Val Leu Arg Ala Met Ala Leu Asp Arg Lys Ile
 20 25 30

Met Met Ala Glu Ala Ile Ala Ser Lys Ala Lys Gln Ala Lys Lys Met
 35 40 45

Ala Ala Glu Lys Ala Ala Ser Lys Gln Thr Ala Trp Leu Met Arg Ala
 50 55 60

Phe Ala Asp Lys Lys Lys Leu Ala Phe Leu Ala Arg Leu His Lys Asn
 65 70 75 80

Trp Phe Leu Arg Leu Arg Ser Pro Gly His Arg Lys Ala
 85 90

<210> 755

<211> 51

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 755

Lys Leu Arg Met Leu Arg Arg Tyr Leu Arg Lys Phe Arg Lys Ala Arg
 1 5 10 15

Gln Met Arg Ile Pro Leu Leu Lys Lys Ala Phe Val Lys Pro Leu Phe
 20 25 30

Ala Cys Thr Trp Arg Trp Asp Cys Leu Asp Arg Ala Gly Ala Tyr Leu
 35 40 45

Lys Asn Leu
 50

<210> 756

<211> 62

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 756

Lys Phe Arg Met Leu Arg Arg Met Ile Arg Lys Ile Lys Pro Lys Cys
 1 5 10 15

Leu Arg Leu Ala Lys Ala Trp Met Arg Leu Lys Ser Tyr Trp Arg Leu
 20 25 30

Leu Arg Lys Leu Ala Ala Tyr Thr Tyr Lys Lys Asn Tyr Thr Gln Ile
 35 40 45

Arg Ser Ala Thr Thr Leu Ile Asp Leu Arg His Ile Arg Ala
 50 55 60

<210> 757

<211> 45

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 757

Phe Phe Lys Tyr Leu Lys Arg Phe Trp Lys Arg Leu Lys Lys Ala Asp
 1 5 10 15

Trp Cys Glu Lys Met Leu Ala Glu Lys Ala Lys Phe Asn Lys Tyr Leu
 20 25 30

Cys Leu Gly Ala Met Ala Ala Lys Trp Gln Lys Arg Arg
 35 40 45

<210> 758

<211> 53

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 758

Arg Met Lys Phe Phe Pro Arg Phe Leu Lys Lys Phe Lys Pro Lys Ala
 1 5 10 15

Arg Asn Arg Gln Leu Ala Lys Arg Ala Lys Lys Arg Ala Leu Lys His
 20 25 30

His Leu Gln Ala Ala Ala Lys Arg Lys Leu Ala Glu Trp Leu Ala Trp
 35 40 45

Leu Glu Lys Leu Trp
 50

<210> 759
 <211> 44
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 759

Arg Leu Lys Trp Leu Pro Lys Leu Leu Arg Phe Leu Lys Thr Leu Arg
 1 5 10 15

Arg Asn Leu Lys Pro Trp Val Lys Ala Leu Met Leu Lys Asp Leu Lys
 20 25 30

Lys Ala Leu Glu Leu Ala Cys Gly Ala Met Ser Glu
 35 40

<210> 760
 <211> 94
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 760

Leu Leu Lys Trp Phe Arg Arg Leu Met Lys Leu Leu Lys Arg Leu Leu
 1 5 10 15

Leu Ile Met Arg Lys His His Asn Asp Pro Lys Leu Tyr His Gln Arg
 20 25 30

Val Met Ala Lys His Ala Asp Ala Asn Lys Pro Lys Tyr Ala Lys Met
 35 40 45

Leu Arg Lys Gln Ala Cys Pro Arg Arg Trp Leu Asp His Glu Ala Gln
 50 55 60

Leu Gln Lys Lys Ile Ile Ala Thr Ala Tyr Lys Val Pro Arg Ala Arg

1 5 10 15

Leu Lys Ala Ser
20

<210> 764
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 764

Tyr Met Arg Leu Leu Lys Lys Tyr Met Arg Met Leu Lys Arg Ala Pro
1 5 10 15

Phe Leu His Ala Arg Lys Gly
20

<210> 765
<211> 56
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 765

Phe Tyr Arg Phe Leu Arg Arg Phe Phe Arg Phe Leu Lys Ser Val Lys
1 5 10 15

Lys Lys Ala Trp Lys Lys Arg Ile Asp Met Tyr Met Leu Leu Leu Leu
20 25 30

Gln Ala Pro Leu Glu Thr Lys Ala Ile Leu Phe Lys Lys Arg Leu Lys
35 40 45

Leu Ile Thr Leu Arg Thr Phe Lys
50 55

<210> 766
<211> 36
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 766

Lys Phe Arg Phe Ile Arg Lys Tyr Leu Lys Phe Leu Lys Cys Thr Ala
 1 5 10 15

Leu Ala Lys Ala Trp Arg Ala Phe Arg Lys Phe Leu Trp Lys Cys Gly
 20 25 30

Gln Ala Tyr Arg
 35

<210> 767

<211> 61

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 767

Lys Leu Lys Tyr Trp Lys Arg Leu Leu Arg Leu Met Thr Arg Leu Arg
 1 5 10 15

Tyr Leu Ala Ile Ile Arg Asp Ile Leu Tyr Tyr Leu Leu Leu Pro Leu
 20 25 30

Lys Lys Lys Arg Ile Ser Leu Leu Arg Lys Ser Asp Lys Ala Ser Cys
 35 40 45

Lys Arg Cys Leu Glu Asn Asn Leu Gln Arg His Ala Ala
 50 55 60

<210> 768

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 768

Phe Leu Arg Ile Leu Arg Arg Ile Leu Lys Leu Leu Arg Lys Arg Asp
 1 5 10 15

Cys Cys Phe Arg Ala His Lys Glu Thr Leu Trp Ala Cys Arg Gln Arg
 20 25 30

Leu Cys Arg His Leu Ala Gln Gln
 35 40

<210> 769
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 769

Lys Leu Lys Tyr Leu Arg Lys Trp Phe Arg Arg Leu Lys His Met Leu
 1 5 10 15

Cys Gly Leu Ala Ala Lys
 20

<210> 770
 <211> 85
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 770

Phe Tyr Lys Ile Ile Arg Lys Met Met Lys Ile Leu Gln Ser Asp Gly
 1 5 10 15

Ala Val Ala Phe Leu Asn Tyr Asp Lys Lys His Gln Arg Trp Gln Arg
 20 25 30

Lys Ala Ala Leu Leu Lys Leu Leu Ala Ala Lys Trp Thr Arg Lys Leu
 35 40 45

Pro Ala Ser Lys Trp Leu Lys Lys Lys Ala Ala Arg Cys Ala Lys Lys
 50 55 60

Ile Val Lys Phe Glu Arg Trp Leu Lys Lys Phe Lys Leu Lys Lys Val
 65 70 75 80

Asn Lys Leu Lys Gln
 85

<210> 771

<211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 771

Arg Tyr Arg Trp Leu Arg Arg Trp Phe Arg Leu Tyr Ser Arg Asp Gly
 1 5 10 15

Leu Lys Thr Leu Gly Asn Gln Leu Lys Lys Arg Leu Leu Val Ala Gly
 20 25 30

Pro Leu Lys Arg
 35

<210> 772
 <211> 27
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 772

Leu Leu Arg Met Trp Gln Lys Tyr Leu Lys Leu Leu Lys Arg Arg Ser
 1 5 10 15

Arg Gln Gly Pro Met Arg Leu Ala Ile Gly Phe
 20 25

<210> 773
 <211> 73
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 773

Arg Phe Lys Phe Leu Arg Arg Ile Met Arg Ile Met Gln Lys Lys Ala
 1 5 10 15

Leu Leu Ala Leu Ser Ala Ile Tyr Phe Ser Ala Leu Arg Ile Ala Ala
 20 25 30

Arg Lys Phe Ala Gln Gln Leu Arg Ala Ser Met Ala Ser Ala Lys Trp

35 40 45

Arg Gly Lys Leu Lys Thr Ala Lys Ser Lys Ile Lys Arg Pro Leu Lys
 50 55 60

Pro Val Lys Asn Leu Ala Leu Ala Gln
 65 70

<210> 774
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 774

Leu Ile Arg Ile Trp Arg Arg Phe Leu Arg Lys Met Cys Thr Phe Leu
 1 5 10 15

Leu Ala Ala Met Leu Ala Ala Arg Arg Ser Lys Leu Asn Lys Trp Phe
 20 25 30

Gly Ile Arg Asn
 35

<210> 775
 <211> 55
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 775

Lys Met Lys Trp Tyr Lys Lys Leu Trp Lys Arg Leu Asn Lys Met Asn
 1 5 10 15

Leu Ala His Leu Arg Gln Lys Leu Phe Lys Lys Leu Tyr Met Ser Asp
 20 25 30

Gly Ala Ala Ala Val Cys Arg Leu Glu Leu Arg Leu Trp Gln Lys Arg
 35 40 45

Lys Leu Gln Pro Ala Thr Thr
 50 55

<210> 776
 <211> 64
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 776

Lys Ile Lys Tyr Phe Lys Arg Leu Met Lys Leu Phe Lys Asn Leu Leu
 1 5 10 15

Arg Arg Ala Ala Asn Arg Arg Ser Pro Leu Glu Ala Ala Asn Cys Ala
 20 25 30

Gly Gly Lys Val Asp Pro Leu Ala Leu Ala Ala Arg Lys Arg Gln Gly
 35 40 45

Lys His Thr Lys Thr Leu Ile Leu Lys Leu Asp Asn Lys Ile Lys Asp
 50 55 60

<210> 777
 <211> 47
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 777

Lys Tyr Lys Leu Leu Arg Arg Leu Phe Arg Leu Met His Arg Trp Gly
 1 5 10 15

Ala Ser Gln Leu Gln Leu Ala Gly Asp Asn Ala Lys Arg Leu Trp Phe
 20 25 30

Ala Arg Val Arg Lys Gln Leu Tyr Leu Arg Lys Thr Arg Glu Gln
 35 40 45

<210> 778
 <211> 56
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 778

Phe Leu Lys Trp Tyr Lys Lys Trp Leu Lys Lys Leu Cys Lys Ser Asp
 1 5 10 15

Ala Ala Ala Leu Lys Arg Arg Glu Leu Ala Thr Val Ala Leu Gly Arg
 20 25 30

Phe Phe Cys Lys Ala Leu Ala Ser Gln Cys Arg Ser Arg Ala Lys Thr
 35 40 45

Val Lys Lys Leu Trp Ser Arg Lys
 50 55

<210> 779
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 779

Lys Ile Lys Leu Leu Pro Lys Phe Leu Arg Ile Phe Lys Arg Phe Phe
 1 5 10 15

Arg Leu Asp Trp Tyr Glu Lys Ala Ala Ala Lys Lys Trp Leu Gly Leu
 20 25 30

Gln Ile Arg Leu
 35

<210> 780
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 780

Met Leu Arg Leu Ile Lys Arg Ile Tyr Lys Lys Trp Lys Gln Asp Leu
 1 5 10 15

Ala Tyr Met Gly Ala Lys Tyr Pro Trp Leu Lys Ala His Arg Ala Arg
 20 25 30

Leu

<210> 781
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 781

Met Leu Arg Tyr Leu Pro Arg Leu Tyr Lys Leu Phe Pro Cys Arg Glu
 1 5 10 15

Lys Arg Pro Gly Leu Glu Thr Arg Ala Leu Lys Lys Ala Leu Asp Val
 20 25 30

<210> 782
 <211> 45
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 782

Lys Leu Lys Leu Tyr Arg Lys Phe Leu Lys Phe Leu Lys Lys Lys Ala
 1 5 10 15

Ala Ile Gly Arg Ala Ile Pro Lys Trp Ala Leu Ala Lys Leu Gly Ala
 20 25 30

Cys Ala Leu Asp Asp Leu Ile Thr Lys Gln Phe Thr Glu
 35 40 45

<210> 783
 <211> 43
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 783

Lys Leu Arg Ile Phe Arg Lys Trp Leu Arg Arg Leu Lys Gln Trp Phe
 1 5 10 15

Leu Ile Leu Lys Tyr Ala Tyr His Ala Met His Ala Phe Ala Leu Tyr

20

25

30

Arg Arg Ile Cys Arg Lys Phe Lys Gly Lys Asn
 35 40

<210> 784

<211> 70

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 784

Lys Phe Arg Trp Tyr Arg Arg Tyr Tyr Lys Leu Phe Cys Gln Ala His
 1 5 10 15

Asp Leu Cys Ala Lys Cys Met Pro Phe Cys Arg Ile Ile Ile Lys Arg
 20 25 30

Arg Leu Arg Leu Leu Val Ala Gly Lys Lys His Ala Ala Ala Phe Ala
 35 40 45

Lys Lys Lys Ala Arg Arg Arg Leu Gly Lys Asp Ala Gln Lys Phe Asn
 50 55 60

Ala Lys Gln Asn Phe Ala
 65 70

<210> 785

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 785

Leu Tyr Lys Phe Ile Arg Lys Leu Trp Lys Ile Phe Lys Thr Leu Gly
 1 5 10 15

Ala Leu Ser Arg
 20

<210> 786

<211> 72

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 786

Lys Ile Arg Phe Phe Lys Arg Leu Leu Arg Met Tyr Ser Arg Ala Ala
1 5 10 15

Tyr Tyr Ala His Ala Arg Leu Leu Phe Cys Tyr Phe Glu Ala Asp Ala
20 25 30

Ala Lys Arg Glu Val Tyr Arg Leu Ser Ala Ala Leu Ile Gly Glu Leu
35 40 45

Arg Leu Leu Pro Arg Ala Arg Asp Arg Ile His Gln Arg Cys Gln Ala
50 55 60

Arg Thr Lys Gln Arg Leu Ala Gly
65 70

<210> 787

<211> 61

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 787

Ile Ile Lys Phe Leu Lys Arg Phe Ile Lys Lys Trp His Thr Leu Ser
1 5 10 15

Pro Gly Ala Met Lys Arg Ala Tyr Val Asn Lys Leu Ser Tyr Leu Leu
20 25 30

His Leu Lys Met Leu Arg Lys Phe Gln Arg Trp Lys Leu Ala Arg Lys
35 40 45

Arg Arg Ala Lys Lys Leu Ile Lys Leu Pro Trp Phe Thr
50 55 60

<210> 788

<211> 42

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 788

Met	Met	Arg	Leu	Leu	Thr	Lys	Ile	Leu	Arg	Leu	Leu	Lys	Lys	Leu	Arg
1				5					10					15	

Trp	Ala	Tyr	Phe	His	Arg	Gly	Ala	Arg	Gln	Tyr	Leu	Lys	Thr	Ala	Phe
			20					25					30		

Lys	Asp	Glu	Lys	Gly	Trp	Arg	Arg	Lys	Phe
		35					40		

<210> 789

<211> 38

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 789

Lys	Trp	Lys	Phe	Tyr	Thr	Arg	Phe	Leu	Arg	Tyr	Ile	Gln	Arg	Ile	Arg
1				5					10					15	

Lys	Leu	Phe	Tyr	Ala	Ala	Ile	Tyr	Lys	Trp	Arg	Thr	Ala	Ala	Pro	Leu
			20					25					30		

Leu	Arg	Lys	Lys	Ala	His
		35			

<210> 790

<211> 89

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 790

Arg	Trp	Arg	Phe	Leu	Lys	Lys	Leu	Leu	Lys	Leu	Met	Arg	Lys	Gln	Tyr
1				5					10					15	

Trp	His	His	Tyr	Ala	Leu	Ala	Arg	Arg	Ala	Arg	Glu	Lys	Leu	Asn	Phe
			20					25					30		

Lys	Met	Leu	Lys	Trp	Arg	Asp	Lys	Lys	Lys	His	Arg	Arg	Leu	Leu	Ile
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

35 40 45
 Pro Leu Leu Leu Ile Pro Arg Arg Cys Pro Leu Lys His Ala Ala Trp
 50 55 60
 Met Arg Lys Gly Phe Trp Leu Pro Gly Trp Leu Pro Ala Leu Thr Trp
 65 70 75 80
 Asn Ala Asp Asn Leu Arg Phe Ala Ile
 85

<210> 791
 <211> 32
 <212> PRT
 <213> Artificial Sequence
 <220>
 <223> Computer-generated peptide variant
 <400> 791

Arg Ile Lys Leu Leu Lys Arg Leu Phe Lys Met Phe Arg Lys Pro Lys
 1 5 10 15

Ser Gln Ala Ala Leu Pro Gly Asn Lys Pro Ala Thr Cys Trp Arg Ala
 20 25 30

<210> 792
 <211> 90
 <212> PRT
 <213> Artificial Sequence
 <220>
 <223> Computer-generated peptide variant
 <400> 792

Ile Leu Lys Leu Met Arg Arg Leu Leu Lys Lys Leu Cys Gln Ala Lys
 1 5 10 15

Ala Glu Phe Ala Ala Glu Ala Val Ala Asp Trp Arg Ser Leu Trp Ala
 20 25 30

Arg Ala Lys Arg Ala Leu Gln Thr Leu Gly Ser Leu Ile Met Ala Ile
 35 40 45

Pro Phe Arg Arg Arg Pro Lys Val Ile Ala Lys Val Pro Gln Met Leu
 50 55 60

Cys Arg Ala Pro Leu Arg Arg Leu Ala Gly Phe Trp Ala Ala Pro Ser
 65 70 75 80

Lys Ile Arg Gly Lys Arg Arg Lys His Arg
 85 90

<210> 793
 <211> 41
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 793

Lys Leu Lys Phe Phe Arg Lys Met Phe Lys Lys Phe Lys Arg Arg Ala
 1 5 10 15

Leu Arg Arg Asp Leu Leu Leu Arg Gly Trp Asn Ala His Phe Gly Ile
 20 25 30

Gly Lys Ile Met Ala Ala Leu Lys Trp
 35 40

<210> 794
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 794

Leu Leu Lys Phe Met Lys Arg Leu Ile Lys Trp Leu Lys Ser Leu Leu
 1 5 10 15

Arg His His Gly Arg Arg Ala Thr
 20

<210> 795
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 795

Lys Tyr Lys Phe Trp His Lys Phe Leu Lys Arg Trp Lys Asn Asn Leu
 1 5 10 15

Ala Leu Leu Ala Pro Ala
 20

<210> 796
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 796

Lys Ile Lys Leu Leu Thr Lys Leu Leu Arg Phe Leu Asn Ser Val Val
 1 5 10 15

Gly Arg Leu Arg Ile Arg
 20

<210> 797
 <211> 71
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 797

Ile Tyr Arg Tyr Trp Thr Lys Leu Tyr Arg Trp Trp Arg Arg Lys Ala
 1 5 10 15

Lys Cys Ala Val Lys Gly Ala Asp Lys Arg Thr Cys Lys Pro Arg Ala
 20 25 30

Lys Thr Lys Phe Met Ala Leu Ser Leu Lys Met Leu Ala Leu Ala Arg
 35 40 45

Ala Val Asp Arg Leu Ala Trp Trp Lys Ser Ser Arg Ala Pro Ala Glu
 50 55 60

Ala Glu Ala Pro Ile Arg Arg
 65 70

<210> 798

<211> 38
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 798

Tyr Tyr Arg Met Ile Thr Arg Ile Trp Arg Arg Leu Ser Lys Lys Pro
 1 5 10 15

Ala Lys Trp Trp Gln Ala Lys Ala Leu Phe Ala Leu Lys Thr Asp Ala
 20 25 30

Leu Gly Lys Lys Lys Phe
 35

<210> 799
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 799

Arg Phe Arg Tyr Leu Arg Arg Ile Tyr Arg Arg Tyr Ser Arg Leu Ala
 1 5 10 15

Lys Lys Ser Ala Lys Ala Ile Cys Ala Tyr Ala Ala Tyr
 20 25

<210> 800
 <211> 65
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 800

Phe Met Lys Leu Phe Lys Arg Phe Leu Arg Phe Leu Thr Asn Trp Arg
 1 5 10 15

Ala Ile Lys Asp Lys Leu Ala Arg Tyr Gln Leu Lys Leu Gln Cys Pro
 20 25 30

Arg Arg Arg Arg Lys Leu Arg Gln Lys Val Leu Leu Gly Tyr Cys Arg

35

40

45

Leu Asp Tyr Lys Ala Gly Ala Cys Leu Asp Ala Cys Leu Leu Ala Pro
 50 55 60

Ile
 65

<210> 801
 <211> 68
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 801

Lys Leu Lys Tyr Phe Arg Arg Met Leu Lys Lys Tyr Arg Lys Val Ala
 1 5 10 15

Pro Ile Ala Arg Lys Trp His Leu Glu Lys Leu Asn Ile Val Lys Thr
 20 25 30

His Arg Ala Cys Asn Arg Ala Leu Thr Ala Lys Leu Leu Pro Leu Phe
 35 40 45

Met Leu Leu Trp Lys Tyr Arg Lys Asp Val Arg Ala His Lys Val Leu
 50 55 60

Lys Leu Ala Gly
 65

<210> 802
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 802

Lys Phe Lys Leu Leu Asn Lys Phe Ile Arg Leu Leu His Lys Arg Ile
 1 5 10 15

His Lys Trp Ala Asp Lys Ala Thr
 20

<210> 803
 <211> 92
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 803

Ile Met Arg Leu Phe Cys Lys Leu Phe Lys Arg Trp Arg Arg Arg Ala
 1 5 10 15

Phe Ala Asn Ile Tyr Arg Gly Cys Phe Leu Leu Thr Leu Pro Asn Asp
 20 25 30

Leu Lys Cys Cys Lys Glu Ser Ile Cys Ile Lys Phe Leu Lys Arg His
 35 40 45

Leu Leu His Ala Leu Met Ala Ala Met Lys Gly Arg Arg Thr Ala Lys
 50 55 60

Ala Ile Thr Ala Ala Gln Val Arg Ala Lys Leu Leu Ile Val Leu Leu
 65 70 75 80

Glu Ile Arg Ala Ala Ala Leu Arg Lys Leu Leu Lys
 85 90

<210> 804
 <211> 39
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 804

Leu Phe Lys Leu Phe Lys Arg Trp Tyr Arg Arg Ile Arg Lys Arg Arg
 1 5 10 15

Gln Arg Cys Tyr Pro Thr Glu Leu Ile Ser Asp Met Ala Ala Thr Leu
 20 25 30

Phe Arg Ala Leu Ala Arg Leu
 35

<210> 805

<211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 805

Leu Phe Lys Phe Leu His Lys Ile Leu Arg Lys Leu Lys Gln Asn Lys
 1 5 10 15

Ser Leu Thr Ile
 20

<210> 806
 <211> 86
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 806

Leu Tyr Lys Ile Leu His Lys Met Leu Lys Arg Leu Arg Asn Leu Ser
 1 5 10 15

Ala Arg Val Arg Thr Lys His Trp Gly Leu Lys Val Asp Ala Ala Pro
 20 25 30

Lys Lys Ile Leu Asn Leu Arg Glu Ala Leu Pro Tyr Leu Arg Asp Ile
 35 40 45

Ala His Lys Lys Leu Arg Ile Lys Trp Phe Lys Leu Trp Asn Asn Glu
 50 55 60

Leu Trp Ser Leu Ala Ala Met His Arg Lys Leu Arg Met Ser His Leu
 65 70 75 80

Lys Tyr Arg Arg Lys Asp
 85

<210> 807
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 807

Arg Leu Lys Leu Leu Lys Arg Met Leu Lys Lys Ile Gln Lys Asp Gln
1 5 10 15

Gln Cys Ser Ala Thr Asn Ala Lys Val Gln Ala Arg Phe Ala Lys Asn
20 25 30

Leu

<210> 808

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 808

Lys Trp Arg Leu Leu Asn Arg Tyr Leu Arg Ile Leu Lys Arg Gly Leu
1 5 10 15

Asn Met Asp Ala
20

<210> 809

<211> 55

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 809

Arg Tyr Arg Trp Phe Thr Lys Phe Leu Lys Lys Phe Thr Pro Trp Ala
1 5 10 15

Glu Val Lys Lys Lys Leu Leu Ala Arg Leu Asp Ile Leu Gly Lys Ser
20 25 30

Met Phe Lys Lys Arg Ala Leu Gln Ala Ala Lys Leu Arg Phe Lys Gln
35 40 45

Thr Thr Arg Ile Ala Trp Leu
50 55

<210> 810
 <211> 43
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 810

Lys Leu Arg Met Met Lys Arg Tyr Tyr Arg Lys Leu Lys Arg Met Leu
 1 5 10 15

Leu Leu Asp Thr Arg Trp His Ala Ala Ala Leu Ala Asp Tyr Ala Leu
 20 25 30

Lys Leu Ala Cys Leu His Lys Ser Gly Lys Leu
 35 40

<210> 811
 <211> 48
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 811

Leu Trp Lys Leu Phe Gln Lys Ile Ile Arg Tyr Tyr Cys Arg Lys Arg
 1 5 10 15

Trp Leu Lys Lys Lys Ala Pro Arg Thr Val Ala Met Arg Pro Pro Glu
 20 25 30

Ala Ala Leu Lys Ala Cys Val Asp Leu Leu Arg Lys Met Lys Lys Leu
 35 40 45

<210> 812
 <211> 56
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 812

Leu Phe Arg Leu Tyr Lys Lys Ile Ile Lys Arg Leu His Asn Leu Ile
 1 5 10 15

Lys Leu Lys Leu Lys Ala Leu Lys Ala Gln Lys Met Arg Leu Lys Val
 20 25 30

Lys Ser Met Leu Leu Leu Arg Arg Leu Gly Gly Asp Ala Lys Arg Tyr
 35 40 45

Glu Arg Met Pro Cys Trp Gly Tyr
 50 55

<210> 813
 <211> 80
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 813

Tyr Ile Lys Trp Phe Lys Arg Leu Tyr Arg Lys Leu Asn Lys Cys Ala
 1 5 10 15

Val Tyr Arg Cys Arg Asp Ala Lys Phe Lys Leu Leu Phe Lys Cys His
 20 25 30

Gln Gly Cys Leu Leu Arg Trp Phe Asp Glu Lys Phe Cys Arg Ala Leu
 35 40 45

Leu Leu Leu Lys Arg Phe Leu Leu Thr Pro Val Thr Lys Ala Lys Ala
 50 55 60

Met Lys Ala Leu Ala Gln Ala Lys Arg Arg Lys Asp Trp Arg Cys Ala
 65 70 75 80

<210> 814
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 814

Tyr Leu Arg Leu Tyr Ser Lys Phe Trp Lys Arg Tyr Arg Arg Leu Ser
 1 5 10 15

Pro His Ala Lys Ser Leu Lys Pro Arg Asp Leu Pro Ala

20

25

<210> 815
 <211> 51
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 815

Leu Leu Lys Trp Ile Lys Arg Ile Leu Lys Arg Leu Arg Lys Tyr Ala
 1 5 10 15

Ala Ala Asn Ile Ile Leu Tyr Leu Arg Ala Ile Gln Thr Arg Leu Asp
 20 25 30

Leu Ile Asn Arg Arg Glu Arg Glu Val Cys Arg Lys Ala Leu Cys Met
 35 40 45

Ala Trp Pro
 50

<210> 816
 <211> 37
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 816

Arg Leu Arg Leu Phe Thr Arg Leu Met Arg Lys Phe Pro Gln Lys Ala
 1 5 10 15

Ala Leu Ala Phe Glu Ala Asn Arg Thr Asn Phe Ala Lys Arg Lys Ala
 20 25 30

Leu Pro Ala Gly Tyr
 35

<210> 817
 <211> 69
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 817

Arg Trp Arg Met Leu Arg Arg Phe Ile Lys Lys Leu Cys Lys Phe Asn
1 5 10 15

Gly Arg Glu Thr Ala Ala Gln Arg Leu Lys Pro Leu Val Ala Leu Gln
20 25 30

Arg Arg Ala Met Lys Tyr Glu Leu Arg Met Arg Phe Lys Leu Arg Asp
35 40 45

Ala Asp Arg Leu Ile Lys Cys Ala Val Ile Asp Asn Gln Leu Lys Ala
50 55 60

His Met Arg Val Lys
65

<210> 818

<211> 38

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 818

Lys Ile Lys Leu Tyr Arg Lys Leu Leu Lys Lys Phe Lys Thr Thr Lys
1 5 10 15

Asn Pro Ser Arg Arg Arg Leu Thr Cys Lys Tyr Asn Leu Leu Leu Leu
20 25 30

Ala His Asn Ile Leu Ser
35

<210> 819

<211> 49

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 819

Lys Trp Lys Leu Leu Lys Arg Phe Met Arg Phe Phe Arg Pro Lys Gln
1 5 10 15

Leu Leu Leu Leu Gln Lys Cys Leu Phe Ala Cys Leu Lys Arg Tyr Leu
 20 25 30

Ile Arg Trp Trp Ala Phe Phe Arg Asn Trp Ile Arg Leu Met Tyr Lys
 35 40 45

Arg

<210> 820
 <211> 63
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 820

Lys Trp Arg Trp Phe Cys Lys Phe Tyr Arg Arg Leu Lys Gln Arg Leu
 1 5 10 15

Leu Gln Ala Pro His Lys Trp Glu Thr Leu Ala Lys Arg Cys Leu Arg
 20 25 30

Ala Glu Ala Leu Glu Thr Ala Ile Val Arg Lys Leu Arg Val Asn Lys
 35 40 45

Arg His Lys Ala Gly Asp Leu His Arg Leu Lys Phe Leu Leu Met
 50 55 60

<210> 821
 <211> 45
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 821

Arg Phe Arg Leu Ile Arg Arg Leu Leu Arg Arg Ile Lys Thr Leu Leu
 1 5 10 15

Leu Ala Gln Arg Arg Tyr Thr Lys Met Tyr Leu Trp Arg Ala Lys Ala
 20 25 30

Ala Gly Glu Trp Arg Ile Lys Trp Leu Gly His Met Asp

35

40

45

<210> 822

<211> 52

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 822

Trp Leu Lys Trp Leu Arg Arg Leu Phe Lys Lys Leu Lys Thr Arg Leu
 1 5 10 15

Val Asn Leu Leu Ala Leu Leu Asp Cys Arg Cys Lys Gly Glu Gln Lys
 20 25 30

Thr Gly Ala Lys Cys Tyr Arg Gly Lys Lys Leu Arg Cys Leu Ala Leu
 35 40 45

Leu Leu Gln Pro
 50

<210> 823

<211> 31

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 823

Lys Tyr Lys Phe Ile Arg Lys Leu Trp Arg Leu Leu Lys Arg Ala Thr
 1 5 10 15

Ala Leu Arg Phe Leu Gly Pro Ile Thr Lys Thr Ala Glu Leu Phe
 20 25 30

<210> 824

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 824

Arg Leu Arg Phe Trp Cys Lys Ile Leu Lys Tyr Leu Arg Gln His Asp

1 5 10 15

Cys Ala Leu Arg Lys Ala Tyr
20

<210> 825
<211> 82
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 825

Ile Leu Arg Ile Leu Thr Arg Phe Leu Arg Lys Ile Ser Pro Ala Arg
1 5 10 15

Glu Lys Arg Val Leu Arg Leu Tyr Arg Leu Ala Ala Pro Ile Arg Leu
20 25 30

Lys Arg Leu Asn Leu Val Ala Arg Arg Ile Ala Arg Ala Asn Glu Gly
35 40 45

Leu Lys Lys Leu Trp Trp Lys Tyr Thr Arg Lys Glu Lys Lys Trp Met
50 55 60

Ala Trp Ala Leu Thr Leu Lys Trp Pro Gln Ile Leu Lys Leu Leu Lys
65 70 75 80

Phe Arg

<210> 826
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 826

Leu Met Lys Phe Phe Arg Lys Trp Phe Lys Lys Leu Lys Gln Lys Asn
1 5 10 15

Ala Arg Met Pro Leu Leu Thr Ala Arg Asp Leu Leu
20 25

<210> 827
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 827

Lys Leu Arg Leu Leu Lys Lys Leu Leu Arg Trp Trp Lys Cys Gln Ala
 1 5 10 15

Ile Trp Gly Ala Gly Leu Leu Arg Ser Lys His Glu Leu
 20 25

<210> 828
 <211> 27
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 828

Lys Phe Arg Met Tyr Arg Arg Leu Phe Lys Lys Leu Ser Lys Val Asn
 1 5 10 15

Leu Val Leu Glu Phe Leu Cys Glu Leu Leu Arg
 20 25

<210> 829
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 829

Leu Tyr Lys Leu Leu Pro Lys Tyr Met Arg Lys Leu Ser Arg Asn Lys
 1 5 10 15

Leu Gly Arg Tyr Asn
 20

<210> 830
 <211> 35
 <212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 830

Lys Leu Lys Phe Trp Gln Lys Tyr Trp Arg Tyr Phe Arg Arg Ala Arg
1 5 10 15

Ala Gly Leu Met Val Leu Lys Thr Ser Leu Val Glu Arg Ala Arg Ala
20 25 30

Arg Leu Lys
35

<210> 831

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 831

Tyr Leu Arg Leu Trp His Arg Leu Leu Lys Arg Tyr Asn Cys Ala Lys
1 5 10 15

Ser Lys Lys Val Met Lys His Arg Val Trp Ala Ala Lys Trp Ala Ile
20 25 30

Trp Tyr Val Ala Lys Ala Arg His
35 40

<210> 832

<211> 51

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 832

Lys Leu Lys Leu Ile Lys Arg Tyr Phe Arg Leu Met Arg Arg Trp Met
1 5 10 15

Pro Gly Ala Trp Leu Lys Ala Ala Leu His Asp Lys Arg Ser Cys Thr
20 25 30

Leu Cys Arg Ala Arg Glu Lys Leu Asp Lys Lys Leu Asp Thr Arg Leu
 35 40 45

Glu Ser Asn
 50

<210> 833
 <211> 50
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 833

Lys Phe Arg Trp Phe Lys Lys Phe Leu Lys Phe Phe Ser Lys Arg Asn
 1 5 10 15

Arg Asn Ala Lys Ala Lys Asn Leu Leu Tyr Arg Ala Leu Pro Ala Phe
 20 25 30

Leu Ala Ala Ala Arg Leu Gln Lys Lys Asn Lys Lys Glu Thr His His
 35 40 45

Arg Leu
 50

<210> 834
 <211> 67
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 834

Lys Trp Lys Trp Tyr Lys Arg Tyr Leu Arg Arg Phe Gln Ser Leu Leu
 1 5 10 15

Cys Leu Lys Leu Asp Lys Leu Ala Leu Ala Lys Lys Met His Ser His
 20 25 30

Glu Cys Leu Leu Arg Lys Leu Leu Val Ile Ser Lys Leu Met Asp Ser
 35 40 45

Gln Arg Leu Lys Arg Ile Ala Val Cys Ala Leu Lys Arg Phe Ile Met

50

55

60

Asp Arg Arg
65

<210> 835
<211> 95
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 835

Arg Leu Lys Phe Leu Lys Lys Trp Phe Arg Leu Phe Lys Lys Gly Cys
1 5 10 15

Lys Arg Ala Arg Ala Ala Lys Thr Ala Val Arg Asp Val Arg Lys Leu
20 25 30

Pro Ala Thr Pro Val Gly Gly Cys His Asn Pro Ala Tyr Glu Leu Ala
35 40 45

Gly Ala Ala Lys Leu Cys Arg Arg Arg Ala Ala Pro Lys Lys Gln Leu
50 55 60

Arg Arg Lys Arg Lys Leu Cys Leu Gln Ala Leu Val Val Phe His Ile
65 70 75 80

Arg Met Lys Arg Ser Arg Arg Arg Trp Leu Ala Ala Ala Trp Asp
85 90 95

<210> 836
<211> 55
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 836

Tyr Ile Arg Trp Leu Ser Arg Phe Leu Arg Lys Leu Arg Lys Leu Gly
1 5 10 15

Phe His Gly Ser Leu Asp Ala Phe Arg Asp Ile Arg Arg Lys Ala Lys
20 25 30

Lys Thr Leu Ala Ala Met Met Arg Gln Asp Arg Lys Lys Ala Lys Lys
 35 40 45

Leu Thr His Gly Thr Leu Leu
 50 55

<210> 837

<211> 46

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 837

Arg Leu Lys Leu Leu Lys Lys Leu Leu Arg Arg Trp Lys Arg Lys Lys
 1 5 10 15

Asp Arg Ala Val Glu Leu Leu Met Leu His Val Leu Arg Lys Val Leu
 20 25 30

Lys Leu Lys Pro His Pro Ala Asn Ala Arg Ser Met Asp Ala
 35 40 45

<210> 838

<211> 92

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 838

Met Met Lys Tyr Met Arg Arg Phe Met Lys Lys Leu Asn Ser Trp Lys
 1 5 10 15

Ser Leu Ala Cys Cys Gln Leu Lys Glu Lys Arg Lys Val Ile Gly Ser
 20 25 30

Met Lys Leu Leu Asn Cys Arg Trp Asp Lys Trp Leu Arg Lys Lys Arg
 35 40 45

Trp Val Arg Ala Arg Gly Gln Ala Leu Ile Asp Leu Arg Ala Arg Leu
 50 55 60

Leu Asn Ala Leu Gly Lys Met Arg Glu Ala Ala Gln Lys Ala Ala Cys

1 5 10 15

Leu Ala Ala Ala Leu Gly Lys Trp Leu Arg Arg Ser Leu Tyr Lys Phe

 20 25 30

Gly Pro Met Leu Trp Lys Arg Ile Leu Lys Ala
35 40

<210>	842
<211>	45
<212>	PRT
<213>	Artificial Sequence

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<220>
<223> Computer-generated peptide variant
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<400> 842

Arg Met Lys Phe Tyr Lys Lys Phe Leu Lys Leu Ile Arg Lys Ala Leu
1 5 10 15

Leu Ser Leu Cys Met Arg Leu His Val Ala Trp Arg Cys Ser Leu His
20 25 30

Lys Arg Asp Ala Ala Ala Lys Asn Arg Glu Ala Ala Arg
35 40 45

<210>	843
<211>	41
<212>	PRT
<213>	Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 843

Lys Ile Lys Leu Trp Arg Arg Met Leu Lys Tyr Trp Lys His Lys Arg
1 5 10 15

Ala Trp Leu Arg Leu Lys Gln Lys Leu Ala Arg Ala Asp Ala Ala Thr
20 25 30

Trp Asn Ser Asn Gly Tyr Pro Gly Lys
35 40

$\langle 210 \rangle$	844
$\langle 211 \rangle$	57
$\langle 212 \rangle$	PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 844

Leu Leu Arg Phe Leu Lys Arg Leu Leu Arg Lys Met Arg Lys Gln His
1 5 10 15

His Lys Arg Tyr Arg His Arg Leu Asp Ala Arg Phe His Ser Ala Lys
20 25 30

Glu Arg Leu Ala Arg Asn Phe Ala Trp Gly Leu Ala Phe Leu Pro Leu
35 40 45

Lys Lys Arg Arg Val Cys Trp Ala Arg
50 55

<210> 845

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 845

Met Leu Lys Tyr Phe His Lys Tyr Leu Lys Met Phe Arg Lys Ala Ala
1 5 10 15

Arg Tyr Met Lys Ala Trp Leu Arg Glu Arg Leu Leu Ser Glu
20 25 30

<210> 846

<211> 47

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 846

Lys Leu Lys Ile Ile Thr Lys Leu Trp Lys Lys Leu Arg Lys Asn His
1 5 10 15

Ile Lys Arg Lys Leu His Ser Gly Leu Arg Leu Glu Ala Leu Glu Asn
20 25 30

Ala Ala Pro Leu Phe Leu Arg Leu Arg Leu Cys Lys Asp Ala Phe
 35 40 45

<210> 847
 <211> 52
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 847

Leu Leu Arg Ile Ile Thr Arg Phe Leu Lys Phe Phe Lys Lys Ala Leu
 1 5 10 15

Phe His Asn Leu Arg Pro Leu Tyr Asn Ser Lys Lys Arg Glu Arg Lys
 20 25 30

Arg Ala Arg Leu Arg Val Leu Asn Leu Arg Ser Ile Arg Phe Asn Lys
 35 40 45

Met Lys Ala Leu
 50

<210> 848
 <211> 65
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 848

Ile Trp Arg Met Trp Gln Lys Leu Leu Lys Trp Ile Lys Arg Gly Gln
 1 5 10 15

Val Ala Met Leu Ala Ala Lys Arg Leu Cys Ala Leu Ala Lys Asp Met
 20 25 30

Lys Val Lys Asp Arg Leu Gln Lys Leu Leu Leu Ala Arg Leu Lys Ala
 35 40 45

Asn Gly Asp Gly Leu Leu Arg Arg Trp Asp Leu Tyr Ala Arg Ala Thr
 50 55 60

Ala

65

<210> 849
 <211> 59
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 849

Lys Leu Lys Tyr Phe His Arg Tyr Met Lys Lys Leu Arg Cys Ala Ala
 1 5 10 15

Cys Trp Ala Tyr Gln Leu Gly Lys Ala Lys Leu Leu Ala Arg Lys Ser
 20 25 30

Val Lys Arg Ala Lys Ala Asn Phe Trp Phe Leu His Arg Tyr Phe Val
 35 40 45

Arg Arg Arg Leu Lys Leu Lys Val Leu Val Lys
 50 55

<210> 850
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 850

Met Tyr Lys Phe Leu Arg Lys Met Leu Arg Lys Phe Ser Arg Pro Leu
 1 5 10 15

Ala Pro Ser Arg Ala Leu His Pro Lys Met Ala Phe Ala Lys Arg Val
 20 25 30

Ala Leu

<210> 851
 <211> 45
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 851

Phe	Phe	Arg	Leu	Ile	Lys	Arg	Ile	Phe	Arg	Leu	Leu	Pro	Lys	Gly	Ala
1				5					10					15	

Gln	Lys	Ala	Trp	Lys	Trp	Arg	Phe	Ile	Ala	Arg	Arg	Lys	Leu	Asn	Lys
			20					25					30		

Ala	Ala	Pro	Met	His	Lys	Lys	Arg	Thr	Ala	Ala	Leu	Met
		35					40					45

<210> 852

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 852

Leu	Leu	Arg	Leu	Tyr	Lys	Arg	Phe	Leu	Arg	Trp	Phe	Arg	Lys	Asn	Lys
1				5					10					15	

Phe	Leu	Gln	Ser	Ser	Leu	Ala	Val	Pro	Arg
			20					25	

<210> 853

<211> 74

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 853

Phe	Phe	Lys	Tyr	Leu	Lys	Lys	Leu	Phe	Arg	Phe	Leu	Arg	His	His	Phe
1				5					10					15	

Leu	Ala	Lys	Lys	Lys	Leu	Leu	Lys	Arg	Ala	Cys	Met	Ser	Lys	Ala	Val
			20					25					30		

Lys	Lys	His	Leu	Lys	Lys	Lys	Glu	Gly	Arg	Lys	Asn	Gln	Met	Arg	Ala
		35					40					45			

Ala	Glu	Arg	Ala	Trp	Ile	Tyr	Cys	Leu	Gly	Arg	Ala	Arg	Lys	Leu	Phe
	50					55					60				

Ala Trp Cys Phe Cys Ser Ala Glu Lys Gln
65 70

<210> 854
<211> 60
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 854

Phe Met Lys Phe Phe Arg Lys Leu Leu Arg Arg Trp Gln Arg Thr Arg
1 5 10 15

Leu Lys Lys Ala Gln Arg Ile Ala Ala Lys Val Cys Val Lys Tyr Ala
20 25 30

His Ala Ser Cys Leu Leu Arg Ile Ala Phe Arg Ala Gln Phe Trp Arg
35 40 45

Ala Ser Arg Leu Met Ile Met Arg Ala Leu Thr Thr
50 55 60

<210> 855
<211> 41
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 855

Leu Phe Lys Met Phe Asn Arg Leu Met Lys Arg Leu Cys Asn Leu Arg
1 5 10 15

Arg Ala Pro Arg Leu Arg Thr His Ala Gln Lys Ala Asn Lys Asp Leu
20 25 30

Lys Ala Gly Ile Ala Gly Pro Thr Leu
35 40

<210> 856
<211> 69
<212> PRT
<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 856

Lys Leu Arg Tyr Phe Arg Lys Leu Phe Lys Tyr Met Arg Lys Ser Gly
 1 5 10 15

Gly Lys Leu Ala Lys Phe Ala Asn Ala Lys Arg Lys Ala Leu Tyr Thr
 20 25 30

Lys Leu Glu Ala Trp Lys Val Trp Ala Leu Arg Pro Leu Leu Cys Ala
 35 40 45

Ala Lys Lys Leu Ala Ala Val Leu Leu Arg Tyr His Ala Trp Glu Phe
 50 55 60

Met Arg Trp Tyr Cys
 65

<210> 857

<211> 56

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 857

Lys Leu Lys Leu Leu Arg Lys Phe Trp Lys Leu Phe Arg Cys Ser Leu
 1 5 10 15

Trp Glu Tyr Arg Leu Cys Pro Pro Ala Asp Leu Asn Thr Lys Arg Lys
 20 25 30

Arg Leu Ala Arg Arg Tyr Ala Asp Leu Ala Lys Gly Val His Leu Gly
 35 40 45

Ala Glu Ala Arg Pro Phe Ser Lys
 50 55

<210> 858

<211> 42

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 858

Lys Phe Arg Tyr Ile Lys Lys Leu Leu Arg Leu Met Asn Arg Asp Leu
 1 5 10 15

Met Leu Leu Asp Cys Ala Arg Tyr Ala Trp Leu Lys Leu Ala Glu Ser
 20 25 30

Asn Lys Phe Lys His Leu Gln Ala Leu Lys
 35 40

<210> 859

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 859

Trp Leu Arg Leu Leu Asn Lys Phe Phe Lys Met Phe Arg Cys Ala Lys
 1 5 10 15

His Trp Arg Ala Ser Ile Lys Lys Thr His Arg Ala Leu
 20 25

<210> 860

<211> 60

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 860

Phe Tyr Arg Phe Met Cys Arg Leu Ile Arg Leu Trp Thr Cys Ala Arg
 1 5 10 15

Leu Lys Arg Trp Thr Ala Gly Ile Lys Gly Arg Gly Arg Trp Ala Cys
 20 25 30

Lys Leu Ala Leu Asp Ser Leu Leu Met Lys Lys Lys Asp Asp Tyr Glu
 35 40 45

Ala Arg Ala Lys Arg Thr Lys Leu Arg Arg Ala Leu
 50 55 60

<210> 861
 <211> 54
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 861

Phe Ile Arg Phe Leu Ser Arg Leu Leu Arg Arg Leu Lys Arg Lys Arg
 1 5 10 15

Arg Lys Phe Cys Trp His Lys Lys Gln Ser Ala Thr Ala Arg Ser Thr
 20 25 30

Pro Leu Lys Ser Lys Asp Phe Thr Ala Leu Pro Ala Leu His Ala Tyr
 35 40 45

Val Ala Thr Arg Arg Lys
 50

<210> 862
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 862

Leu Phe Lys Leu Tyr Ser Arg Ile Ile Lys Leu Tyr Arg Arg Leu Ala
 1 5 10 15

Trp Asn Leu Ala Val Lys Leu Leu Asp Leu Arg Lys
 20 25

<210> 863
 <211> 43
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 863

Met Leu Arg Phe Ile Arg Lys Leu Phe Arg Lys Leu Lys Arg Phe Tyr
 1 5 10 15

Ser Leu Arg Ala Arg Asn His Ala Lys Ala Ile Ala Asp Gln Arg Phe
 20 25 30

Lys Leu Leu Leu Ile Arg Ala Leu Ile His Lys
 35 40

<210> 864
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 864

Phe Leu Lys Leu Trp Thr Arg Leu Trp Lys Lys Phe Cys Lys Phe Arg
 1 5 10 15

Arg Ala Asn Leu
 20

<210> 865
 <211> 41
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 865

Leu Leu Arg Ile Leu Gln Lys Phe Leu Arg Lys Phe Cys Lys Tyr His
 1 5 10 15

Lys Tyr Gln Leu Val Lys Cys Asn Lys Leu Arg Ala Ala Arg His Tyr
 20 25 30

Leu Val Arg Arg His Ala Arg Ala Met
 35 40

<210> 866
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 866

Lys Trp Arg Leu Leu His Lys Phe Leu Lys Tyr Leu Lys Lys Met Lys
 1 5 10 15

Gln Thr Gln Arg Ala Lys Ala Pro Ala Val Trp Gly Ala
 20 25

<210> 867
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 867

Tyr Leu Arg Met Leu His Lys Leu Phe Arg Ile Trp Lys Arg Ala Lys
 1 5 10 15

Leu Lys Thr Ser Leu Ala Lys Arg Arg Ala Leu Trp Ala Lys Phe Phe
 20 25 30

Lys

<210> 868
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 868

Lys Ile Arg Ile Phe His Arg Phe Phe Arg Arg Leu Lys Gln Ala Ala
 1 5 10 15

Thr Ala Glu Leu
 20

<210> 869
 <211> 52
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 869

Phe Trp Lys Phe Leu Pro Arg Leu Trp Lys Arg Leu Arg Thr Ile Asp
 1 5 10 15

Arg Arg Gly Cys Tyr Arg Val Lys Met Arg Leu Leu Pro Leu Cys His
 20 25 30

Ala Lys Glu His Arg Leu Ala Arg Leu Leu Arg Leu Ser Thr Arg Ala
 35 40 45

Leu Gln Glu His
 50

<210> 870
 <211> 71
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 870

Ile Leu Arg Ile Met Arg Arg Phe Leu Arg Arg Tyr Lys Lys Lys Arg
 1 5 10 15

Ala Arg Ala Lys Arg Cys Lys Arg Lys Lys Val Leu Val Pro Pro Tyr
 20 25 30

Glu Ser Arg Glu Ala Pro Lys Ile Cys Tyr Lys Pro Leu Leu Lys Leu
 35 40 45

Cys Gly Val Ala Arg Ala Leu Tyr Lys Ala His Ala Lys Gln Ala Met
 50 55 60

Thr Ala Pro Leu Thr Pro Leu
 65 70

<210> 871
 <211> 37
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 871

Arg Leu Arg Phe Leu Arg Lys Trp Tyr Lys Arg Leu Lys Pro Lys Asn

1 5 10 15

His Asn Gln Arg Ala Met Leu Met Arg Cys Pro Ile Leu Gln Arg Leu
 20 25 30

Ala Leu Ile Gly Arg
 35

<210> 872
 <211> 42
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 872

Leu Tyr Arg Trp Leu Lys Lys Ile Phe Arg Arg Phe Lys Arg Arg Arg
 1 5 10 15

Ala Leu Glu Leu Leu Lys Leu Lys Ala Thr Ile Tyr Leu Ala Leu Met
 20 25 30

Pro Arg Val Arg Arg Val Lys Cys Leu Glu
 35 40

<210> 873
 <211> 73
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 873

Leu Leu Lys Phe Leu Arg Arg Ile Leu Lys Lys Phe Lys Lys Ser Ala
 1 5 10 15

Leu Asp Leu Met Ala Ala Arg Glu Ala Leu Leu Trp Arg Lys Ala Leu
 20 25 30

Ala Ala Leu Leu Trp Trp Glu Thr Val Met Arg Arg Lys Leu Gln Gly
 35 40 45

Arg Lys Glu Tyr Leu Phe Val Asn Thr Lys Cys Ala Met Lys Met Leu
 50 55 60

Phe Val Gly Ala Arg Val Ser Arg Arg
65 70

<210> 874
<211> 62
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 874

Arg Leu Lys Trp Leu Gln Lys Leu Phe Lys Leu Phe Arg Lys Leu Lys
1 5 10 15

Leu Leu Arg Glu Gly Asp Ala Arg Glu Cys Lys Ala Arg Lys Ile Ala
20 25 30

Ser Leu Ala Arg Ala Leu Asp Asn Ala Lys Gln Trp Ala His Arg Arg
35 40 45

Phe Ile Arg Arg Phe Arg Gln His Lys Leu Gly Gly Arg Ala
50 55 60

<210> 875
<211> 24
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 875

Lys Leu Arg Leu Met Pro Arg Leu Leu Arg Lys Trp His Ser Leu Ala
1 5 10 15

Lys Ser Gly Ala Arg Tyr Glu Lys
20

<210> 876
<211> 81
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 876

Arg Met Lys Trp Phe Lys Lys Ile Leu Arg Lys Leu Ser Arg Val Cys
 1 5 10 15

Arg Ile Asp Arg Ser Asp Arg Asn Arg Leu Ser Lys Gln Pro Met Arg
 20 25 30

Leu Gln Gly Ala Ala Asn Ala Ser Val Ala Asn Leu Lys Leu Leu Ala
 35 40 45

Lys Gly Leu Phe Ala Ala Cys Arg Arg Arg Ala Asp Lys Tyr Ala Val
 50 55 60

Ala Leu Leu Asp Arg Arg Leu Arg Lys Phe Gln Ser Lys Leu Leu Leu
 65 70 75 80

Lys

<210> 877

<211> 70

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 877

Met Ile Lys Phe Leu Pro Arg Tyr Leu Arg Trp Leu Arg Arg Ala Val
 1 5 10 15

Lys Glu Ala Phe Ser Thr Ala Leu Ser Ala Gly Asn Leu Arg Leu Met
 20 25 30

Val Leu Ile Lys Leu Arg Ala Trp Glu Lys Arg Leu Leu Met Tyr Ala
 35 40 45

Lys Lys Glu Val Arg Lys Met Phe Arg Ala Leu Ala Phe Lys Pro Phe
 50 55 60

Lys Phe Met Lys Ala Pro
 65 70

<210> 878

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 878

Arg	Leu	Arg	Tyr	Ile	Ser	Arg	Leu	Trp	Arg	Ile	Leu	Arg	Lys	Cys	Val
1				5				10						15	

Leu	Ser	Leu	Lys	Leu	Cys
				20	

<210> 879

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 879

Phe	Met	Lys	Leu	Phe	Lys	Lys	Leu	Trp	Arg	Leu	Leu	Ser	Arg	Cys	Leu
1				5				10						15	

Ala	Ala	Ser	His
			20

<210> 880

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 880

Lys	Met	Lys	Leu	Tyr	Lys	Arg	Leu	Leu	Lys	Phe	Leu	Arg	Lys	Asp	Asn
1				5				10						15	

Trp	Lys	Ile	Ala	Ala
				20

<210> 881

<211> 41

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 881

Arg Ile Arg Phe Met Arg Arg Ile Ile Lys Lys Leu Lys Arg Tyr Thr
1 5 10 15

Leu Glu Ala Lys Lys His Asn Lys Ala Cys Leu Lys Leu Ile Ala Leu
20 25 30

Arg Leu Leu Arg Leu Ala Ala Arg His
35 40

<210> 882

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 882

Lys Leu Arg Leu Ile Arg Lys Leu Phe Lys Phe Phe Cys Asn Lys Lys
1 5 10 15

Ala Lys Arg Cys Ser Ser Ala Leu His Ala Leu Ala Asp Gln Asn Leu
20 25 30

<210> 883

<211> 53

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 883

Leu Tyr Arg Trp Leu His Lys Leu Met Arg Tyr Ile Gln Lys Ser Ala
1 5 10 15

Gly Leu Met Leu Arg Val Ala Ala Arg Ala Tyr Lys Ile Arg Ala Trp
20 25 30

Arg Phe Lys Lys Glu Cys Leu Arg Ala Arg Arg Thr Ala Ile Tyr Met
35 40 45

Ile Leu Arg Lys Arg
50

<210> 884
 <211> 27
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 884

Lys Leu Lys Tyr Ile Lys Arg Leu Leu Arg Lys Trp Lys Pro Trp Ala
 1 5 10 15

Gln Lys Gly Met Thr Leu Cys Ala Gly Gly Ala
 20 25

<210> 885
 <211> 41
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 885

Phe Leu Lys Leu Leu Thr Arg Leu Phe Lys Ile Phe Lys Asn Val Arg
 1 5 10 15

Lys Arg Arg Glu Ala Ala Ala Asp Arg Phe Ala Asn Arg Asn Asp Cys
 20 25 30

Ala Ala Lys Ser Ile Ala Leu Ala Val
 35 40

<210> 886
 <211> 60
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 886

Lys Leu Arg Leu Leu His Lys Trp Phe Lys Leu Phe Arg Arg Lys Arg
 1 5 10 15

Lys Gly Asp Gly Asn Lys Pro Lys Ala Ala Ile Val Asn Ala Val Leu
 20 25 30

Ala Ala Lys Leu Arg Val Leu Arg Tyr Ala Thr Leu Asn Leu Cys Leu
35 40 45

Leu Trp Gly Leu Leu Arg Ser Thr His Trp Lys Lys
50 55 60

<210> 887

<211> 23

<212> PRT

<213> Artificial Sequence

 $\langle 220 \rangle$

<223> Computer-generated peptide variant

<400> 887

Leu Phe Lys Tyr Ile Arg Lys Leu Leu Lys Arg Met Lys Thr Ala Ile
1 5 10 15

Asp Leu Ile Leu Ser Ala Lys
20

<210> 888

<211> 31

<212> PRT

<213> Artificial Sequence

 $\langle 220 \rangle$

<223> Computer-generated peptide variant

<400> 888

Phe Leu Lys Phe Phe Arg Arg Phe Leu Lys Arg Met Lys Cys Arg Lys
1 5 10 15

Ala Leu Glu Met Gly Gly Val Ala Leu Leu Gly Arg Leu Thr Arg
20 25 30

<210> 889

<211> 22

<212> PRT

<213> Artificial Sequence

 $\langle 220 \rangle$

<223> Computer-generated peptide variant

<400> 889

Leu Leu Arg Leu Ile Lys Arg Leu Trp Lys Ile Tyr Thr His Trp Ala
1 5 10 15

Asn Leu Arg Lys Pro Leu
20

<210> 890
<211> 26
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 890

Leu Phe Lys Trp Ile Arg Arg Met Leu Arg Arg Leu Lys Lys Ala Gly
1 5 10 15

Ala Leu Trp Met Gln Lys Leu Cys Thr Val
20 25

<210> 891
<211> 62
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 891

Trp Phe Arg Tyr Phe Arg Lys Leu Leu Lys Leu Met Pro Arg Pro Lys
1 5 10 15

Gln Leu Asn Ser Leu Arg Asn Lys Cys Phe Ala Ala Ser Arg Ile Leu
20 25 30

Val Arg Leu Tyr Lys Lys Leu Gly Glu Ala Arg Ala Ala Leu Pro Tyr
35 40 45

Cys Pro Met Thr Ala Leu Ala Glu Arg Thr Arg Arg Ala Arg
50 55 60

<210> 892
<211> 44
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 892

Phe Met Lys Ile Phe Lys Arg Leu Met Lys Lys Phe Ser Arg Ala Thr
 1 5 10 15

Leu Phe Pro Met Arg Lys Lys Ala Leu Lys Leu Ala Lys Leu Leu Gly
 20 25 30

Met Leu Asn Asp Lys Lys Lys Ser Leu Asn Met Gly
 35 40

<210> 893

<211> 81

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 893

Lys Leu Lys Ile Leu Arg Lys Leu Met Lys Leu Leu Arg Lys Ala Ala
 1 5 10 15

Leu Thr Gly Trp Ala Lys Lys Met Arg Met Tyr His Ile Leu Asn Ala
 20 25 30

Ala Val Ile Arg Lys Trp Trp Lys Lys Gln Leu Trp Ala Tyr Ala Leu
 35 40 45

Val Lys Pro Cys Lys Asn Ile Tyr Lys Ala Arg Arg Ile Lys Met Leu
 50 55 60

Leu Val Gly Gly Lys Ala Tyr Asn Glu Val Arg Arg Lys Met Pro Lys
 65 70 75 80

Gly

<210> 894

<211> 56

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 894

Leu Ile Lys Trp Trp Ser Arg Phe Trp Lys Lys Trp Arg Arg Arg Lys

Arg Phe Lys Phe Leu Lys Lys Leu Met Arg Phe Tyr His Arg Met Lys
1 5 10 15

Ala Asn Leu Asp Lys Gly Ala Ala Leu Lys Ile Arg Cys Phe Lys Asn
20 25 30

Leu Leu Trp Ala Asp Val
35

<210>	896
<211>	35
<212>	PRT
<213>	Artificial Sequence
<220>	
<223>	Computer-generated peptide variant
<400>	896

Lys Tyr Arg Ile Ile Pro Arg Tyr Leu Arg Arg Ile Lys Arg Lys Arg
1 5 10 15

Thr Gly Ala Gly Ala Gln Ser Arg Cys Leu Lys Asn Leu Ala Leu Ala
20 25 30

Leu Lys Pro
35

<210> 897
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 897

Arg Phe Arg Phe Leu Arg Lys Tyr Leu Arg Leu Leu Arg His Glu Ser
 1 5 10 15

Ala Leu Met Leu Thr Cys Leu Pro Val Tyr Asn Arg Leu Pro Ala Glu
 20 25 30

Lys Gln Arg Ala Lys Gly Arg Phe
 35 40

<210> 898
 <211> 52
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 898

Arg Leu Lys Ile Leu Arg Arg Ile Leu Lys Arg Phe Pro Cys Pro Leu
 1 5 10 15

Ile Phe Arg Lys Gln Ala Tyr Ala Lys Lys Leu Ala Tyr Asp Lys Trp
 20 25 30

Phe Tyr Glu Trp Asp Arg Leu Ala Lys Ala Ala Val Gly Arg Arg Lys
 35 40 45

His Phe Ala Pro
 50

<210> 899
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 899

Ile Trp Lys Met Leu Lys Arg Trp Leu Arg Lys Met Ser Lys Leu Leu
 1 5 10 15

Ala Lys Ile Ser Asn Pro Leu
 20

<210> 900
 <211> 45
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 900

Lys Trp Lys Phe Ile Ser Lys Leu Leu Lys Lys Trp Lys Lys Ala Ala
 1 5 10 15

Ala Cys Val Leu Glu Arg Cys Lys Gly Trp Arg Trp Leu Leu Thr Ser
 20 25 30

Phe Lys Asn Ala Ala Ala Leu Arg Asp Lys Cys Gln Leu
 35 40 45

<210> 901
 <211> 26
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 901

Ile Tyr Lys Leu Ile Arg Arg Phe Ile Arg Leu Leu Arg Pro Asp Leu
 1 5 10 15

Leu Ala Gly Arg Arg Ala Arg Asn Leu Pro
 20 25

<210> 902
 <211> 97
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 902

Lys Leu Arg Leu Tyr Asn Arg Phe Met Lys Ile Phe Arg Lys Cys Phe
 1 5 10 15

Ser Leu Lys His Arg Arg Val Asn Ala Leu Arg Lys Ala Arg Ala Lys
 20 25 30

Trp Glu Ala Leu Ala Cys Asn Met Arg Leu Lys Asp Tyr Ala Arg Gln
 35 40 45

Ala Ala Phe Leu Phe Arg Arg Trp Phe Leu Pro Gly Ala Ala His Lys
 50 55 60

Lys Glu Cys Leu His Phe Leu Thr Phe Gly Ala Lys Leu Lys Ala Pro
 65 70 75 80

Leu Ile Ala Tyr Leu Lys His Leu Ala Thr Leu Ile Leu Val Gln Lys
 85 90 95

Phe

<210> 903

<211> 79

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 903

Ile Phe Lys Tyr Leu His Lys Leu Leu Lys Leu Leu Gln Asn Ala Lys
 1 5 10 15

Tyr Trp Lys Lys Gln Asp Arg Ser Leu Ala Arg Arg Thr Arg Arg Ala
 20 25 30

His Gly Lys Ala Lys Gly Thr Ala Asp Ile Ala His Ala Lys Tyr Leu
 35 40 45

His Met Gln Met Tyr Tyr Ile Leu Thr Leu Trp Phe Ala Lys Leu Gln
 50 55 60

Lys Ile Cys Lys Lys Arg Lys Leu Tyr Leu Lys Lys Leu Gln Leu
 65 70 75

<210> 904
 <211> 44
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 904

Arg Phe Arg Tyr Met Arg Arg Phe Phe Lys Leu Leu Gln Pro Arg Trp
 1 5 10 15

Ser His Gln Trp Ala Gln Cys Leu Ala Arg Ala Ala Ala Arg Ala Arg
 20 25 30

Gln Ala Lys Arg Thr Leu Ala Gln Arg Ala Arg Pro
 35 40

<210> 905
 <211> 87
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 905

Arg Phe Arg Tyr Leu Lys Arg Leu Trp Arg Phe Leu Lys Lys Lys Arg
 1 5 10 15

Trp Met Pro Ala Leu Ile Lys Leu Leu Val Ala Phe Gly Ala Ala Met
 20 25 30

Ala Arg Cys His Leu Met Asp His Arg Arg Gln Leu Leu Leu Arg Ala
 35 40 45

Thr Leu Lys Pro Ala Ala Pro Ala Leu Ile Trp Met Arg Cys Gln Phe
 50 55 60

Lys Leu Lys Cys Tyr Phe Ser Arg Asp Met Phe Arg Lys Ala Ala His
 65 70 75 80

Ser Ala Asp Ala Ser Arg Pro
 85

<210> 906

<211> 60
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 906

Lys Leu Arg Met Ile Arg Arg Leu Ile Lys Met Leu Arg Lys Leu Ala
 1 5 10 15

Gly Arg Trp Arg Phe Gly Ala Lys Ile Val Arg Met Arg Gln Lys Ala
 20 25 30

Arg Trp Gln Trp Leu Ala Lys Pro Ala Ala Gly Ser Ala Ala Ala Lys
 35 40 45

Arg Arg Gly Phe Arg Gly Met Trp Arg Tyr Cys Ala
 50 55 60

<210> 907
 <211> 88
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 907

Lys Trp Lys Met Leu Lys Lys Ile Leu Arg Leu Met Lys Arg Gly Ile
 1 5 10 15

Leu Lys Lys Gln Leu Gly Gly Ala Cys Arg Leu Glu Ser Trp Val Lys
 20 25 30

Asn Ala Ala Gly Met Arg Gly Met Phe Leu Lys Gln Ala Ala Pro Ser
 35 40 45

Ala Trp Arg Gly Ala Gln Gln Ser Asp Ala Lys Arg Trp Leu Leu Arg
 50 55 60

Arg Arg Lys Ala Ala Phe Ala Lys Leu Leu Asp Met Leu Ala Leu Lys
 65 70 75 80

Ala Tyr Thr Cys Ala Leu Ser Pro
 85

<210> 908
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 908

Leu Leu Lys Leu Leu Cys Lys Phe Leu Lys Lys Met Arg Lys Cys Lys
 1 5 10 15

Asn Tyr Ala His Gln Trp Thr Arg Leu Lys Asp Ala Ala
 20 25

<210> 909
 <211> 39
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 909

Lys Leu Lys Ile Met Gln Arg Trp Ile Lys Arg Tyr Gln Arg Asp Leu
 1 5 10 15

Arg Ala Ile Leu Leu Arg Ser Lys Lys Ala Leu Cys Arg Ala Leu Val
 20 25 30

Ser Ala Glu Phe Leu Arg Ala
 35

<210> 910
 <211> 31
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 910

Phe Leu Arg Trp Leu Cys Lys Tyr Leu Arg Arg Leu His Arg Gln Leu
 1 5 10 15

Leu Glu Met Leu Leu Gln Tyr Glu Met Lys Arg Lys Leu Lys Cys
 20 25 30

<210> 911
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 911

Lys Leu Arg Met Leu Thr Arg Leu Leu Lys Leu Tyr Lys Arg Met Leu
 1 5 10 15

Tyr Lys Gly His Cys Lys Ala Ala Arg Lys Val Lys Phe Ala Val Cys
 20 25 30

Phe Asp Lys Gln
 35

<210> 912
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 912

Phe Tyr Arg Leu Trp Lys Lys Phe Leu Lys Phe Met Arg Arg Tyr Leu
 1 5 10 15

Gln Ala Ala Pro Lys
 20

<210> 913
 <211> 27
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 913

Met Leu Lys Leu Leu Gln Arg Trp Ile Arg Lys Leu Pro Cys Thr Cys
 1 5 10 15

His Leu Ala Lys Arg Leu Pro Leu Ile Gly Lys
 20 25

<210> 914
 <211> 48
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 914

Trp Leu Lys Phe Leu Arg Arg Tyr Trp Arg Phe Leu Arg Arg His Ala
 1 5 10 15

Thr Val Ala Lys Arg Leu Leu Met Gly Arg Val Phe Leu Ala Ala Cys
 20 25 30

Gly Met Glu Ala Glu Leu Glu Gln Arg Thr Pro Ala Leu Lys Arg Lys
 35 40 45

<210> 915
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 915

Ile Leu Lys Leu Phe Arg Lys Met Tyr Arg Leu Phe Pro Lys Phe Leu
 1 5 10 15

Leu Gln Leu Leu Ala Thr Leu Gly Trp Gly Ala Ser Arg Leu Asp Lys
 20 25 30

Arg Ser

<210> 916
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 916

Leu Leu Arg Phe Phe His Arg Leu Met Arg Leu Ile Arg Arg Gly Ala
 1 5 10 15

Lys Val Arg Phe Arg Leu Lys Arg Leu Leu His Trp Gln Lys Arg Leu
 20 25 30

Glu Leu Asn
 35

<210> 917
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 917

Tyr Leu Arg Tyr Phe Lys Arg Trp Leu Lys Leu Met Arg Thr Tyr Leu
 1 5 10 15

Ala Ala Gly Phe Leu Ser Thr Lys Phe Trp Ala Lys Lys
 20 25

<210> 918
 <211> 100
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 918

Lys Ile Arg Phe Leu Arg Lys Leu Trp Arg Lys Leu Arg Ser Arg Leu
 1 5 10 15

Ala Leu Arg His Cys Leu Pro Leu Arg Ile Ala Lys Ala Ala Cys Cys
 20 25 30

Leu Ala Arg Arg Gln Arg Ser Leu Cys Lys Val Lys Leu Met Ile Glu
 35 40 45

Asn Pro Trp Leu Lys Lys Ser Lys Leu Asp Ser Arg Glu Phe Lys Gly
 50 55 60

Tyr Ala Val Lys His Ile Ala Leu Ile Gln Gln Arg Ala Met Asn Gln
 65 70 75 80

Lys Arg Glu Glu Arg Cys Thr Arg Ser Gln Ile Lys Ala Leu Arg Ser

85

90

95

Leu Leu Ala Ile
100

<210> 919
<211> 29
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 919

Leu Tyr Lys Leu Phe Arg Lys Phe Leu Lys Arg Leu Pro Lys Gln Pro
1 5 10 15

Met Arg Ile Leu Ser Lys Pro Met Cys Ala Lys Leu Tyr
20 25

<210> 920
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 920

Leu Trp Arg Phe Leu Arg Arg Met Trp Arg Arg Leu Arg Asn Gln Leu
1 5 10 15

Gly Ala Leu Ala Arg Glu Lys
20

<210> 921
<211> 47
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 921

Arg Phe Arg Leu Trp Lys Arg Phe Leu Lys Leu Trp Ser Gln Thr Ala
1 5 10 15

Gln Leu Trp Gln Lys Trp Arg Arg Tyr Arg Pro Ile Ile Glu Arg Leu

20

25

30

Ala Asn Lys Met Lys Arg Ala Ala Leu Tyr Lys Ala Arg Gly Gly
 35 40 45

<210> 922

<211> 45

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 922

Met Leu Lys Phe Leu Thr Arg Leu Phe Lys Leu Leu Lys Lys Gln Ile
 1 5 10 15

Ala Asn Trp Trp Leu Ala Leu Pro Trp Arg Asn Ala Arg Val Ile Lys
 20 25 30

Leu Lys Leu Arg Lys Ser Cys Arg His Arg Gln Leu Arg
 35 40 45

<210> 923

<211> 43

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 923

Lys Leu Lys Trp Leu Cys Lys Tyr Leu Lys Arg Phe Lys Arg Ala Asp
 1 5 10 15

Lys Ala Arg Leu Tyr His Leu Arg Gly Ser Arg Gln Leu His Leu Met
 20 25 30

Pro Met Leu Leu Ala Ala Pro Cys Tyr Arg Ala
 35 40

<210> 924

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 924

Trp	Phe	Arg	Leu	Leu	Gln	Lys	Phe	Leu	Lys	Trp	Leu	Lys	Arg	Ala	Gly
1				5					10					15	

Leu	Cys	Val	Arg	Pro	Met	Asn	Lys	Leu
			20					25

<210> 925

<211> 77

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 925

Arg	Phe	Lys	Leu	Leu	Lys	Arg	Leu	Ile	Arg	Lys	Leu	Lys	Thr	Arg	Asn
1				5					10					15	

Leu	Leu	Ile	Cys	Ser	Lys	Leu	Pro	Trp	Phe	Ala	Ile	Arg	Val	Gly	His
			20					25					30		

Ile	Tyr	Lys	Glu	Arg	Cys	Ala	Tyr	Glu	Arg	Lys	Cys	Leu	Leu	Leu	Leu
		35					40					45			

Asn	Tyr	Arg	Arg	Leu	Ala	Ala	Lys	Arg	Glu	Asp	Ala	Arg	Ala	Pro	Gln
	50					55					60				

Thr	Lys	Arg	Lys	Arg	Ala	Met	Lys	Ser	Gln	Thr	Glu	Leu
65					70					75		

<210> 926

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 926

Arg	Phe	Arg	Tyr	Leu	Lys	Lys	Phe	Leu	Lys	Arg	Ile	Thr	Arg	Ala	Phe
1				5					10					15	

His	Leu	Ala	Ala	Lys	Trp	Asn	Leu	Glu	Phe
		20					25		

<210> 927
 <211> 41
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 927

Met Ile Arg Phe Phe Arg Lys Leu Trp Lys Arg Ile His Arg Phe Ala
 1 5 10 15

Met Ala Leu Lys Arg Lys Ala Pro Glu Lys Gly Leu Ala Ala Met Ala
 20 25 30

Tyr Val Lys His Arg Thr Ala Ala Arg
 35 40

<210> 928
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 928

Lys Leu Lys Leu Ile His Lys Ile Trp Lys Ile Leu Arg Arg Ala Ala
 1 5 10 15

Leu Cys Leu Asn Ala Gln Asn
 20

<210> 929
 <211> 26
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 929

Lys Leu Arg Phe Leu Ser Lys Phe Trp Arg Arg Tyr Arg Thr Lys Ala
 1 5 10 15

Ile Pro Ala Ala Leu His Leu Ser Trp Ala
 20 25

<210> 930
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 930

Leu Leu Lys Leu Trp Lys Lys Leu Leu Lys Lys Phe Arg Arg Lys Gly
 1 5 10 15

Leu Asp His Leu Gly Leu Phe Ala Val
 20 25

<210> 931
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 931

Arg Tyr Arg Leu Leu Lys Lys Ile Leu Lys Arg Phe Pro Pro Leu Asp
 1 5 10 15

Lys His Gly Gln Ala Ala Arg Arg Lys Leu Leu Val Leu Val Lys Thr
 20 25 30

Arg Ala Arg
 35

<210> 932
 <211> 38
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 932

Arg Met Arg Phe Met Arg Lys Phe Phe Lys Tyr Leu Arg Arg His Cys
 1 5 10 15

Met Pro Gln Phe Gln Leu Trp Leu Arg Leu Ala Asn Arg Leu Ala Leu
 20 25 30

Arg His Gln Leu Ala Ala
35

<210> 933
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 933

Leu Tyr Arg Trp Tyr Gln Lys Tyr Phe Arg Lys Leu Asn Lys Arg Met
1 5 10 15

Leu Leu Ala Lys Leu Tyr Leu Thr His Ser Ala
20 25

<210> 934
<211> 52
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 934

Arg Phe Arg Trp Phe Asn Arg Tyr Tyr Arg Lys Leu Arg Ser Lys Leu
1 5 10 15

Cys Pro Ser Leu His Ile Leu Cys Lys Ser Ala Arg His Leu Ala Lys
20 25 30

Arg Arg Lys Ala Glu Val Met Leu Thr Gln Cys Lys Gln Lys Arg Pro
35 40 45

Leu Lys Ala Leu
50

<210> 935
<211> 85
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 935

Arg Leu Lys Tyr Leu Asn Lys Leu Leu Lys Lys Leu Lys Lys Lys Cys
 1 5 10 15

Ser Ala Cys Gln Gln Cys Arg Leu Lys Ile Ala Val Lys Arg Ala Ala
 20 25 30

Ala Asp Tyr Leu Phe Pro Asn Phe Arg Leu Pro Trp Lys Leu Ala Trp
 35 40 45

Ala Ile Leu Arg Trp Trp Tyr Ala Gly Thr Ser Asn Lys Arg Cys His
 50 55 60

Lys Ala Lys Arg Lys Met Ser Ala Cys Ala Phe Arg Gln Trp His His
 65 70 75 80

Lys Arg Val Lys Lys
 85

<210> 936

<211> 71

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 936

Lys Met Arg Leu Met Cys Lys Phe Trp Lys Phe Leu Lys Lys Lys Leu
 1 5 10 15

Arg Glu Lys Ala Lys His Trp Asp Lys Leu Arg Asn Ala Gln Ser Leu
 20 25 30

Leu Leu Leu Arg Gly Lys His Ile Lys Leu Ser Ser Lys Pro Ala Arg
 35 40 45

Gln Trp Lys Glu Glu Val Gly Leu Ala Ala Ala Lys Lys Val Lys Asp
 50 55 60

Met Arg Lys Phe Leu Glu Met
 65 70

<210> 937

<211> 61

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 937

Arg Leu Arg Phe Ile Lys Lys Phe Phe Arg Arg Leu Arg Ser Phe Ala
1 5 10 15

Leu Cys Lys His Tyr Ala Ala Ala Leu Met Val Pro Leu Val Arg Lys
20 25 30

Ala Arg Arg Ala Lys Leu Leu Lys Arg Lys Ser Ser Asn Arg Asn Val
35 40 45

Trp Arg Trp Ala Ser Ala Asn His Asp Lys Gln Lys Leu
50 55 60

<210> 938

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 938

Arg Leu Arg Leu Phe Cys Arg Ile Phe Arg Trp Phe Arg Lys Arg Gln
1 5 10 15

Phe His Pro Lys Ala Arg Ala Arg Thr Leu Ile Lys Leu Leu Leu Cys
20 25 30

Ala

<210> 939

<211> 38

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 939

Phe Phe Arg Leu Tyr Lys Lys Leu Ile Lys Leu Trp Ser Thr Ala Arg
1 5 10 15

Asn Cys Ala Arg Arg Gly His Ile Lys Arg Leu Lys Met Ala Gln Arg
 20 25 30

Ala Asn Ala Leu Lys Ile
 35

<210> 940

<211> 91

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 940

Lys Leu Arg Phe Leu Arg Arg Ile Leu Lys Phe Phe Arg Arg Lys Trp
 1 5 10 15

His Lys Phe Glu Arg Lys Glu Ala Ser Lys Gln Asn Ile Leu Arg Leu
 20 25 30

Ala Leu Ala Ser Arg Arg Leu Ala Tyr Trp Leu Ser Tyr Leu Lys Arg
 35 40 45

Ala Cys Met Leu Ser Phe Arg Arg Glu Leu Ala Lys Glu Arg Phe Leu
 50 55 60

Ala Lys Arg Trp Thr Asp Ala Lys Pro Leu Arg Trp Ile Lys Lys Leu
 65 70 75 80

Leu Ile Val Phe Ser Phe Ile Tyr Gly Leu Thr
 85 90

<210> 941

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 941

Leu Leu Arg Ile Phe Arg Arg Phe Phe Lys Phe Tyr Arg Arg Asp Gln
 1 5 10 15

Lys Met Ser Lys Leu Lys Lys Ala Asp Ala Lys Gln Leu Leu Ala Lys

20

25

30

Met Gly Leu
35

<210> 942
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 942

Lys Phe Arg Leu Leu Arg Lys Ile Trp Lys Lys Ile Cys Arg His Leu
1 5 10 15

Ala Gln Leu Ala Gly Lys Glu Ile Leu Ala Leu Arg
20 25

<210> 943
<211> 34
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 943

Leu Leu Lys Leu Leu Arg Lys Ile Phe Lys Tyr Ile His Arg Ala Arg
1 5 10 15

Gln Ala Arg Thr Ala Lys Phe Arg Phe Leu Pro Glu Lys Glu Leu Leu
20 25 30

Ala Thr

<210> 944
<211> 47
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 944

Arg Trp Arg Phe Phe Thr Lys Leu Leu Arg Lys Trp Arg Lys Leu Lys

1 5 10 15

Val Arg Gly Trp Lys Arg Met Leu Arg Asn Phe Cys Cys Asp Ser Cys
20 25 30

Leu Leu Leu Trp Leu Arg Glu Leu Ser Ala Lys Ala Asn Ala Phe
35 40 45

<210>	945
<211>	82
<212>	PRT
<213>	Artificial Sequence

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<220>  
<223> Computer-generated peptide variant
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<400> 945

Leu Leu Lys Met Leu Arg Lys Phe Tyr Arg Lys Met Asn Thr Ser Lys
1 5 10 15

Ala Leu Ala Arg Ala Ala Lys Ala Ser Cys Leu Glu Lys Arg Asn Arg
20 25 30

Lys Leu His Met Ala Leu Ile Ala Gln Val Arg Lys Gln Cys Gln Lys
35 40 45

Met Lys Ser Ala Leu Met Ala Phe Val Ile Lys Lys Lys Arg Arg His
50 55 60

Leu Tyr Ile Arg Ala Ala Asp Lys Lys Gln Ile Tyr Met Leu Thr Ala
65 70 75 80

Met Leu

<210>	946
<211>	39
<212>	PRT
<213>	Artificial Sequence

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<220>
<223> Computer-generated peptide variant
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<400> 946

Leu Tyr Lys Leu Phe Arg Lys Trp Leu Lys Arg Phe Arg Thr Asn Asn
1 5 10 15

Leu Leu Ala Lys Ala His Met Arg Met Arg Tyr Gln Leu Glu Cys Gln
 20 25 30

Glu Cys Arg Leu Leu Leu Ala
 35

<210> 947
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 947

Leu Leu Arg Phe Leu Pro Arg Leu Ile Lys Tyr Trp Arg Lys Ala Ser
 1 5 10 15

Val Lys Lys Ala Ser Gln
 20

<210> 948
 <211> 43
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 948

Arg Phe Arg Leu Met Arg Arg Trp Leu Lys Lys Leu Lys Arg Thr Ser
 1 5 10 15

Phe Arg Tyr Ile Leu Leu Leu Lys Val Arg Ser Lys Thr Tyr Ala Leu
 20 25 30

His Phe Lys Glu Ile Ala Pro Leu Tyr Ala Trp
 35 40

<210> 949
 <211> 45
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 949

Phe Phe Arg Leu Leu Arg Arg Met Leu Arg Lys Phe Lys Pro Gln Ala
 1 5 10 15

Lys Val Lys Pro Ala Ser Ala Tyr Pro Ile Glu Lys Lys Ala Ala Ala
 20 25 30

Lys Trp Thr Ala Glu Lys Lys Asn Leu Leu Lys His Ala
 35 40 45

<210> 950

<211> 61

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 950

Leu Trp Lys Leu Leu Lys Lys Leu Phe Arg Phe Tyr Lys Lys Pro Ala
 1 5 10 15

Lys Pro Phe Ser Lys Arg Asp Lys Met Lys Leu Lys Leu Cys Trp Val
 20 25 30

Ala Lys Ala Ala Thr Ala Pro Pro Leu Leu Met Asn Ala Leu Thr Ile
 35 40 45

Lys Ser Val Phe Met Ala Met Lys Arg Gly Arg Ala Asp
 50 55 60

<210> 951

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 951

Leu Phe Arg Phe Met Gln Lys Leu Leu Arg Ile Met Lys His Lys Arg
 1 5 10 15

Ile Ala Leu Ala Pro Ala Phe Leu Thr Lys Arg Pro Phe Ala Arg Arg
 20 25 30

Leu

<210> 952
 <211> 43
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 952

Arg Leu Lys Phe Met Ser Lys Ile Trp Arg Arg Phe Lys Lys Lys Glu
 1 5 10 15

Arg Ala Leu Glu Lys Ser Gln Leu Leu Lys Ala Arg Thr Leu Asp His
 20 25 30

Lys Asn Ala Ile Tyr Arg Cys Leu Leu Cys Ser
 35 40

<210> 953
 <211> 61
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 953

Phe Phe Arg Ile Ile Asn Arg Leu Tyr Lys Phe Leu Lys Arg Ala Val
 1 5 10 15

Ala Ala Arg Lys Asp Ala Glu Tyr Arg Ser Lys Pro Pro Lys Val Ala
 20 25 30

Met Trp Lys His Leu Leu Arg Leu Gln Val Lys Lys Arg Glu Lys Asp
 35 40 45

Asp Arg Arg Arg Tyr Val Tyr Ala Ala Leu Ala Cys Ala
 50 55 60

<210> 954
 <211> 41
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 954

Lys Ile Arg Leu Tyr Lys Arg Leu Leu Lys Lys Leu Lys Cys Gly Phe
 1 5 10 15

Ala Leu Lys Glu Ser Arg Pro Lys Arg Lys Lys Leu Ala Leu Glu Ala
 20 25 30

Lys Ser Arg Trp Arg Leu Pro Leu Phe
 35 40

<210> 955

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 955

Arg Met Lys Leu Ile Asn Lys Leu Leu Lys Lys Leu Lys Lys Leu Gln
 1 5 10 15

Asn His Asn Ala
 20

<210> 956

<211> 50

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 956

Arg Ile Lys Phe Leu Asn Lys Met Ile Arg Arg Leu Pro Lys Arg Thr
 1 5 10 15

Cys Leu Ala Leu Leu Met Trp Thr Ala Leu Arg Lys Lys Cys Pro Val
 20 25 30

His Phe Trp Ala Leu Lys Ala Asn Lys Arg Lys Ala Leu Lys Phe Pro
 35 40 45

Leu Arg
 50

<210> 957
 <211> 59
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 957

Lys Leu Arg Leu Leu His Lys Leu Leu Arg Lys Trp Pro Asn Ala Ala
 1 5 10 15

Asp Lys Val Ala Arg Arg Thr Pro Met Gly Gly Arg Ala Arg Arg Arg
 20 25 30

Ile Arg Cys Trp Arg Tyr Ala Pro Met Thr Asn Met Tyr Phe Leu Leu
 35 40 45

Leu Arg Leu Leu Ala Thr Thr Ser Trp Ala Arg
 50 55

<210> 958
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 958

Phe Ile Lys Leu Trp Cys Arg Leu Phe Arg Leu Met Lys Arg Leu Glu
 1 5 10 15

Val Trp Leu Glu Arg Thr Phe Ala Arg Lys Ala Lys
 20 25

<210> 959
 <211> 31
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 959

Lys Leu Lys Leu Leu Arg Lys Leu Met Arg Phe Leu Lys Arg Gly Lys
 1 5 10 15

Glu Pro Ile Asp Asp Ala Leu His Phe Leu Phe Asn Leu Lys Arg
 20 25 30

<210> 960
 <211> 45
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 960

Lys Trp Arg Tyr Leu Lys Arg Ile Trp Lys Ile Met Gln Ser Trp Ala
 1 5 10 15

Leu His Leu Arg Ile Leu Arg Leu Leu Asp Ala His Lys Arg Ile Leu
 20 25 30

Lys Lys Leu Lys Glu Ala Leu Ala Arg Asn Leu His Leu
 35 40 45

<210> 961
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 961

Phe Leu Lys Leu Leu His Arg Leu Met Lys Lys Leu Lys Lys Tyr Asn
 1 5 10 15

Arg Thr Ala Ala Asn Ile Lys Val
 20

<210> 962
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 962

Trp Leu Lys Phe Phe Arg Arg Met Leu Lys Leu Phe Cys Ser Trp Gly
 1 5 10 15

Lys Thr Ala Arg Leu Arg Arg His Met Leu Lys Leu Arg Gly
 20 25 30

<210> 963
 <211> 39
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 963

Phe Tyr Arg Phe Met Arg Arg Leu Phe Lys Leu Leu Cys Arg Lys Ala
 1 5 10 15

Lys Ala Ile Leu His Gln Trp Thr Leu Arg His Asp Ala Lys Trp Arg
 20 25 30

Arg Thr Ala Lys Leu Arg Tyr
 35

<210> 964
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 964

Ile Tyr Arg Leu Leu Pro Arg Leu Leu Lys Lys Trp Arg Pro Ala Lys
 1 5 10 15

Arg Thr Asp Ala Cys Arg Thr Leu Ser Ala Arg Arg
 20 25

<210> 965
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 965

Lys Phe Arg Phe Leu Pro Lys Leu Met Arg Lys Trp Arg Lys His Lys
 1 5 10 15

Glu Leu Cys Ile Lys Ala Leu Pro Leu Leu Met Lys Ala Thr Lys Arg
 20 25 30

His Ala Tyr
 35

<210> 966
 <211> 66
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 966

Lys Met Lys Trp Leu Lys Lys Leu Phe Lys Arg Ile Cys Gln Ser Asp
 1 5 10 15

Arg Arg Ala Val Glu His Ser Phe Pro Cys Ala Tyr Leu Ser Ala Leu
 20 25 30

Ala Ala Cys Tyr Leu Lys Lys Arg Val Met Leu Trp Tyr Lys Asn Cys
 35 40 45

Arg Lys Lys Arg Ser Leu Lys Leu Lys Leu Arg Gly Lys Thr Trp Ala
 50 55 60

Leu Ala
 65

<210> 967
 <211> 39
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 967

Met Phe Arg Tyr Leu Lys Lys Leu Phe Arg Trp Trp Arg Asn Lys Ala
 1 5 10 15

Leu Lys Gln Tyr Cys Lys Ala Arg Leu Arg Gln Ala Arg Tyr Thr Ala
 20 25 30

Lys Trp Asn Ser Leu Gly Ala

35

<210> 968
 <211> 44
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 968

Phe Leu Lys Phe Leu Cys Lys Ile Trp Lys Tyr Met Lys Lys Gly Leu
 1 5 10 15

Tyr Ser Lys Leu Leu Arg Arg Pro Leu Leu Arg Leu Lys Leu Arg Tyr
 20 25 30

Leu Gly Leu Arg Asp Gly Glu Ala Leu Thr Ala Ala
 35 40

<210> 969
 <211> 56
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 969

Phe Leu Lys Leu Tyr Arg Lys Tyr Met Arg Arg Met Gln Ser Ala Thr
 1 5 10 15

Met Asp Leu Leu Ala Ile Lys Val Phe Val Cys Arg Arg Arg Leu Arg
 20 25 30

Arg Gln Arg Lys Lys Arg Trp Ala Tyr Ser Asp Tyr Ala Arg Ala Thr
 35 40 45

Leu Ala Ala Lys Ser Asp Ala Phe
 50 55

<210> 970
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 970

Arg Phe Arg Trp Met Gln Arg Leu Leu Arg Lys Leu Lys His Met Ala
1 5 10 15

Lys Leu Asp Leu Cys Tyr Cys
20

<210> 971

<211> 49

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 971

Phe Leu Arg Phe Leu Cys Lys Leu Met Lys Arg Leu His Arg Ala Val
1 5 10 15

Leu Arg Lys Tyr His Val Asp Arg Arg Lys Ala Glu Pro Tyr Tyr Arg
20 25 30

Ser Asn Lys Val Ala Glu Leu Lys Cys Lys Ala Leu Thr His Lys Arg
35 40 45

Leu

<210> 972

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 972

Lys Leu Arg Phe Leu Arg Arg Leu Trp Lys Lys Leu His His Arg Leu
1 5 10 15

Cys Asp Val Leu Pro His Arg Phe Phe Trp Lys Leu Met Leu Arg Cys
20 25 30

<210> 973

<211> 48

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 973

Lys Ile Arg Leu Ile Cys Arg Met Trp Arg Lys Phe Arg Arg Gly Ile
1 5 10 15

Lys Ala Met Ser Leu Met Lys Leu Tyr Val His Met Lys Lys Trp Ala
20 25 30

Leu Leu Ala Pro Ser Ala Lys Asp Cys Leu Ala Ala Arg Lys Ile Arg
35 40 45

<210> 974

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 974

Phe Phe Lys Leu Leu Gln Lys Leu Leu Lys Arg Leu Arg Arg Ser Phe
1 5 10 15

Pro Ala Arg Glu Gln Ser Lys
20

<210> 975

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 975

Leu Phe Arg Met Ile Arg Arg Leu Phe Lys Lys Leu Arg Gln Lys Ala
1 5 10 15

Cys Thr Ala Lys Asp Leu Arg Ala Ala Leu Leu Arg Lys Trp Glu Arg
20 25 30

Ala

<210> 976
 <211> 26
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 976

Arg Trp Lys Phe Trp Lys Lys Trp Leu Lys Leu Met Ser Thr Ala Lys
 1 5 10 15

Ala Met Ala Cys Pro Arg Lys Leu Ala Lys
 20 25

<210> 977
 <211> 44
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 977

Arg Phe Arg Ile Trp Arg Lys Leu Trp Lys Phe Trp Arg Lys Asp Asp
 1 5 10 15

Lys Lys Leu Arg Gly Trp Ala Leu Lys Glu Cys Ala Ile Lys Val Ala
 20 25 30

Arg Phe Leu Gly Leu Ala Leu Ala Met Gly Thr Ala
 35 40

<210> 978
 <211> 85
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 978

Trp Ile Arg Phe Leu Arg Lys Met Leu Lys Leu Tyr Thr Lys Tyr Lys
 1 5 10 15

Ala Glu Phe Trp Arg Ala Leu Lys Ala Ala Asp Lys Pro Ala Ala Lys
 20 25 30

Ala Arg Gly Leu Lys Phe Tyr Leu Ile Gly Lys Arg Arg Arg Val Arg
 35 40 45

Glu Ala Leu Gly Glu Ala Lys Thr Ala Gln Cys Leu Leu Lys Lys Tyr
 50 55 60

Trp Leu Leu Ala Gln Lys Gly Leu His Lys Met His Tyr Cys Gly Leu
 65 70 75 80

Val Trp Ile Ala Thr
 85

<210> 979
 <211> 59
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 979

Tyr Leu Arg Met Phe Gln Lys Ile Leu Lys Arg Leu Lys Cys Ala Met
 1 5 10 15

Asp Trp Ser Lys Val Lys Ala Ala Trp Phe Cys Ala Asp Ala Arg Lys
 20 25 30

Lys Ala Arg Ser Lys Ala Arg Thr Met Val Leu Asn Lys Val Lys Tyr
 35 40 45

Ala Pro Ala Lys Ala Lys Lys Leu Lys Ser Leu
 50 55

<210> 980
 <211> 54
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 980

Lys Ile Lys Leu Leu Thr Arg Trp Leu Lys Arg Leu Thr Lys Asp Glu
 1 5 10 15

Gly Lys Ala Pro Phe Lys Asn Ser Arg Met Leu Lys Val Leu Leu Ala

20

25

30

Pro Arg Arg Arg Asp Gln Arg Arg Ala Arg His Leu Leu Leu Lys Glu
 35 40 45

Ile His Phe Arg Ile Val
 50

<210> 981
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 981

Phe Leu Arg Leu Ile Lys Lys Leu Leu Lys Arg Leu Arg Ser Trp Cys
 1 5 10 15

Lys Glu Ala Val Val Tyr His Arg Glu Lys Arg Lys Leu Gln Ala Trp
 20 25 30

Ala Pro

<210> 982
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 982

Lys Phe Arg Met Leu Gln Lys Met Leu Arg Lys Leu Lys Lys Ala Arg
 1 5 10 15

Ala Ala Tyr Thr Asn Asn Asp Gly Ala
 20 25

<210> 983
 <211> 46
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 983

Arg Leu Arg Leu Phe Cys Arg Phe Phe Arg Arg Leu Lys Arg Pro Ser
 1 5 10 15

Ile Ala Asn Ala Lys Arg Ala Val Ala Arg Tyr Lys Lys Leu His Asn
 20 25 30

Glu Gln Trp Arg Trp Ala Val Leu Lys Cys Leu Asn Lys Asp
 35 40 45

<210> 984

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 984

Leu Met Arg Ile Met Arg Arg Met Met Lys Met Phe Gln Lys Leu Lys
 1 5 10 15

Val Asp Pro Lys Ile Ala Arg Asn Thr Leu Leu Leu Arg Ala Ala Lys
 20 25 30

Leu Val Lys Pro Gly Arg Lys Ser
 35 40

<210> 985

<211> 56

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 985

Lys Trp Lys Tyr Trp Thr Arg Phe Leu Arg Trp Met Lys Ser Asn Tyr
 1 5 10 15

Lys Lys Ala Ser Lys Leu Leu Lys Leu Glu Ala Asn Ser Thr Phe Arg
 20 25 30

Ala Lys Leu Ala Leu Met Arg Leu Arg Ala Gln Ser Lys Lys Ala Ala
 35 40 45

Arg Gly Phe Phe Ser Ala Asp His
 50 55

<210> 986
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 986

Arg Leu Arg Trp Leu Lys Arg Phe Leu Arg Met Met Lys Arg Gln Ala
 1 5 10 15

Ala Ala Leu Asn Glu Ala Leu Lys Arg Phe Arg Met Ala Ala Thr Ala
 20 25 30

Ala Thr Phe Val His Asn Ala Lys
 35 40

<210> 987
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 987

Arg Tyr Arg Leu Phe Lys Arg Met Ile Arg Leu Phe Thr His Lys Ala
 1 5 10 15

Phe Arg Ala Ser Asp Ala Gln Lys Leu
 20 25

<210> 988
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 988

Leu Ile Lys Met Leu Lys Lys Leu Tyr Lys Tyr Leu Gln Arg Val Glu
 1 5 10 15

Thr Lys Cys Lys Leu Leu Ala Trp
20

<210> 989
<211> 37
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 989

Ile Phe Lys Leu Ile Ser Arg Leu Leu Arg Lys Leu Lys Arg Lys Leu
1 5 10 15

Asn Ser Lys Phe Ser Ala Phe Thr Lys Ala Arg Gly Tyr Leu Ile Leu
20 25 30

Ala Ala Met Thr Leu
35

<210> 990
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 990

Arg Leu Lys Leu Leu Arg Lys Phe Ile Lys Phe Leu Arg Arg Phe Arg
1 5 10 15

Leu Cys Phe Lys Met Lys Leu Asn Gln His Lys Ile Ala Asn Leu Gly
20 25 30

Tyr Ala Lys
35

<210> 991
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 991

Tyr Ile Arg Phe Met Arg Arg Leu Ile Lys Phe Leu Arg Gln Arg Lys
 1 5 10 15

Trp Ala Arg Ala His Lys Ala Val Leu Ser Gln Lys Lys Phe Arg Ala
 20 25 30

Ala Ala Leu
 35

<210> 992
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 992

Lys Phe Arg Leu Leu Arg Arg Tyr Leu Lys Met Ile Arg Lys Gln Glu
 1 5 10 15

Gln Ala Leu Arg Thr Arg Pro Arg Ala Leu Leu Ala
 20 25

<210> 993
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 993

Leu Phe Arg Tyr Phe Gln Lys Phe Trp Arg Arg Leu Arg Lys Ala Lys
 1 5 10 15

Asn Lys Ser Lys Ala Tyr Asp Tyr Gln Ala Leu Arg Ala Leu Asp Ala
 20 25 30

Arg Cys Lys
 35

<210> 994
 <211> 31
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 994

Leu	Leu	Lys	Leu	Leu	Lys	Lys	Met	Met	Arg	Lys	Trp	Lys	Thr	Tyr	His
1				5					10					15	

Lys	Ile	Arg	Ser	Ala	His	His	Ala	Lys	Met	Lys	Ser	Ala	Leu	Trp
		20						25					30	

<210> 995

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 995

Leu	Phe	Arg	Phe	Leu	Arg	Lys	Leu	Leu	Lys	Ile	Tyr	Lys	Lys	Ser	Asp
1				5					10					15	

Gln	Ala	Arg	Pro
			20

<210> 996

<211> 49

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 996

Arg	Leu	Arg	Leu	Leu	Arg	Lys	Ile	Tyr	Lys	Leu	Leu	Lys	Arg	Thr	Ala
1				5					10					15	

Leu	Asp	Asp	Leu	Lys	Lys	Thr	His	Gln	Arg	Ala	Leu	Arg	Lys	Leu	Ile
			20					25					30		

Ser	Ala	Ala	Arg	Lys	Phe	Leu	Leu	Asp	Pro	Phe	Leu	Phe	Arg	Arg	Ser
		35					40					45			

Arg

<210> 997

<211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 997

Arg Tyr Lys Leu Ile Lys Lys Ile Tyr Lys Arg Phe Arg Arg Ile Asp
 1 5 10 15

Asp Gln Ala Leu Glu Leu Trp Leu Ile Trp Arg Ala Leu Leu Ala Gln
 20 25 30

His Lys Met Lys
 35

<210> 998
 <211> 88
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 998

Lys Met Arg Leu Leu Lys Lys Ile Leu Lys Arg Ile Arg Lys Asn Lys
 1 5 10 15

Leu Lys Val Arg Ile Ala Tyr Glu Lys Lys Met Lys Thr Arg Phe Arg
 20 25 30

Thr Gly Lys Arg Trp Lys His Leu Lys Arg Val Met Tyr Tyr Asp Lys
 35 40 45

Leu Lys Arg Leu Glu Leu Tyr Leu Leu Ser Phe Leu Phe Ala Thr Leu
 50 55 60

Gly Lys His Thr Ala Ser Cys Val Val Ala Leu Leu Ile Leu Tyr Ala
 65 70 75 80

Glu Lys Ala Ile Cys Gln Ala Lys
 85

<210> 999
 <211> 38
 <212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 999

Trp Leu Arg Leu Ile His Arg Trp Met Arg Arg Leu Lys Gln Trp Leu
1 5 10 15

Ser Leu Asp Asn Gln Ala Arg Trp Arg His Ala Ala Trp Arg Leu Lys
20 25 30

Leu Arg Gln Lys Ser Ile
35

<210> 1000

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1000

Lys Leu Lys Leu Leu Ser Lys Tyr Met Lys Arg Tyr Arg Lys Pro Ile
1 5 10 15

Phe Phe Gly Ala Leu
20

<210> 1001

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1001

Leu Met Arg Leu Phe Arg Lys Ile Phe Arg Phe Leu Ser Arg Asp Arg
1 5 10 15

His Ala Phe Ala Ala Gly Lys Thr Leu
20 25

<210> 1002

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1002

Arg	Leu	Arg	Phe	Trp	His	Arg	Tyr	Leu	Arg	Lys	Phe	Arg	Lys	Lys	Leu
1				5				10						15	

Ala	Leu	Gly	Tyr	Leu	Met	Arg	His	Glu	Ala	Lys	Ala	Arg	Gln	Thr	Cys
			20					25					30		

Leu	Leu	Gly	Asp
			35

<210> 1003

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1003

Arg	Leu	Lys	Leu	Leu	Lys	Lys	Trp	Leu	Lys	Tyr	Leu	Pro	Arg	Lys	Lys
1				5				10						15	

Phe	Ile	Ala	Leu	Arg	Asp	Ala
			20			

<210> 1004

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1004

Arg	Leu	Arg	Leu	Leu	Lys	Arg	Leu	Leu	Lys	Lys	Leu	Lys	Arg	Leu	Gly
1				5				10						15	

Lys	Thr	Met	Lys	Tyr	Met	Glu	Leu	Lys	Ser	Leu	Arg	Ala	Glu	Leu	Lys
			20					25					30		

Asn	His	Arg
		35

<210> 1005
 <211> 45
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1005

Lys Trp Arg Met Leu His Lys Ile Tyr Lys Lys Leu Pro His Leu Gly
 1 5 10 15

Arg Met Asp Ala Ala Ala Phe Arg Ser Arg Arg Glu Ala Ile Ala Ala
 20 25 30

Leu Arg Leu His Leu Leu Ala Lys His Leu Arg Leu Lys
 35 40 45

<210> 1006
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1006

Arg Leu Lys Leu Phe Gln Arg Met Leu Arg Phe Leu Lys Arg Met Ala
 1 5 10 15

Ala Trp Ala Thr Gln Val Gly
 20

<210> 1007
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1007

Arg Leu Arg Phe Tyr Pro Lys Leu Ile Lys Lys Ile Ser Lys Leu Met
 1 5 10 15

Ala Ala Asn Cys Ala
 20

<210> 1008
 <211> 38
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1008

Ile Met Lys Tyr Leu Lys Lys Phe Phe Arg Arg Trp Ser Arg Leu Pro
 1 5 10 15

Leu Leu Leu Arg Phe Arg Ser Leu Pro His Arg Lys Arg Glu Ala Pro
 20 25 30

Asn Arg His Trp Ala Leu
 35

<210> 1009
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1009

Ile Leu Lys Leu Trp Arg Lys Leu Ile Arg Lys Met Lys Lys Met Gln
 1 5 10 15

Leu Tyr Gly Met Arg Leu Pro Asn Arg Ala Trp Ala Arg Thr
 20 25 30

<210> 1010
 <211> 56
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1010

Lys Leu Lys Leu Met Lys Arg Trp Tyr Arg Leu Phe Arg Lys Ala Asp
 1 5 10 15

Met Trp Ala Leu Gly His Gly Val Val Arg Leu Val Lys Ala Lys Ala
 20 25 30

Arg Arg Glu Ala Arg Arg Lys Glu Ser Asp Ala Lys Arg Phe Gln Leu
35 40 45

His Asn Lys Met Arg Ala Cys Ala
50 55

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<210> 1011
<211> 31
<212> PRT
<213> Artificial Sequence
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<220>
<223> Computer-generated peptide variant

 $\langle 400 \rangle$ 1011

Met Trp Lys Leu Trp Pro Arg Phe Met Arg Arg Ile Lys Arg Thr Leu
1 5 10 15

Leu Leu Arg Ala Leu Lys Ala Arg Gln Gly Gly Ala Asn Leu Lys
20 25 30

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<210> 1012
<211> 21
<212> PRT
<213> Artificial Sequence
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<220>
<223> Computer-generated peptide variant

$\langle 400 \rangle$ 1012

Arg Ile Lys Trp Phe Lys Arg Leu Leu Lys Lys Leu Asn His Lys Ser
1 5 10 15

Val Ala Asn Leu Leu
20

```
<210> 1013
<211> 50
<212> PRT
<213> Artificial Sequence
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<220>
<223> Computer-generated peptide variant

<400> 1013

Arg Leu Lys Leu Met Arg Lys Trp Leu Lys Arg Leu Ser Cys Leu Lys
1 5 10 15

Lys Ala Leu Lys Val Ile Tyr Met Leu Ala Leu Lys Leu Gly Gly Pro
 20 25 30

Lys Ala Phe Gln Asn Thr Ala Met Arg Lys Lys Leu Leu Met His Gly
 35 40 45

Ala Ala
 50

<210> 1014
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1014

Ile Leu Arg Trp Leu Lys Lys Trp Trp Lys Lys Leu Lys Cys Glu Phe
 1 5 10 15

Pro Arg Ala Leu Arg Arg Ala Lys Leu Asn Pro Asp Glu Ala Phe Ala
 20 25 30

<210> 1015
 <211> 85
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1015

Lys Tyr Lys Tyr Phe Arg Lys Leu Leu Arg Arg Trp Arg Arg Lys Pro
 1 5 10 15

Leu Glu Phe Arg Arg Thr Asn Arg Trp Tyr Leu Thr Leu Ser Ala Lys
 20 25 30

Leu Trp Lys Ala Glu Asn Lys Val Arg Gln His Trp Met Arg Ala Lys
 35 40 45

Ser Arg Phe Val Leu Phe Arg Lys Leu Lys Ala Asn Ala Ala Arg Ala
 50 55 60

Arg Ala Glu Ala Tyr Ala Trp Arg Lys Pro Tyr Ile Leu Val Phe Lys

<220>
<223> Computer-generated peptide variant

Arg Met Lys Ile Phe His Arg Tyr Ile Lys Arg Leu Gln Arg Leu Pro
1 5 10 15

Asn Arg Tyr Leu Leu His Lys Lys Ala Ala Lys Glu Leu Ala Pro Trp
20 25 30

Val Lys Ala Ala Pro Lys Gly Ala Ala His Leu Leu Pro Gln Val Glu
35 40 45

Arg Cys Leu Asn Ala Arg Lys Pro Asp Ser Asn Asn Phe Lys Ala Ser
50 55 60

Phe Thr Leu His Arg Ala Val Arg Arg Leu Lys Ala Tyr Arg Lys Arg
65 70 75 80

Lys

<220>
<223> Computer-generated peptide variant

Arg Leu Arg Leu Leu Arg Lys Phe Tyr Arg Leu Leu Lys Lys Val Thr
1 5 10 15

Ile Glu Arg Tyr Tyr Leu Ser Leu Cys Ile Ala Ala Arg His Lys Lys
20 25 30

Lys Val Ala Leu Trp Cys Ala Ser Leu Ile Arg Lys Asp Leu Lys Ala
 35 40 45

<210> 1018
 <211> 73
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1018

Lys Met Arg Leu Leu Arg Lys Tyr Leu Arg Arg Phe Lys Arg Arg Lys
 1 5 10 15

Pro Glu Ala Ala Phe Ala Ala Ala Leu Leu Phe Trp Arg Arg Tyr Ala
 20 25 30

Cys Asp Cys Ser Arg Val Arg Pro Lys Tyr Tyr Val Ile Arg Leu Trp
 35 40 45

Tyr Ala Gly Leu Leu Arg Val Ala Arg Trp Leu Val Arg Ala Arg Pro
 50 55 60

Phe Gln Gln Arg Val Leu Arg Asn Leu
 65 70

<210> 1019
 <211> 38
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1019

Phe Leu Arg Leu Leu Asn Arg Trp Phe Arg Lys Phe Lys His Arg Gln
 1 5 10 15

Lys Asp Pro Leu His Ala Glu Ala Arg Ala Leu Trp His Leu Lys Leu
 20 25 30

Leu Lys Gln Leu Arg Glu
 35

<210> 1020

<211> 41
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1020

Ile Trp Lys Ile Leu Lys Arg Met Phe Arg Arg Leu Lys Lys Leu Arg
 1 5 10 15

Tyr Lys Thr Leu Lys Leu Leu Gln Arg Val Ala Ile Leu Cys Val Leu
 20 25 30

Glu Leu Met Gln Asn Ser Leu Lys Val
 35 40

<210> 1021
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1021

Leu Phe Lys Ile Leu Asn Arg Tyr Trp Lys Phe Met Ser Lys Arg Lys
 1 5 10 15

Leu Arg Pro Ala Lys Pro Cys Ala Ala His Ala Met Ala Leu Phe Arg
 20 25 30

<210> 1022
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1022

Trp Leu Arg Leu Tyr Lys Arg Leu Phe Arg Lys Phe Thr Gln Ala Leu
 1 5 10 15

Trp Ala Asp Arg Leu Arg Lys
 20

<210> 1023

<211> 67
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1023

Arg Phe Lys Leu Phe Thr Lys Phe Phe Lys Leu Trp Arg Lys Lys Pro
 1 5 10 15

Ala Lys Leu Ala Leu Gly Trp Ala Met Pro Gln Lys Thr Lys Phe Leu
 20 25 30

Arg Leu Leu Asn Leu Lys Ala His Val Thr Gly Pro Ala Leu Trp Pro
 35 40 45

Thr Val Ala His Ala Arg Ala Lys Ala Ala Ala Lys Trp Lys Tyr Lys
 50 55 60

Arg Gly Ser
 65

<210> 1024
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1024

Ile Ile Lys Leu Phe Arg Arg Trp Phe Arg Arg Met Arg Gln Leu Leu
 1 5 10 15

Lys Ala Leu Glu Ala
 20

<210> 1025
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1025

Arg Leu Arg Leu Tyr Cys Arg Tyr Tyr Lys Arg Leu Arg Cys Tyr Leu

1 5 10 15

Ala Arg Ala Lys Cys His Ala Asn
20

<210> 1026
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 1026

Lys Leu Lys Ile Trp Lys Lys Ile Ile Arg Lys Trp Lys Ser Gly Ala
1 5 10 15

Trp Arg Asp Gln Arg Tyr Ala Ala Leu Leu Leu
20 25

<210> 1027
<211> 45
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 1027

Phe Ile Lys Phe Leu Lys Arg Trp Leu Lys Leu Leu Arg Ser Ala Leu
1 5 10 15

Lys Cys Arg Gln Leu Arg His Lys Thr Val Leu Leu Lys Met Tyr Pro
20 25 30

Cys Leu Leu Trp Ala Ala Gly Gly His Lys Trp Lys Met
35 40 45

<210> 1028
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 1028

Met Ile Arg Leu Ile Asn Lys Leu Ile Lys Arg Leu Thr Lys Leu Glu

1 5 10 15

Met Ala Ala Lys Arg Leu Tyr Gly Asn Arg Ala Trp Arg Leu Arg Ser
20 25 30

<210> 1029
<211> 34
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 1029

Phe Met Lys Phe Leu Arg Arg Leu Leu Arg Leu Phe Gln Cys Arg Arg
1 5 10 15

Ser Cys Glu Leu Lys Phe His Ala Phe Leu Ala Trp Leu Ser Arg Lys
20 25 30

Thr Ala

<210> 1030
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 1030

Lys Trp Lys Met Leu Asn Arg Leu Leu Arg Lys Met Pro Lys Thr Asn
1 5 10 15

Leu Leu Trp Trp
20

<210> 1031
<211> 43
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 1031

Leu Leu Lys Tyr Leu Arg Arg Tyr Tyr Lys Arg Leu Lys Gln His Ala

Pro Leu Arg Lys Arg Met Lys Leu His Arg Pro Ala Lys Gln Ser Lys
20 25 30

Cys Arg Leu Ala His Glu Leu Ile Asp Arg Leu
35 40

<210>	1032
<211>	26
<212>	PRT
<213>	Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 1032

Ile Trp Lys Phe Phe Pro Arg Leu Leu Arg Arg Leu Thr Lys Cys Lys
1 5 10 15

Ala Trp Leu Ala Gln Ala Cys Asn Lys Ala
20 25

<210>	1033
<211>	31
<212>	PRT
<213>	Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 1033

Leu Leu Arg Tyr Phe His Lys Phe Tyr Lys Lys Phe Lys Arg Ala Lys
1 5 10 15

Lys Tyr Ala Asn Ala Val Leu Ala Asn Asp Trp Lys Arg Ala Gly
20 25 30

<210>	1034
<211>	32
<212>	PRT
<213>	Artificial Sequence

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<220>
<223> Computer-generated peptide variant
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$\langle 400 \rangle$ 1034

Lys Leu Arg Phe Trp Pro Arg Ile Met Arg Lys Phe Lys Asn Arg Ala

<220>
<223> Computer-generated peptide variant

Lys Phe Arg Ile Tyr Arg Arg Met Leu Arg Ile Ile Lys Lys Met Ser
1 5 10 15

Ser Ile Pro Ala Lys Arg Ala Leu Arg Lys Leu Phe Cys Lys Leu Ala
35 40 45

Arg Tyr Phe Leu Arg Lys Leu Leu Gln Lys Lys Ile Phe Cys Met Leu
50 55 60

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<210> 1036
<211> 62
<212> PRT
<213> Artificial Sequence
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<220>
<223> Computer-generated peptide variant

Tyr Leu Arg Trp Tyr Lys Lys Leu Leu Lys Arg Met Lys Lys Ser Arg
1 5 10 15

Thr Arg His Pro Ile Arg Leu Lys Lys Leu Gly Trp Leu Asn Lys Lys
20 25 30

Gln Leu Leu Pro Ala Trp Tyr Lys Ala Ser Ile Pro Met Lys Ala Ala
35 40 45

Arg Ala Leu Leu Arg Lys Glu His Val Phe Asp Leu Glu Pro
 50 55 60

<210> 1037
 <211> 65
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1037

Arg Met Arg Trp Phe Arg Arg Ile Met Lys Arg Leu Cys Arg Leu Leu
 1 5 10 15

Phe Lys Lys Ala Ala Ser Gln Leu Lys Cys Asn His Phe Leu Lys Ala
 20 25 30

Arg Asp Leu Lys Leu Tyr Leu Arg Lys Ala Gly Thr Asn Trp Val Cys
 35 40 45

Arg Leu Gln Tyr Ala Ala Cys Ser His Arg Val Lys Ala Arg Ala Asn
 50 55 60

Phe
 65

<210> 1038
 <211> 27
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1038

Leu Phe Lys Leu Trp Cys Lys Leu Phe Arg Arg Leu His His Lys Leu
 1 5 10 15

Pro Cys Ser Leu Ala Val Arg Trp Phe Arg Arg
 20 25

<210> 1039
 <211> 46
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1039

Lys Leu Arg Ile Phe His Arg Trp Leu Lys Phe Phe Arg Arg Ala Ala
 1 5 10 15

Leu Thr Ile Lys Ala Ala Arg Trp Ile Leu Asn Asn Ala Arg Pro Lys
 20 25 30

Ala Arg Pro Ala Val Gly Arg Ala Asp Ala Leu Thr Cys Val
 35 40 45

<210> 1040

<211> 96

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1040

Leu Phe Lys Leu Tyr Lys Lys Phe Trp Lys Arg Leu Gln Asn Leu Arg
 1 5 10 15

Lys Met Arg Leu Lys Cys Leu Arg Leu Ala Lys Ala Lys Arg Gly Arg
 20 25 30

Glu Glu Trp Arg Ala Val Lys Ala Cys Cys His Arg Ser Lys Gly Asn
 35 40 45

Lys Leu Lys Tyr Val Leu Leu Lys Ala Lys Glu Gln Pro Phe Tyr Arg
 50 55 60

Ala Lys Met Ile Gly Lys Ala Phe Phe Ala Ala Ala Ala Arg Arg Met
 65 70 75 80

Tyr Leu Ile Ala Arg Gln Asn Cys Glu His Lys Arg Lys Arg Ala Lys
 85 90 95

<210> 1041

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1041

Lys Met Arg Ile Tyr Cys Lys Leu Trp Lys Lys Leu Arg His Leu Leu
1 5 10 15

His Arg Ala Arg Leu Gln Ala Cys
20

<210> 1042

<211> 71

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1042

Phe Leu Lys Ile Ile Asn Arg Leu Phe Lys Lys Leu Pro Arg Leu Thr
1 5 10 15

Phe Gly Lys Lys Cys Arg Leu Lys Cys Thr Leu Lys Ala Gln Ala Tyr
20 25 30

Gln Ala Ala Glu Thr Lys Ala Val Phe Gly Arg Lys Arg Arg Leu Ala
35 40 45

Trp Asp Met Ala Lys Arg Pro Lys Lys Lys Lys Lys Leu Gly Gln Ser
50 55 60

Leu Glu Leu Glu Gln Ala His
65 70

<210> 1043

<211> 45

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1043

Arg Phe Lys Leu Trp Lys Arg Leu Leu Arg Leu Leu His Lys Arg Leu
1 5 10 15

Arg Leu Lys Asn Ile Ala Thr Ala Met His Asn Glu Ser Ala Lys Ala
20 25 30

Gln Ala Arg Leu Leu Gly Gln His Val Glu His Ser Ile
 35 40 45

<210> 1044
 <211> 48
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1044

Phe Leu Lys Leu Tyr Arg Lys Ile Phe Arg Leu Ile Lys Gln Asn Ala
 1 5 10 15

Ile Gln Met Leu Ile Arg Phe Ala Leu His Ile Lys Gln Leu Ala Ile
 20 25 30

Lys Leu Ala Thr Leu Cys Arg Arg Asp Arg Arg Cys Leu Glu Ala Lys
 35 40 45

<210> 1045
 <211> 94
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1045

Lys Leu Lys Met Leu His Arg Leu Leu Lys Arg Ile Arg Arg Lys Leu
 1 5 10 15

Ile Glu Arg Tyr Leu Gln Ala Leu Ala Lys Glu Trp Arg Ser Gly Glu
 20 25 30

Lys Leu Arg Pro Arg Ile Leu Met Cys Ala Lys Lys Pro Phe Gly Met
 35 40 45

Lys Leu Gly Ala Glu Lys Ser Trp Met Thr Lys Ser Arg Lys Lys His
 50 55 60

Met Ala Lys Arg Thr Ala Gln Ala Ala Gly Thr Asp Leu Lys Cys Glu
 65 70 75 80

Ala Ser Ala Lys Leu Tyr Phe Leu Arg Lys Ala Glu Met Arg

85

90

<210> 1046
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1046

Lys Phe Arg Phe Phe His Arg Phe Trp Lys Leu Tyr Arg Arg His Arg
 1 5 10 15

Leu Arg Leu Cys Arg Leu Met Gln His Ala Pro Arg Arg Ala Arg Leu
 20 25 30

Cys Leu Ala
 35

<210> 1047
 <211> 66
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1047

Arg Phe Arg Tyr Leu Arg Arg Leu Leu Arg Leu Phe Lys Pro Lys Lys
 1 5 10 15

Arg Thr Cys Leu Gln Tyr Cys Phe Ala Ala Gln Leu Asp Glu Leu Gln
 20 25 30

Ala Asp Arg Ser Glu Glu Lys Leu Arg Trp Ala Lys Tyr Phe Lys Arg
 35 40 45

Ile Ala His Ala Leu Ala Lys His Cys Gly Arg Lys Arg Arg Arg Lys
 50 55 60

Trp Asn
 65

<210> 1048
 <211> 36
 <212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1048

Leu Leu Lys Leu Leu Lys Arg Tyr Phe Arg Lys Phe Gln Asn Glu Pro
1 5 10 15

Tyr Tyr Cys Leu Ala Gly Thr Arg His His Arg Tyr Lys Asp Leu Lys
20 25 30

Leu Lys Lys Ala
35

<210> 1049

<211> 82

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1049

Arg Ile Arg Tyr Leu Lys Lys Trp Tyr Lys Phe Leu Gln Arg His Asp
1 5 10 15

Arg Gly Ala Arg Ile Ala Thr Arg Glu Arg Tyr Tyr His Phe Arg Lys
20 25 30

Ala Thr Lys Lys His Lys Ala Asn Thr Leu Thr Arg Leu Lys Arg Leu
35 40 45

Cys Asn Leu Cys Lys Ile Lys Cys Ala Leu Ser Cys Asp Asn Lys Ala
50 55 60

Ala Asp Glu Lys Lys Ala Met Trp Leu Ala Lys Ala Leu Pro Arg Arg
65 70 75 80

Lys Met

<210> 1050

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1050

Ile	Leu	Arg	Met	Trp	Lys	Arg	Tyr	Leu	Arg	Phe	Tyr	Lys	Arg	Ala	Ser
1				5				10						15	

Lys	Leu	Phe	Leu
			20

<210> 1051

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1051

Leu	Ile	Lys	Leu	Leu	Pro	Lys	Leu	Tyr	Arg	Ile	Ile	Asn	Arg	Leu	Ala
1			5					10						15	

Lys	Tyr	Arg	Arg	Asn	Leu	Trp	Met	Cys	Arg	Ile	Lys	Tyr
				20				25				

<210> 1052

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1052

Lys	Tyr	Lys	Phe	Leu	Thr	Lys	Phe	Leu	Lys	Leu	Phe	Gln	Arg	Pro	Tyr
1			5					10						15	

Leu	Leu	Leu	Leu	Ile	Arg	Asn
				20		

<210> 1053

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1053

Arg Tyr Lys Leu Tyr Ser Arg Trp Phe Lys Trp Leu Pro Lys Ala Arg
 1 5 10 15

Ala Arg Leu Val
 20

<210> 1054
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1054

Lys Phe Lys Leu Leu Lys Lys Ile Ile Arg Met Leu Arg His His Ala
 1 5 10 15

Lys His Cys Asn Arg Ala Ala Lys Arg Leu Arg Glu Lys Ile Ala Gly
 20 25 30

Ala Tyr Leu Val
 35

<210> 1055
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1055

Lys Leu Arg Leu Leu Arg Arg Ile Leu Lys Met Trp Pro Gln Phe Lys
 1 5 10 15

Glu Gly Arg Leu
 20

<210> 1056
 <211> 45
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1056

Arg Leu Arg Leu Leu Asn Arg Tyr Met Lys Trp Leu Lys Arg Leu Cys
 1 5 10 15

Ala Asp Gly Arg Ala Tyr His Cys Cys Thr Cys Ala Lys Arg Ala Tyr
 20 25 30

Tyr Ile Arg Ala Ala Ala Arg Asp Lys Leu Thr Lys Leu
 35 40 45

<210> 1057
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1057

Phe Ile Arg Phe Leu Arg Lys Phe Met Lys Leu Ile Lys Lys Tyr Ala
 1 5 10 15

His Leu Lys Leu Leu Lys Asn Lys Leu
 20 25

<210> 1058
 <211> 65
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1058

Leu Met Arg Met Phe Arg Arg Leu Phe Lys Tyr Phe Lys Arg Ile Lys
 1 5 10 15

Ser Lys His Ala Ala Lys Trp Met Lys Arg Lys Cys Trp Leu Leu Lys
 20 25 30

Ala Leu Leu Phe Lys Ala Val Pro Lys Ala Ala Glu Val Arg Arg Leu
 35 40 45

Lys Gln Leu Val Arg Ser Ser Leu Arg Leu Arg Gly Trp Tyr Phe Leu
 50 55 60

Val

65

<210> 1059

<211> 92

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1059

Arg Phe Arg Phe Leu Lys Lys Leu Leu Arg Leu Leu Pro Thr Lys Lys
 1 5 10 15

Pro Asp Pro Tyr Thr Glu Ala Asp Cys Gly Leu Pro Ser Thr Arg Glu
 20 25 30

Asp Leu Arg Arg His Arg Ser Leu Arg Leu Ala Leu Lys Lys Arg Ala
 35 40 45

Leu Phe Lys Arg Ser His Ala Leu Thr Asn Lys Ala Gly Lys Asp Arg
 50 55 60

Trp Tyr Lys Ala Val Trp Ala Asp Leu Lys Thr Phe Asn Lys Phe Pro
 65 70 75 80

Arg Arg Phe Leu Pro Lys Pro Lys Ala Pro Arg Leu
 85 90

<210> 1060

<211> 78

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1060

Arg Met Arg Phe Phe Lys Lys Tyr Trp Arg Arg Leu Lys Pro Cys Trp
 1 5 10 15

Ala Gly Met Tyr Phe Leu Arg Ala Thr Gly Arg Met Thr Leu Lys Leu
 20 25 30

Arg Ala Tyr Leu Trp Tyr Ile Lys Leu Ala Arg Gly Lys Arg Pro Arg
 35 40 45

Tyr Ala Ala Ala Ala Gly Val Arg Arg Val Lys Ala Leu Lys Gln Gln
 50 55 60

Leu Leu His Asn Ala Gly Ala Cys Met Ile Lys Lys Leu Ser
 65 70 75

<210> 1061
 <211> 74
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1061

Leu Trp Lys Met Leu Arg Lys Phe Leu Arg Met Met Arg Lys Lys Lys
 1 5 10 15

His Ile Leu Gln Ala Lys Thr Arg Leu Asp Tyr Ala Cys Lys Gly Val
 20 25 30

Ser Thr Arg Gly His Val Leu Thr Leu Leu Lys Leu Cys Cys Arg Ala
 35 40 45

Lys Arg Leu Arg Gly Cys Ala Lys Gln Lys Lys Lys Ala Leu Cys Leu
 50 55 60

Asn Asn Asn Arg Ile Gly Lys Gly Asp Arg
 65 70

<210> 1062
 <211> 64
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1062

Phe Leu Arg Trp Leu Thr Lys Phe Ile Arg Met Ile Lys Arg Ile Ala
 1 5 10 15

Ile Tyr Arg Arg His Thr Arg Ala Gly Leu Arg Arg Ala His Thr Lys
 20 25 30

Ala Glu Gly Leu Ala Ala Asp Ala Gln Ala Gly Ala Leu Arg Ala Phe

35

40

45

Ala Arg Cys Lys Asp Lys Lys Phe Leu Arg Gly Arg Pro Pro Tyr Lys
 50 55 60

<210> 1063

<211> 49

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1063

Lys Ile Arg Phe Leu Arg Arg Trp Tyr Lys Phe Leu Ser Lys Glu Leu
 1 5 10 15

Ala Lys Phe Pro Ala Arg Arg Arg His Leu Ala Leu Ser Ala Arg His
 20 25 30

Glu Met Lys Asn Arg Arg Ala Ile Thr Thr Ala Lys Ala Trp Arg Ala
 35 40 45

Leu

<210> 1064

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1064

Arg Leu Arg Phe Leu Gln Lys Leu Met Lys Trp Tyr Ser His Trp Asp
 1 5 10 15

Lys Trp Gly Arg Gln Leu Lys Trp Arg Ala Leu Arg Ala Ala
 20 25 30

<210> 1065

<211> 43

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1065

Arg Leu Arg Phe Phe Arg Arg Trp Phe Lys Leu Leu Arg Arg Arg Leu
1 5 10 15

Ala Leu Lys Asn Pro Gly Lys Arg Asp Lys Leu Thr Lys Ala Leu Phe
20 25 30

Gln Leu Ala Met Arg Arg Ala Ala Arg Glu Cys
35 40

<210> 1066

<211> 54

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1066

Phe Leu Arg Trp Leu Thr Arg Leu Leu Arg Arg Leu Arg His Arg Lys
1 5 10 15

Leu Asn Ala Ile Pro Cys Leu Met Asn Ile Arg Val Thr His Lys His
20 25 30

Ala Val Arg Phe Met Asp Glu Thr Leu Leu Ala Asp Arg Leu Leu Trp
35 40 45

Lys Leu Thr Leu Lys Arg
50

<210> 1067

<211> 86

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1067

Arg Phe Arg Met Tyr Lys Arg Leu Tyr Arg Arg Tyr Thr Ser Ile Lys
1 5 10 15

Ala Tyr Ala Gly Leu Asn Pro Ala Cys Tyr Arg Asp Ile Arg Arg Lys
20 25 30

Asp Ala Arg Gln Val Cys Thr Pro Lys Leu Lys Thr Arg Lys Leu Arg
 35 40 45

Pro Phe Ala Lys His Arg Arg Leu Cys Lys Ser Leu Tyr Cys Arg Asn
 50 55 60

Lys Ala Thr Cys Arg Ala Ser Ala Ala Leu Asp Ala Leu Lys Ala Ala
 65 70 75 80

Val Arg Ala Lys Val Glu
 85

<210> 1068
 <211> 56
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1068

Lys Leu Arg Leu Leu Arg Lys Trp Phe Lys Arg Ile Arg Lys Leu Pro
 1 5 10 15

Asn Arg Met Trp Leu Ile Ala Pro Arg Cys Lys Ala Leu Ala Lys Val
 20 25 30

Leu Lys Tyr Ile Phe Ala Leu His Arg Ala Gln Ala Asp Gln Arg Ile
 35 40 45

Thr Met Ala Leu Asp Leu Arg Tyr
 50 55

<210> 1069
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1069

Lys Trp Arg Leu Phe Arg Arg Leu Leu Arg Arg Phe His Gln Lys Arg
 1 5 10 15

Leu Leu Pro Pro Lys Lys His Asp Cys Leu Ala Ser Leu

20

25

<210> 1070
 <211> 44
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1070

Lys Leu Lys Tyr Phe Thr Lys Leu Leu Arg Tyr Ile Arg Asn Ala Leu
 1 5 10 15

Arg Asn Asn Arg Ser Asp Tyr Arg Arg Gln Leu Lys Met Asn Phe Val
 20 25 30

Leu Ser Ala Leu Leu Arg Lys Ser Leu Arg Leu Ile
 35 40

<210> 1071
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1071

Lys Phe Lys Trp Phe Cys Lys Phe Leu Lys Lys Phe Arg Lys Lys Leu
 1 5 10 15

Tyr Leu Trp Gly Ala Ala Met Leu Arg Tyr Leu Lys Glu Gln Arg Ala
 20 25 30

Ser Ile

<210> 1072
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1072

Leu Ile Arg Leu Tyr Lys Lys Leu Met Arg Leu Met Arg Asn Phe Ala


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<210> 1073
<211> 23
<212> PRT
<213> Artificial Sequence
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<400> 1073

Met Arg Arg Lys Ala Trp Gln
20

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<210> 1074
<211> 26
<212> PRT
<213> Artificial Sequence
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<400> 1074

Arg Leu Lys Leu Met Lys Lys Leu Trp Lys Trp Leu Asn Cys Cys Lys
1 5 10 15

Thr Lys Arg Leu Ala Arg Val Asn Asn Leu
20 25

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<210> 1075
<211> 26
<212> PRT
<213> Artificial Sequence
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<400> 1075

Lys Phe Arg Phe Leu Thr Lys Tyr Leu Lys Leu Leu Pro Arg Arg Ala

1 5 10 15

Leu Leu Ser Glu Arg Thr Val Pro Phe Leu
20 25

<210> 1076
<211> 36
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 1076

Lys Tyr Arg Tyr Phe Gln Lys Leu Leu Lys Phe Leu Lys Lys Arg Phe
1 5 10 15

Ala Glu Cys Cys Lys Leu Ala Arg Tyr Gly Ser Lys Phe Thr Leu Ala
20 25 30

Asn Ala Ala Lys
35

<210> 1077
<211> 34
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 1077

Arg Leu Arg Leu Leu Asn Lys Tyr Leu Lys Lys Phe Pro Lys Ser Ala
1 5 10 15

Ala Leu Arg Arg Ser Ser Trp Gln Leu Phe Asp Gln Val Ala Ile Lys
20 25 30

Phe Leu

<210> 1078
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 1078

Lys Leu Lys Phe Tyr Gln Lys Trp Phe Lys Lys Leu Cys Arg Ala Ala
1 5 10 15

Lys Glu Leu His Ala Ile Met Leu Lys Cys Ala Ala
20 25

<210> 1079

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1079

Lys Phe Lys Phe Leu Pro Arg Ile Leu Lys Leu Trp Lys Lys Met Tyr
1 5 10 15

Ala Lys Ala Ala Arg Arg Phe Ala Cys Leu Asp
20 25

<210> 1080

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1080

Arg Met Lys Phe Tyr Ser Arg Leu Leu Arg Leu Tyr Arg Arg Val Pro
1 5 10 15

Gln Ala Val Ala
20

<210> 1081

<211> 38

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1081

Arg Leu Arg Leu Leu Lys Arg Tyr Leu Lys Trp Phe Asn Lys Arg Arg

1 5 10 15

Asn Asn His Ala Lys Ala Ala Ile Ala Gly Pro Lys Gln Phe Ser Leu
 20 25 30

Ala Met Lys Gln Leu Lys
35

<210>	1082
<211>	21
<212>	PRT
<213>	Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 1082

Trp Phe Arg Ile Leu His Lys Leu Met Lys Tyr Met Lys Lys Val Lys
1 5 10 15

Leu Glu Leu Ala Ala
20

<210>	1083
<211>	51
<212>	PRT
<213>	Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 1083

Leu Leu Arg Ile Phe Lys Lys Leu Trp Lys Leu Leu Arg Cys Arg Ala
1 5 10 15

Leu Asn Leu Tyr Leu Lys Val Arg Arg Ala Arg Arg Leu Cys Ala Pro
20 25 30

Ala Trp Leu Ala Asn Leu Lys Lys Ala Arg Ala Leu Lys Leu Asn His
35 40 45

Glu Leu Lys
50

$\langle 210 \rangle$	1084
$\langle 211 \rangle$	48
$\langle 212 \rangle$	PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1084

Arg Met Arg Leu Phe Gln Arg Leu Phe Arg Leu Tyr His Pro Arg Leu
1 5 10 15

Leu Lys Ile Lys Cys Arg Arg Leu Asp Thr Lys Leu Cys Ala Tyr Asn
20 25 30

Glu Gln Ala Phe Ala Arg Lys Lys Lys Gln Lys Lys Leu Leu His Ile
35 40 45

<210> 1085

<211> 38

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1085

Arg Leu Lys Leu Phe Pro Lys Phe Met Arg Lys Trp Arg Lys Leu Glu
1 5 10 15

Lys Cys Ala Ala His Gln Arg Leu Ile Ala Arg Leu Ala Lys Arg His
20 25 30

Val Leu Tyr Leu Arg Thr
35

<210> 1086

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1086

Arg Ile Lys Leu Ile Ser Lys Tyr Phe Lys Lys Trp Lys Ser Cys Tyr
1 5 10 15

Arg Ala Trp Leu Phe Ser Ala Asn Arg Thr Arg Leu Ala Ala Leu Arg
20 25 30

<210> 1087
 <211> 47
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1087

Arg Leu Lys Leu Leu Lys Arg Tyr Ile Lys Phe Leu Lys His Ser Lys
 1 5 10 15

Ser Glu Leu Leu Trp Ala Lys Ala Lys Gly Trp Thr Ile Met Lys Pro
 20 25 30

Pro Lys Ser Asp Ala Glu Arg Lys Asp Ala Leu Ala Lys Ala Arg
 35 40 45

<210> 1088
 <211> 61
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1088

Leu Phe Arg Tyr Ile Lys Lys Leu Phe Arg Leu Trp Thr Lys Phe Leu
 1 5 10 15

Ala Ala Leu Leu Ala Leu Ala Lys Trp Pro Lys Leu Phe Lys Glu Lys
 20 25 30

Pro Val Pro Arg Lys Gly Asp Arg Lys His Asp Ile Gly Phe Gly Asn
 35 40 45

Ala Arg Ala Pro Trp Ala Arg His Lys Ile Leu Arg Lys
 50 55 60

<210> 1089
 <211> 43
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1089

Ile Leu Lys Trp Trp Lys Lys Met Leu Arg Lys Tyr Arg Pro Leu Lys
 1 5 10 15

Asn Phe Asn Arg Phe Gln Arg Arg Cys Leu Leu Trp Lys Leu Ala Gln
 20 25 30

Ala Cys Lys Lys Arg Leu Ala Ala Cys Glu Leu
 35 40

<210> 1090

<211> 79

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1090

Phe Phe Arg Leu Ile Lys Lys Leu Leu Arg Leu Phe Thr Lys Leu Ala
 1 5 10 15

Ala Asp Val Lys Arg Ala Lys Gly His Trp Leu Thr Ala Lys Lys Phe
 20 25 30

Glu His Lys Lys His Glu Ala Arg Lys Lys Ala Pro Arg Tyr Gln Asn
 35 40 45

Ala Asn His Gln Lys Ala Cys Leu Lys Arg Asp Gly Arg Leu Ala Leu
 50 55 60

Arg Ala Arg Lys Asn Lys Pro Arg Met Arg Lys Leu Trp Gln Ser
 65 70 75

<210> 1091

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1091

Leu Trp Lys Leu Leu Lys Arg Ile Phe Arg Lys Leu Arg Lys Leu His
 1 5 10 15

Cys Arg Leu Ala Leu Asp His Arg

20

<210> 1092
 <211> 47
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1092

Leu Trp Arg Leu Leu His Arg Phe Ile Arg Leu Met Lys Pro Lys Arg
 1 5 10 15

Ala Gly Leu Tyr Ala Lys Thr Lys Val Ile His Arg Arg Leu Thr Asp
 20 25 30

Lys Leu Lys Arg His Asp Ile Ala Leu Lys His Asn Glu Ala His
 35 40 45

<210> 1093
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1093

Arg Tyr Lys Met Phe Lys Arg Tyr Leu Arg Arg Phe Thr Gln Asn Leu
 1 5 10 15

Leu Leu Ala Glu
 20

<210> 1094
 <211> 58
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1094

Arg Leu Arg Trp Leu Gln Arg Leu Phe Arg Lys Phe Pro Arg Leu Glu
 1 5 10 15

Phe Pro Val Gln Ala Arg Arg Tyr Val Arg Asn Leu Ala Thr Thr Leu

20

25

30

Lys His Ala Phe Ser Arg Cys Tyr Ala Arg Ala Arg Arg Asp Leu Lys
 35 40 45

Ala Ala Arg Ser Arg Tyr Leu Leu Trp Trp
 50 55

<210> 1095

<211> 56

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1095

Arg Phe Arg Ile Phe Lys Arg Phe Leu Arg Lys Phe Arg Lys Gln Arg
 1 5 10 15

Glu Trp Arg Glu Lys Leu Cys Leu Thr Val Arg Leu Gly Leu Arg Ala
 20 25 30

Phe Gly Leu Lys Lys Leu Asn Trp Thr Lys Ile Ala Leu Leu Ala Leu
 35 40 45

Gly Thr Phe Lys Ser Val Val Leu
 50 55

<210> 1096

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1096

Lys Ile Arg Leu Leu Lys Lys Leu Leu Arg Lys Phe Arg His Val Val
 1 5 10 15

Leu Lys Tyr Met Trp Leu Gln Tyr Leu Leu Ser Lys Arg Arg Asn Ala
 20 25 30

<210> 1097

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1097

Arg Phe Lys Phe Leu Arg Arg Met Leu Arg Met Phe Lys Asn Tyr Leu
1 5 10 15

Leu Thr Tyr Leu Leu Arg Trp Ala Lys Lys
20 25

<210> 1098

<211> 46

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1098

Lys Leu Arg Leu Leu Ser Lys Leu Leu Lys Phe Leu Lys Lys Arg Ala
1 5 10 15

Ile Leu Asp Arg Arg Ala Phe Asn Phe Asn Ala Cys Arg His Lys Arg
20 25 30

Gln Asp Ala Ala Ile Lys Leu Lys Ile His Asn Leu Lys Lys
35 40 45

<210> 1099

<211> 60

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1099

Phe Phe Lys Phe Leu Lys Arg Trp Phe Arg Lys Phe Lys Thr Ala Asp
1 5 10 15

Cys Met His Leu Phe Gly Ala Asp Phe Asn Arg Lys Thr Leu Met Glu
20 25 30

Lys Phe Ile Asn Leu Met Lys Arg Tyr Leu Leu Arg Asp Ile Leu Lys
35 40 45

Asp Ala Lys Leu Lys Arg Ala Lys Leu Ala Arg Lys
 50 55 60

<210> 1100
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1100

Lys Leu Lys Phe Leu Arg Lys Leu Tyr Lys Leu Leu Lys Arg Ile Asn
 1 5 10 15

Leu Gly Trp Ala Phe Leu Phe Arg Lys Ala Gln Lys
 20 25

<210> 1101
 <211> 43
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1101

Lys Leu Lys Leu Phe Pro Lys Leu Met Lys Lys Phe Ser Cys Lys Leu
 1 5 10 15

Leu Thr Thr Leu Glu Gly Gln Arg Tyr Leu Lys Gln Val Arg Pro Arg
 20 25 30

Leu Asn Ala Arg Ala Ile Leu Val Leu Gln Ala
 35 40

<210> 1102
 <211> 91
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1102

Met Leu Arg Trp Phe Ser Arg Ile Phe Arg Arg Leu Arg Arg Arg Ala
 1 5 10 15

Ala Lys Phe Ala Arg Leu Leu Cys Cys Gln Ala Leu Cys Phe Lys Phe
 20 25 30

Cys His Pro Lys Arg Gln Arg Arg Ala Trp Cys Val Ser His Phe Ala
 35 40 45

Ala Pro Ala Leu Leu Val Phe Arg Arg Ala Lys Gly Ala Thr Ala Ala
 50 55 60

Asp Trp Leu Ala Thr Leu Trp Val Arg Ala Cys Arg Lys Gln Ala Arg
 65 70 75 80

Leu Ala Leu Pro Thr Val His Leu Arg Ala Lys
 85 90

<210> 1103
 <211> 51
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1103

Phe Leu Arg Trp Phe Ser Arg Leu Leu Arg Lys Ile Asn Arg His Ile
 1 5 10 15

Val Ala Lys Val Gln Asp Arg Leu Arg Lys Ala Asn Ala Ala Lys Val
 20 25 30

Ala Ser Leu Leu Arg His Ala Val Thr Leu Ala Trp Lys Glu Ala Phe
 35 40 45

Arg Cys Ala
 50

<210> 1104
 <211> 80
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1104

Lys Phe Arg Leu Phe Cys Lys Leu Leu Arg Lys Leu Pro Pro Ala Arg

Lys Met Arg Leu Leu Arg Arg Leu Phe Lys Lys Tyr Arg Gln Ala Asp
1 5 10 15

Lys Asp Asn Thr Lys Ala Leu Arg His Met Trp Ala Gly Pro Leu Met
20 25 30

Ala Arg Arg Ala Gly
35

Leu	Leu	Lys	Leu	Trp	Asn	Lys	Leu	Leu	Arg	Arg	Leu	Gln	Cys	Leu	Ala
1				5					10					15	
Val	Ser	Phe	Leu	Leu	Arg	Asn	Lys	Asp	Arg	Lys	Lys	Glu	Pro	Thr	Thr
			20					25					30		

<210> 1107
 <211> 72
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1107

Lys Leu Lys Leu Leu His Lys Leu Trp Lys Phe Phe Gln His Lys Glu
 1 5 10 15

Ala Leu Arg Ala Ile Val Phe Leu Glu Leu Lys Ala Tyr His Asp Arg
 20 25 30

Lys Leu Ala Lys Arg Leu Leu Leu Thr Ala Phe Ala Leu Asn Ser Gln
 35 40 45

Ala Leu Gly Cys Ala Tyr Cys Leu Ile Gln Asn Leu Arg Asn Phe Phe
 50 55 60

Arg Cys Lys Lys Lys Met Tyr Arg
 65 70

<210> 1108
 <211> 38
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1108

Leu Phe Arg Leu Phe Lys Arg Tyr Trp Lys Leu Leu Arg Arg Lys Leu
 1 5 10 15

Lys Met Ala Val Lys Asp Ala Gln Phe Gly Lys Lys His Arg Ala Ala
 20 25 30

Tyr Ala Ala Asp Asp Lys
 35

<210> 1109
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1109

Arg	Tyr	Lys	Met	Leu	Lys	Lys	Ile	Phe	Lys	Tyr	Trp	Gln	Arg	Arg	His
1				5					10					15	

Tyr	Asp	Lys	Ala	Leu	Met	Leu	Ala	Gly	Ala	Asp	Gln	Lys	Arg	Lys	Tyr
			20					25					30		

Arg	Phe	Leu	Leu	Leu	Leu	Pro	Ala
		35				40	

<210> 1110

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1110

Phe	Phe	Arg	Leu	Leu	Pro	Lys	Trp	Met	Lys	Leu	Tyr	Pro	Lys	Phe	Ala
1				5					10					15	

Arg	Cys	Ala	Cys	Arg	Lys	Asn	Leu	Thr	Asn	Leu	Ala	Trp	Leu	Gly	Ala
			20					25					30		

Lys	Arg	Arg	Leu
			35

<210> 1111

<211> 71

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1111

Met	Leu	Arg	Leu	Trp	Pro	Arg	Phe	Leu	Lys	Lys	Leu	Lys	Ser	Asp	Arg
1				5					10					15	

Ala	Lys	Leu	Ala	Ile	Ile	Pro	Glu	Ile	Arg	Tyr	Tyr	Arg	Lys	Lys	Leu
			20					25					30		

Lys	Tyr	Leu	Asp	Ile	Lys	Lys	Glu	Arg	Leu	Thr	Ser	Cys	Glu	Ala	Pro
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

35

40

45

Phe Leu Cys Arg Leu Ala Ala Ala Arg Tyr Leu Ile His Asp Lys Ile
 50 55 60

Arg Leu Lys Leu Leu Ser Arg
 65 70

<210> 1112

<211> 48

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1112

Met Leu Lys Leu Met Asn Arg Leu Leu Arg Lys Phe Arg His Thr Lys
 1 5 10 15

Ala Leu Gly Lys Leu Arg Asn Met Leu Ser Asp Lys Leu Lys Asn Arg
 20 25 30

Lys Ile Ala Leu Trp Ser Leu Glu Cys Pro Thr Ala Ala Val Met Lys
 35 40 45

<210> 1113

<211> 48

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1113

Leu Trp Lys Phe Phe Lys Arg Phe Tyr Arg Ile Trp Asn Lys Leu Arg
 1 5 10 15

Cys Asn Tyr Gln Arg Lys Arg Lys Lys Phe Arg Phe Ala Ala Ala Leu
 20 25 30

Ala Glu Pro Ala Arg Met Asp Leu Ala Leu Ala Gln Ala Ala Leu Leu
 35 40 45

<210> 1114

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1114

Arg	Leu	Arg	Leu	Ile	Lys	Arg	Leu	Leu	Arg	Met	Phe	Asn	Arg	Trp	Gly
1				5					10					15	

Trp	Ala	Ala	Gln	Glu	Lys	Glu	Val	Lys
			20					25

<210> 1115

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1115

Ile	Trp	Lys	Phe	Met	Lys	Arg	Phe	Leu	Arg	Arg	Leu	Lys	Cys	Leu	Arg
1				5					10					15	

Tyr	Gln	Ala	Ser	Leu	Leu	Thr	Asp	Arg	Lys	Arg	Leu	Pro	Cys
			20					25					30

<210> 1116

<211> 90

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1116

Lys	Trp	Lys	Leu	Phe	Cys	Lys	Phe	Leu	Arg	Leu	Tyr	Arg	Arg	Leu	Ala
1				5					10					15	

Ile	Leu	Ala	Ala	Arg	Arg	His	Ala	Met	Tyr	Phe	Arg	Ala	Leu	Leu	Met
			20					25					30		

Glu	Thr	Ala	Glu	His	Arg	Arg	Cys	Ala	Leu	Leu	Met	Asp	Lys	Arg	Leu
		35					40					45			

Leu	Gln	Tyr	Cys	Ala	Trp	Ile	Val	Ile	Lys	Lys	Arg	Leu	Lys	Ser	Ala
	50					55					60				

Leu Lys Thr Ile Arg Phe Ile Tyr Thr Thr Arg Arg Lys Thr Leu Met
 65 70 75 80

Leu Arg Lys Phe Pro Ala Arg Gly Val Arg
 85 90

<210> 1117
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1117

Leu Leu Lys Met Ile Gln Arg Leu Leu Arg Arg Met His Gln Arg Met
 1 5 10 15

Ala Leu Pro Ala Lys Ala
 20

<210> 1118
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1118

Arg Trp Arg Tyr Leu His Arg Leu Leu Lys Lys Leu Thr Thr Glu Trp
 1 5 10 15

Tyr Lys Leu Leu Ala Trp Pro Cys Leu His Leu Ala Arg Thr Trp Arg
 20 25 30

Ala Asn

<210> 1119
 <211> 43
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1119

Trp Met Arg Trp Leu Lys Arg Leu Trp Lys Lys Phe Gln Arg His Ser
 1 5 10 15

Ala Ala Leu Cys Arg Lys Glu Ala Lys Trp Gly Arg Val Ile Arg Leu
 20 25 30

Ala Arg Ala Val Gln Leu Asp Leu Arg Arg Leu
 35 40

<210> 1120
 <211> 52
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1120

Leu Phe Arg Tyr Met Arg Arg Phe Trp Arg Met Leu Ser Lys Arg Ala
 1 5 10 15

Gln Lys Gln Glu Leu Thr Tyr Arg Leu Glu Ala Glu Arg Glu Lys Lys
 20 25 30

Leu Ala Arg Gly Gln Trp Arg Arg Lys Met His Cys Leu Arg Ala Lys
 35 40 45

Ala Leu Lys Leu
 50

<210> 1121
 <211> 79
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1121

Lys Leu Lys Leu Tyr Arg Arg Leu Leu Arg Arg Phe Arg Lys Cys Leu
 1 5 10 15

Ala Tyr Lys Phe Arg Leu Lys Tyr Gln Asp Lys Tyr Arg Cys His Thr
 20 25 30

Arg Leu Lys Asn Arg Gln Val Thr His Trp Lys Ser Leu Met Ala Ala

35

40

45

Trp Lys Lys Leu Gln Arg Asn Gln Arg Lys Asn Leu Val Pro Arg Glu
 50 55 60

Arg Asn His Gln Gly Ala Leu Leu Ala Ala Lys Gln Pro Asp Leu
 65 70 75

<210> 1122

<211> 56

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1122

Arg Ile Arg Leu Tyr Lys Arg Ile Leu Arg Arg Tyr Lys Pro Ala Ala
 1 5 10 15

Met Ser Ala Leu Gly Thr Thr Lys His Arg Leu Lys Lys Lys Leu Leu
 20 25 30

Lys Cys Ser Ala Thr Thr Arg Val Leu Gln Ser Lys Ala Tyr Leu Asn
 35 40 45

Cys Arg Leu Ser Lys Arg Asn Arg
 50 55

<210> 1123

<211> 39

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1123

Leu Ile Arg Leu Tyr Arg Arg Trp Leu Arg Arg Leu Pro Arg Leu Ala
 1 5 10 15

Phe Ala Arg Cys Arg Ala Cys Leu Gly Gly Arg Ile Glu Ala Tyr Tyr
 20 25 30

Lys Lys Gln Ala His Pro Leu
 35

<210> 1124
 <211> 31
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1124

Leu Trp Arg Leu Leu Arg Lys Trp Tyr Lys Phe Phe Lys Arg Thr Ala
 1 5 10 15

Val Arg Lys Leu Ala Ala Ala Met Leu Glu Phe His Glu Lys Trp
 20 25 30

<210> 1125
 <211> 72
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1125

Lys Phe Lys Leu Leu Arg Arg Leu Leu Lys Trp Leu Cys Arg Cys Gln
 1 5 10 15

Ser Val Ala His Arg Ser Ala Val Tyr Trp Arg Ser Trp Leu Leu Leu
 20 25 30

Ala Arg Arg Gln Gly Glu Ile Tyr Leu Phe Arg Ala Leu Arg Val Gln
 35 40 45

Phe Trp Arg Lys Lys Ile Gln Tyr Lys Glu Arg Ala Arg Arg Leu Thr
 50 55 60

Leu Ala Ala Arg Tyr Arg Pro Leu
 65 70

<210> 1126
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1126

Arg Phe Lys Met Ile Gln Arg Trp Ile Lys Arg Met His Cys Tyr Leu
 1 5 10 15

Lys Lys Arg Asp Phe Leu Arg Lys Asp Arg Gln Ala Leu Leu Leu Ala
 20 25 30

Ala Val Ala Trp
 35

<210> 1127
 <211> 51
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1127

Lys Leu Arg Ile Phe Lys Arg Leu Phe Lys Tyr Phe Arg Lys Glu Phe
 1 5 10 15

Trp Lys Lys Arg Lys His Leu Ala Leu Cys Ser Lys Leu Glu Asp Leu
 20 25 30

Lys Leu Leu Lys Leu Asn Lys Arg Asp Asn Ala Tyr Trp Gln Ala Ala
 35 40 45

Arg Val Gln
 50

<210> 1128
 <211> 58
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1128

Lys Trp Arg Leu Tyr Lys Arg Leu Met Arg Leu Met Lys Thr Tyr Lys
 1 5 10 15

Ser Asn Leu Leu Ala Phe Ala Leu Asp Lys Lys Ala Glu Glu Leu Glu
 20 25 30

Ala Ser Lys Cys Leu Gln Arg Met Cys Arg His His Lys Asn Arg Arg

35

40

45

Arg Ala Phe Ala Leu Leu His Asp Asn Trp
 50 55

<210> 1129

<211> 47

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1129

Arg Leu Lys Leu Leu Cys Lys Tyr Leu Lys Lys Tyr Ser Arg Leu Arg
 1 5 10 15

Arg Leu Arg Gly Gly Phe Arg Glu Trp Phe Lys Ala Arg Thr Leu Arg
 20 25 30

Ala His Arg Ile Tyr Phe Ile Thr Val Asp Ala Ser Gln Ala Leu
 35 40 45

<210> 1130

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1130

Leu Tyr Arg Phe Leu Lys Lys Phe Leu Lys Lys Leu Thr Lys Val Lys
 1 5 10 15

Arg Leu Ala Ala Tyr Thr Glu Tyr Val Leu Phe Ile Tyr
 20 25

<210> 1131

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1131

Leu Leu Lys Phe Trp Lys Lys Tyr Leu Lys Trp Ile Arg Arg Thr Ala

1 5 10 15

Ala Arg Gln Ala Thr Ala Thr
20

<210> 1132
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 1132

Arg Trp Arg Ile Leu His Lys Met Phe Lys Lys Phe Pro Lys Ala Leu
1 5 10 15

Ile Arg Leu Cys Ile Arg Leu Asn Ala Leu Leu Met
20 25

<210> 1133
<211> 52
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 1133

Lys Trp Lys Leu Tyr His Arg Phe Trp Arg Lys Leu Lys Asn Arg Leu
1 5 10 15

Cys Met Ile Thr Thr Gly Lys Ala Ala Ile Thr Ala Asn Lys Ala Cys
20 25 30

His Ala Leu Lys Gln Gln Gly Ala Met His Lys Arg Lys Arg Leu Glu
35 40 45

Leu Lys Ala Leu
50

<210> 1134
<211> 69
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 1134

Lys Phe Arg Tyr Tyr Arg Lys Leu Ile Lys Trp Phe Lys Lys His Phe
1 5 10 15

Asn Pro Lys Gln Ala Pro Ala Lys Arg Ala Leu Asp Arg Asp Arg Arg
20 25 30

Ala Arg Ala Pro Thr Arg Leu Pro Lys Asn Leu Lys Ala Arg Met Leu
35 40 45

Arg Ser Leu Tyr Arg Ile Ala Asn Gln Ile Ile Trp Cys Ser Lys Arg
50 55 60

Leu Leu Pro Leu Gln
65

<210> 1135

<211> 31

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1135

Lys Phe Arg Phe Leu Lys Lys Leu Tyr Arg Leu Trp Lys Lys Leu Ala
1 5 10 15

Leu Lys Thr Arg Cys Met Pro Lys Leu Ala Ala Glu Arg Ala Tyr
20 25 30

<210> 1136

<211> 50

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1136

Lys Leu Lys Leu Leu Cys Lys Leu Ile Lys Phe Leu Gln Arg Ala Tyr
1 5 10 15

Val Asp Ala Asn Ala Leu Leu Thr Tyr Met Leu Arg Lys Leu Gln Asn
20 25 30

His Thr Glu Gly Lys Arg Arg Val Ala Lys His Met Arg His Lys Lys
35 40 45

Lys Leu
50

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<210> 1137
<211> 32
<212> PRT
<213> Artificial Sequence
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<220>
<223> Computer-generated peptide variant

<400> 1137

Arg Tyr Lys Leu Met Gln Arg Tyr Phe Arg Arg Leu Asn Gln Leu Ala
1 5 10 15

Arg Leu Cys His His Lys Trp Arg Ala Ala Glu Ala Ser Asn Arg Leu
20 25 30

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<210> 1138
<211> 27
<212> PRT
<213> Artificial Sequence
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<220>
<223> Computer-generated peptide variant

<400> 1138

Met Leu Arg Phe Leu Arg Lys Ile Met Lys Trp Leu Lys Arg Trp Gly
1 5 10 15

Lys Arg Ala His Trp Ala Ala Lys Ala Cys Ala
20 25

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<210> 1139
<211> 41
<212> PRT
<213> Artificial Sequence
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<220>
<223> Computer-generated peptide variant

<400> 1139

Phe Ile Lys Leu Phe Arg Lys Ile Leu Arg Lys Phe Arg Pro Ala Val
1 5 10 15

Glu Leu Ala Arg Leu Tyr Leu Leu Asn Lys Cys Arg Ala Ala His Asp
 20 25 30

Gln Arg Leu Trp Leu Ala His Lys Gln
 35 40

<210> 1140
 <211> 26
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1140

Lys Phe Arg Leu Leu Pro Lys Leu Trp Lys Arg Phe His Lys Thr Leu
 1 5 10 15

Ala Leu Ile Ala His Ala Lys Ala Val Pro
 20 25

<210> 1141
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1141

Lys Leu Arg Ile Leu Asn Lys Leu Tyr Lys Met Trp Arg Arg Ala Ala
 1 5 10 15

Ser Lys Arg Ser Trp Ser Gly Gly Cys Pro Ala Leu Arg Lys Ala His
 20 25 30

Leu

<210> 1142
 <211> 58
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1142

Arg Tyr Lys Leu Leu Gln Lys Leu Phe Arg Arg Leu Asn Arg Asp His
 1 5 10 15

Val Ser Arg Ala Leu Leu Lys Tyr Arg Val Leu Ile Leu Leu Ala Arg
 20 25 30

Arg Gly Ala Asp Leu Phe Lys Lys Lys Cys Met Asp Arg Ala Thr Ala
 35 40 45

His Cys Ala Asp Lys Asp Ala Lys Cys Ala
 50 55

<210> 1143
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1143

Arg Leu Arg Phe Phe Lys Lys Leu Met Arg Arg Tyr Ser Lys Gly Leu
 1 5 10 15

Ala Thr Lys Ala Gln Leu Trp
 20

<210> 1144
 <211> 57
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1144

Lys Leu Lys Tyr Phe Arg Arg Met Phe Lys Leu Tyr Arg Lys Leu Phe
 1 5 10 15

Val Gln Arg Ala Arg Ala Trp Ala Asn Tyr Trp Ala Ala Ala His Leu
 20 25 30

Lys Ala Leu Lys Lys Ala Phe Met Asn Gly His Leu Arg Met Ala Lys
 35 40 45

Thr Leu Tyr Tyr Arg Leu Ala Leu Pro

50

55

<210> 1145
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1145

Arg Phe Arg Ile Leu Ser Lys Leu Phe Arg Arg Met Arg Ser Asp Cys
 1 5 10 15

Ala Gln Ala Lys Ile Leu Leu Lys Arg Ala Cys Leu Gly Tyr Lys Arg
 20 25 30

His Pro Lys Ala
 35

<210> 1146
 <211> 54
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1146

Lys Leu Lys Ile Ile Gln Arg Leu Leu Lys Lys Ile Arg Gln Ser Ile
 1 5 10 15

Ala Leu His Gln Leu Pro Lys Ala Ala Asn Leu Leu Gln Asp Glu Arg
 20 25 30

Arg Trp Asp Arg Leu Leu Pro Ala Lys Val Lys Ala Ala Ser Glu Gln
 35 40 45

Lys Pro Asn Arg Phe Arg
 50

<210> 1147
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1147

Phe Ile Arg Met Leu Arg Arg Leu Leu Arg Leu Leu His Asn Arg Ser
1 5 10 15

His His Arg Ser Leu Tyr Val Leu Arg Ala Ala Leu Gly Gln Leu Glu
20 25 30

Lys Leu Arg Asn
35

<210> 1148

<211> 44

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1148

Arg Phe Lys Leu Ile Arg Lys Trp Leu Arg Arg Trp Lys Lys His Ala
1 5 10 15

Gln Lys Arg Leu Lys Leu Leu Tyr Leu Phe Val Arg Met Met Gln Asp
20 25 30

Leu Arg Glu Lys Lys Ala Phe Leu His Asn Leu Val
35 40

<210> 1149

<211> 70

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1149

Tyr Phe Lys Trp Leu Ser Arg Ile Phe Arg Lys Ile Lys Arg Lys Lys
1 5 10 15

Arg Ala Lys Arg Lys Arg Ala Glu Ile Leu Arg Phe Asp Leu Cys Asn
20 25 30

Ala Asn Thr Gln Ile Lys Leu His Val Arg Asp Ala Pro Pro Lys Lys
35 40 45

Thr Gln Lys Leu Met Leu Ala Leu Leu His Leu Lys Ala Met Leu Phe
 50 55 60

Arg Pro Lys Pro Leu Leu
 65 70

<210> 1150
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1150

Lys Leu Lys Trp Leu Arg Lys Trp Ile Lys Lys Leu Thr Gln His Ile
 1 5 10 15

Ala Lys Leu Thr Arg Leu Lys Ala
 20

<210> 1151
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1151

Trp Leu Arg Ile Met Arg Arg Leu Phe Lys Leu Tyr Ser Arg Leu Leu
 1 5 10 15

Leu Arg Thr Arg Cys Cys Arg Arg Leu Leu Trp Arg
 20 25

<210> 1152
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1152

Leu Phe Lys Phe Phe Gln Lys Leu Leu Lys Lys Met His Arg Asp Lys
 1 5 10 15

Ala Lys Leu Ala Arg Gln Glu Cys His Leu Leu Ala
 20 25

<210> 1153
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1153

Arg Leu Arg Phe Phe Pro Lys Tyr Phe Arg Lys Leu Lys Lys Ala Ala
 1 5 10 15

Arg Glu Ile Val Lys Asn Thr Asp Leu Leu Gly Ala Ile
 20 25

<210> 1154
 <211> 63
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1154

Met Trp Lys Met Leu Arg Arg Tyr Phe Arg Leu Leu Arg Lys Leu Leu
 1 5 10 15

Trp Gly Lys Trp Arg Lys Ala Tyr Leu Lys His Ala Leu Ile Asp Leu
 20 25 30

Gly Lys Cys Ala Gly Asn Val Phe Leu Arg Asn Leu Ala Arg Leu Met
 35 40 45

Asn Ile Gly Leu Cys His Lys Arg Ala Arg Gly Leu Ser Leu Asp
 50 55 60

<210> 1155
 <211> 66
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1155

Arg Leu Arg Phe Trp Pro Arg Leu Phe Arg Arg Trp Cys Arg Arg Arg
 1 5 10 15

Arg His Val Asn Ser Lys Gln Lys Val Cys Leu Arg Lys Lys Leu Pro
 20 25 30

Ile Glu Ala Ile Ala Lys Asn Arg Gly Asn Cys Ala Leu Ala Ala Met
 35 40 45

Asp Lys Ala Arg Lys His Gly Trp Ala Ala Ile Leu Leu Ala Arg Leu
 50 55 60

Ala Phe
 65

<210> 1156
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1156

Arg Met Arg Leu Tyr Pro Lys Phe Leu Lys Leu Phe Lys Gln Ala Ile
 1 5 10 15

Ala Glu Ala Leu Lys Leu Lys Lys Ala Tyr Arg Lys His Ala Lys Tyr
 20 25 30

Lys Cys Leu
 35

<210> 1157
 <211> 57
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1157

Phe Phe Arg Leu Phe Arg Lys Met Phe Lys Leu Leu Pro Lys Pro Tyr
 1 5 10 15

Val Gly Ala Lys Arg Met Leu Met Leu Arg Asp Gly Pro Leu Gln Thr

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<210> 1158
<211> 33
<212> PRT
<213> Artificial Sequence
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<220>
<223> Computer-generated peptide variant

Arg Phe Arg Ile Leu His Lys Leu Phe Arg Lys Leu Arg Gln Cys Gln
1 5 10 15

Arg Trp Leu Ser Ala Leu Tyr Lys Leu Ile Lys Leu Leu Trp Leu Leu
20 25 30

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<210> 1159
<211> 82
<212> PRT
<213> Artificial Sequence
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<220>
<223> Computer-generated peptide variant

Leu Trp Arg Leu Phe Arg Lys Phe Trp Arg Arg Leu Arg Lys Lys Ala
1 5 10 15

Glu Ile Leu Phe Phe Asn Ser Tyr Ser Ala Ser Arg Met Ala Arg Met
20 25 30

Leu Met Arg Leu Ala Arg Thr Lys Leu Lys Lys Ala Phe Gly Ile Ala
35 40 45

Leu Ala Asn Lys Ala Asp Asp Leu Arg Leu Ala Lys Phe Arg Leu Phe
50 55 60

Gly Lys Ser Glu Ala Ser Ala Pro Arg Glu Arg Arg Gly Tyr Lys Arg
 65 70 75 80

Arg Tyr

<210> 1160
 <211> 68
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1160

Phe Trp Lys Ile Leu Ser Arg Leu Leu Arg Met Leu Ser His Lys Lys
 1 5 10 15

Asn Leu Tyr Cys Leu Tyr Lys Arg Val Asp Leu Lys Arg Arg Pro Arg
 20 25 30

Lys Leu Ile Ala Gly Lys Asp Tyr Pro Leu Ala Lys Lys Met Leu Ser
 35 40 45

Gly Lys Arg Ile Cys Lys Thr Leu Val Met Cys Leu Ala Ala Ala Lys
 50 55 60

Leu Met His Lys
 65

<210> 1161
 <211> 50
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1161

Lys Leu Arg Leu Phe Arg Lys Tyr Leu Lys Trp Leu Lys Cys Arg Arg
 1 5 10 15

Ala Arg Asp Arg Trp Leu Ala Lys Leu Leu Arg Arg Phe Ala Pro Leu
 20 25 30

Arg Phe Leu Asn Met Lys Phe Thr Val Leu Pro Ala Ala Arg Leu Trp

35

40

45

Trp Met
50

<210> 1162
<211> 52
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 1162

Arg Tyr Lys Phe Leu Thr Arg Tyr Tyr Arg Leu Ile Arg Arg Cys Leu
1 5 10 15

Cys Cys Trp Cys Arg Ala Lys Ala Ala Ala Met Arg Trp Thr Phe
20 25 30

Arg Ser Arg Ala Arg Gly Ala Met Arg Gln Lys Val Leu Ala Leu Lys
35 40 45

Phe Ile Ile Lys
50

<210> 1163
<211> 55
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 1163

Leu Trp Lys Phe Leu Lys Lys Trp Tyr Lys Lys Leu Cys Lys Cys Lys
1 5 10 15

Leu Val Ala Leu Ser Ser Gly Met Met Val Leu Leu Leu Ala Asn Ala
20 25 30

Lys Lys Glu Ile Asp Lys Glu Arg Ser Ala Ile Arg Leu Ala Ala Ala
35 40 45

Tyr Ile Cys Ala Lys Trp Ala
50 55

<210> 1164
 <211> 58
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1164

Arg Leu Arg Phe Leu Arg Arg Leu Leu Arg Phe Phe Asn Lys Cys Pro
 1 5 10 15

Ala Arg Arg Pro Ala His Trp Arg Lys Ala Ser Arg Leu Lys Arg Leu
 20 25 30

Ile Leu Thr Met Met Arg Lys Thr Ile Pro Leu Ala Lys Thr Leu Gly
 35 40 45

Lys Ala Arg Thr Pro Val Arg Cys Ile Ala
 50 55

<210> 1165
 <211> 89
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1165

Tyr Tyr Arg Leu Phe Ser Arg Phe Phe Arg Lys Phe Lys Asn Leu Arg
 1 5 10 15

Lys Arg Leu Arg Ser Asp Asp Ala Leu Ala Pro His Phe Ala Arg Lys
 20 25 30

Lys Lys Ala Cys Pro Val Arg Ser Gly Cys Leu Leu Phe Leu Ala Glu
 35 40 45

Met Lys Leu Ala Cys Lys Leu Lys Gln Ala Arg Val Arg Pro Lys Lys
 50 55 60

Ala Leu Thr Ala Met Arg Tyr Leu Val Met Lys Phe Ala Leu Tyr Asp
 65 70 75 80

Gln Leu Phe Leu Ala Leu Phe Ala Asn

85

<210> 1166
 <211> 63
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1166

Lys Leu Arg Tyr Trp Arg Lys Leu Phe Arg Arg Trp Asn Thr Lys Lys
 1 5 10 15

Arg Trp Leu Leu Leu Lys Leu Cys Ala Gln Ser Arg Met Ala Leu Gly
 20 25 30

Tyr Cys Glu Ala Pro Phe Asn Lys Arg Gln Trp Ser Lys Ala Tyr Arg
 35 40 45

Arg Arg Ile Lys Ala Val Arg His Ala Lys Leu Cys Leu Gly Ala
 50 55 60

<210> 1167
 <211> 26
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1167

Leu Leu Lys Ile Leu Thr Arg Leu Phe Lys Met Leu Lys Lys His Lys
 1 5 10 15

Met Ala Ala Thr Ala Arg Ala Gly Phe Gln
 20 25

<210> 1168
 <211> 31
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1168

Lys Phe Lys Ile Tyr Arg Lys Phe Leu Lys Lys Tyr Lys Thr Val Ala

1 5 10 15

Ile Ala Met Phe Ala Phe Glu Leu Leu Leu Ile Arg Lys Leu Arg
20 25 30

<210> 1169
<211> 71
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 1169

Lys Ile Lys Tyr Leu Gln Lys Phe Phe Lys Arg Phe Arg Arg Ser Leu
1 5 10 15

Ala Asn Asn Ile Val Cys Cys Pro Ser Ala Ala Ala Arg Thr His Gln
20 25 30

Lys Phe Pro Leu Leu Leu Arg Ala Arg Asp Ala Lys Arg Ala Ala Thr
35 40 45

Lys Leu Gly Ile Lys Arg Arg Thr Lys Glu Lys Ala Trp Cys Arg Cys
50 55 60

Lys Leu Lys Lys Leu Tyr Asp
65 70

<210> 1170
<211> 42
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 1170

Lys Phe Arg Leu Leu Ser Lys Tyr Ile Arg Leu Leu Lys Arg Trp Arg
1 5 10 15

Leu Ala Gly Arg His Leu Trp Lys Leu Arg Glu Ala Gln Ala Ser Gly
20 25 30

Tyr Ala Cys Ala Arg Trp Lys Ala Leu Glu
35 40

<210> 1171
 <211> 78
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1171

Lys Phe Arg Ile Met Pro Arg Phe Leu Lys Leu Leu Lys Lys Arg Lys
 1 5 10 15

Asn Ala Glu Leu Lys Ala Ala Asn Lys Ala Leu Glu Gln Lys Lys Phe
 20 25 30

Lys Gly Ala Leu Pro Ala Glu Ala Ala Asn Asn Leu His Gln Ala Arg
 35 40 45

Ser Trp Ala Ala Leu Leu Thr Phe Tyr Arg Val Asn Ala Lys Leu Lys
 50 55 60

Asp His Arg Arg Arg Met Arg Ala Leu Ser Ala Thr Ala Trp
 65 70 75

<210> 1172
 <211> 92
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1172

Arg Phe Arg Phe Ile Pro Arg Phe Met Lys Arg Leu Ser Thr Thr Thr
 1 5 10 15

Glu Leu Ala Arg His Ala Cys Lys Arg Leu Leu Thr Leu Gln Arg Leu
 20 25 30

Arg Asn Thr Arg Lys Leu Asp Leu Ile Leu Leu Lys Leu Leu Ala Arg
 35 40 45

Ala His Met Met Ala Ala Arg Val Pro Ala Leu Arg Ala Asn Ala Lys
 50 55 60

Gln Arg Ile Leu Arg Gln Arg Asn Leu Ala Ser Lys Lys Glu Lys Asp

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1175

Arg	Leu	Arg	Tyr	Leu	Arg	Lys	Tyr	Phe	Lys	Ile	Leu	Lys	Ser	Met	Asn
1				5					10					15	

Asn	Gln	Leu	Lys	Ala	Gly	Lys	Leu	Ala	Asn	Val
		20					25			

<210> 1176

<211> 60

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1176

Lys	Leu	Lys	Ile	Met	Cys	Lys	Leu	Met	Arg	Tyr	Phe	Lys	Lys	Arg	Thr
1				5					10					15	

Leu	Thr	Ala	Ser	Lys	Arg	His	Leu	Arg	Lys	Ala	Met	Arg	Leu	Ile	Ala
			20					25					30		

Glu	Lys	Cys	Met	Lys	Leu	Ser	Gln	Lys	Ala	Arg	Met	Ser	Ile	Asp	Lys
		35					40					45			

Leu	Leu	Leu	Arg	Ala	Leu	Ala	Ala	Ala	His	Met	Arg
	50					55					60

<210> 1177

<211> 86

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1177

Tyr	Ile	Arg	Phe	Leu	Lys	Arg	Leu	Leu	Lys	Arg	Phe	Ser	Gln	Met	Phe
1				5					10					15	

Thr	Asn	Leu	Lys	Leu	Val	Arg	Arg	Phe	Leu	Leu	Lys	Arg	Lys	Ala	Asp
			20					25					30		

Arg Ala Leu Lys Leu Ser Cys Lys Arg Trp Ile Ala Asp His Ser Arg
 35 40 45

Ala Ser Leu Lys Cys Asp Arg Ala Ala Ser Asp Ala Leu Ala Tyr Lys
 50 55 60

Ala Val Lys Gln Arg His Arg Gly Phe Leu Arg Asp Gln Ala Pro Lys
 65 70 75 80

Gly Asp His Leu Arg Phe
 85

<210> 1178
 <211> 43
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1178

Arg Met Arg Trp Phe Lys Arg Leu Leu Arg Tyr Leu Pro Asn Ala Ser
 1 5 10 15

Ala Leu Leu Ala Ile Ala Leu Lys Lys Gln Ser Arg Trp Leu Ala Lys
 20 25 30

Thr Asp Ala Arg Met Leu Gln Trp Val Met Lys
 35 40

<210> 1179
 <211> 48
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1179

Leu Trp Arg Leu Leu Arg Arg Leu Met Lys Met Leu Arg Gln Lys Ala
 1 5 10 15

Arg Ala Tyr Pro Ala Glu Ala Lys Ile Ser Arg Asn His Lys Lys Leu
 20 25 30

Lys Lys Tyr Val Arg Ala Arg Asn Ala Gly Glu His Ala Gly Arg Thr

35

40

45

<210> 1180

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1180

Arg Tyr Arg Phe Trp Arg Arg Met Tyr Lys Trp Leu Arg Arg Gln Leu
 1 5 10 15

Ala Leu Thr Arg Ala Ala Ser Leu Ala Asn Leu Ala Gly Gly Arg Glu
 20 25 30

Leu Ala Cys Phe
 35

<210> 1181

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1181

Tyr Ile Arg Phe Leu Asn Arg Phe Leu Lys Phe Leu Pro Cys Lys Lys
 1 5 10 15

Lys Gln Ala Ala
 20

<210> 1182

<211> 49

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1182

Lys Tyr Lys Phe Tyr Gln Lys Leu Trp Lys Tyr Ile Arg Cys Trp Asp
 1 5 10 15

Asn Ala Lys Arg Tyr Asp Arg Ser Gly Arg Leu Arg Leu Leu Met Ala

20

25

30

Lys Ala Ser Lys Ala Lys Leu Phe Ala Lys Ala Met Ala Cys Asp Phe
 35 40 45

Ala

<210> 1183
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1183

Tyr Leu Lys Leu Leu Arg Arg Leu Leu Lys Arg Met Thr Gln His Tyr
 1 5 10 15

Thr Ala Met Ala Lys Arg Cys Gln Asn
 20 25

<210> 1184
 <211> 53
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1184

Arg Phe Arg Leu Ile Lys Arg Leu Leu Lys Arg Phe His Arg Gln Asp
 1 5 10 15

Tyr Ile Gly Leu Asn Tyr Glu Glu Ser Arg Tyr Asp Ser Leu Ala Lys
 20 25 30

Trp Ala Arg Leu Arg Arg Ala Leu Thr Leu Arg Ala Met Met Gln Lys
 35 40 45

Leu Leu Leu Lys Pro
 50

<210> 1185
 <211> 63
 <212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1185

Trp Phe Lys Leu Leu Lys Lys Leu Leu Lys Ile Tyr Thr Arg Pro Lys
1 5 10 15

Pro Thr Leu Leu Phe Pro Leu Ala Leu Met Ser Asn Ser Glu Ala Leu
20 25 30

Lys Val Lys Gln Arg Lys Ala Arg Tyr Met Leu Phe Met Thr Leu Arg
35 40 45

Arg Arg Lys Arg Leu Gln Arg Cys Arg Gly His Arg Val Ile Ala
50 55 60

<210> 1186

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1186

Arg Ile Arg Leu Leu Lys Arg Leu Met Arg Lys Met Ser Pro Val Lys
1 5 10 15

Ala Glu Gly Leu Leu
20

<210> 1187

<211> 47

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1187

Leu Phe Arg Leu Ile Arg Lys Phe Leu Arg Arg Phe Arg Ser Arg Ala
1 5 10 15

Ala Lys Gln Phe Leu Met Met Ala His Leu Arg Lys Ala Pro Glu His
20 25 30

Trp Ile Arg Leu Lys Leu Asn Asp Lys Tyr Ala Arg Ala Arg Arg
35 40 45

```
<210> 1188
<211> 22
<212> PRT
<213> Artificial Sequence
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<220>
<223> Computer-generated peptide variant

<400> 1188

Lys Leu Arg Leu Phe Pro Arg Leu Ile Arg Leu Phe Arg Lys Gly Ala
1 5 10 15

Arg His Lys Met Ala Tyr
20

```
<210> 1189
<211> 35
<212> PRT
<213> Artificial Sequence
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<220>
<223> Computer-generated peptide variant

<400> 1189

Arg Leu Arg Leu Tyr Lys Lys Leu Phe Arg Phe Leu Arg Arg Arg Lys
1 5 10 15

Leu Ile Asp Arg Ser Ala Phe Gly Arg Thr Asn Ser Leu Leu Cys Ala
20 25 30

Met Phe Leu
35

```
<210> 1190
<211> 30
<212> PRT
<213> Artificial Sequence
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<220>
<223> Computer-generated peptide variant

$\langle 400 \rangle$ 1190

Arg Leu Arg Tyr Trp Pro Lys Leu Leu Lys Met Leu Lys Lys Asn Gly
1 5 10 15

Lys Val Val Trp Gln Arg Asn Leu Lys Thr Ala Ala Ser Leu
20 25 30

```
<210> 1191
<211> 29
<212> PRT
<213> Artificial Sequence
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<220>
<223> Computer-generated peptide variant

<400> 1191

Ile Leu Arg Leu Leu Ser Arg Phe Trp Lys Trp Leu Lys Lys Lys Leu
1 5 10 15

Ala Ala Lys Asp Gln Leu Ala Phe Glu Arg Leu Cys Lys
20 25

```
<210> 1192
<211> 39
<212> PRT
<213> Artificial Sequence
```

<220>
<223> Computer-generated peptide variant

<400> 1192

Lys Leu Lys Trp Met Arg Arg Leu Tyr Lys Trp Leu Pro Thr Lys Ala
1 5 10 15

Glu Ala Lys Arg Leu Leu Thr Ala Ile Cys Leu Asn Asp Arg Arg Ala
20 25 30

Arg Gln Gly Ala Arg Asp Leu
35

```
<210> 1193
<211> 23
<212> PRT
<213> Artificial Sequence
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<220>
<223> Computer-generated peptide variant

<400> 1193

Leu Leu Lys Phe Tyr Ser Lys Phe Leu Arg Arg Phe Arg Arg Ala Phe
1 5 10 15

Gly Thr Lys Trp Ser Leu Ala
20

<210> 1194
<211> 24
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 1194

Leu Met Arg Leu Ile Arg Lys Leu Trp Lys Phe Phe Thr Cys Arg Phe
1 5 10 15

His Leu Ile Lys Arg Arg Ala Leu
20

<210> 1195
<211> 42
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 1195

Lys Tyr Lys Trp Tyr Thr Arg Trp Tyr Arg Phe Met His Lys His Ile
1 5 10 15

Lys Arg Leu Ser Arg Trp Ala Ala Leu Gln Lys Ile Ala Cys Lys Pro
20 25 30

Ala Arg Ala Leu Leu Thr Leu Lys Arg Lys
35 40

<210> 1196
<211> 26
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 1196

Tyr Ile Lys Leu Leu Arg Lys Leu Met Arg Leu Phe Lys Gln Leu Lys
1 5 10 15

Ser Ser Leu Cys Leu Ala Asp Tyr Arg Glu
 20 25

<210> 1197
 <211> 45
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1197

Arg Leu Arg Phe Phe Thr Arg Leu Phe Lys Arg Phe His Cys Asn Phe
 1 5 10 15

Leu Ala Leu Lys Arg Lys Arg Glu Ala Glu Lys His Leu Arg Ala Asp
 20 25 30

Gln Asn Lys Arg Arg Glu Ala Met Ala His Gln Leu Arg
 35 40 45

<210> 1198
 <211> 43
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1198

Leu Leu Lys Leu Ile Ser Lys Leu Phe Lys Lys Leu His Arg Lys Arg
 1 5 10 15

Val Gln Leu Leu Lys Ala Ala Lys Arg Leu Pro Ala Met Phe Tyr Lys
 20 25 30

Tyr Lys Val Ile Ala Arg Gln Lys Ile Val Ala
 35 40

<210> 1199
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1199

Arg Ile Lys Trp Leu Asn Arg Leu Leu Arg Lys Met Cys His Ser Arg
 1 5 10 15

His Leu Leu Asn
 20

<210> 1200
 <211> 60
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1200

Leu Phe Lys Ile Leu Lys Arg Leu Ile Arg Leu Leu Asn Cys Lys Ala
 1 5 10 15

Ala Lys Arg His Pro Lys Leu Leu Leu Lys Pro Leu Arg Arg Cys Ala
 20 25 30

Trp Asn Glu Met Gln Lys Lys Glu Ala Tyr Ile Arg Glu Glu Phe Leu
 35 40 45

Pro Tyr Ala Thr Lys Arg Ala Arg Thr Lys Val Cys
 50 55 60

<210> 1201
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1201

Trp Leu Lys Leu Leu Pro Arg Leu Ile Arg Leu Met Cys Arg Ala Leu
 1 5 10 15

Lys Lys Arg Cys Met Met Trp Leu Leu Ala Phe Thr Gln Arg Arg Met
 20 25 30

His Ala Asn
 35

<210> 1202

<211> 27
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1202

Tyr Trp Lys Leu Leu Lys Arg Leu Leu Lys Arg Met Pro Lys Ala Pro
 1 5 10 15

Tyr Ala Cys Ala His Lys Ile His Met Ala Asp
 20 25

<210> 1203
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1203

Lys Trp Arg Leu Leu Gln Arg Phe Phe Lys Leu Leu Lys His Ser Lys
 1 5 10 15

Arg His Ala Lys Ala Ala Leu Leu
 20

<210> 1204
 <211> 53
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1204

Lys Phe Arg Leu Leu Ser Arg Leu Phe Arg Leu Leu Arg Arg Ala Ile
 1 5 10 15

Gln Trp Leu Met His Glu Val Asp Pro Ala Ala Asn Ser Leu Arg Leu
 20 25 30

Ala Leu Val Lys Ala Lys Arg Phe Arg Lys Lys Ala Glu Leu Val Lys
 35 40 45

Ala Cys Leu Lys Met

50

<210> 1205
 <211> 66
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1205

Lys Ile Lys Leu Leu Pro Arg Leu Ile Arg Met Leu Arg Lys Asp Pro
 1 5 10 15

Phe Lys Leu Met Pro Arg Lys Phe Met Arg Trp Thr Lys Arg Asp Val
 20 25 30

Leu Trp Val Asp Ser Trp Ala Lys Arg Gln Phe Ser Lys Leu Lys Arg
 35 40 45

Leu Arg Ala Val Lys Glu Lys Arg Leu Leu Arg Ala Leu Pro Ile Leu
 50 55 60

Gln Ala
 65

<210> 1206
 <211> 79
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1206

Arg Leu Arg Trp Leu Lys Arg Tyr Ile Lys Ile Phe Asn Arg Arg Leu
 1 5 10 15

Lys Leu Ala Lys Lys Leu Ala Ile Arg Arg Ser Pro Ala Val Ala Leu
 20 25 30

Ala Arg Pro Ala Met Trp Phe His Leu Gly Gly Asp Ala Arg Arg Gln
 35 40 45

Thr Thr Lys Pro Leu Leu Gly Tyr Asn Asp Lys Lys Tyr Cys Lys Val
 50 55 60

Tyr Ser Leu Lys Trp Tyr Leu Ala Glu Ile Ala Lys Arg Lys Lys
 65 70 75

<210> 1207
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1207

Arg Phe Arg Leu Leu Cys Arg Phe Trp Lys Leu Met Lys Arg Ile Leu
 1 5 10 15

Lys Ser Leu Ala
 20

<210> 1208
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1208

Lys Leu Lys Phe Leu Cys Lys Phe Leu Arg Lys Trp Lys Arg Tyr Arg
 1 5 10 15

Gly Pro Phe Leu Leu His Arg Pro Leu Leu Ser Ile Lys Cys
 20 25 30

<210> 1209
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1209

Leu Met Lys Tyr Ile Arg Lys Trp Leu Arg Lys Leu Gln Lys Glu Arg
 1 5 10 15

Leu Cys Leu Val Asp
 20

<210> 1210
 <211> 37
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1210

Leu Leu Lys Met Met Lys Lys Leu Leu Arg Trp Ile Arg Ser Arg Phe
 1 5 10 15

Lys Arg Leu Leu Arg Pro Gln Trp Lys Arg Arg Ile Gly Glu Ala Leu
 20 25 30

Phe Ala Thr Asp His
 35

<210> 1211
 <211> 99
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1211

Leu Phe Arg Tyr Trp Lys Lys Leu Phe Arg Arg Ile Arg Lys Lys Arg
 1 5 10 15

Cys Leu Ala Arg Ala Leu Leu Ser Lys Ser Lys Leu Asn Ala Lys Cys
 20 25 30

Ile Lys Thr Ala Leu Leu His Arg Leu Lys Leu Gly Leu Ala Ala Lys
 35 40 45

Tyr Leu Ala Leu His Ala Leu Asn Arg Ala Ile Tyr Cys Arg Ser Arg
 50 55 60

Leu Gln Pro Ala Thr Asn Lys Lys Phe Ala Pro Val Ile Phe Arg Met
 65 70 75 80

Phe Leu Glu His His Leu His Lys Met Lys Arg Lys Phe Thr Tyr Ser
 85 90 95

Arg Asn Asn

<210> 1212
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1212

Met Met Arg Tyr Trp Lys Lys Leu Trp Lys Arg Phe Arg Cys Ala Met
 1 5 10 15

Leu Asp Leu Lys Ala Val Lys Arg Leu Leu Ala Asp Lys Gln Val His
 20 25 30

Ala Thr Ala Cys
 35

<210> 1213
 <211> 86
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1213

Arg Leu Lys Leu Tyr Asn Arg Ile Leu Lys Phe Leu Lys Ser Leu His
 1 5 10 15

Leu Leu His Ala Glu Cys Ala Ser Lys Arg Tyr Leu Trp Asn Arg Leu
 20 25 30

Lys Lys Phe Lys Thr Arg Lys Lys Pro Cys Pro Lys Lys Gly Lys Ala
 35 40 45

Trp Asn Asp Gly Trp Ile Lys Lys Ala Met Ala Ile Val Lys Leu Ala
 50 55 60

Arg Asn Pro Leu Leu Arg Arg Val Arg Gly Ala Ala Leu Leu Lys Ala
 65 70 75 80

Pro Lys Arg His Glu Phe
 85

<210> 1214
 <211> 39
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1214

Ile Tyr Arg Leu Ile Lys Arg Met Trp Lys Arg Leu Arg Lys Lys Ala
 1 5 10 15

Met Arg Leu Arg Ile Pro Phe Asp Arg Ser Ala Ala Glu Asp Ile Leu
 20 25 30

Lys Leu Arg Ala Ile Phe Ala
 35

<210> 1215
 <211> 83
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1215

Tyr Leu Lys Leu Trp Lys Lys Met Leu Arg Phe Ile Gln Pro Arg Thr
 1 5 10 15

Leu Glu Ala Leu Ala Leu Phe Ser Lys Trp Met Val Ser Ala Ile Ser
 20 25 30

Lys Leu Arg Ala Lys Glu Lys Lys Gly Trp Ala Trp Met Arg Ile Arg
 35 40 45

Ile Ala Ala Lys Leu Met Arg Phe Phe Ile Ala His Glu Lys Lys Met
 50 55 60

Asn Arg Ala Lys Ala Gln Ser Ala Arg Leu Ile Ala Arg Tyr Tyr Lys
 65 70 75 80

Lys Leu Ala

<210> 1216

<211> 82
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1216

Phe Tyr Arg Phe Leu Arg Lys Leu Phe Arg Ile Leu Lys Arg Ile Gln
 1 5 10 15

Val Lys Trp Ile Arg Lys Lys Met Arg Arg Thr Ala Leu Tyr Arg Thr
 20 25 30

Gln Phe Lys Lys Lys Met Leu Thr Thr Pro Phe Arg Ala Leu Tyr Tyr
 35 40 45

Gly Ile Leu Leu Arg Pro Lys Ala Lys Ala Lys Leu Leu Leu Ala Ser
 50 55 60

Gln Thr Glu Leu Tyr Phe Leu Lys Leu His Phe Ser Leu Arg Leu Arg
 65 70 75 80

Lys Gly

<210> 1217
 <211> 51
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1217

Tyr Leu Arg Leu Tyr Lys Arg Trp Leu Arg Phe Phe Cys Asn Lys Leu
 1 5 10 15

Tyr Thr Leu Arg Leu Asn Asn Arg Lys Glu Met Gln Arg Ala Arg Leu
 20 25 30

Ser Ile Ala Lys Cys Met Asn Lys Val Lys Lys Lys Arg Leu Ala Val
 35 40 45

Lys Cys Ala
 50

<210> 1218
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1218

Met Met Arg Phe Leu Ser Arg Tyr Leu Arg Met Met Gln His Lys Asn
 1 5 10 15

Arg Lys Leu Arg Lys Lys Ala Leu Leu Ile His Asp Lys Arg Ala His
 20 25 30

Leu Asp Lys Ser His Lys Leu Pro
 35 40

<210> 1219
 <211> 69
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1219

Leu Leu Lys Leu Leu Pro Arg Ile Met Lys Lys Met Arg Pro Leu Ile
 1 5 10 15

Leu Trp Arg Lys Arg Glu Lys Met Gly His Asp Trp Leu His Phe Leu
 20 25 30

Trp Ala Pro Ile Ser Pro Lys Glu Ala Leu Asn Ala Arg Val Lys Gly
 35 40 45

Lys Leu Lys Asp Arg Ala Lys Cys Asp Asn Met Trp Arg Lys Leu Ala
 50 55 60

Lys Leu Gly Arg Arg
 65

<210> 1220
 <211> 92
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1220

Arg	Met	Lys	Phe	Phe	Cys	Lys	Leu	Leu	Lys	Met	Leu	Lys	Gln	Ile	Arg
1				5					10					15	

Arg	Lys	Leu	Lys	Arg	Ala	Arg	Ser	Arg	Phe	Asn	Ser	Lys	Arg	Gln	Tyr
			20					25					30		

Glu	Tyr	Ala	Ala	Ala	Met	Lys	Asn	Lys	Arg	Lys	Tyr	Ala	Trp	Ala	Ala
		35					40					45			

Ala	Gly	Pro	Ala	Leu	Ser	Leu	Lys	Lys	Ile	Leu	Gly	Arg	His	Ala	Trp
	50					55					60				

Lys	Lys	Lys	Asn	Trp	Arg	Trp	Lys	Thr	Gln	Ala	Met	Phe	Leu	Lys	Arg
65					70					75					80

His	Gln	Leu	Arg	Leu	Gly	Leu	Cys	Arg	Lys	Ala	Ile
				85					90		

<210> 1221

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1221

Lys	Tyr	Lys	Leu	Tyr	Lys	Lys	Ile	Met	Arg	Lys	Leu	Arg	His	Leu	Ala
1				5					10					15	

Ala	Gln	Thr	Asp	His	Leu	Thr
			20			

<210> 1222

<211> 91

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1222

Lys	Tyr	Lys	Met	Leu	His	Arg	Leu	Leu	Arg	Arg	Tyr	Lys	Thr	Lys	Met
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

1 5 10 15

Cys Arg Leu Asn Leu Leu Arg His Arg Ser Leu Asn His Ala Arg Leu
20 25 30

Ala Asn Arg Asn Leu Ser Leu Trp Arg Lys Leu Ser Ala Leu Phe Arg
35 40 45

Thr Leu Leu Leu Ala Lys Lys Ala Ala Glu Met Pro Asn Ala Asn Phe
50 55 60

Pro Asp Cys Ile Ile Asp Ala Arg Val Ile Lys Lys Arg Ala Pro Tyr
65 70 75 80

Lys Lys Tyr Pro Ala Lys Ile Arg Arg Leu Glu
85 90

<210> 1223
 <211> 46
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1223

Leu Met Arg Leu Phe Lys Arg Tyr Phe Lys Arg Trp Lys Pro Trp Tyr
1 5 10 15

Phe Gln Leu Arg Glu Val Thr Leu Lys Lys Ala Asn Lys Lys Val Ala
20 25 30

Lys Ala Ala Ala Lys Ala Thr Glu Glu Leu Arg Ala Asp Lys
35 40 45

<210> 1224
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1224

Arg Leu Arg Tyr Leu Arg Arg Phe Trp Lys Tyr Met His Lys Arg Ala
1 5 10 15

Leu Ser Leu Leu
20

<210> 1225
<211> 65
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 1225

Lys Leu Lys Ile Leu Gln Arg Leu Phe Arg Tyr Trp Pro Arg Ala Arg
1 5 10 15

Phe Arg Glu Lys Asn Ser Phe Leu Val Thr Lys Cys His Gln Ala Thr
20 25 30

Arg Leu Tyr Ala Leu Ala Arg Arg Asn Gly His Phe Asn Ala Lys Ile
35 40 45

Glu Lys Ala Asn Leu Gly Ala Lys Leu Ala Leu Ala Glu Leu Lys Leu
50 55 60

Arg
65

<210> 1226
<211> 38
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 1226

Phe Ile Lys Tyr Met Lys Lys Leu Leu Arg Trp Tyr Arg Lys Ala Trp
1 5 10 15

Ile Ala Arg Phe Gln His Leu Arg Asp Ala Glu Tyr Lys Leu Ala Lys
20 25 30

Asn Tyr Arg Leu Leu Asp
35

<210> 1227

<211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1227

Arg Phe Lys Ile Leu Cys Lys Leu Ile Lys Leu Ile Asn Lys Phe Lys
 1 5 10 15

Lys Glu Ala Leu Pro Ala Arg Ala Thr Phe Gln His Lys Ala
 20 25 30

<210> 1228
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1228

Trp Leu Arg Trp Leu Arg Arg Leu Ile Arg Lys Ile His His Glu Leu
 1 5 10 15

Leu Asp Arg Ala Lys Arg Pro Ser Ile Phe Leu Ala Lys Ala Leu Ala
 20 25 30

Lys Tyr

<210> 1229
 <211> 46
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1229

Met Tyr Lys Ile Trp Asn Arg Trp Leu Arg Leu Trp Lys Asn Leu Gly
 1 5 10 15

Leu Arg Arg Phe Ala Lys Ala Leu Ile His His Ala Arg Ala Arg Asp
 20 25 30

Ala Lys Arg Lys Asp Leu Ala Gly Gly Leu Trp Ala Trp Glu

35

40

45

<210> 1230

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1230

Leu Phe Arg Ile Leu Pro Lys Met Leu Arg Arg Leu Cys His Phe Val
 1 5 10 15

Phe Lys Leu Ala Met Lys Ala Arg Ala Met Lys Ala Ala Gly Arg Pro
 20 25 30

His Gln Lys
 35

<210> 1231

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1231

Arg Met Lys Tyr Trp Ser Lys Phe Leu Arg Trp Leu Thr Lys Pro Lys
 1 5 10 15

Ala Arg Ala Arg Asp Lys Glu Lys Leu Leu Phe Ala Ala
 20 25

<210> 1232

<211> 49

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1232

Leu Phe Arg Phe Ile Arg Lys Trp Trp Lys Lys Phe Asn Lys Ala Met
 1 5 10 15

Ala Trp Ser Arg Pro Leu Lys Ala Ile Leu His Leu Lys Cys Asn Arg

30

Gln Arg Ala Asp Ala Leu Ala Val Lys Ala Arg Val Trp Lys His Gln
35 40 45

Leu

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<210> 1233
<211> 36
<212> PRT
<213> Artificial Sequence
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<220>
<223> Computer-generated peptide variant

$\langle 400 \rangle$ 1233

Leu Phe Arg Ile Ile Lys Lys Met Leu Arg Lys Met Thr Lys Pro Leu
1 5 10 15

Lys Ser Phe Ala Glu Lys Asn Ala Lys Leu Arg Asn Leu Leu Arg Leu
20 25 30

Arg Ala Tyr Leu
35

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<210> 1234
<211> 70
<212> PRT
<213> Artificial Sequence
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<220>
<223> Computer-generated peptide variant

<400> 1234

Phe Leu Arg Leu Leu Gln Lys Tyr Phe Arg Arg Leu Cys Arg Arg Arg
1 5 10 15

Pro Tyr His Asp Lys Ala Arg Met Ile Lys Leu Ser Glu Phe Lys Ala
20 25 30

His Gln Ala Ser Ala Arg Arg Ser Leu Trp Gly Lys Cys Ala Ala Thr
35 40 45

Arg Gln Ala Arg Arg Lys Leu Thr Val Arg Gly Ala Pro Arg Lys Ser
50 55 60

Met Trp Ala Gln Lys Lys
65 70

<210> 1235
<211> 72
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 1235

Arg Leu Arg Ile Leu Lys Arg Phe Leu Arg Arg Tyr Lys Ser Arg Lys
1 5 10 15

Asn Leu Ala Ala Ser Thr Leu Leu Asn Arg Ile Pro Asn Leu Gly Leu
20 25 30

Lys Ala Met Ala Ile Gln Lys Asn Leu Met Leu Ala Arg Val Ala Tyr
35 40 45

Gly Asn Pro Leu Ala Leu Ala Trp Gly Cys Thr Gly Ala Phe Leu Lys
50 55 60

Leu Lys Lys Gln Ser Cys Arg Trp
65 70

<210> 1236
<211> 87
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 1236

Ile Phe Lys Leu Phe Arg Arg Leu Phe Lys Arg Leu Pro Lys Arg Arg
1 5 10 15

Lys Glu Leu Leu Arg Val Leu Met Pro Gly Gln Lys Ser Lys Thr Ala
20 25 30

Ala Lys Arg Lys Leu Pro Arg Gly Thr Ile Ala Val Leu Lys Arg Met
35 40 45

Asn Trp Ala Cys Trp Thr Ser Leu Pro Trp Ala Arg Thr Arg Ser Arg

50 55 60

Arg Cys Gln Leu Leu Arg Lys Cys Ser Lys Leu Lys Ser Lys Gly Ala
65 70 75 80

Ala Ala Val Pro Phe Leu Cys
85

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<210> 1237
<211> 20
<212> PRT
<213> Artificial Sequence
```

<220>
<223> Computer-generated peptide variant

<400> 1237

Arg Leu Arg Leu Trp Lys Lys Tyr Leu Arg Leu Leu Cys Lys Leu Gly
1 5 10 15

Met Arg Cys Gln
20

```
<210> 1238
<211> 58
<212> PRT
<213> Artificial Sequence
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<220>
<223> Computer-generated peptide variant

<400> 1238

Arg Tyr Lys Phe Leu His Lys Leu Tyr Arg Phe Leu His Lys Pro Glu
1 5 10 15

Asp Gln Arg Leu Arg Gly Ala Ile His Trp Trp Ala Thr Cys Leu Lys
20 25 30

Ala Leu Asn Arg Arg Leu Leu Gln Gln Gly Lys Phe Lys Ala Tyr Ala
35 40 45

Leu Ala Asp Lys Gln Leu Leu Arg Arg Thr
50 55

$\langle 210 \rangle$	1239
$\langle 211 \rangle$	72
$\langle 212 \rangle$	PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1239

Arg Phe Lys Met Leu Arg Arg Leu Phe Arg Arg Met Lys Arg Lys Leu
1 5 10 15

Ile Thr Tyr Lys Asn Ala Ile Ser Gly Lys Thr His Gln Pro Leu Leu
20 25 30

Arg Lys Arg Ala Asn Thr Lys Ile Met Leu Tyr Lys His Lys Ala Phe
35 40 45

Gln Lys Gly Arg Lys Gly Ser Glu Ala Lys Leu Leu Asn Ala Ala Cys
50 55 60

Trp Lys Ala Leu Phe Ala Arg His
65 70

<210> 1240

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1240

Arg Trp Lys Leu Tyr Arg Arg Leu Phe Arg Leu Ile Ser His Ala Gly
1 5 10 15

Ala Leu Cys Cys
20

<210> 1241

<211> 47

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1241

Leu Leu Lys Leu Met Pro Lys Ile Leu Arg Arg Phe Lys Ser Glu Tyr
1 5 10 15

Ala Leu Leu Phe Met Ala Ile Ala Ile Ile Lys Arg Ile Leu Arg Ile
 20 25 30

Lys Lys Asn His Leu Leu Ile Ala Ile Ser Arg Ala Thr Trp Arg
 35 40 45

<210> 1242
 <211> 63
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1242

Phe Tyr Lys Leu Trp Ser Lys Phe Trp Lys Lys Leu Lys Ser Arg Leu
 1 5 10 15

Ala Glu Lys Arg Trp Arg Asp Val Leu Leu Ala Tyr Val Arg Arg Arg
 20 25 30

Met Lys Ala Gly Lys Gln Ala Ala Arg Asp Ile Ala Asn Leu Ala Leu
 35 40 45

Ala Phe Ala Arg Lys Trp Ala Asp Thr Arg Asp Asn Leu Leu Ala
 50 55 60

<210> 1243
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1243

Lys Leu Lys Trp Leu Asn Arg Phe Leu Arg Lys Leu Cys Arg Trp Leu
 1 5 10 15

Lys Arg Leu His Lys Lys Arg Ala Arg His Leu Leu Ala Tyr
 20 25 30

<210> 1244
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1244

Leu	Leu	Arg	Trp	Leu	Arg	Lys	Met	Leu	Arg	Lys	Trp	Lys	Asn	Glu	Leu
1				5					10					15	

Lys	Trp	Leu	Ala
			20

<210> 1245

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1245

Phe	Trp	Arg	Leu	Ile	Arg	Lys	Leu	Leu	Lys	Arg	Leu	His	Lys	Gln	Thr
1				5					10					15	

Lys	Leu	Lys	Arg	Ser	Gln	Ala	Tyr	Ala	Phe	Arg	Trp	Trp	Thr
				20				25					30

<210> 1246

<211> 38

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1246

Arg	Leu	Lys	Leu	Trp	Arg	Arg	Leu	Leu	Arg	Lys	Leu	Lys	Gln	Ala	Ala
1				5					10					15	

Thr	Arg	Leu	Trp	Asn	Ala	Arg	Arg	Phe	Asn	Leu	Asp	Leu	Lys	Trp	Arg
				20				25					30		

Val	Tyr	Arg	Leu	Arg	Lys
					35

<210> 1247

<211> 94

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1247

Lys Leu Arg Leu Tyr Ser Arg Phe Phe Arg Phe Leu Lys Cys Ala Glu
 1 5 10 15

Leu Cys Arg Phe Leu Ala Lys Arg Lys Lys Ala Gln Gln Ala Arg Lys
 20 25 30

Ser Lys Arg Arg Val Phe Gln Arg Arg Cys Ser Tyr Ser Ala Lys Pro
 35 40 45

Arg Arg Leu Trp Ser Pro Ala Leu Ala Leu Asn Leu Leu Arg Cys Pro
 50 55 60

Cys Arg Lys Ile Leu Ser Ser Leu Lys Lys Glu Gly Leu Arg Lys Arg
 65 70 75 80

Lys Leu Asp Gln Gly Lys Asp Trp Glu Gln Met Leu Arg Glu
 85 90

<210> 1248

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1248

Lys Tyr Arg Leu Leu Lys Lys Ile Leu Arg Leu Leu Arg Lys Asp Gln
 1 5 10 15

Phe Ala Leu Asn Lys
 20

<210> 1249

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1249

Arg Phe Lys Leu Phe Arg Arg Phe Leu Arg Leu Phe Thr Lys Glu Asn

1 5 10 15

Met Ala Ala Val Leu Asn Lys
20

<210> 1250
<211> 49
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 1250

Leu Leu Lys Leu Leu Lys Lys Phe Ile Arg Leu Phe Cys Arg Met Glu
1 5 10 15

Val Lys Leu Lys Trp Thr Arg Gly Leu Val Glu Gly Ala Ala Ala Ala
20 25 30

Lys Arg Asp Leu Val Trp Asn Ala Leu Arg Arg Ala Val Lys Ala Cys
35 40 45

His

<210> 1251
<211> 29
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 1251

Met Leu Lys Leu Phe Arg Lys Trp Tyr Arg Lys Phe Lys Pro Ala Ala
1 5 10 15

Leu Ser Cys Ala Arg Phe Asn Leu Lys Ser Met Phe Ala
20 25

<210> 1252
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 1252

Lys Leu Arg Leu Leu Ser Lys Met Leu Lys Lys Tyr Pro Lys Leu Ser
1 5 10 15

Lys Lys Val Gln Leu Leu Met Leu Leu Lys Trp Trp
20 25

<210> 1253

<211> 52

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1253

Lys Met Arg Leu Met Asn Arg Phe Tyr Arg Lys Phe Lys Lys Val Lys
1 5 10 15

Leu Tyr Gln Asp Arg Ala Glu Lys Arg Leu Ala His Thr Arg Pro Asn
20 25 30

Ala Pro Gln Ala Lys Met Lys Ile Val His Ala Ala Ala Ala Pro Arg
35 40 45

Lys Ala Lys Gln
50

<210> 1254

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1254

Leu Phe Lys Leu Phe Asn Lys Trp Trp Arg Ile Leu Cys Gln Leu Gln
1 5 10 15

Met Asp Ala Ala Arg Ala Lys Arg Leu Phe Lys Lys
20 25

<210> 1255

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1255

Lys Leu Lys Ile Tyr Gln Lys Leu Phe Lys Phe Leu Gln His Glu Ala
1 5 10 15

Arg Lys Arg Ile Ala Tyr Leu Phe Ala Cys Met Cys Ala Ile Thr Lys
20 25 30

Arg Ala Leu Lys
35

<210> 1256

<211> 44

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1256

Phe Tyr Lys Leu Leu Arg Lys Phe Phe Arg Lys Trp Arg Lys Arg His
1 5 10 15

Asn Gly Arg Met Ala Asp Ala Asn Ala Leu Val Trp Arg Leu Ala Leu
20 25 30

Lys His Arg Val Ala Lys Asn Met Lys His Ser Ala
35 40

<210> 1257

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1257

Leu Leu Lys Phe Phe Thr Arg Trp Leu Lys Leu Met Arg Arg Gln Phe
1 5 10 15

Leu Arg Ala Arg Val Thr Asp Ile Gly Ala Ala Lys Ile Val Arg Ala
20 25 30

Ala Lys Thr Tyr Tyr Arg Asn Ala
 35 40

<210> 1258
 <211> 55
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1258

Leu Leu Arg Leu Leu Cys Lys Leu Tyr Arg Tyr Trp Ser Thr Leu Arg
 1 5 10 15

Ser Arg Lys Ala Ala Glu Met Asp Leu Cys Ala Leu Leu Leu Arg Leu
 20 25 30

His Met Val His Leu Arg Asp Ala Ser Arg Glu Arg Arg Leu Arg Gln
 35 40 45

His Ala Met Leu Glu Lys Lys
 50 55

<210> 1259
 <211> 41
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1259

Ile Met Arg Leu Leu Thr Lys Trp Leu Lys Lys Ile Lys Arg Ala Cys
 1 5 10 15

Gln Phe Lys Lys Ala Leu Leu Ile Arg Asn Ala Lys Asn Trp Arg Ser
 20 25 30

Leu Leu Cys Ala Gln Leu Leu Leu Tyr
 35 40

<210> 1260
 <211> 72
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1260

Arg Leu Lys Ile Leu Pro Lys Phe Ile Arg Lys Leu Cys Arg Thr Cys
 1 5 10 15

Glu Ile Lys Arg Ala Trp Leu Lys Leu His Leu Ala Ala Lys Lys Arg
 20 25 30

Phe Lys Pro Ala Lys His Cys Met Ser Lys Thr Pro Gln Thr Ala Ala
 35 40 45

Ala Arg His Ala Leu Arg Leu His Lys Gln Ala Phe Glu Arg Cys Arg
 50 55 60

Pro Leu Thr Ser Tyr Ala Leu Gln
 65 70

<210> 1261

<211> 37

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1261

Arg Leu Arg Leu Leu Arg Arg Phe Trp Lys Arg Tyr Arg His Gly Leu
 1 5 10 15

Met Ala Leu Leu Ala Leu Pro Lys Gly Met Arg Lys Pro Ala Ala Arg
 20 25 30

Asp Gly Leu Asp Glu
 35

<210> 1262

<211> 88

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1262

Leu Leu Arg Leu Phe Lys Lys Met Phe Lys Phe Ile Ser Arg Val Arg

[illegible]

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<210> 1264
<211> 98
<212> PRT
<213> Artificial Sequence
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<220>

<223> Computer-generated peptide variant

<400> 1264

Arg	Leu	Lys	Phe	Phe	Cys	Arg	Leu	Leu	Lys	Leu	Leu	Gln	Cys	Gln	Lys
1				5					10					15	

Arg	Ile	Lys	Arg	Val	Gly	Phe	Leu	Leu	Glu	Lys	Phe	Val	Arg	Gln	Lys
			20					25					30		

Ile	Lys	Leu	Val	Gly	Gly	Tyr	Leu	Ala	Leu	Arg	Lys	Arg	His	Arg	Ala
		35					40					45			

Lys	Leu	Arg	Ser	Ser	Ala	Glu	Phe	Asn	Ser	Val	Leu	Ala	Lys	Phe	Leu
	50					55					60				

Ala	Pro	Ile	Lys	Leu	Asn	Ser	Thr	Lys	His	Ala	His	Ala	Val	Arg	Ala
65					70					75					80

Arg	Asp	Gly	Arg	Lys	Gln	Leu	Leu	Leu	Lys	Arg	Pro	Arg	His	Lys	Ile
				85					90					95	

Ala Ala

<210> 1265

<211> 74

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1265

Arg	Tyr	Arg	Leu	Phe	Arg	Arg	Leu	Leu	Arg	Arg	Trp	Gln	Gln	Thr	Leu
1				5					10					15	

Lys	Lys	Glu	Lys	Gly	Leu	Tyr	Gln	Leu	Arg	Leu	Gln	Ala	Ala	Phe	Lys
			20					25				30			

Pro	Pro	Gln	Arg	Cys	Arg	Trp	Ala	Arg	His	Thr	Leu	Lys	Glu	Lys	Ala
		35					40					45			

Leu	Arg	Leu	Ala	Phe	His	Asn	Arg	Leu	His	Gly	His	Thr	Met	Lys	Ser
	50					55					60				

Trp Cys Ala Ala Ala Leu Lys His Leu Glu
65 70

<210> 1266
<211> 61
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 1266

Arg Met Arg Tyr Phe Arg Lys Leu Leu Lys Lys Ile Thr Cys Trp Ala
1 5 10 15

His Gln Ala Leu Val Ser Leu Ala Asp Arg Lys His Asn Glu Ala Ala
20 25 30

Gln Pro Leu Arg Arg Lys Leu Tyr Leu Lys Val Ala Val Ser Arg Phe
35 40 45

Ala Trp Glu Arg Leu Asn Leu Phe Ala Leu Leu Arg Asp
50 55 60

<210> 1267
<211> 25
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 1267

Leu Met Arg Phe Tyr Gln Arg Phe Leu Arg Phe Leu Lys His Ala Leu
1 5 10 15

Phe Lys Asp Ser Ala Leu Ala Asp Arg
20 25

<210> 1268
<211> 50
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 1268

Lys Phe Lys Phe Ile Arg Arg Leu Phe Arg Trp Trp Arg Asn Cys Ser
 1 5 10 15

Arg Trp Pro Lys Glu Leu Arg Leu His Ala Trp Leu Ala Cys Asp Leu
 20 25 30

Lys Ala Ala Lys Leu Arg Leu Ala Asp Lys Asn Lys Asp Leu Gly Leu
 35 40 45

Asn Arg
 50

<210> 1269
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1269

Arg Leu Arg Leu Phe Lys Arg Leu Leu Arg Leu Met Thr Ser Lys Leu
 1 5 10 15

Leu Asn Ala Thr Tyr Ser Tyr
 20

<210> 1270
 <211> 44
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1270

Arg Met Arg Tyr Phe Arg Lys Phe Leu Arg Met Phe Arg Cys Arg Val
 1 5 10 15

Ala Phe Leu Ala Ala Gln Cys Arg Leu Ala Lys Tyr Arg Arg Gln Lys
 20 25 30

Glu Arg Lys Ala Tyr Cys Leu Lys Leu Glu Ala Thr
 35 40

<210> 1271

<211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1271

Arg Leu Arg Leu Ile Cys Lys Tyr Leu Lys Leu Leu Arg Lys His Cys
 1 5 10 15

Leu Val Lys Leu Lys Ile Thr Phe Ala Lys Ser Asn Arg Lys Pro Leu
 20 25 30

Lys

<210> 1272
 <211> 38
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1272

Arg Tyr Lys Met Ile Arg Lys Leu Leu Lys Arg Phe Pro Arg Trp Phe
 1 5 10 15

Arg Leu Ser Lys Ser Lys Asp Met Glu Thr Val Ala Ser Leu His Leu
 20 25 30

Leu Ala Lys Lys Gly Leu
 35

<210> 1273
 <211> 96
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1273

Lys Leu Lys Leu Met Pro Lys Trp Trp Lys Ile Leu Lys Arg Tyr Val
 1 5 10 15

Arg Met Asn Ala Leu Ala Tyr Tyr Arg Leu Asp Arg Lys Asn Asp Ala

20

25

30

Ala Trp Glu Trp Ala Ala Phe Ala Arg Ile Ala Gln Leu Lys Arg Lys
 35 40 45

Thr Trp Leu Arg Arg Ile Gly Lys Met Arg Lys Ala Leu Thr Lys Lys
 50 55 60

Ala Ile Phe Arg Arg Ala Leu Met Arg Lys Tyr Lys Leu Thr His Ser
 65 70 75 80

Gln Lys Thr His Pro Ala Ile Lys Met Trp Arg Glu Glu Lys Ala Val
 85 90 95

<210> 1274

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1274

Phe Trp Lys Trp Phe His Lys Leu Ile Lys Leu Leu Lys Lys Cys Asn
 1 5 10 15

Leu His Cys Tyr Arg Lys Leu Leu Leu
 20 25

<210> 1275

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1275

Leu Leu Lys Trp Leu His Lys Tyr Phe Arg Lys Phe Lys His Ser Leu
 1 5 10 15

Tyr Ala Leu Gln Lys Lys
 20

<210> 1276

<211> 58

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1276

Lys Met Lys Met Ile Lys Lys Tyr Trp Lys Arg Tyr Lys Lys Leu Arg
1 5 10 15

Ile Ala Ile Leu Glu Arg Val Arg Glu Ala Lys Arg Arg Asp Leu Ser
20 25 30

Val Ala Val Val Gly Gly Lys His Leu Ala Pro Pro Arg Trp Leu Ala
35 40 45

Arg Ser Ala Leu Arg Phe Leu Ala Ala Leu
50 55

<210> 1277

<211> 56

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1277

Met Tyr Arg Ile Phe Ser Arg Met Phe Arg Trp Leu Thr Pro Lys Thr
1 5 10 15

Lys Lys Cys Ala Leu Ala Cys Ala Leu Lys Arg Lys Lys Leu Ala Leu
20 25 30

Cys Trp Gly Arg Asn Lys Leu Val Arg Asp His Arg Leu Ala Arg Gly
35 40 45

Tyr Leu Trp Trp Lys Arg Arg Tyr
50 55

<210> 1278

<211> 47

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1278

Lys Trp Lys Tyr Leu Arg Lys Leu Leu Arg Leu Phe Lys Arg His Leu
 1 5 10 15

Leu Leu Ser Tyr Ala Gln Lys His Ala Lys Cys Ile Asn Thr Gly Arg
 20 25 30

Lys Gly Arg Lys Lys Asn Ile Cys Leu Ala Met His Ala Arg Arg
 35 40 45

<210> 1279

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1279

Arg Trp Lys Leu Leu Arg Lys Leu Leu Lys Arg Leu Lys Asn Arg Gly
 1 5 10 15

Gln Arg Leu Ala Lys Leu Thr Asn Met Asn Asn Leu Trp Tyr Thr Lys
 20 25 30

Thr

<210> 1280

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1280

Lys Tyr Lys Leu Phe Lys Lys Leu Phe Lys Trp Trp Cys Lys Leu Thr
 1 5 10 15

Ile Leu Asp Asp Leu Ala Glu Arg Ala Leu Cys Asn Ala His Leu Met
 20 25 30

Leu Pro Arg His Arg Asp Arg Lys
 35 40

<210> 1281

<211> 75
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1281

Tyr Tyr Lys Trp Leu Ser Lys Tyr Met Lys Arg Leu Lys Lys Cys Cys
 1 5 10 15

His Gln Thr Pro Ala Arg Tyr Thr Ile Ala Lys Leu Arg His Leu Met
 20 25 30

Ile Lys Leu Asp Met Pro Ala Ala Leu Lys Leu Leu Asp Pro Asn Arg
 35 40 45

Arg Ile Ala Arg Arg Thr Ala Gln Met Arg Arg Arg Leu Arg Ala Ala
 50 55 60

His Ala Gln Leu His Lys Ala Arg Asn Leu Ala
 65 70 75

<210> 1282
 <211> 74
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1282

Lys Phe Lys Leu Leu Pro Lys Leu Met Lys Lys Leu Arg Ser Leu Ser
 1 5 10 15

Pro Ser Arg Ala Leu Ile Arg Leu Tyr Met Asp Phe His Asn Gln Leu
 20 25 30

Ala Lys Arg Ala Arg Ala Arg Leu Ala Gly Gly Leu Lys Val Tyr Lys
 35 40 45

Arg Pro Lys Leu Arg Glu Ile Arg Ala Lys Val Gly Leu Asp Leu Arg
 50 55 60

Tyr His Val Ala Trp Pro Leu Phe Asp Leu
 65 70

<210> 1283
 <211> 38
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1283

Arg Trp Lys Met Leu Arg Arg Trp Leu Lys Lys Met Asn Lys Arg Lys
 1 5 10 15

His Ser Cys Trp Leu Val Met Ala Asp Arg Ala Leu Ala Leu Ile Arg
 20 25 30

Cys Glu Leu Ala Asp Cys
 35

<210> 1284
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1284

Phe Leu Arg Phe Leu His Lys Leu Trp Lys Lys Ile Arg Arg Leu Ala
 1 5 10 15

Arg Leu Thr Cys Leu Ile Gln Pro Lys Phe Cys Lys Val Lys
 20 25 30

<210> 1285
 <211> 51
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1285

Arg Leu Arg Tyr Ile Arg Arg Leu Trp Arg Arg Ile Arg His Leu Lys
 1 5 10 15

Leu Asn Met Ala Leu Tyr Cys Phe Arg Arg Leu Arg Glu Leu Arg Ala
 20 25 30

Trp His Met Ala Ala Cys Leu Asn Lys Met Thr Lys Arg Ala Leu Ala
 35 40 45

Ala Ser Arg
 50

<210> 1286
 <211> 51
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1286

Arg Leu Lys Tyr Phe Thr Lys Trp Phe Arg Lys Leu Lys Arg Tyr Trp
 1 5 10 15

Lys Val Lys Cys Lys Glu Arg Lys Leu Cys Lys Phe Gly Thr Leu Asn
 20 25 30

Leu Arg Ala Leu Glu Leu Leu Ala Leu Leu Leu Leu Phe Cys Leu Leu
 35 40 45

Gly Asn Arg
 50

<210> 1287
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1287

Lys Phe Arg Leu Ile Lys Arg Leu Met Arg Lys Leu Lys Ser Val Thr
 1 5 10 15

Lys Ala Glu Ala Leu Lys Phe His Arg Gln Leu Ala Gly Cys
 20 25 30

<210> 1288
 <211> 37
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1288

Leu	Phe	Lys	Ile	Tyr	Lys	Arg	Phe	Tyr	Lys	Lys	Met	Arg	Lys	Arg	Leu
1				5					10					15	

Ser	Ala	Arg	Leu	Gly	Leu	Ala	Asn	Ala	Phe	Val	Lys	Arg	Ala	Leu	Thr
			20				25						30		

Leu	Val	Val	Ser	Glu
				35

<210> 1289

<211> 47

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1289

Trp	Trp	Arg	Phe	Tyr	Pro	Lys	Leu	Leu	Lys	Arg	Leu	Arg	Lys	Ala	Thr
1				5					10					15	

His	Lys	Ile	Lys	Gly	Cys	Ala	Leu	Trp	Pro	Ala	Ala	Lys	Asp	Arg	Ala
			20				25						30		

Gln	Met	Ala	Arg	Ala	His	Gly	Ala	Gly	Arg	Arg	Leu	Ala	Leu	Trp
		35					40					45		

<210> 1290

<211> 38

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1290

Leu	Phe	Arg	Leu	Met	Gln	Lys	Leu	Met	Lys	Arg	Ile	Gln	Lys	Ala	Cys
1				5					10					15	

Leu	Leu	Arg	Leu	Lys	Trp	Ala	Met	Leu	Lys	Ala	Val	Arg	Leu	Glu	Phe
			20				25						30		

Trp	Arg	Tyr	Val	Asn	Met
-----	-----	-----	-----	-----	-----

35

<210> 1291
 <211> 38
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1291

Phe Leu Arg Phe Leu Lys Arg Leu Ile Lys Arg Phe Pro Lys Ala Arg
 1 5 10 15

Asp Gly Met Leu Arg Val Gln Lys Thr His Ala Tyr Phe Ala Thr Ala
 20 25 30

Tyr Ala Ala Leu Trp Leu
 35

<210> 1292
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1292

Arg Met Arg Leu Tyr Pro Arg Leu Leu Arg Met Tyr Arg Arg Gln Met
 1 5 10 15

Arg Ala Tyr Leu Arg Ala Asn Trp
 20

<210> 1293
 <211> 38
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1293

Leu Tyr Lys Trp Trp Arg Lys Leu Trp Lys Phe Phe Lys Arg Gly Leu
 1 5 10 15

Arg Lys Ile Ala Gly Leu Thr Thr Pro Lys Lys Ala Arg Ala Ile Leu

20

25

30

Arg Thr Phe Ala Asn Ala
35

<210> 1294
<211> 34
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 1294

Phe Leu Arg Leu Leu Gln Lys Leu Leu Arg Arg Tyr Ser Lys Leu Lys
1 5 10 15

Phe Cys Tyr Leu Arg Glu Ser Gly Cys Ala Ile Ala Ala Arg Thr Trp
20 25 30

Arg Met

<210> 1295
<211> 38
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 1295

Leu Ile Lys Leu Phe Lys Lys Leu Leu Lys Leu Leu Lys His Lys Trp
1 5 10 15

Arg Gln Ala Ala Ala Phe Arg Thr His Ala Lys Ala Val Ala Ala Thr
20 25 30

Glu Trp Ile Trp Phe Arg
35

<210> 1296
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 1296

Arg Trp Lys Leu Phe Arg Lys Phe Leu Arg Lys Ile Lys Pro Ile Arg
1 5 10 15

Asp Pro Ala Ala Asp His Asp Gln Val Ala Ala Gly Thr Lys Leu Gln
20 25 30

Ala Phe Arg Leu Leu Leu Ala Cys
35 40

<210> 1297

<211> 61

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1297

Arg Trp Lys Leu Met Lys Arg Leu Tyr Arg Leu Phe Arg Lys Asn Thr
1 5 10 15

Leu Arg Leu Gly Leu Gly Val Leu Arg Glu Lys Leu Phe Ala Leu Arg
20 25 30

Glu Lys Asn Lys Thr Arg Asn Gly Cys Arg Arg Ser Leu Met His Asn
35 40 45

Leu Ala Trp Gly Gln Arg Tyr Leu Arg Lys Ala Thr Arg
50 55 60

<210> 1298

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1298

Arg Leu Lys Phe Leu Cys Arg Phe Tyr Arg Lys Tyr Pro Arg His Leu
1 5 10 15

Thr Gln Cys Asp Ser Lys Ala Lys Arg Ala Leu Ala Arg Ala Tyr Asp
20 25 30

Leu Pro

<210> 1299
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1299

Lys Trp Arg Leu Leu Arg Arg Leu Leu Lys Phe Phe Asn Arg Lys Leu
 1 5 10 15

Ala Gln Arg Leu Arg Gln Leu Ala Ala Gly Cys Arg Gln Leu Cys Arg
 20 25 30

Arg Met Val Thr
 35

<210> 1300
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1300

Leu Leu Lys Ile Leu Arg Arg Trp Phe Arg Leu Trp Arg His Leu Thr
 1 5 10 15

Ala Leu Ala Arg Lys Asp Thr Leu Ala Lys Pro Pro
 20 25

<210> 1301
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1301

Met Leu Arg Leu Leu Gln Lys Met Phe Arg Arg Leu His Thr Asp Arg
 1 5 10 15

Leu Glu Ala Lys Gln
20

<210> 1302
<211> 59
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 1302

Tyr Met Arg Ile Leu Lys Arg Trp Trp Arg Leu Trp Arg Cys Leu Lys
1 5 10 15

Lys His Arg Leu Ala Ala Cys Cys Met Leu Thr Arg Leu Leu Leu Asn
20 25 30

Leu Lys Met Lys Glu Val Met Gly Glu Cys Gln Lys Leu Lys Lys Thr
35 40 45

Gly Lys Leu Lys Glu Leu Ala Glu Lys Glu Arg
50 55

<210> 1303
<211> 42
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 1303

Arg Met Arg Leu Ile Asn Arg Trp Ile Lys Ile Leu His Lys Arg Arg
1 5 10 15

Arg Asn Leu Leu Ala Gly Lys Leu Ile Trp Val Leu Arg Ile Asp Leu
20 25 30

Val Cys Ala Arg Asn Leu Ala Lys Trp Leu
35 40

<210> 1304
<211> 27
<212> PRT
<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1304

Lys	Leu	Lys	Trp	Leu	Ser	Lys	Leu	Ile	Arg	Lys	Leu	Pro	Lys	Lys	Trp
1				5					10					15	

Ile	Lys	Ala	Lys	Cys	Ala	Ala	Tyr	Cys	Ile	Phe
			20					25		

<210> 1305

<211> 46

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1305

Lys	Tyr	Arg	Ile	Phe	Lys	Lys	Leu	Phe	Lys	Arg	Trp	Arg	Arg	Ala	Arg
1				5					10					15	

Trp	Asp	Met	Arg	Pro	Phe	Thr	Arg	Gln	Ile	Leu	Leu	Leu	Leu	Gly	Pro
			20					25					30		

Phe	Arg	Arg	Gln	Ile	Thr	Ala	Glu	Lys	Leu	Arg	Ala	Ala	Leu
			35				40				45		

<210> 1306

<211> 42

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1306

Lys	Met	Arg	Met	Leu	Thr	Lys	Tyr	Ile	Arg	Lys	Trp	Lys	Arg	Leu	Leu
1				5					10					15	

His	His	Arg	Ile	Lys	His	Lys	Gly	Leu	Arg	Leu	Cys	Glu	Cys	Trp	Ala
			20					25					30		

Leu	Arg	Ala	Leu	Ala	Asp	Ala	Pro	Arg	Arg
			35				40		

<210> 1307

<211> 85
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1307

Arg Leu Lys Phe Leu Arg Lys Met Phe Lys Arg Ile Gln Pro Glu Lys
 1 5 10 15

Ala Leu Gln Lys Thr Trp Ala Lys Lys Ala Ala Val Leu Arg Trp Thr
 20 25 30

Arg Ala Lys Asp Ala Pro Arg Ala Leu Gly Ile Thr Lys Leu Gln Trp
 35 40 45

Ala Tyr Leu Ala Arg Pro Val Lys His Lys Trp Arg Phe Leu Ala Thr
 50 55 60

Cys Arg Cys Ala Leu Arg Ile Asn Lys Leu Val Pro Asp Lys Arg Arg
 65 70 75 80

Asn Ala Leu Val Arg
 85

<210> 1308
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1308

Arg Phe Lys Leu Tyr Thr Lys Leu Tyr Arg Arg Met Thr Lys Ser Ala
 1 5 10 15

Leu Ala Gln Leu Gln Pro Arg
 20

<210> 1309
 <211> 46
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1309

Met Phe Lys Met Leu Lys Arg Phe Leu Arg Lys Tyr Lys Asn Lys Ser
1 5 10 15

Ile Lys Arg Thr Asp Lys Ile Val Leu Ala Ile Leu Ala Thr Ile Ala
20 25 30

Phe Val Lys Leu Leu Ala Lys Ala Lys Leu Ala Ala Gly Trp
35 40 45

<210> 1310

<211> 41

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1310

Lys Leu Lys Met Phe Cys Arg Leu Leu Arg Arg Trp Lys Cys Arg Arg
1 5 10 15

Ala Cys Lys Cys Ile Arg Arg Lys Asn Ser Ala Arg Ser Trp His Lys
20 25 30

Ala Leu Ala Leu Lys Leu Pro Leu Ala
35 40

<210> 1311

<211> 31

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1311

Trp Met Arg Leu Met Cys Lys Leu Leu Arg Met Ile Lys Arg Lys Asn
1 5 10 15

Gln Lys Thr Leu Phe Leu Arg Met Pro Leu Leu Arg Arg Lys Ala
20 25 30

<210> 1312

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1312

Leu Leu Lys Trp Leu Lys Arg Tyr Ile Arg Lys Leu Lys Lys His Met
1 5 10 15

Ala Ala Ser Arg Lys Leu Met
20

<210> 1313

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1313

Lys Leu Arg Leu Met Arg Lys Leu Phe Arg Phe Ile His Lys Lys Arg
1 5 10 15

Leu Asp Trp Lys Arg Asn Ala Leu Leu Leu Tyr
20 25

<210> 1314

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1314

Lys Phe Lys Leu Met Lys Arg Trp Leu Lys Leu Leu Lys Ser Asp Phe
1 5 10 15

Pro Arg Pro Ser Ala Ala Ala Leu Ile Asn Lys
20 25

<210> 1315

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1315

Leu Met Lys Leu Phe Arg Lys Met Leu Lys Leu Phe Arg His Arg Ala
1 5 10 15

His Thr Leu Leu Ile Met Asn Arg Asp
20 25

<210> 1316

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1316

Arg Phe Lys Ile Leu Lys Arg Ile Met Arg Phe Phe Lys Lys Lys Pro
1 5 10 15

Lys Cys Leu Ala His Leu Gln Arg Ala Ala Lys Leu Ala Ser Phe Gln
20 25 30

Trp Ala Arg Asn Leu Lys Ala Cys
35 40

<210> 1317

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1317

Leu Leu Lys Leu Met Lys Arg Phe Phe Lys Lys Leu Arg Asn Ala Ser
1 5 10 15

Val Tyr Met Arg Ala His Met Ile Tyr Met Ala Ala Arg Leu Lys Arg
20 25 30

Ala Tyr Trp Tyr
35

<210> 1318

<211> 73

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1318

Met Trp Arg Leu Leu Cys Arg Tyr Phe Arg Lys Leu Arg Arg Arg Pro
1 5 10 15

Leu Ala Gly Leu Asp Arg Leu Phe Leu Lys Lys Pro Gly Ser Met Ile
20 25 30

Ala His Ala Ser His Ala Ala Lys Gly Asn Gly Lys Lys Arg Leu Arg
35 40 45

Cys Arg Phe Leu Arg His Pro Tyr Arg Cys Lys Lys Arg Leu Leu Ala
50 55 60

Ala Thr Leu Leu Val Ser Ala Tyr His
65 70

<210> 1319

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1319

Leu Met Lys Leu Ile Lys Arg Phe Leu Arg Arg Trp His Arg Val Ala
1 5 10 15

Ile Arg His Arg Ile Glu Arg Trp Ala Ala Ala
20 25

<210> 1320

<211> 42

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1320

Arg Trp Lys Phe Leu Arg Lys Tyr Leu Arg Ile Leu Arg Arg Gly Thr
1 5 10 15

Ala Tyr Ala Lys Leu Arg Ile Ala Asp Ala His Leu Leu Gln Gly Leu
 20 25 30

Arg Phe Arg Leu Tyr Arg Leu His Thr Leu
 35 40

<210> 1321
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1321

Trp Met Lys Leu Leu Arg Arg Leu Met Arg Arg Leu Thr Pro Arg Val
 1 5 10 15

Arg Trp Lys Asp Leu Ala Arg Leu Arg Met Leu Leu Ile Lys Glu Arg
 20 25 30

Met Asn Gln Val Val Ala Leu Trp
 35 40

<210> 1322
 <211> 31
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1322

Arg Leu Arg Trp Leu Lys Arg Phe Trp Arg Arg Ile Cys Arg Leu Ala
 1 5 10 15

Leu Met Leu Ile Arg His Asp Arg Asn Val Gly Ala Lys Gly Leu
 20 25 30

<210> 1323
 <211> 74
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1323

Arg Tyr Lys Trp Phe Lys Arg Tyr Leu Lys Lys Trp Lys Arg Ala Glu
 1 5 10 15

Leu Pro Leu Leu Tyr Ser Ala Arg Ala Lys Arg Asn Tyr Val Ala Pro
 20 25 30

Leu Lys Cys Val Gln Gly Tyr Arg Leu Leu Ile Ala Lys Val Ala Glu
 35 40 45

Arg Gln Trp Arg Ser Lys Leu Asn Ala Gly His Lys Arg Ala Pro Ile
 50 55 60

Pro Asp Leu Ala Glu Leu Arg Leu Ala Ala
 65 70

<210> 1324
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1324

Leu Leu Lys Leu Leu Arg Arg Phe Phe Lys Ile Met Lys Lys Tyr Cys
 1 5 10 15

Val Leu Asn Asp Arg Lys Trp His Ala Arg Val Leu Lys Ile Leu Val
 20 25 30

Pro Leu Trp Ala
 35

<210> 1325
 <211> 44
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1325

Leu Tyr Arg Trp Phe Lys Arg Phe Phe Lys Leu Met Ser Arg Ala Phe
 1 5 10 15

Arg Leu Lys Lys Ala Leu Ala Arg Gln Ser Cys Lys Ser Lys Ala Val

20

25

30

Pro Gln Ala Leu Gly Leu Ala Ala His Phe Leu Glu
 35 40

<210> 1326

<211> 75

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1326

Lys Tyr Lys Trp Phe Lys Lys Leu Trp Arg Trp Leu Arg His Ser Pro
 1 5 10 15

Pro Leu Tyr Cys Arg Ala Lys Cys Lys Phe Lys Glu Arg Leu Val Lys
 20 25 30

Lys Ala Asp Arg Leu Leu Ile Leu Ala Cys Thr Ala Leu Asp Lys Arg
 35 40 45

Leu Arg Ala Val Phe Ala Glu Ile Phe Ile Phe Met Thr Lys His Leu
 50 55 60

Leu Glu Cys Lys Leu Ile Lys Ala Leu Ala Arg
 65 70 75

<210> 1327

<211> 70

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1327

Lys Leu Arg Phe Tyr His Lys Leu Leu Lys Ile Tyr Lys Asn Arg Ile
 1 5 10 15

Ala Arg Ala Ala Gln Ala Gln Arg Lys Tyr Arg Leu Leu Gln Glu Gly
 20 25 30

Ala Asp Met Asp Lys Ile Arg Gly Val Leu Leu Gln Leu Leu Leu Ala
 35 40 45

Pro Ser Asn Trp Lys Leu Arg Lys Arg Leu Val Leu Val Ala Lys Thr
 50 55 60

Lys Lys Asp His Trp Ala
 65 70

<210> 1328
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1328

Leu Phe Lys Ile Phe Lys Arg Leu Leu Lys Arg Leu Arg Arg Ser Cys
 1 5 10 15

Asp Ala Met Gly Phe Met Arg Ile Arg Glu Ala Ala Asn
 20 25

<210> 1329
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1329

Lys Leu Arg Met Leu Gln Arg Tyr Tyr Lys Phe Phe His Arg Asn Arg
 1 5 10 15

Val Pro Ala Arg Pro Tyr Leu Arg Asp Ala Ala His Ala Arg Leu Lys
 20 25 30

Gln Arg

<210> 1330
 <211> 49
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1330

Lys Leu Lys Tyr Leu Arg Arg Trp Phe Lys Lys Leu Lys Pro Pro Leu
 1 5 10 15

Leu Leu Tyr Arg Thr Arg Leu Lys Phe Arg Ala Thr Ala Met Gly Phe
 20 25 30

Cys Ala Lys Lys Gly Ala Pro Asn Ile Thr Arg Ala Trp Glu Ser Lys
 35 40 45

Met

<210> 1331
 <211> 60
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1331

Leu Phe Lys Ile Trp Asn Arg Met Phe Lys Lys Leu His Lys Met Ala
 1 5 10 15

Asp His Ile Glu Arg Lys Lys Lys Lys Arg Thr Arg Arg Asn Thr Lys
 20 25 30

Ala Tyr Tyr Asn Leu Lys Leu Leu Arg Asp Ala Lys Leu Ala Glu Arg
 35 40 45

His Val Leu Lys Asn Ala Glu Pro Leu Tyr Ala Tyr
 50 55 60

<210> 1332
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1332

Lys Phe Arg Ile Leu His Lys Leu Tyr Lys Lys Leu His Thr Phe Val
 1 5 10 15

Ala Lys Leu Ala His

20

<210> 1333
 <211> 55
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1333

Lys Met Arg Leu Leu Lys Lys Phe Phe Lys Leu Leu Lys Thr Arg Ile
 1 5 10 15

Met Arg Leu Arg Asn Met Lys Leu Gln Leu Ala Lys Lys Lys Phe Gln
 20 25 30

Ile Lys Ala Arg Leu Leu Leu Glu Ser Met His Leu Val Ala Asp Asn
 35 40 45

Ala Asn Leu Arg Tyr Val Thr
 50 55

<210> 1334
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1334

Lys Leu Arg Leu Met Lys Arg Leu Leu Lys Lys Met Gln Arg Trp Ala
 1 5 10 15

Leu Ala Asp Pro Arg Ser Leu Gly Ala Ala Arg Thr Lys Trp Asn Ser
 20 25 30

Arg Lys

<210> 1335
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1335

Lys Ile Lys Leu Leu Cys Arg Ile Tyr Arg Lys Trp Lys Lys Arg Ala
1 5 10 15

Leu Val Thr Ala Ile Ala
20

<210> 1336

<211> 41

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1336

Tyr Trp Lys Leu Leu Gln Arg Phe Ile Lys Arg Phe Arg Arg Glu Ile
1 5 10 15

Val Leu Lys Gly Asn Gly Leu Lys Asn Lys Lys Leu Ile Lys Leu Ala
20 25 30

Leu Ser Thr Gln Leu His Leu Arg Lys
35 40

<210> 1337

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1337

Arg Leu Arg Trp Leu Lys Arg Trp Leu Arg Arg Tyr Arg Cys Glu Gly
1 5 10 15

Tyr Arg Ala Thr Ser Lys Gly Ile His Phe Leu Lys Lys Leu Ala Trp
20 25 30

Met Lys Leu Ala Gln Thr Leu Cys
35 40

<210> 1338

<211> 59

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1338

Leu Leu Lys Leu Phe Arg Lys Phe Leu Lys Arg Ile Arg Lys Lys Tyr
1 5 10 15

Gln Cys Thr Ala Ala Ala Leu Ala Leu Asp Lys Trp Ala Ile Ser Gly
20 25 30

Pro Lys Ala Phe His Lys Lys Arg Lys Val Ser Leu Thr Cys Leu Gly
35 40 45

Lys His Met Arg Leu Gly Ala Lys Glu Trp Leu
50 55

<210> 1339

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1339

Ile Leu Lys Phe Leu Thr Arg Ile Trp Arg Leu Met Lys Lys Ala Lys
1 5 10 15

Ala Arg Ala Ala Arg Met Leu Asp Arg Asp Ala Thr Gln Val
20 25 30

<210> 1340

<211> 50

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1340

Leu Leu Arg Phe Trp Arg Arg Leu Met Arg Trp Tyr Gln Arg Ala Lys
1 5 10 15

Met Ala Lys Arg Cys Arg Tyr Gln Gln Leu Val Ala Leu Lys Asn Leu
20 25 30

Phe Gln Leu Arg Ala Lys Arg Asn Ala Met Ile Arg Cys Arg Ala Leu
 35 40 45

Met Ile
 50

<210> 1341
 <211> 74
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1341

Arg Met Arg Leu Phe Asn Lys Leu Met Lys Phe Leu Arg Lys Lys Gly
 1 5 10 15

Met Tyr Arg Leu Ala Pro His Gly Lys Ala Tyr Pro Asn Leu Arg Leu
 20 25 30

Arg Leu Tyr Arg Arg Ile Lys Lys Ala Arg Arg Lys Ala Ser Arg Tyr
 35 40 45

Lys Gln Ile Lys Tyr Asp Thr Leu Leu Tyr Phe Leu Asp Trp Pro Gly
 50 55 60

Asn Gly Ala Arg Tyr Ala Glu Ala Lys Arg
 65 70

<210> 1342
 <211> 70
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1342

Lys Ile Lys Leu Leu Lys Arg Leu Met Arg Arg Tyr Pro Lys Leu Arg
 1 5 10 15

Thr Glu Cys Trp Pro Ala His Arg Lys Lys Ala Ala Glu Ser Lys Cys
 20 25 30

Leu His Leu Leu Tyr Leu Ala Gln Lys Gly Asn Ser Asn Lys Ala Phe

35

40

45

Ala Trp Arg Leu Lys Phe Pro Ala Lys Trp Ala Arg Asp Arg His Gly
 50 55 60

His Ala Leu Ala Arg Gln
 65 70

<210> 1343
 <211> 72
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1343

Ile Leu Lys Met Leu Arg Arg Trp Phe Lys Phe Leu Lys Arg Arg Gln
 1 5 10 15

Phe Ser Leu Phe Cys Arg Leu Ala Cys Tyr Thr Lys Leu His Ile Cys
 20 25 30

Arg Arg Leu Arg Lys Glu Thr Ile Met Glu Lys Ala Phe Arg Ala Cys
 35 40 45

Met Gly Leu Lys Leu Pro Gln Ser Leu His Leu Asp Ala Pro Lys Ala
 50 55 60

Leu Lys Ala Lys Ala Ile Lys Lys
 65 70

<210> 1344
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1344

Lys Met Arg Tyr Phe Cys Lys Leu Leu Lys Leu Phe Asn Arg Arg Val
 1 5 10 15

Ala Arg Gln Ala Arg Val His Ser Leu
 20 25

<210> 1345
 <211> 37
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1345

Phe Leu Arg Leu Ile Lys Arg Trp Phe Lys Arg Phe Arg Asn Val Lys
 1 5 10 15

Cys His Ala Phe Leu Ala Ala Arg Lys Ile His Asn Trp Leu Arg Leu
 20 25 30

Lys Leu Ala Leu Ser
 35

<210> 1346
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1346

Tyr Phe Lys Trp Met Lys Arg Phe Ile Arg Trp Met Lys Lys Asn Leu
 1 5 10 15

Ala Leu Thr Ala Asn Asp Leu Leu Leu Leu Arg Arg
 20 25

<210> 1347
 <211> 31
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1347

Lys Leu Lys Phe Phe Asn Lys Met Ile Lys Arg Leu Asn Lys Pro Trp
 1 5 10 15

Arg Gln Leu Arg Ala Cys Ile Ala Lys Ile Ala Arg Ala Ala Gln
 20 25 30

<210> 1348
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1348

Lys Leu Lys Leu Leu Arg Lys Leu Leu Lys Lys Ile Gln Thr Ser Tyr
 1 5 10 15

Cys Ala Glu Cys Cys
 20

<210> 1349
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1349

Trp Leu Lys Ile Leu Ser Lys Leu Tyr Lys Leu Trp Cys Cys Leu Ala
 1 5 10 15

Leu His Arg Lys
 20

<210> 1350
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1350

Ile Tyr Lys Leu Ile Cys Arg Leu Leu Arg Arg Phe Lys His Asn Ala
 1 5 10 15

Leu Asn Leu Ala
 20

<210> 1351
 <211> 83
 <212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1351

Arg Phe Arg Ile Leu Lys Arg Leu Tyr Lys Trp Ile Arg Cys Leu Ile
1 5 10 15

Ala Leu Trp Ile Leu Arg Ala Val Lys Ala Lys Ala Ala Val Lys
20 25 30

Pro Gln Cys Leu Ala His Ala Ala Asn Gly Trp Arg Ser Lys Met Asp
35 40 45

Ala Cys Gly Gln Ala Trp Leu Gln Arg Leu Lys Lys Met Thr Lys Asn
50 55 60

Lys Cys Ala Trp Leu Arg Met Lys Arg Arg Lys Leu Arg Asn Gln Lys
65 70 75 80

Lys Lys Asp

<210> 1352

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1352

Arg Trp Arg Leu Leu Asn Lys Leu Met Arg Ile Trp Arg Lys Ala Cys
1 5 10 15

Arg Ala Lys Ala Pro His Leu Tyr Trp Ile
20 25

<210> 1353

<211> 50

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1353

Leu Leu Arg Tyr Tyr Arg Lys Trp Met Arg Lys Phe Arg Thr Ala Cys
 1 5 10 15

Ala Ala Leu Ala Asn Lys Ile Tyr Lys Phe Leu Thr Cys Asp Ala Gly
 20 25 30

Lys Ala Lys Ile Ala Gln Lys Met His Met Lys Lys Arg Ala Cys Arg
 35 40 45

Leu Ser
 50

<210> 1354
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1354

Arg Tyr Arg Phe Tyr Lys Lys Phe Phe Lys Arg Leu Thr Arg Trp Glu
 1 5 10 15

Ala Phe Ala Gln Arg Ala Leu Cys Asn Ala Leu Arg
 20 25

<210> 1355
 <211> 31
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1355

Leu Phe Arg Tyr Leu Arg Lys Phe Leu Lys Trp Phe Arg Lys Val Lys
 1 5 10 15

Glu Leu Ala Arg Cys Lys Leu Leu Arg Glu Ala Pro Pro Gly Asp
 20 25 30

<210> 1356
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1356

Lys	Leu	Arg	Leu	Phe	Asn	Lys	Met	Leu	Lys	Leu	Met	Cys	Lys	Ala	Arg
1				5					10					15	

Leu	Asn	Tyr	Met	Lys	Gly	Cys	Ile	Arg	Glu	Ala	Lys
			20					25			

<210> 1357

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1357

Leu	Tyr	Arg	Leu	Leu	Lys	Arg	Ile	Met	Lys	Tyr	Leu	Pro	Arg	Gln	Lys
1				5					10					15	

Glu	Ala	Leu	Arg	Thr	Val	Asn	Trp	Lys	Lys	Leu	Gln
			20					25			

<210> 1358

<211> 60

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1358

Phe	Trp	Arg	Tyr	Tyr	Arg	Arg	Trp	Leu	Arg	Ile	Phe	Lys	Lys	Tyr	Thr
1				5					10					15	

His	Arg	Lys	Thr	Leu	Arg	Arg	Met	Cys	Asn	Ala	Leu	Asn	Lys	Lys	Arg
			20					25					30		

Val	Ala	Lys	Leu	Lys	Leu	Ala	Ala	Ser	Phe	Ser	Thr	Lys	Asp	Asp	Leu
		35					40					45			

Arg	Ala	Leu	Pro	Arg	Arg	Val	Leu	Thr	Gly	Leu	Lys
	50					55					60

<210> 1359

<211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1359

Arg Ile Lys Ile Leu Thr Arg Leu Leu Lys Met Leu Arg Lys Asn Leu
 1 5 10 15

Arg Leu Leu Leu Lys Pro Lys Leu Ser Lys Leu Phe
 20 25

<210> 1360
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1360

Leu Met Lys Trp Leu His Lys Leu Leu Arg Leu Phe Lys Pro Lys Phe
 1 5 10 15

Val Arg Lys Met Arg Asn Ala Ala Val Trp Lys His Leu Leu Met Tyr
 20 25 30

<210> 1361
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1361

Arg Leu Arg Ile Leu Thr Arg Leu Leu Arg Ile Leu Thr Arg Ala Ala
 1 5 10 15

Glu Met Cys Arg Lys Leu Gly Gln His Leu Lys Arg Trp
 20 25

<210> 1362
 <211> 63
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1362

Lys Leu Arg Leu Leu Pro Lys Trp Trp Arg Arg Phe Lys Arg Leu Ser
 1 5 10 15

Arg Leu Ile Ile Leu Pro Pro Trp Leu Trp Met Gly Ala Asp Arg Leu
 20 25 30

Arg Ala Ser Glu Met Leu Leu Leu Val Pro Arg Arg Gln Ile Lys Asn
 35 40 45

Ser Pro Lys Lys Ala Arg Thr Ala Lys Phe Arg Arg Arg Val Asp
 50 55 60

<210> 1363

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1363

Leu Tyr Arg Leu Phe Gln Arg Trp Phe Arg Leu Phe Thr Lys Ala Ile
 1 5 10 15

Lys Val Ala Leu Phe Glu His Arg Ile Arg Leu Trp Lys Ala Lys Lys
 20 25 30

Leu Ser

<210> 1364

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1364

Lys Met Lys Phe Tyr Arg Arg Tyr Phe Arg Leu Leu Cys Gln Arg Arg
 1 5 10 15

Gln Ala Val Phe Arg Ile Leu Leu Lys Leu Lys His Ala Arg Cys His

20

25

30

Lys Gln Leu Cys Leu Lys Trp Phe
 35 40

<210> 1365

<211> 58

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1365

Ile Leu Arg Trp Leu Gln Lys Tyr Trp Arg Lys Phe Arg Arg Lys Ile
 1 5 10 15

Met Tyr Gly Leu Ile Asn Lys Ser Ala Leu Cys Ala Ile Lys Lys Ala
 20 25 30

Arg Ala Phe Asp Asn Val Glu Leu Ala Ala Ala His Lys Lys Lys Ala
 35 40 45

Lys Ala Leu Leu Ser Ser Asn Met Arg Ala
 50 55

<210> 1366

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1366

Arg Met Arg Leu Leu Arg Lys Phe Tyr Lys Leu Phe Lys Lys Leu Val
 1 5 10 15

Glu Arg Ala Asp Ala Lys Ile Ser Tyr Lys Met Phe Arg Leu Val Arg
 20 25 30

Leu Gln Ala Gly Trp Lys Gly Met
 35 40

<210> 1367

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1367

Arg Tyr Lys Leu Leu Gln Arg Phe Met Lys Arg Met Arg Lys Arg Ala
1 5 10 15

Leu Leu Leu Gln Lys Val Ile Ala Arg Ala Leu
20 25

<210> 1368

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1368

Arg Leu Lys Leu Phe Asn Arg Phe Met Arg Arg Tyr Lys Arg Asn Ala
1 5 10 15

Cys Ala Tyr Cys Tyr Arg Lys Leu Asp Asp Leu Ala Glu Gln Arg Ala
20 25 30

Trp Ala

<210> 1369

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1369

Leu Ile Lys Met Leu Lys Arg Phe Phe Lys Phe Trp Lys Arg Pro Met
1 5 10 15

Gly Cys Trp Leu Ala Gln Arg Leu Leu Lys Lys Arg Phe Leu
20 25 30

<210> 1370

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1370

Trp	Leu	Lys	Phe	Leu	Ser	Arg	Leu	Leu	Arg	Arg	Trp	Pro	Cys	Glu	Leu
1				5					10					15	

Ala	Phe	Lys	Val	Pro	Lys	Leu	Gln	Arg	Cys	Ser	Gln	Leu	Lys	Lys	Ala
			20					25					30		

<210> 1371

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1371

Tyr	Phe	Arg	Leu	Phe	Arg	Lys	Tyr	Leu	Arg	Leu	Phe	Gln	Gln	Ala	Glu
1				5					10					15	

Asn	Arg	Pro	Leu	Arg	Arg	Ser	Arg	Lys	Leu	Asp	Ala	Leu	Phe
			20					25					30

<210> 1372

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1372

Leu	Phe	Arg	Phe	Ile	Ser	Arg	Phe	Phe	Arg	Arg	Ile	Arg	Lys	Pro	Arg
1				5					10					15	

Ala	Ile	Leu	Trp	Ala	Arg	Lys	Ala	Ala	Ala	Ala	Gln	Asn	Leu	Thr	Ala
			20				25						30		

Arg Lys

<210> 1373

<211> 95

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1373

Arg Trp Lys Tyr Phe Lys Lys Leu Trp Arg Arg Leu Arg Gln Leu Ser
1 5 10 15

Ala Lys Asp Cys Lys Ala Asn Arg Ser Ala Asn Arg Lys Leu Pro Tyr
20 25 30

Trp Arg Val Ala Lys Lys Met Leu Ala Arg Leu Arg Arg Ala Phe Gly
35 40 45

Leu His Val Arg Arg Pro Ala Leu Thr Tyr Ala Pro Phe Thr Ala Pro
50 55 60

Arg Ile Trp Lys Leu Val Ile Glu Arg Leu Leu Lys Glu Ala Pro Phe
65 70 75 80

Thr Phe Ala Thr Lys Ala Leu Lys Gln Lys Trp Lys Arg Glu Trp
85 90 95

<210> 1374

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1374

Ile Phe Lys Phe Leu Lys Arg Phe Met Arg Lys Phe Lys Lys Val Ala
1 5 10 15

Ala Ala Pro Ala
20

<210> 1375

<211> 59

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1375

Lys Phe Lys Trp Leu Gln Arg Trp Leu Lys Leu Phe Lys Lys Arg His
 1 5 10 15

Lys Leu Tyr Leu Cys Asp Leu Leu Ala Leu Glu Lys Arg His His Asp
 20 25 30

Val Glu Arg Lys Lys Tyr Leu Pro Arg Gly Arg Ala Ile Lys Ala Ala
 35 40 45

His Tyr Arg Ile Ile Ala Leu Thr Lys Asn Met
 50 55

<210> 1376
 <211> 60
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1376

Met Leu Lys Trp Phe Arg Arg Leu Phe Lys Arg Leu Arg Gln Glu Ser
 1 5 10 15

Ser Arg Ser Val Ser Ala His Ala Ile Tyr Trp Lys Arg Arg Arg Lys
 20 25 30

Ala Leu Lys Leu Gln Asp Tyr Ala Pro Ala Asn Leu Ala Arg Leu Ser
 35 40 45

Lys Trp Ser Phe Lys Lys Glu Arg Leu Ala Gln Gln
 50 55 60

<210> 1377
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1377

Lys Leu Arg Leu Tyr Lys Lys Ile Leu Lys Met Leu Asn Arg His Leu
 1 5 10 15

Gln Lys Leu Ile Val Cys His Leu Thr Lys Ala Leu Val Leu

20

25

30

<210> 1378

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1378

Lys Met Lys Leu Phe Thr Arg Ile Tyr Lys Leu Leu Cys Gln Cys Lys
 1 5 10 15

Asp Glu Leu Lys Arg Lys Lys Ala Gly Trp Arg Ala Thr Leu
 20 25 30

<210> 1379

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1379

Leu Leu Arg Phe Leu Arg Lys Leu Leu Lys Trp Ile Lys Lys Ala Tyr
 1 5 10 15

Ala Tyr Arg Gln Glu Gln Thr Leu Glu Arg Pro Ile Leu Phe Arg Ala
 20 25 30

Ile Leu Arg Leu Arg Tyr Lys Val
 35 40

<210> 1380

<211> 92

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1380

Arg Phe Arg Phe Phe Gln Arg Trp Leu Arg Arg Leu Arg Ser Arg Leu
 1 5 10 15

Arg Ala Gln Lys Lys Lys Leu Trp Ser Asp Ile Trp Phe His Pro Glu

[illegible]

<210>	1381
<211>	63
<212>	PRT
<213>	Artificial Sequence

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<220>
<223> Computer-generated peptide variant
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<400> 1381

Leu Met Arg Tyr Tyr Gln Lys Phe Leu Arg Lys Tyr Gln Cys Lys Arg
1 5 10 15

Arg Lys Ala Arg Val Ser Leu Ala Ala Cys Ala Val Leu Tyr Gly Ala
20 25 30

His Tyr Ala Val Lys Leu Arg Phe Cys Ala Arg Lys Ala Lys Val Lys
35 40 45

Lys Asn Gln Ala Ala Ile Arg Ser Ala Leu Lys Ala Ala Arg Phe
50 55 60

<210>	1382
<211>	59
<212>	PRT
<213>	Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 1382

Leu Trp Lys Trp Leu Lys Arg Leu Leu Lys Phe Phe His Arg Val Ala
1 5 10 15

Pro Lys Glu Gly Ala Arg Gln Lys Arg Met Lys His Leu Arg Ile Glu
 20 25 30

Leu Ala Ala Met Pro Arg Lys Trp Gln Ser Ala Ala Asp Leu Ile Ala
 35 40 45

Leu Ala Lys Ile Leu Thr Ala Cys Ala Leu Arg
 50 55

<210> 1383
 <211> 64
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1383

Met Trp Arg Leu Phe Arg Lys Met Leu Lys Arg Leu Lys Arg Ile Lys
 1 5 10 15

Lys Ala Ala Arg Cys Ile Leu Asp Arg Tyr Ile Ala Tyr Leu Val Lys
 20 25 30

Lys Pro Cys Ala Gln Gln Glu Lys Ala Glu Leu Glu Lys Leu Glu Asn
 35 40 45

Gly Pro Leu Arg Met Ala Lys Leu His Trp Val Lys Tyr Ala Lys Lys
 50 55 60

<210> 1384
 <211> 45
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1384

Leu Trp Arg Leu Leu Arg Arg Phe Leu Arg Tyr Trp Gln Lys Val Ile
 1 5 10 15

Lys Val Arg Val Ala Phe Ile Lys Lys Leu Ala Lys Ala Cys Leu Arg
 20 25 30

Thr Asp Lys Ala Ala Lys Thr Arg Pro Leu Phe Ala His

35

40

45

<210> 1385

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1385

Arg	Leu	Arg	Leu	Ile	Thr	Arg	Leu	Tyr	Arg	Lys	Trp	Cys	Arg	Ser	Ala
1				5				10						15	

Leu	Asn	Asn	Lys	Met	Lys	Gly	Leu	Thr	Tyr	Ala	Gly	Lys	Lys
			20				25						30

<210> 1386

<211> 96

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1386

Lys	Phe	Lys	Tyr	Met	Lys	Lys	Leu	Tyr	Lys	Lys	Tyr	Thr	Gln	Lys	Gln
1				5				10						15	

Arg	Leu	Lys	Pro	Pro	Arg	Leu	Leu	Gly	Arg	Trp	Lys	Ala	Cys	Asn	Lys
			20					25					30		

Arg	Ile	Glu	Arg	Glu	Trp	Leu	Val	Met	Leu	Lys	Ala	Ala	Ala	Arg	Thr
		35				40						45			

Ala	Lys	Ala	Tyr	Lys	Leu	Arg	His	Val	Leu	Glu	Val	Ala	Arg	Ser	Leu
	50					55					60				

Val	Lys	Lys	His	Glu	Leu	Thr	Gly	Phe	Ala	Lys	Arg	Glu	Leu	Phe	Leu
65					70					75				80	

Lys	Leu	Ala	Asp	Ile	Ser	Lys	His	Leu	Leu	Gln	Tyr	Arg	Arg	Cys	Thr
				85					90					95	

<210> 1387

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1387

Leu	Leu	Lys	Tyr	Leu	Thr	Lys	Phe	Leu	Lys	Arg	Leu	His	Lys	Ala	Lys
1				5				10						15	

Ala	Val	Arg	Arg
			20

<210> 1388

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1388

Arg	Leu	Arg	Trp	Leu	Arg	Arg	Leu	Leu	Lys	Ile	Phe	Arg	Thr	Ala	Ala
1				5				10						15	

Ala	Ser	Met	Phe	Cys	Ala	Leu	Thr	Cys	His	Glu	Arg	Asp	Arg
			20					25					30

<210> 1389

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1389

Lys	Trp	Lys	Tyr	Tyr	Lys	Lys	Trp	Leu	Arg	Lys	Leu	Asn	Asn	Ala	Leu
1				5				10						15	

Ala	Lys	Val	Ala
			20

<210> 1390

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1390

Ile	Ile	Arg	Leu	Ile	Pro	Lys	Trp	Tyr	Arg	Leu	Phe	Thr	Lys	Leu	Tyr
1				5					10					15	

Leu	Arg	Gly	Ala	Arg	Lys	Ala	Lys	Asp	Ile	Ala
			20					25		

<210> 1391

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1391

Leu	Leu	Arg	Trp	Phe	Lys	Lys	Ile	Met	Lys	Leu	Leu	Lys	Arg	Lys	Ala
1				5					10					15	

Gly	Leu	Lys	Ser	Thr	Gln	Asn	Leu	Gln	Arg	Ala
			20					25		

<210> 1392

<211> 60

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1392

Ile	Leu	Lys	Phe	Leu	Gln	Lys	Ile	Trp	Arg	Arg	Leu	Ser	Ser	Ile	Arg
1				5					10					15	

Leu	Met	Arg	Lys	Ile	Leu	Lys	Ala	Ile	Cys	Arg	Leu	Ala	Ala	Arg	Lys
			20					25					30		

Trp	Ser	Pro	Ala	Lys	Lys	Ile	Arg	Glu	Gly	Trp	Gly	Gln	Lys	Ala	Lys
			35				40					45			

Pro	Lys	Val	Ser	Leu	His	Arg	Arg	Ser	Leu	Ala	Arg
	50					55				60	

<210> 1393

<211> 75

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1393

Lys Tyr Lys Phe Leu Ser Lys Met Met Arg Tyr Leu Lys Ser Ala Arg
1 5 10 15

Ala Ala Ala Gly Leu Val Ala Ile Ile Thr Lys Thr Arg Ala Ala Leu
20 25 30

Arg Ser Arg Glu Ala Leu Leu Leu Lys Arg Arg Gln Ala Thr Lys Leu
35 40 45

Trp Ala Pro Lys Leu Tyr Leu Lys Arg Phe Leu Lys Pro Leu Arg Arg
50 55 60

Phe Ile Leu Thr Val Tyr Tyr Glu Ala Phe Lys
65 70 75

<210> 1394

<211> 62

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1394

Lys Phe Lys Leu Trp Arg Arg Leu Phe Arg Arg Ile His Lys Met Gly
1 5 10 15

Leu Trp Val Leu Lys Met Ile Ala Lys Leu Tyr Gln Leu Leu Trp Gln
20 25 30

Arg Ala Glu Met Lys Ala Ala Lys Leu Lys Lys Arg Pro His Thr His
35 40 45

Leu Trp Tyr Thr Ala Met Ser Cys Lys Arg Ala Ala Leu Ala
50 55 60

<210> 1395

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1395

Arg	Leu	Lys	Phe	Trp	Pro	Arg	Tyr	Met	Lys	Met	Leu	Lys	Lys	Phe	Met
1				5					10					15	

Lys	Ala	Arg	Met	Asn	Lys	His	Arg	Ala	Ala	Lys	Leu	Asp	Leu	Thr	Leu
			20					25					30		

Ser

<210> 1396

<211> 73

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1396

Lys	Phe	Lys	Trp	Leu	Lys	Arg	Trp	Tyr	Lys	Leu	Leu	Lys	Lys	His	Ile
1				5					10					15	

Ile	Trp	Glu	Leu	Leu	Leu	Leu	Asp	Thr	Leu	Ala	Lys	Arg	Ala	Ala	Ala
			20					25					30		

Tyr	Ala	Ala	Leu	Ile	Ala	Ala	Arg	Lys	Arg	Tyr	Trp	Gln	Phe	Tyr	Thr
		35					40					45			

Ala	Ala	Glu	Lys	Trp	Lys	Arg	Asn	Asp	Ala	Arg	Ala	His	Ser	Thr	Lys
	50					55					60				

Lys	Arg	Leu	Ile	Arg	Thr	Arg	Val	Tyr
65					70			

<210> 1397

<211> 37

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1397

Met Trp Lys Met Leu Arg Lys Leu Tyr Arg Arg Ile Arg Ser Asp Lys

1 5 10 15

Ala Lys Leu Ala Ile Ala Leu Arg Gln Ser Val Leu Asn Asp Lys Asp
 20 25 30

Gln Arg Ala Thr Arg
 35

<210> 1398
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1398

Arg Ile Arg Leu Leu Arg Arg Leu Phe Arg Arg Met Ser Gln Cys Phe
 1 5 10 15

Leu Lys Leu Leu
 20

<210> 1399
 <211> 37
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1399

Met Phe Arg Leu Ile Lys Lys Ile Met Arg Phe Phe Lys Arg Ala Asp
 1 5 10 15

Ala Phe Ala Cys Asn Arg Arg Ala Arg Ser Ala Leu Ala Phe Lys Phe
 20 25 30

Ser Arg Ala Trp Leu
 35

<210> 1400
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1400

Phe Met Arg Leu Leu Arg Lys Leu Ile Arg Lys Leu Gln Arg Ala Gln
1 5 10 15

Pro Arg Trp Cys Trp Ser Arg Asn Cys Ala Ala Ala Leu Lys Leu Ala
20 25 30

<210> 1401

<211> 69

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1401

Tyr Met Lys Ile Phe Arg Arg Leu Leu Lys Ile Met Arg Ser Leu Cys
1 5 10 15

Leu Leu Arg Pro Lys Val Leu Thr Lys Leu Trp Phe Ala Pro Gln Leu
20 25 30

Lys Ala Arg Arg Cys Lys Gly Gln Arg Cys Arg Glu Leu Lys Ala Val
35 40 45

Arg Gln Leu Leu Trp Asn Lys Arg Lys Ala Tyr Leu Ile Asp Asn Leu
50 55 60

Lys Lys Asp Ala Met
65

<210> 1402

<211> 64

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1402

Leu Ile Arg Leu Leu Gln Arg Met Leu Lys Lys Met Gln Arg Tyr Lys
1 5 10 15

Cys Arg Ser Leu Lys Leu Leu Leu Met Leu Leu Arg Lys Leu Leu Gly
20 25 30

Arg Arg Thr Asp Asn Leu Ser Arg Val Val Arg Ala Ala Val Tyr His
 35 40 45

Gly Val Arg Arg Asp Ala Trp Ala Tyr Gly Thr Tyr Lys Leu Arg Thr
 50 55 60

<210> 1403
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1403

Tyr Met Arg Leu Leu Arg Lys Trp Phe Lys Lys Ile Lys Arg Leu Ala
 1 5 10 15

Ser Thr Arg Lys Val Lys Leu Lys Gly Ala Lys Gln Val Ala Lys Phe
 20 25 30

Pro Tyr Leu Asp Leu Trp Gln Tyr
 35 40

<210> 1404
 <211> 44
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1404

Lys Phe Lys Phe Leu Arg Arg Phe Met Lys Arg Trp Arg Lys Leu Arg
 1 5 10 15

Lys His Ser Ser Ala Leu Lys Tyr Arg Val Val Arg Arg Ile Pro Leu
 20 25 30

Ala Thr Ala Leu Ile Ala Val Arg Glu Ala Pro Ala
 35 40

<210> 1405
 <211> 38
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1405

Leu	Met	Lys	Phe	Phe	Arg	Lys	Trp	Leu	Lys	Arg	Leu	Arg	Lys	Arg	Pro
1				5					10					15	

Arg	Cys	His	Gln	Arg	Leu	Thr	Leu	Lys	Leu	Cys	Gln	Ala	Tyr	Arg	Leu
			20					25						30	

Asn	Leu	Val	Val	Thr	Ser
					35

<210> 1406

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1406

Arg	Phe	Lys	Tyr	Leu	Cys	Arg	Tyr	Trp	Arg	Lys	Leu	Lys	Cys	Arg	Arg
1				5					10					15	

Glu	Arg	Ile	Ala	Gln	Cys	Leu	Pro	Arg	Leu	His	Gln	Ala	Ala	Ala	Trp
			20					25					30		

<210> 1407

<211> 70

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1407

Lys	Leu	Lys	Tyr	Phe	Arg	Arg	Tyr	Trp	Lys	Arg	Ile	Pro	Arg	Leu	Arg
1				5					10					15	

Ala	Ala	Ala	Leu	Arg	Gln	Ala	Lys	Asp	Thr	Trp	Val	Gly	Arg	Leu	Leu
			20					25					30		

Ile	Ala	Thr	Ile	Gly	Leu	Lys	Arg	Met	Ala	Thr	Ser	Ala	Ala	Leu	Asp
			35				40					45			

His	Arg	Val	Leu	Lys	Ala	Lys	Arg	Arg	Lys	Asn	His	Lys	Gly	Lys	Cys
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

Gly Arg Leu Arg Arg Lys Leu Cys Ala Met Tyr Leu Arg Arg Tyr Val
 20 25 30

Thr Ala Arg Asn Ala Trp Met Val Ala Asp Lys Lys Thr Ala Tyr Thr
 35 40 45

Arg Trp Lys Glu Ala Ala Tyr Thr Ser Ala Ala Ala Arg
 50 55 60

<210> 1410
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1410

Lys Leu Arg Leu Met Gln Arg Trp Leu Lys Leu Leu Lys Lys Ser Leu
 1 5 10 15

Tyr Trp Lys Trp Asp Ile Gln Ala Ala Lys Leu Asp Arg Lys Ile Leu
 20 25 30

Val

<210> 1411
 <211> 60
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1411

Leu Phe Arg Leu Tyr His Lys Trp Leu Arg Tyr Tyr Lys Thr Ile Leu
 1 5 10 15

Tyr Leu Leu Gly Trp Met His Lys Arg Arg His Lys Arg Asn Leu Ala
 20 25 30

Leu Leu Leu Lys His Arg Lys Lys Met Ser Ala Arg Lys Ala Val Ala
 35 40 45

Ala Trp Phe Ser Lys Pro Ala Trp Ser Gln Ile Ala

50

55

60

<210> 1412
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1412

Leu Phe Arg Ile Phe Asn Lys Leu Ile Lys Arg Tyr Arg Arg Leu Gly
 1 5 10 15

Ala Ala Lys Lys Ala Phe Trp
 20

<210> 1413
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1413

Leu Tyr Lys Ile Leu Arg Arg Leu Phe Lys Met Leu Arg His Gln Ala
 1 5 10 15

Asp Tyr Ala Val Lys Val Arg Ala Arg Cys Lys Pro Met Pro Leu Arg
 20 25 30

<210> 1414
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1414

Leu Leu Arg Leu Phe Lys Arg Phe Phe Arg Trp Leu Pro Arg Glu Ala
 1 5 10 15

Leu Ala Val Gly Leu Thr Arg His Lys Lys Lys Arg Leu
 20 25

<210> 1415

<211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1415

Ile Met Arg Tyr Phe Arg Arg Leu Leu Lys Leu Tyr Pro Cys Arg Lys
 1 5 10 15

Leu Ala Arg His His
 20

<210> 1416
 <211> 72
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1416

Lys Tyr Arg Leu Phe Arg Lys Ile Tyr Arg Arg Tyr Arg Arg Gly Ala
 1 5 10 15

Thr Lys Val Asn Arg Gly Met Phe Leu Asp Leu Lys Lys Gln Arg Trp
 20 25 30

Ala Leu Leu Gln Ala Arg Ile Leu Ala Leu Phe Arg Arg Lys Lys Phe
 35 40 45

Pro Arg His Gly His Leu Lys Leu Thr Thr Ala Leu Leu Asn Asn Ala
 50 55 60

Leu Leu Cys Lys Ser His Ala Leu
 65 70

<210> 1417
 <211> 26
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1417

Arg Tyr Arg Phe Leu His Lys Trp Phe Lys Leu Phe Lys Pro Leu Ala

1 5 10 15

His Tyr Lys Tyr Leu Lys Val Arg Ala Ala
20 25

<210> 1418
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 1418

Met Phe Lys Met Leu His Arg Leu Leu Arg Met Leu Cys Arg Met Tyr
1 5 10 15

Arg Lys Lys Ala
20

<210> 1419
<211> 58
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 1419

Ile Leu Arg Leu Leu Lys Lys Ile Trp Lys Lys Phe Pro Lys Ala Asp
1 5 10 15

Gly Val Ala Arg Gly Asp Arg Leu Gly Trp Val Lys Met Pro Ile Ala
20 25 30

Leu Ala Lys Leu Asp Lys Asn Glu His Arg Leu Ala Arg Lys His Arg
35 40 45

Lys Arg Leu Leu Arg Ile Lys Ser Phe Tyr
50 55

<210> 1420
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 1420

Arg Leu Lys Tyr Leu Ser Lys Trp Trp Lys Leu Leu Lys Lys Phe Ala
1 5 10 15

Lys Ala Arg Thr Leu Arg Cys Ala Ala Asp Pro Glu Asp Ile Cys Lys
20 25 30

Leu His Ala
35

<210> 1421

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1421

Leu Trp Arg Leu Leu Lys Arg Phe Leu Arg Lys Leu Arg Lys Lys Phe
1 5 10 15

Tyr Ser Leu Met Met Ala
20

<210> 1422

<211> 55

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1422

Tyr Trp Arg Tyr Phe Pro Arg Leu Leu Arg Arg Leu Lys Lys Glu Ala
1 5 10 15

Ala Leu Lys Leu Thr Arg Ala Arg Lys Leu Cys Val Leu Thr Leu Lys
20 25 30

Leu Ala Phe Leu Glu Arg Phe Lys Tyr Leu Ala Lys Ala Leu Gln Lys
35 40 45

Lys Ala Leu Glu Gly Arg Gln
50 55

<210> 1423
 <211> 41
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1423

Leu Phe Lys Leu Tyr Gln Arg Met Met Lys Lys Tyr Lys Arg Leu Leu
 1 5 10 15

Lys Glu Arg Thr Trp Ala Leu Cys Arg Lys Thr Gly Met Arg Lys Glu
 20 25 30

Gly Met Arg Leu Leu Ala Trp Gly Leu
 35 40

<210> 1424
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1424

Phe Tyr Arg Leu Leu Thr Arg Leu Phe Lys Lys Leu His Arg Arg Leu
 1 5 10 15

Tyr Arg Lys Phe Ser Ala Gln Arg Trp Gly Val Ala Thr Leu
 20 25 30

<210> 1425
 <211> 69
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1425

Arg Trp Lys Leu Leu Lys Lys Leu Leu Arg Lys Phe Lys Lys Cys Gly
 1 5 10 15

Ile Thr His Met Thr Arg Asn His Leu Leu His Lys Ala Arg Asn Ala
 20 25 30

Asn Gly Arg Arg Val Leu Ile Trp Arg Val Lys Leu Ile Ile Phe Val
 35 40 45

Ala Ala Leu Arg Ile Ala Gly Lys Lys Leu Lys Lys Ser Phe Met Asn
 50 55 60

Arg Val Lys Leu Ala
 65

<210> 1426
 <211> 38
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1426

Arg Leu Lys Met Leu Pro Arg Leu Leu Lys Ile Phe Ser Lys Lys Asp
 1 5 10 15

Val Leu Gln Leu Asn Ala Tyr Ala Gly Leu His His Lys Gln Trp Lys
 20 25 30

Arg Lys Thr Arg Ala Leu
 35

<210> 1427
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1427

Trp Leu Lys Leu Phe Gln Lys Leu Leu Arg Leu Tyr Lys Lys Phe Leu
 1 5 10 15

Arg Leu Ala Tyr Arg
 20

<210> 1428
 <211> 67
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1428

Arg	Leu	Lys	Met	Leu	Asn	Lys	Leu	Met	Arg	Arg	Phe	Gln	Arg	Ala	Ala
1				5					10					15	

Ile	Gly	Arg	Val	Pro	Glu	Leu	Lys	Thr	Lys	Lys	Gly	Ile	Lys	Leu	Ser
			20					25					30		

Phe	Trp	Lys	Arg	Arg	Thr	Pro	Leu	Val	Arg	Ala	Arg	Leu	Phe	Cys	Asn
		35					40					45			

Ala	Ile	Pro	Leu	Ala	Ala	Ala	Leu	Gly	Gln	Lys	Gln	Leu	Ala	Arg	Ala
	50					55					60				

Arg	Ala	Lys
65		

<210> 1429

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1429

Lys	Phe	Lys	Ile	Leu	Lys	Lys	Trp	Met	Lys	Lys	Ile	Asn	Pro	Leu	Trp
1				5					10					15	

Lys	Met	Ala	Ala	Cys	Ala	Asn	Arg	Ala	Thr	Cys	Leu	Arg	Ile	Ala	Leu
			20					25					30		

<210> 1430

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1430

Lys	Leu	Lys	Trp	Leu	Lys	Arg	Phe	Leu	Arg	Lys	Tyr	Arg	Arg	Leu	Gln
1				5					10					15	

Leu	Lys	Cys	Ala	Thr	Leu	Leu	His	Tyr	Lys	Trp	Trp	Asp	Met	Lys	Trp
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

20

25

30

His

<210> 1431

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1431

Met	Ile	Lys	Met	Leu	Arg	Arg	Leu	Ile	Lys	Lys	Ile	Lys	Lys	Leu	Phe
1				5					10					15	

Ala	Leu	Ala	Arg	Asn	Ala	Asp
				20		

<210> 1432

<211> 48

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1432

Ile	Leu	Arg	Met	Leu	Arg	Arg	Leu	Tyr	Arg	Lys	Tyr	Ser	Lys	Ala	Gly
1				5					10					15	

Ala	Gly	Leu	Glu	Arg	Lys	Tyr	Trp	Ser	Asn	Leu	Ala	Cys	Ala	His	Lys
			20					25					30		

Leu	Leu	Asn	Leu	Arg	Trp	Arg	Ala	Asp	Trp	Met	Ala	Phe	Pro	Arg	Ala
		35					40					45			

<210> 1433

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1433

Leu	Tyr	Arg	Leu	Leu	Arg	Arg	Leu	Leu	Arg	Lys	Tyr	Arg	Thr	Pro	Asp
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

<210>	1434
<211>	71
<212>	PRT
<213>	Artificial Sequence
<220>	
<223>	Computer-generated peptide variant
<400>	1434

Thr Leu Ala Tyr Ala Leu Leu Lys Tyr Ala Asp Lys Arg Arg Gln Ala
20 25 30

Ala Leu Tyr Ala Leu Ala Ser Ser Lys Leu Met Ala Gly Cys Leu Glu
50 55 60

<210>	1435
<211>	21
<212>	PRT
<213>	Artificial Sequence
<220>	
<223>	Computer-generated peptide variant
<400>	1435

Thr Tyr Lys Ala Met
20

<210> 1436
 <211> 42
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1436

Lys Leu Arg Met Trp Gln Lys Met Leu Arg Arg Phe Arg Arg Leu Arg
 1 5 10 15

Ala Gln Phe Ser Phe Arg Ala Arg Asp Arg Ala Lys Ala Ala Leu Gln
 20 25 30

Cys Met Gln Gln Lys Leu Trp Ala Lys Arg
 35 40

<210> 1437
 <211> 42
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1437

Arg Leu Lys Leu Met Thr Lys Ile Trp Lys Arg Tyr Lys Lys Cys Leu
 1 5 10 15

Arg Lys Leu Arg Lys Thr Asn Ala Trp Ala Ala Ala Arg Lys Leu Arg
 20 25 30

Leu Gln Leu Lys Ala Glu Trp Phe Ala Gly
 35 40

<210> 1438
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1438

Lys Leu Lys Ile Leu Cys Lys Leu Leu Arg Arg Tyr Lys Thr Trp Ala
 1 5 10 15

Ser Gly Ala Leu Ala Tyr
20

<210> 1439
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 1439

Arg Tyr Arg Leu Ile Lys Arg Leu Met Arg Leu Met Thr Arg Arg Leu
1 5 10 15

Arg His Leu Ala Gly Ala Pro Ala Ala Cys
20 25

<210> 1440
<211> 36
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 1440

Arg Leu Lys Phe Met Lys Arg Phe Trp Arg Phe Leu Thr Lys Thr Lys
1 5 10 15

Glu Ile His Ile Leu Arg Ala Arg Thr Arg Gly Leu Leu Arg Ala Ala
20 25 30

Met Leu Ala Arg
35

<210> 1441
<211> 33
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 1441

Leu Leu Arg Tyr Leu Arg Arg Met Leu Lys Lys Leu Pro Pro Arg Arg
1 5 10 15

Ala Glu Leu Gln Gly Lys His Ala Arg His Cys Thr Asp Lys Cys Pro
 20 25 30

Arg

<210> 1442
 <211> 39
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1442

Leu Ile Lys Tyr Tyr Cys Arg Tyr Leu Arg Arg Leu Lys Ser Lys Ala
 1 5 10 15

Leu Arg Thr Ala Trp Phe Thr Lys Cys Lys Ser Arg Asn Lys Leu Arg
 20 25 30

Lys Leu Ala Ala Ala Leu Ile
 35

<210> 1443
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1443

Leu Phe Lys Leu Leu Lys Arg Ile Trp Lys Leu Trp Lys Asn Lys Thr
 1 5 10 15

Leu Leu Lys Leu Lys Arg Met Leu Leu Glu Asp Leu Arg Trp Ser Lys
 20 25 30

<210> 1444
 <211> 39
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1444

Ile Leu Arg Met Leu Lys Lys Leu Trp Arg Phe Leu Gln Lys Arg Asn
 1 5 10 15

Asn Met Ser Cys Arg Lys Asn Ala Pro Ala Lys Ile Phe Leu Leu Ala
 20 25 30

Pro Phe Ala Gly Ala Ala Arg
 35

<210> 1445
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1445

Lys Leu Lys Leu Phe Lys Arg Tyr Leu Arg Arg Met Asn Gln Asn Ala
 1 5 10 15

Ala Thr Gln Ala
 20

<210> 1446
 <211> 42
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1446

Phe Phe Lys Leu Trp Arg Lys Trp Phe Arg Lys Trp Lys Asn Arg Leu
 1 5 10 15

Arg Leu Leu Val Leu Lys Ala Lys Met Arg Met Tyr Val Ala Met Cys
 20 25 30

Leu Lys Pro Ile Tyr Ala Ala Leu Arg Ser
 35 40

<210> 1447
 <211> 83
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1447

Arg	Leu	Arg	Leu	Tyr	Arg	Lys	Leu	Ile	Arg	Lys	Leu	His	Arg	Ser	Ala
1				5					10					15	

Leu	Leu	Met	Trp	Asp	Arg	Leu	Gly	Asn	Ser	Pro	His	Ala	Ala	Ala	Ile
			20					25					30		

Leu	Gln	Ala	Ala	Arg	Pro	Asp	Phe	Leu	Cys	Ala	Tyr	Lys	Asn	Leu	Pro
		35					40					45			

Ser	Gly	Lys	Pro	Arg	Leu	Ala	Arg	Glu	Gly	Asp	Thr	Pro	Arg	Arg	Leu
	50					55					60				

Ala	Ala	Met	Glu	Lys	His	Val	Arg	Arg	Ala	Glu	Ala	Lys	Leu	Lys	Val
65					70					75					80

Ala Leu Val

<210> 1448

<211> 82

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1448

Arg	Met	Arg	Ile	Phe	Lys	Lys	Phe	Leu	Lys	Lys	Phe	Lys	Lys	Ile	Ala
1				5					10					15	

Ala	Leu	Lys	Lys	Val	Arg	Trp	Ala	Leu	Leu	Leu	Lys	Ser	Glu	Trp	Lys
			20					25					30		

Arg	Ile	Ala	Lys	Phe	Asn	Pro	Leu	Asp	Met	Ala	Tyr	His	Gln	Met	Trp
		35					40					45			

Cys	Leu	Pro	Leu	Gly	Arg	Ser	Ala	Lys	Arg	Arg	Ala	Phe	Glu	Gly	Ala
	50					55					60				

Ala	Lys	Leu	Ala	Ala	Leu	Ala	Leu	Cys	Glu	Asp	Arg	Ala	Val	Asp	Arg
65					70					75					80

Arg Ala

<210> 1449
 <211> 27
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1449

Leu Ile Lys Leu Met Arg Arg Trp Leu Lys Lys Tyr Gln Thr Pro Leu
 1 5 10 15

Ala Lys Leu Gln Asp Ser Ala Leu Gln Lys Trp
 20 25

<210> 1450
 <211> 56
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1450

Arg Ile Lys Leu Phe Lys Lys Leu Phe Arg Leu Trp His Pro Arg Gln
 1 5 10 15

Met Asn Ala Pro Lys Ile Ile Trp Val Lys Lys Ala Ala Asp Gly Cys
 20 25 30

Leu Ala Ile Ala Lys Lys Lys Pro Met Lys His Gln Lys Lys Leu Leu
 35 40 45

Ala Leu Lys Leu Pro Phe Lys Leu
 50 55

<210> 1451
 <211> 45
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1451

Arg Ile Lys Ile Phe Arg Lys Leu Trp Lys Leu Phe Arg His Gln Cys
 1 5 10 15

Leu Leu Tyr Ala Lys Gly Arg Glu Arg His Thr Tyr Phe Arg Ala Gln
 20 25 30

Val Asn Arg Ala Lys Leu Ala Ala His Lys Lys Leu Pro
 35 40 45

<210> 1452
 <211> 78
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1452

Arg Tyr Arg Phe Leu Lys Lys Ile Phe Lys Arg Tyr Thr Ser Cys Ala
 1 5 10 15

Lys Val Lys Pro Lys Ala Ala Pro His Ala Lys Asn Arg Arg Arg Leu
 20 25 30

Arg Lys Arg Leu Leu Arg Arg Ile Pro Ala Lys Lys Lys Leu Ala Leu
 35 40 45

His Ala Ala Met Ile Ser Asp Ala Ser Lys Gln Ala Val Leu Ala Ala
 50 55 60

Asp Lys Arg Ala Ala Met Met Ala Asn His Arg Gln Thr Lys
 65 70 75

<210> 1453
 <211> 45
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1453

Arg Trp Lys Trp Phe Thr Arg Phe Tyr Lys Arg Phe Arg Arg Arg Ala
 1 5 10 15

Arg Ser Glu Leu Arg Ile Ala Lys Lys Arg Asn Leu Asp Leu Leu Leu

20

25

30

Leu Pro Ala Gln Pro Leu Arg Ile Arg Thr Leu Thr Ile
 35 40 45

<210> 1454

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1454

Leu Leu Lys Tyr Phe Gln Arg Met Leu Lys Ile Tyr Lys Ser Trp Ala
 1 5 10 15

Gly Trp Leu Gln Leu Leu Met Arg Asn Lys Arg Lys Ala
 20 25

<210> 1455

<211> 61

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1455

Arg Leu Lys Met Phe Lys Lys Phe Leu Arg Leu Trp Arg Lys His Ala
 1 5 10 15

Cys Lys Ser Leu Ala Glu Gly Trp Leu Ser Arg His Glu Trp Arg Met
 20 25 30

Gly Arg Arg Leu Asp Lys Ser Lys Pro Glu Glu Ala Lys Lys Ala Asp
 35 40 45

Arg Ala Lys Leu Lys Leu Arg Ile Leu Tyr Met Tyr Ser
 50 55 60

<210> 1456

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1456

Arg Leu Arg Leu Met Thr Lys Leu Tyr Lys Arg Phe Arg Lys Lys Pro
1 5 10 15

Leu Ala Leu Leu Leu Met Arg Ala Tyr Gly Ile Asn Lys Lys
20 25 30

<210> 1457

<211> 56

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1457

Ile Leu Arg Phe Leu Lys Lys Trp Phe Lys Arg Phe Lys Arg Val Arg
1 5 10 15

His Lys Met Ile Leu Met Arg Gly Ala Met Gly Ile Trp Thr Ala Arg
20 25 30

Arg Ala Ala Ala Lys Asn Tyr Lys Arg Met Leu Leu Val Leu Gly Ala
35 40 45

Gly Val Lys Ala Arg Arg His Cys
50 55

<210> 1458

<211> 86

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1458

Leu Ile Lys Phe Leu Lys Arg Ile Ile Lys Arg Tyr Lys Ser Leu Ala
1 5 10 15

Leu Leu Arg Cys Arg Tyr Ile Trp Ile Leu Ile Arg Ala Thr Leu Thr
20 25 30

Cys Lys His Arg Ala Lys Ser Gln Glu Ala Gly Leu Gly Asn Arg Lys
35 40 45

Glu Ala Lys Ala Arg Trp His Ala Arg Arg Lys Asn Lys Gln Gly Ala
 50 55 60

Thr Arg Val Arg Val Ala His Lys Lys Thr Ala Val Ala Lys Leu Ile
 65 70 75 80

Val Leu Gly Gly Leu Lys
 85

<210> 1459
 <211> 43
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1459

Leu Tyr Lys Phe Leu Arg Arg Met Met Arg Lys Leu Lys His Arg Ile
 1 5 10 15

Leu Ile Lys Phe Val Trp Arg Asn Thr Pro Ala Gln Ala Leu Lys Lys
 20 25 30

His Arg Ala Lys Arg Leu Thr Ala Leu His Leu
 35 40

<210> 1460
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1460

Phe Leu Lys Leu Leu Cys Lys Trp Trp Arg Leu Ile Lys Lys Leu Cys
 1 5 10 15

Arg Lys Leu Arg Phe His Arg Ala Lys Ala Thr Leu Gly Ala Trp Pro
 20 25 30

Leu Lys Gln Lys Thr Val Phe Pro
 35 40

<210> 1461

<211> 88
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1461

Phe Phe Lys Leu Leu Pro Arg Phe Leu Lys Trp Phe Gln Thr Ala Glu
 1 5 10 15

Ser Arg Leu Ser Ala Ala Lys Lys Leu Thr Trp Ala Ala Leu Leu Lys
 20 25 30

Lys Val Arg Leu Lys Met Lys Ala Asn Lys Lys Trp Trp Leu Leu Lys
 35 40 45

Leu Ala Leu Pro Gly His Phe Trp Ala Phe Arg His Lys Leu Asp Glu
 50 55 60

Trp Cys Thr Asn Lys Ala Met Cys Arg Lys Ser Arg Ile Leu Ile Lys
 65 70 75 80

Glu Gly Arg His Leu Ala Arg Lys
 85

<210> 1462
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1462

Leu Leu Arg Phe Ile Gln Arg Leu Ile Arg Lys Leu Pro Lys Arg Cys
 1 5 10 15

Cys Leu Ala Ser Gln Ala
 20

<210> 1463
 <211> 62
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1463

Lys Ile Lys Leu Met Thr Arg Leu Phe Arg Leu Leu Pro Arg Thr Lys
1 5 10 15

Gln Ala Phe Ala Val Ala Tyr Pro Leu Trp Ala Ala Ala Gln Lys Arg
20 25 30

Lys Leu Cys Lys Ala Ala Leu Pro Lys Ala His Lys His Ala Ile Ala
35 40 45

Arg Phe Leu Val Lys Gln Leu Ser Lys Lys Ala Lys Lys Leu
50 55 60

<210> 1464

<211> 72

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1464

Met Ile Arg Phe Leu His Arg Trp Ile Arg Lys Trp Lys Lys Glu Val
1 5 10 15

Leu Gln Trp Lys Lys Ala Lys Ala Trp Ala Asn Ala Arg Ala His Ala
20 25 30

His Tyr Arg Ser Ala Lys His Leu Lys Ala Leu Ala His Trp Arg Leu
35 40 45

Trp Arg Ala Ala Leu Glu Leu His Thr Lys Leu Lys Ile Gln Ala His
50 55 60

Met Gly Arg Met Leu Ala Lys Met
65 70

<210> 1465

<211> 47

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1465

Lys Ile Lys Ile Leu Lys Arg Leu Phe Lys Trp Leu Arg Arg Leu Ser
 1 5 10 15

Gly Ala Asp Leu Lys Ala Asn Asp Asn Ala Lys Ala Cys Ala His Gly
 20 25 30

Gln Arg Leu Ala Gln Tyr Ala Gln Leu His Met Ala Asn Lys Asn
 35 40 45

<210> 1466

<211> 84

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1466

Leu Leu Lys Trp Phe Lys Lys Met Tyr Lys Leu Phe Pro Pro Met Leu
 1 5 10 15

Thr Arg Arg Arg Lys Arg Lys Met Lys Asn Lys Asp Ala Gly Ala Leu
 20 25 30

Val His Gly Ile Arg Arg Arg Asp Ala Arg Leu Ile Trp Arg Val Leu
 35 40 45

Thr Met Ala Ala Leu Glu Ala Arg Lys Lys Met Arg Leu Arg Arg Gly
 50 55 60

Arg Ala Phe Ala Gln Cys Phe Arg Lys Ala Ala His Gly Leu Ala Cys
 65 70 75 80

Leu Lys Cys Met

<210> 1467

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1467

Arg Tyr Arg Leu Trp Cys Arg Tyr Phe Arg Phe Leu Ser Lys Arg Ala

1 5 10 15

Phe Leu Leu Ala Arg His
20

<210> 1468
<211> 26
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 1468

Lys Tyr Arg Met Leu Ser Lys Met Phe Arg Leu Ile Arg Lys Leu Lys
1 5 10 15

Gly Asn Lys Leu Asn Val Ala Ala Gly Ala
20 25

<210> 1469
<211> 22
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 1469

Phe Phe Arg Met Phe Lys Lys Phe Leu Lys Arg Leu Asn Cys Lys Leu
1 5 10 15

Ala Ala Leu Arg Leu His
20

<210> 1470
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 1470

Arg Leu Arg Ile Ile Arg Arg Tyr Trp Lys Trp Tyr Lys Arg Leu Cys
1 5 10 15

Leu Ala Ala His Leu Leu Ser

20

<210> 1471
 <211> 50
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1471

Arg Trp Arg Met Phe Arg Arg Leu Phe Lys Ile Phe His Thr Gln Arg
 1 5 10 15

Gly Leu Ala Glu Ile Ser Cys Leu Lys Ala Leu Cys Arg Leu Arg Asn
 20 25 30

Ala Leu Lys Ala Asp Arg Lys Ala Lys Gly Glu Pro Lys Ala Met Arg
 35 40 45

Lys His
 50

<210> 1472
 <211> 51
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1472

Arg Trp Lys Trp Tyr Cys Arg Phe Leu Lys Lys Phe Pro Ser Leu Lys
 1 5 10 15

Lys Ala Asn Leu Trp Leu Lys Asn Leu Ala Tyr Arg His Trp Arg Leu
 20 25 30

Ala Tyr Lys Leu Arg Ile Thr Arg Thr Ala Asp Ala Ile Leu Cys Arg
 35 40 45

Leu Lys Arg
 50

<210> 1473
 <211> 27
 <212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1473

Met Leu Arg Leu Phe Arg Arg Leu Ile Arg Lys Tyr Thr Lys Ala Lys
1 5 10 15

Leu Leu Cys Phe Glu Arg Pro Ala Lys Leu Arg
20 25

<210> 1474

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1474

Arg Leu Lys Phe Phe Lys Arg Trp Trp Arg Lys Leu Pro Gln Ala Ala
1 5 10 15

Arg Ala Ala Arg Asn Asn Asp
20

<210> 1475

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1475

Trp Tyr Arg Leu Leu Arg Lys Phe Met Arg Met Leu Gln Cys Leu Ser
1 5 10 15

Lys Phe Ile Ala Ile Phe Asp Leu Arg Leu Leu Ala Ala Ser Lys Phe
20 25 30

Gly Lys Arg Lys Pro Phe Arg Ala
35 40

<210> 1476

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1476

Leu Leu Lys Ile Leu Lys Arg Ile Tyr Lys Lys Leu Lys Lys Ala Leu
1 5 10 15

Gln Arg Met Gly His Arg Met Thr Gly Leu Ile Ala Thr
20 25

<210> 1477

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1477

Lys Leu Lys Phe Trp Arg Lys Ile Phe Arg Leu Leu Lys Pro Ala Gly
1 5 10 15

Leu Ser Thr Ala Asp Leu Arg Ala Lys Lys Arg Asn Asn Gly Lys Ser
20 25 30

<210> 1478

<211> 63

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1478

Lys Phe Arg Ile Ile Asn Lys Met Tyr Arg Trp Leu Arg His Leu Ala
1 5 10 15

Lys Lys Leu Arg Trp Arg Gln Lys Trp Lys Trp Ala Ala Ala Lys Arg
20 25 30

Trp Ala Lys Arg Leu Asp Pro Arg Trp Trp Asp Lys Arg Val Gln Leu
35 40 45

Leu Arg Met Lys Ala Glu Cys Ala Glu Gly Leu Ala Cys Gly Glu
50 55 60

<210> 1479
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1479

Lys Phe Arg Leu Leu Arg Arg Met Leu Arg Leu Trp Lys Arg Ser Phe
 1 5 10 15

Met Gln Ala Ala Ala
 20

<210> 1480
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1480

Phe Trp Lys Leu Leu Arg Lys Leu Phe Arg Trp Leu Asn Lys Leu Ala
 1 5 10 15

Arg Phe Met Glu Ala Lys Pro Arg Leu Lys Arg His
 20 25

<210> 1481
 <211> 49
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1481

Lys Leu Arg Met Met Arg Arg Leu Trp Lys Arg Leu Gln Arg Arg Tyr
 1 5 10 15

Ala Tyr Leu Ala Leu Ala Ser Glu Leu Arg Leu Gly Asn Trp Lys Trp
 20 25 30

Asn Ser Glu Leu Gln Ser Pro Ile Arg Cys Lys Lys Ala Lys Leu Phe
 35 40 45

Lys

<210> 1482
 <211> 37
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1482

Arg Leu Lys Tyr Trp Thr Lys Ile Leu Lys Met Leu Ser Lys Tyr Leu
 1 5 10 15

Leu Glu Lys Ala His Ala Ala Thr Arg Asn Thr Cys Arg Arg Lys Ala
 20 25 30

Ala Leu Ala Lys Trp
 35

<210> 1483
 <211> 41
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1483

Leu Ile Lys Trp Ile Arg Lys Ile Phe Lys Arg Phe Pro Arg Ser Lys
 1 5 10 15

Arg Arg Ile Ala Lys Ala Tyr Leu Lys Lys Arg Ala Ala Ala Ser Arg
 20 25 30

Leu Ser Gly Leu Gln Ile Asn Ala Val
 35 40

<210> 1484
 <211> 86
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1484

Lys Trp Arg Leu Leu Arg Lys Met Leu Arg Lys Leu Arg Thr Lys Lys
 1 5 10 15

Ala Ser Ala Met Ala Trp Leu Ala Ala Ala Ser Leu Ser Cys Lys Glu
 20 25 30

Arg Leu Asn Trp Val Glu Cys Lys Gln Gly Leu Gln Cys Phe Phe Cys
 35 40 45

Ile Val Lys Ile Gly Ala Lys Leu Tyr Lys Arg His Thr Leu Lys Ala
 50 55 60

Lys Lys Gln Asp Lys Asn Lys Asp Leu Ala Lys Met Asp Gln Arg Met
 65 70 75 80

Arg Ala Ile Leu Lys Arg
 85

<210> 1485
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1485

Lys Leu Lys Phe Tyr Lys Arg Phe Leu Lys Met Tyr Gln Lys Arg Leu
 1 5 10 15

Gln Ala Ala Ser
 20

<210> 1486
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1486

Leu Phe Lys Leu Leu Cys Lys Leu Leu Arg Arg Phe Ser Arg Ala Asn
 1 5 10 15

Leu Arg Met Arg Gly Met Leu Arg Leu Lys Lys Phe Cys Met Tyr Gln

20

25

30

<210> 1487

<211> 65

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1487

Leu Tyr Arg Leu Ile Lys Lys Ile Phe Lys Leu Leu Thr Ser Ala Lys
 1 5 10 15

Ser Asn Ser Trp Leu Phe Ala Lys Phe Leu Trp Leu Lys Leu Asn Lys
 20 25 30

Arg Arg Lys Lys Met Leu Ile Leu Lys Asn Leu Ala Arg Gln Trp Gly
 35 40 45

Lys Leu Phe Lys Cys Ala Lys Leu Leu Phe Ala Ala Ile Cys Ala Leu
 50 55 60

Val

65

<210> 1488

<211> 50

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1488

Phe Tyr Lys Leu Met Cys Lys Tyr Leu Lys Leu Ile Arg Pro His Ala
 1 5 10 15

Ala Lys Arg Lys Gln Asn Ala Ala Lys His Ala Ala Lys Tyr Tyr Thr
 20 25 30

Arg Lys Leu Ala Asp Met Gln Leu Trp Tyr Leu Lys Pro Lys Leu Arg
 35 40 45

Val Tyr

50

<210> 1489
 <211> 47
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1489

Arg Ile Arg Leu Leu Arg Arg Leu Leu Arg Tyr Ile Thr Arg Lys Arg
 1 5 10 15

Ser Ala Ile Lys Val Tyr Ala Met Lys Ala Gly Ile Met Gly Ala Arg
 20 25 30

His Lys Cys Tyr Trp Lys Leu Gln Leu Glu Leu Lys Ile Pro Leu
 35 40 45

<210> 1490
 <211> 38
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1490

Arg Tyr Lys Leu Phe Lys Lys Trp Leu Arg Arg Met Arg Asn Asp Arg
 1 5 10 15

Asp Ala Pro Gln Ala Leu Leu Cys Leu Leu Leu Phe Ala Phe Lys Gln
 20 25 30

Glu Arg Phe Leu Val Trp
 35

<210> 1491
 <211> 96
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1491

Leu Ile Arg Tyr Leu Arg Arg Leu Leu Lys Leu Phe Lys Lys Ala Leu
 1 5 10 15

Gly His Ala Lys Lys Tyr Gln Met Trp Leu Ala Leu Asp Gly Phe Arg
 20 25 30

Gln Asn Trp Tyr Lys His Leu Arg Glu Met Lys Gln Leu Met Gln Lys
 35 40 45

Ala Gly Lys Lys Phe Cys Lys Val Thr Arg Arg Lys Ala Ala Val Lys
 50 55 60

Lys Ile Gln Glu Leu Lys Lys Leu Asn Phe Ala Glu Leu Lys Lys Arg
 65 70 75 80

Val Phe Arg Glu Tyr Leu Lys Tyr Cys Arg Ala Trp Lys Phe His Leu
 85 90 95

<210> 1492
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1492

Tyr Ile Arg Tyr Leu Lys Lys Leu Leu Lys Arg Phe Ser Lys Leu Leu
 1 5 10 15

Ile Met Asp Ala Thr Leu Ala Leu Gln Lys Pro Ala Lys
 20 25

<210> 1493
 <211> 26
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1493

Lys Leu Lys Leu Leu Thr Arg Phe Phe Lys Leu Trp Ser Thr Arg Lys
 1 5 10 15

Arg Leu Leu Ile Phe Ile Lys Arg Ala Ile
 20 25

<210> 1494

<211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1494

Arg Ile Lys Leu Ile Lys Arg Ile Phe Arg Arg Tyr Arg Lys Arg Arg
 1 5 10 15

Leu Leu Phe Asp Ala Glu Leu Ala Lys Leu Ala Met Val Val
 20 25 30

<210> 1495
 <211> 74
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1495

Trp Phe Lys Leu Phe Cys Lys Leu Trp Lys Lys Ile Lys Ser Gln Glu
 1 5 10 15

Ala Leu Ile Thr Ala Trp Leu Arg Lys Ala Leu Lys Thr Pro Ile Cys
 20 25 30

Lys Lys Leu Arg Ala Asp Ala Arg Ala Arg Ala Arg Trp Arg Ala Leu
 35 40 45

Phe Arg His Gly Lys Val Asn Leu Asn Cys Lys Leu Arg Arg Tyr Ala
 50 55 60

Thr Gly Ala Pro Lys Gln Leu Met His Gln
 65 70

<210> 1496
 <211> 52
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1496

Met Met Lys Ile Leu Thr Lys Tyr Leu Arg Lys Met Asn Pro Leu Leu

1 5 10 15

Asp Phe Ile Leu Ala Ser Lys Lys Tyr Arg Arg Trp Val Leu Pro Gln
20 25 30

Val Leu Ser Ser Ala Leu Arg Leu Leu Lys Lys Gly Ala Arg Lys Lys
35 40 45

Ala Leu Arg Ala
50

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<210> 1497
<211> 42
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 1497
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Arg Tyr Lys Leu Leu Lys Lys Leu Ile Arg Ile Phe Lys Lys Lys Thr
1          5          10          15

Leu Ala Lys Leu Ala Asp Tyr Leu Arg Arg Lys Ala Gln Pro Ala Arg
          20          25          30

Met Gly Asn Val Leu Gly Leu His Asn Pro
          35          40

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<210>	1498
<211>	40
<212>	PRT
<213>	Artificial Sequence
<220>	
<223>	Computer-generated peptide variant
<400>	1498

Tyr Leu Arg Leu Ile Pro Arg Phe Leu Arg Tyr Leu Lys Lys Arg Ile
1 5 10 15

Ala Leu Ile Arg Phe Arg Ser Gly Tyr Ala Lys Ala Arg Ile Lys Asn
20 25 30

Ala Leu Glu Arg Leu Val Leu Gly
35 40

<210> 1499
 <211> 67
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1499

Phe Phe Lys Leu Phe Pro Arg Leu Leu Lys Arg Leu Lys Asn His Glu
 1 5 10 15

Gly Leu Asn Cys Ala Arg His Ala Arg Leu Leu Ile Thr Ala Val Pro
 20 25 30

Arg Glu Ala Gln Met Gly Lys Lys Pro Ala Arg Arg Leu Gln Gly Arg
 35 40 45

Lys Leu Arg Arg Gln Ser Gly Gly Ala Tyr Lys Ala Ala Tyr Arg Lys
 50 55 60

Trp Lys Gln
 65

<210> 1500
 <211> 78
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1500

Lys Ile Arg Trp Leu His Arg Met Ile Lys Leu Phe Asn Lys Leu Val
 1 5 10 15

Thr Arg Ser Leu Leu Lys His Thr Lys Lys Arg Asp Ala Leu Arg Lys
 20 25 30

His His Lys Ala Trp Ala Leu Ala Pro Lys Thr Cys Arg Pro Arg Lys
 35 40 45

Arg Lys Ala Glu Trp Lys Leu Leu Lys Lys Ala Tyr Ala Ala Tyr Leu
 50 55 60

Asp Arg Tyr Thr Leu His Leu Lys Ala Gly Lys Ala Ser Trp

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<220>
<223> Computer-generated peptide variant
<400> 1501
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Leu Asp Cys Gly Asn Ala Asp His Arg Lys Tyr
35 40

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<220>
<223> Computer-generated peptide variant
<400> 1502
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Arg Leu Cys Leu Lys Lys Glu Leu Pro Cys Leu Thr
35 40

```
<220>
<223>   Computer-generated peptide variant
<400>   1503
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Lys Ile Lys Leu Phe Asn Lys Leu Met Lys Arg Leu Thr Lys Ser Gln

1 5 10 15

Leu Leu Met Ala Cys Leu Leu Lys Lys Arg Ala Ala Met Met Arg Pro
 20 25 30

Lys Leu Gln Ser Val Ala Lys Lys Leu His Asp Phe Glu Ala Gln Phe
 35 40 45

Arg Asn Val Ser Lys Lys Lys His Arg Glu Arg Tyr
 50 55 60

<210> 1504
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1504

Lys Met Lys Leu Leu Lys Lys Phe Phe Lys Met Leu Ser Arg His Leu
 1 5 10 15

Val Leu Arg Asp Cys Lys Leu Ala Ala Thr Leu Lys Lys Lys Lys Gly
 20 25 30

Gly

<210> 1505
 <211> 27
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1505

Arg Trp Lys Leu Leu Pro Arg Trp Leu Lys Arg Ile Lys Lys His Ala
 1 5 10 15

His Leu Tyr Gly Tyr Leu Thr Arg Glu Gly Ala
 20 25

<210> 1506
 <211> 52
 <212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1506

Arg Ile Arg Trp Phe Lys Lys Phe Met Arg Met Leu Pro Lys Ala Leu
1 5 10 15

Val Thr Gln Phe Arg Leu Asp Lys Tyr Leu Ala Lys Arg Ala Trp Leu
20 25 30

Lys Ala Leu Ile Leu Leu Leu Lys Leu Leu Arg Lys Phe Gly Ile Ile
35 40 45

Gln Thr Val Gln
50

<210> 1507

<211> 38

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1507

Leu Leu Arg Tyr Tyr Asn Arg Ile Phe Lys Arg Phe Pro Thr Phe Lys
1 5 10 15

Asp Lys Arg Met Tyr Ala Ala Arg His Leu Leu Ala Ser Lys Gly Leu
20 25 30

Gln Arg Gln Leu Ala Arg
35

<210> 1508

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1508

Phe Leu Lys Tyr Leu Ser Arg Leu Ile Arg Arg Phe Asn Arg Arg Thr
1 5 10 15

Tyr Leu Leu Met Asn Asn Leu Thr Leu Lys Lys Leu Arg
 20 25

<210> 1509
 <211> 41
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1509

Arg Tyr Lys Ile Leu Asn Lys Leu Leu Lys Ile Met Cys Gln Arg Ala
 1 5 10 15

Cys Ala Leu Arg Lys Lys Gln Ala Glu Lys Trp Leu Ala Ala Arg Asp
 20 25 30

His Lys Gln Glu Met Ala Ala Ala Tyr
 35 40

<210> 1510
 <211> 74
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1510

Lys Phe Lys Phe Trp Arg Arg Ile Phe Arg Lys Leu Lys Pro Asn Arg
 1 5 10 15

Ala Pro His Ala Phe Ala Lys Phe Met Ala Phe Ala Arg Lys Ser Pro
 20 25 30

Asp Leu Met Asn Lys Leu Asp Met Trp Leu Ala Arg Thr Tyr Pro Lys
 35 40 45

Ala Leu Lys Gln Arg Lys Gly His Asn Leu Lys Lys Ala Ala Lys Ile
 50 55 60

Ala Ala Leu Arg Leu Asn Ala Leu Phe His
 65 70

<210> 1511

<211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1511

Trp Leu Lys Leu Tyr Arg Lys Leu Phe Arg Arg Leu Thr Lys Ser Ala
 1 5 10 15

Cys Ala Asp Lys Ala Pro Thr Ala Leu Leu Leu Arg Lys Lys Ala Arg
 20 25 30

<210> 1512
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1512

Tyr Leu Arg Ile Leu Asn Lys Trp Leu Arg Phe Met Arg Asn Ser Cys
 1 5 10 15

Ala Ile Leu Lys Ala Arg Lys Glu Ala Lys Ala Val
 20 25

<210> 1513
 <211> 71
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1513

Phe Tyr Arg Phe Leu Gln Arg Leu Trp Lys Lys Met Lys Arg Lys Ala
 1 5 10 15

Ala Arg Ile Ile Leu Leu Gln His Pro Leu Gly Gln Lys Lys Cys Ala
 20 25 30

Ala Phe Arg Cys Phe His Lys Lys Ala Thr Arg Gln Trp Ala Met Val
 35 40 45

Ala Leu Arg His Lys Arg Ala Leu Ala Tyr Leu Leu Cys Leu Ala Ala

50

55

60

Lys Glu Cys Ile Lys Asn Lys
65 70

<210> 1514

<211> 55

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1514

Arg Phe Arg Leu Phe Lys Arg Phe Leu Lys Arg Leu Lys Lys Lys Met
1 5 10 15

Cys Ala Gly Pro Arg Asp Ala Leu Phe Glu Arg Glu Cys Arg Gln Tyr
20 25 30

Ala Arg Ala Gly Leu Ala Phe Pro Leu Asp Leu Trp Arg Ala Ser Met
35 40 45

Gly Thr Ala Ala Arg Lys Trp
50 55

<210> 1515

<211> 54

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1515

Arg Tyr Lys Phe Leu Lys Lys Leu Trp Lys Trp Leu Arg Lys Leu Glu
1 5 10 15

Glu Lys Ser Gln Met Cys Ser Trp Arg Phe Ala Lys Arg Asn Thr Phe
20 25 30

Leu Ala Trp Lys Lys Val Ala Trp Arg Lys Ala Val Lys Ala Ala Val
35 40 45

Asn Leu Leu His Arg Leu
50

<210> 1516
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1516

Lys Phe Arg Met Leu Arg Arg Phe Leu Lys Arg Tyr Arg Asn Ala Ala
 1 5 10 15

Phe Ala Ala Ser Lys Ala Ala
 20

<210> 1517
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1517

Phe Leu Lys Phe Leu Thr Arg Met Leu Lys Phe Tyr His Asn Arg Leu
 1 5 10 15

Arg Ala Arg Lys Thr Asp Ala Thr Cys Cys Ala Leu Lys Leu Lys Gln
 20 25 30

Cys Leu Lys
 35

<210> 1518
 <211> 38
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1518

Leu Ile Lys Leu Met Asn Lys Tyr Met Lys Lys Leu Lys Lys Lys Cys
 1 5 10 15

Gly Asp Ala Ala Arg Ser Leu Lys Ala Pro Leu Trp Asn Arg Arg Lys
 20 25 30

Arg Leu Tyr Asp Ala His
35

<210> 1519
<211> 43
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 1519

Lys Trp Lys Leu Trp Arg Lys Phe Ile Lys Lys Leu Arg Cys Pro Lys
1 5 10 15

Leu Leu Ala Asp Leu Leu Thr Asp Met Lys Asn Arg Thr Ala His Arg
20 25 30

Ile Asn Leu Cys Ala Met Ala Tyr Ala Lys Ala
35 40

<210> 1520
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 1520

Ile Phe Lys Tyr Met Asn Lys Leu Leu Arg Tyr Leu Lys Arg Leu Ser
1 5 10 15

Arg Pro Ala Val
20

<210> 1521
<211> 58
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 1521

Arg Ile Arg Trp Phe Ser Lys Phe Phe Arg Trp Leu Arg Lys Ala Lys
1 5 10 15

Ser Thr Lys Leu Lys His Thr Arg Lys Leu Ile Arg Leu Val Leu Ala
 20 25 30

Lys Arg Tyr Phe Arg Leu Leu Tyr Ala Arg Leu Tyr Ser Trp Lys Cys
 35 40 45

Leu Val Leu Leu Thr Leu His Lys Val Phe
 50 55

<210> 1522
 <211> 55
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1522

Leu Leu Lys Leu Tyr Pro Lys Ile Leu Lys Arg Trp Lys Gln Met Ala
 1 5 10 15

Tyr Arg Gln Leu Val Ala Ala Glu Phe Gln Glu Asp Lys Lys Met Cys
 20 25 30

Lys Phe Pro Arg Arg Arg Thr Arg Glu Tyr Ala Leu Ala Lys Arg Lys
 35 40 45

Thr Ala Arg Ala His His Leu
 50 55

<210> 1523
 <211> 45
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1523

Phe Phe Lys Trp Phe Lys Lys Ile Met Lys Leu Trp Cys Arg Arg Gln
 1 5 10 15

Lys Ala Ser Leu Arg Tyr Leu Arg Leu Arg Cys Arg Ala Tyr Leu Leu
 20 25 30

Leu Lys Leu Ala Arg Gln Trp Arg Ala Pro Leu Ile Gln

35

40

45

<210> 1524

<211> 90

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1524

Arg Leu Lys Leu Ile Lys Arg Leu Leu Lys Ile Phe Arg Thr Leu Phe
 1 5 10 15

Lys Pro Ala Trp Phe Gly Arg Phe Arg Lys Tyr Lys Asp Gly Lys Glu
 20 25 30

Arg Lys Leu Ala Glu Phe Leu Ala Tyr Ala Leu Arg Thr Thr Leu Pro
 35 40 45

Arg Leu Arg Lys Val Asp Asn Arg Val His Arg Leu Leu Thr Arg Ile
 50 55 60

Pro Lys Ala Lys Phe Leu His Asp Lys Asn Pro Arg Cys Leu Leu Arg
 65 70 75 80

Leu Ser Ala Gly Ala Lys Lys Arg Tyr Asn
 85 90

<210> 1525

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1525

Leu Leu Arg Tyr Leu Arg Lys Leu Met Arg Lys Trp Arg Lys Trp Ala
 1 5 10 15

Leu Cys His Tyr Asn Tyr
 20

<210> 1526

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1526

Phe Phe Arg Leu Leu Lys Lys Leu Trp Arg Lys Leu Thr Pro Lys Val
1 5 10 15

Ala Ala Lys Leu Arg Glu Ser Ile Phe Ala Tyr Met Leu
20 25

<210> 1527

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1527

Ile Phe Lys Phe Ile Cys Arg Leu Leu Lys Arg Leu Asn Lys Gln Leu
1 5 10 15

Glu Leu Leu Asn
20

<210> 1528

<211> 95

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1528

Leu Phe Arg Trp Tyr Arg Arg Leu Leu Arg Lys Leu Ser Ser His Gln
1 5 10 15

Ile Ala Ala Trp Lys Arg Ala Thr Phe Arg Leu Thr Asn Leu Leu Arg
20 25 30

Leu Thr Ala Lys Arg Glu Leu Ile Ala Asp His Arg Lys Trp Ala Arg
35 40 45

Phe Ala Ile Lys Asn Lys Asn Lys Cys Lys Leu Ile Ala Pro Asn Val
50 55 60

Ile Arg Cys Pro Lys Lys Leu Val Arg Lys Asp Gly Arg Ala Gln Ala
 65 70 75 80

Trp Arg Leu Asp Thr Leu Lys Thr His Lys Lys Ala Cys Leu Asn
 85 90 95

<210> 1529
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1529

Leu Trp Arg Met Leu Arg Arg Ile Phe Arg Arg Leu Ser Lys Val Met
 1 5 10 15

Met Ser Leu Lys Leu Asn Ala Lys Trp Ala Leu Gly
 20 25

<210> 1530
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1530

Trp Phe Arg Leu Phe Lys Lys Leu Tyr Lys Leu Met Arg Gln Lys Arg
 1 5 10 15

Glu Leu Arg Val Asn Met Leu Cys Pro Asn Lys Leu Ala Ala Ile Arg
 20 25 30

Ala Met

<210> 1531
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1531

Arg Phe Lys Tyr Leu Lys Lys Phe Leu Lys Arg Leu Lys Thr Leu Ile
 1 5 10 15

Lys Leu Pro Arg Tyr Glu Phe Leu Ala Pro Trp Leu Asp Tyr Lys Ala
 20 25 30

Lys

<210> 1532
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1532

Arg Ile Arg Trp Ile Arg Arg Tyr Leu Lys Phe Leu Cys Lys Trp Ala
 1 5 10 15

Lys Leu Ser Leu Gln Lys Leu Lys Asn Met Trp Ala Lys Ala Trp Glu
 20 25 30

Lys Asn

<210> 1533
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1533

Leu Tyr Arg Leu Trp Asn Lys Phe Ile Arg Lys Phe Arg Arg Leu Ala
 1 5 10 15

Leu Lys Glu Phe Leu Asp Ala Leu Leu Met Ser Val Ile Arg Ala Asn
 20 25 30

Lys Arg Leu
 35

<210> 1534

<211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1534

Trp Leu Arg Tyr Tyr Arg Lys Leu Leu Lys Leu Phe Cys Arg Lys Phe
 1 5 10 15

Gln Lys Arg Leu Ala Cys Trp Tyr Ala
 20 25

<210> 1535
 <211> 55
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1535

Arg Leu Lys Trp Leu Cys Lys Leu Leu Arg Arg Trp His Lys Val Ser
 1 5 10 15

Arg Pro Thr Leu Arg Val Asp Lys Arg Glu Tyr Gly Ala Glu His Ala
 20 25 30

Leu Arg Met Tyr Ala Cys Pro Lys Arg Arg Ala Ala Cys Ala Asn Ala
 35 40 45

Ala Arg Tyr Ser Ala Arg Ala
 50 55

<210> 1536
 <211> 56
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1536

Phe Phe Arg Leu Leu Cys Lys Phe Leu Arg Lys Leu Cys Arg Lys Lys
 1 5 10 15

Ala Thr Arg Ala Ala Lys Asp Leu Phe Asp Asn Val Lys Glu Cys Ala

20

25

30

Asn Arg Leu Arg Pro Ala Asp Leu Tyr Lys His Trp Leu Lys Gly Lys
 35 40 45

Met Ala Lys Lys Ala Phe Arg Thr
 50 55

<210> 1537

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1537

Leu Leu Arg Leu Ile Lys Lys Phe Leu Arg Lys Ile Pro Gln Lys Arg
 1 5 10 15

Arg Arg Arg Met Leu Trp Arg Ala Trp Ala Leu Gln Arg Ile Thr Ala
 20 25 30

<210> 1538

<211> 43

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1538

Ile Trp Lys Leu Tyr Arg Arg Phe Leu Lys Phe Met Arg Lys Lys Met
 1 5 10 15

His Trp Leu Arg Ala Ala Asn Arg Tyr Phe Leu Leu Ile Ala Leu Phe
 20 25 30

Leu Leu His Leu Ala Phe Thr Arg Ile Arg Ser
 35 40

<210> 1539

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1539

Arg Trp Lys Phe Leu Arg Lys Phe Trp Lys Leu Phe Thr Arg Arg Pro
1 5 10 15

Leu Ala Ala Gln Leu Leu Ile
20

<210> 1540

<211> 85

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1540

Ile Leu Arg Leu Phe Thr Lys Met Leu Arg Tyr Leu Pro Cys Ala Ala
1 5 10 15

Leu Leu Thr Val Thr Ile Leu Arg Thr Glu Ile Val Asp Ala Arg Arg
20 25 30

Leu Arg Leu Phe Lys Cys Leu Phe Leu Lys Arg Leu Arg Glu Arg Phe
35 40 45

Gln Lys Leu Arg Ala Pro Gly Glu Leu Ala Gln Ala Ala Gln Ala Tyr
50 55 60

Leu Leu Gly Asp Lys Val Val Lys His Thr Gly Leu Thr Leu Thr Arg
65 70 75 80

Arg Lys Pro Lys Ala
85

<210> 1541

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1541

Lys Leu Arg Leu Leu Lys Lys Leu Leu Lys Arg Tyr Cys Pro Gln Met
1 5 10 15

Cys Thr Ala Gln Ala His Gly Phe Ala Val Lys
 20 25

<210> 1542
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1542

Lys Phe Lys Leu Phe Arg Lys Leu Phe Arg Met Trp Arg His Ala Ala
 1 5 10 15

Asp Ala Leu Lys Gly Lys Leu Arg Lys Gln Tyr Thr Val Ser Ala Ser
 20 25 30

Asp Ala Thr Arg
 35

<210> 1543
 <211> 41
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1543

Arg Ile Arg Leu Tyr Cys Lys Leu Tyr Arg Arg Leu Ser Arg Cys Ala
 1 5 10 15

Ser Arg Cys Arg Phe Ile Ala Leu Lys Arg Lys Leu Arg Glu Leu Tyr
 20 25 30

Phe Pro Lys Asp Tyr Arg Ala Ala Tyr
 35 40

<210> 1544
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1544

Leu Leu Arg Leu Trp Gln Lys Leu Trp Arg Lys Leu Arg Asn His Trp
 1 5 10 15

Leu Arg Thr Gln Tyr Leu Arg Ala Ala Tyr Asp His
 20 25

<210> 1545
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1545

Ile Phe Lys Leu Trp Lys Arg Tyr Leu Arg Ile Leu His Gln Lys Leu
 1 5 10 15

Pro Ala Leu Arg Pro Arg
 20

<210> 1546
 <211> 27
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1546

Met Leu Arg Tyr Leu Thr Arg Phe Leu Arg Lys Ile Ser Lys Ala Ala
 1 5 10 15

Ala Lys Lys Met Cys Pro Gly Lys Tyr Ala Leu
 20 25

<210> 1547
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1547

Arg Leu Arg Phe Leu His Arg Phe Leu Lys Leu Ile Arg Lys Ala Leu
 1 5 10 15

Arg Pro Ala Tyr Arg Tyr Thr Ser Lys Arg Tyr Leu Ile Phe Asp Gly
 20 25 30

Leu Trp

<210> 1548
 <211> 57
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1548

Met Ile Lys Tyr Tyr Arg Lys Phe Phe Lys Ile Leu Arg Lys Arg Val
 1 5 10 15

Trp Ala Leu Ile Asn Gly Lys Lys Leu Leu Ala Thr Ala Ala Leu Val
 20 25 30

Met Lys Ala Thr Trp Leu Ala Lys His Ser Lys Lys Val Arg Arg Lys
 35 40 45

Pro Gln Ile Ala Arg Gly Leu Thr Arg
 50 55

<210> 1549
 <211> 42
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1549

Lys Leu Arg Leu Leu Arg Lys Trp Leu Lys Arg Ile Arg Gln Arg Gln
 1 5 10 15

Lys Leu Leu Val Lys Leu Pro Ala Arg Leu Asp Arg Arg Pro Gln Ser
 20 25 30

Lys Leu Ser Lys Arg Leu Leu His Asp Ser
 35 40

<210> 1550

<211> 45
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1550

Lys Leu Lys Ile Met Asn Arg Phe Leu Lys Lys Trp Ser Ser Ala Phe
 1 5 10 15

Ile Lys Ile Leu His Lys Leu Lys Leu Ile Lys Thr Leu Ala Lys Ala
 20 25 30

Leu Lys Ala Met Gln Leu Val Gly Leu Gln His Phe Arg
 35 40 45

<210> 1551
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1551

Arg Leu Arg Leu Phe Asn Arg Leu Tyr Lys Ile Leu Lys Pro His Ala
 1 5 10 15

Arg Arg Asn Leu Lys
 20

<210> 1552
 <211> 65
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1552

Lys Met Lys Ile Phe Gln Arg Leu Leu Arg Trp Tyr Arg Ser Asp Ala
 1 5 10 15

Arg Leu Arg Ser Ile His Arg Ala Asn Arg Ile Pro His Met Leu Leu
 20 25 30

Arg Ala Lys Lys Ala Arg Leu Ala Asn Arg Ile Tyr Met Val Ala Leu

35

40

45

Ala Ala Tyr Trp Lys Asn His Arg Ser Gln Ala Glu Lys Ala Ser Lys
 50 55 60

Leu
 65

<210> 1553
 <211> 27
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1553

Met Met Arg Leu Met Pro Arg Leu Phe Arg Arg Ile Lys Gln Thr Leu
 1 5 10 15

Gln Ala His Lys Arg Leu Ser Ala Asn Leu Lys
 20 25

<210> 1554
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1554

Leu Tyr Lys Trp Trp Lys Arg Leu Met Arg Leu Leu Lys Asn Pro Lys
 1 5 10 15

Thr Cys Leu Thr Arg Ala Ala Arg Trp Ala Asn Ser Leu
 20 25

<210> 1555
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1555

Arg Met Lys Phe Leu Arg Lys Leu Leu Lys Lys Leu Cys Arg Gln Tyr

1 5 10 15

Tyr Glu Ile Lys Val Ala Leu Leu Tyr Ala Tyr Arg Ala His Ala His
20 25 30

<210> 1556
<211> 37
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 1556

Lys Leu Arg Tyr Leu Gln Arg Phe Leu Lys Arg Phe Asn His Ser Ala
1 5 10 15

Phe Arg Ala Arg Pro Leu Lys Leu Asp Ala Met Met Leu Trp Leu Lys
20 25 30

Ile Arg Leu Phe Ile
35

<210> 1557
<211> 34
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 1557

Tyr Leu Lys Leu Leu Arg Lys Leu Leu Lys Tyr Leu Arg Ser Lys Leu
1 5 10 15

Gln Ile Tyr Ile Pro Gln Val Tyr Arg Tyr Tyr Ala Arg Lys Lys Ala
20 25 30

Leu His

<210> 1558
<211> 61
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 1558

Lys Leu Arg Trp Phe Arg Arg Ile Ile Arg Lys Leu Lys Lys Asn Arg
 1 5 10 15

Glu Leu Arg Tyr Thr Ser Ala Ala Ala Arg Arg Ser Cys Asn Arg Ile
 20 25 30

Ala Trp Ser Val Ala Leu Thr Leu Ala Trp Glu Thr Arg Phe Trp Leu
 35 40 45

Lys Met Val Tyr Lys Arg Val Lys Ala Ala Asp Lys Lys
 50 55 60

<210> 1559

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1559

Leu Trp Lys Leu Trp Arg Lys Ile Leu Lys Lys Leu Arg His Glu Met
 1 5 10 15

Arg Leu His Lys Ala His Ala Thr Ala
 20 25

<210> 1560

<211> 38

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1560

Lys Leu Arg Trp Leu Lys Lys Trp Met Lys Lys Met Arg Arg Glu Cys
 1 5 10 15

Thr Arg Ala Ile Tyr Lys Pro Ala Leu Asp Ser Ala Lys Leu Cys Ala
 20 25 30

Lys Pro Trp His Cys Leu
 35

<210> 1561
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1561

Phe Leu Arg Leu Phe Cys Lys Leu Tyr Lys Trp Tyr His Lys Leu Leu
 1 5 10 15

Leu Ala Leu Arg Lys Thr Gly Gly Ile Arg Arg Lys Leu
 20 25

<210> 1562
 <211> 37
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1562

Arg Leu Arg Leu Ile Lys Lys Phe Tyr Arg Tyr Trp Ser Arg Ala Ser
 1 5 10 15

Leu Leu Ala Arg Trp Ala Leu Asn Leu Lys Ala Asn Tyr Tyr Arg Lys
 20 25 30

Lys Asp Val His Arg
 35

<210> 1563
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1563

Lys Leu Arg Phe Tyr Arg Arg Leu Leu Lys Phe Phe Lys Arg Met Val
 1 5 10 15

Lys Pro Ala Met Ser Ala Arg Ala Leu Lys Leu Ala Met Pro Cys Leu
 20 25 30

Leu Thr Gln
35

<210> 1564
<211> 63
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 1564

Trp Leu Lys Leu Leu Lys Arg Met Leu Arg Leu Leu Pro Lys Arg Arg
1 5 10 15

Lys Thr Arg Ser Ser Ala Leu Trp Asn Thr Asp Ala Asn Val Lys Ala
20 25 30

Gly Leu Glu Leu Gly Ala Gly His Lys Arg Met Lys Pro Val Arg Arg
35 40 45

Leu Arg Ser Leu Glu Trp Ala Arg Leu Ala Lys Pro Ala Lys Arg
50 55 60

<210> 1565
<211> 58
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 1565

Arg Leu Lys Trp Leu Lys Arg Leu Leu Arg Arg Phe His Lys Lys Lys
1 5 10 15

Cys Leu Lys Val Pro His Arg Trp Leu Glu Leu Asp Arg Asp His Leu
20 25 30

Lys Arg Ala Leu Cys Gly Arg Glu Ile Leu Ala Val Phe Cys Ser Pro
35 40 45

Arg Trp Leu Ser Leu Leu Leu Phe Ala Gly
50 55

<210> 1566

<211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1566

Arg Phe Arg Phe Trp Lys Lys Phe Leu Arg Leu Phe Asn Arg Lys His
 1 5 10 15

Lys Asp Asn Gln Ala Ala Asn Arg Leu Ser Ala Gly Arg Leu Ala Asn
 20 25 30

Thr Arg

<210> 1567
 <211> 51
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1567

Leu Trp Arg Tyr Ile Lys Lys Leu Leu Arg Trp Leu Arg Cys Leu Leu
 1 5 10 15

Arg Val Ala Glu Ala Leu Ile Phe Ala Arg Arg Asp His Arg Ala Arg
 20 25 30

Leu Trp Ile Arg Leu Lys Cys Lys Thr Lys Leu Val Ser Cys Arg Met
 35 40 45

Arg Gln Gly
 50

<210> 1568
 <211> 47
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1568

Leu Leu Arg Ile Tyr Arg Arg Leu Leu Lys Lys Trp Ser Arg Ala Gly

1 5 10 15

Arg His Arg Glu Gly Ala Gln Leu Lys Ala Arg Asn Leu Leu Arg Ser
20 25 30

Thr Met Lys Met Arg Val Tyr Ala Thr Met Ala Arg His Tyr Lys
35 40 45

<210> 1569

<211> 56

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1569

Arg Leu Arg Trp Leu Thr Arg Trp Tyr Arg Lys Trp Asn Lys Met His
1 5 10 15

Leu Glu Leu Lys His His Gly Leu Leu Lys Leu Ala Lys Arg Leu Ser
20 25 30

Lys Leu Ala His Leu Gln Leu Leu Arg Leu Gln Lys Ser Glu Leu Asp
35 40 45

Ile Leu Arg Asp Phe Pro Ser Pro
50 55

<210> 1570

<211> 41

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1570

Trp Tyr Arg Leu Leu Thr Arg Phe Met Lys Lys Leu Lys Lys Lys Leu
1 5 10 15

Pro Val Arg Tyr Ala Ala Ala Lys Tyr Leu Arg Gln Asp Lys Ile Tyr
20 25 30

Ala Gly Arg Val Cys Leu Ile Lys Ile
35 40

<210> 1571
 <211> 65
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1571

Phe Phe Arg Leu Trp Arg Arg Leu Leu Arg Phe Leu Arg Lys His Tyr
 1 5 10 15

Ala Leu Ala Lys Trp Lys Thr Ala Glu Gly Ala Lys Pro Leu Ala Glu
 20 25 30

Ala Tyr Ala Arg Arg Ala Leu Tyr Gln Gln Val Leu Met Ile His Lys
 35 40 45

Leu Lys Glu Ser Arg Asp Arg His Ala Phe Lys Asn Met Asn Leu Ala
 50 55 60

His
 65

<210> 1572
 <211> 64
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1572

Leu Ile Lys Phe Leu Ser Arg Trp Trp Lys Arg Met Lys Pro Ala Met
 1 5 10 15

Arg Lys Phe Lys Ala Leu Gln Lys Leu Leu Met Arg Lys Tyr Tyr Thr
 20 25 30

Glu His Ala Trp Leu Arg Pro Phe Lys Ala Pro Ser Tyr Met Lys Ala
 35 40 45

Leu Lys Phe Arg Leu Lys Gln Leu Leu Lys Asn Lys Lys Lys Trp Thr
 50 55 60

<210> 1573

<211> 41
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1573

Arg Tyr Arg Phe Phe Arg Arg Ile Met Lys Arg Leu His Lys Asp Ile
 1 5 10 15

Arg Lys Gly Arg Leu Ala Phe Asp Ala Ala Ala Ala Lys Val Cys Lys
 20 25 30

Pro Ala Ile Ser Lys Lys Leu His Ala
 35 40

<210> 1574
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1574

Lys Leu Lys Tyr Met Lys Lys Trp Phe Lys Leu Phe Ser Arg Ala Leu
 1 5 10 15

Asn His Leu Pro Ile Ser Lys Ala Leu Arg Asn His Arg Ile Cys Ala
 20 25 30

Val Arg Leu Val Lys Lys Thr Arg
 35 40

<210> 1575
 <211> 65
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1575

Arg Leu Arg Leu Phe Lys Arg Trp Leu Lys Leu Tyr Arg Gln Val Ala
 1 5 10 15

Leu Ile Ala Ala Ala Phe Arg Lys Lys Lys Asp Phe Ala Gln Ala His

20

25

30

Lys Thr Lys Leu Ala Met Pro Leu Lys Gly Lys Ala Arg Arg Thr Val
 35 40 45

Val Leu His Leu Met Glu Ala Cys Lys Arg Asp Arg Tyr Phe Leu Ala
 50 55 60

Leu
 65

<210> 1576
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1576

Arg Leu Lys Tyr Leu Arg Lys Leu Leu Arg Arg Tyr Lys Lys Ser Leu
 1 5 10 15

Ser Leu Leu Leu Trp Ser Arg Val Arg Glu Tyr Gly Ala
 20 25

<210> 1577
 <211> 56
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1577

Lys Leu Lys Phe Phe Asn Lys Ile Trp Arg Leu Leu Arg Pro Leu Leu
 1 5 10 15

Leu Leu Thr Lys Pro Tyr Leu Lys Cys Leu Phe Leu Arg Pro Phe Lys
 20 25 30

Asn Lys Ala Ser Phe Lys Gly Lys Asp Ala Lys Ala His Lys Leu Arg
 35 40 45

Phe Ala Val Ile Ala Lys Asn Ile
 50 55

<210> 1578
 <211> 59
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1578

Arg Leu Lys Leu Leu Lys Arg Ile Leu Lys Trp Trp Lys Lys Thr Met
 1 5 10 15

Thr Arg Lys Arg Leu Ala Lys Gly Ile Val Ala Pro Ala Lys Leu Thr
 20 25 30

Glu Ser Trp Ala Leu Cys Leu Ala Leu Tyr Gln Glu Tyr Arg Lys Ala
 35 40 45

Asn Phe Asp Arg Trp Leu Asn Arg Arg Met Pro
 50 55

<210> 1579
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1579

Arg Phe Arg Leu Leu Lys Lys Leu Leu Lys Arg Phe Thr His Ala Arg
 1 5 10 15

Glu Phe Thr Leu Gln Arg Trp His Gln
 20 25

<210> 1580
 <211> 38
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1580

Ile Tyr Arg Trp Phe Cys Arg Leu Trp Lys Leu Ile Arg Thr Ile Leu
 1 5 10 15

Arg Arg Gln Leu Lys Arg Arg Glu Ala Arg Ala Lys Ala Ala His Lys
 20 25 30

Ala Thr Ala His His Asn
 35

<210> 1581
 <211> 31
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1581

Trp Trp Lys Met Leu Lys Lys Ile Ile Lys Leu Leu Lys Arg Glu Ala
 1 5 10 15

Ala Asn Asn Cys Lys Ala Asp Ala Ala Cys Ala Val Arg Lys Tyr
 20 25 30

<210> 1582
 <211> 67
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1582

Arg Leu Arg Trp Leu Lys Arg Leu Tyr Arg Phe Phe Lys Cys Thr Thr
 1 5 10 15

Ile Ser Lys Leu Gln Lys Lys Leu Arg Asn Lys Leu Leu Ala Arg Thr
 20 25 30

Arg Cys Arg Arg Gly Lys Arg Gln Ala Gln Asp Leu Ala Leu Leu Pro
 35 40 45

Ala Gln Trp Arg Val Leu Tyr Met Trp Cys Lys Arg Pro Gln Cys Ala
 50 55 60

Cys Asn Ala
 65

<210> 1583

<211> 52
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1583

Arg Trp Arg Trp Phe Thr Lys Leu Tyr Arg Arg Leu Thr Lys Arg Arg
 1 5 10 15

Ala Ala Ile Phe Arg Gln Arg Ala Tyr Asn Ala Cys Arg Thr Thr Met
 20 25 30

Ala Tyr Lys Tyr Ile Lys Tyr Ala Ala Lys Phe Ala Ala Leu Gly Arg
 35 40 45

Leu Lys Cys Met
 50

<210> 1584
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1584

Leu Leu Arg Tyr Leu Ser Arg Phe Ile Lys Tyr Phe His Lys Glu Lys
 1 5 10 15

Ser Arg Ala Glu Leu Arg Arg Arg Arg Trp Lys Lys Ala Ala Leu Ala
 20 25 30

Lys Ala

<210> 1585
 <211> 42
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1585

Leu Met Lys Phe Leu His Arg Tyr Trp Lys Leu Trp Lys Lys Ala Gln

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<210> 1586
<211> 27
<212> PRT
<213> Artificial Sequence
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<220>
<223> Computer-generated peptide variant

Lys Val Lys Ser Cys Ala Gln Leu Ser Leu Lys
20 25

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<210> 1587
<211> 24
<212> PRT
<213> Artificial Sequence
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<220>
<223> Computer-generated peptide variant

Leu Tyr Lys Leu Leu Lys Arg Tyr Trp Lys Lys Met Arg His Ala Arg
1 5 10 15

Ala Cys Leu Asp Ala Lys Arg Pro
20

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<210> 1588
<211> 20
<212> PRT
<213> Artificial Sequence
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<220>
<223> Computer-generated peptide variant

Lys Tyr Lys Leu Tyr Lys Arg Tyr Met Lys Leu Met Asn Lys Met Ala

1 5 10 15

Lys Pro Ala Ala
20

<210> 1589
<211> 25
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 1589

Phe Leu Arg Leu Leu Arg Arg Leu Tyr Lys Arg Ile Lys Arg Lys His
1 5 10 15

Glu Gln Ala Pro Ala Phe Ser Pro Leu
20 25

<210> 1590
<211> 26
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 1590

Lys Leu Arg Leu Phe Ser Arg Leu Tyr Lys Phe Leu His Lys His Tyr
1 5 10 15

Asn Trp Phe Arg Leu Val Ala Ala Leu Arg
20 25

<210> 1591
<211> 67
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 1591

Met Met Arg Leu Ile Lys Arg Ile Trp Lys Trp Leu Arg Thr Val Arg
1 5 10 15

Lys Cys Asp Asp Ala Leu Arg Arg Glu Asp Ala Tyr Leu Leu Lys Ala

20

25

30

Leu Trp Thr Asn Lys Lys Thr Gln Leu Ala Lys Leu Cys Leu Arg Lys
 35 40 45

Arg Leu Leu Met Arg Trp Tyr Arg Leu Leu Met Glu Asp Gln Lys Tyr
 50 55 60

Val Ala Leu
 65

<210> 1592

<211> 100

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1592

Lys Tyr Arg Phe Phe Ser Arg Phe Leu Lys Trp Trp Gln Cys Lys Gly
 1 5 10 15

Leu Arg Lys Pro Lys Asn Ala Val Leu Ala Ile Leu Lys Arg Arg Gln
 20 25 30

Ala Lys Asp Thr Pro Glu Ala Gly Pro Trp Ala Lys Lys Leu Arg Lys
 35 40 45

Asn His Ala Lys Leu Tyr Arg Lys Leu Cys Arg Ala Lys Arg Leu Ala
 50 55 60

Pro Lys Glu Arg Leu Gly Ser Leu Ile Thr Phe Lys Gln Arg Cys Ser
 65 70 75 80

Ala Trp Ala Val Pro Ala Leu Ala Arg Ile Val Cys Arg His Leu Arg
 85 90 95

Leu Lys Tyr Thr
 100

<210> 1593

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1593

Ile	Trp	Arg	Tyr	Tyr	Thr	Arg	Met	Phe	Lys	Arg	Leu	Ser	Arg	Leu	Leu
1				5					10					15	

Ile	Leu	Met	Leu	Arg	Lys	Phe	Arg	Leu	Arg	Ala	Cys	Met	Thr	Arg	Gly
			20					25					30		

Ala Ala

<210> 1594

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1594

Trp	Leu	Arg	Leu	Leu	Thr	Lys	Leu	Leu	Arg	Lys	Leu	Arg	Lys	Leu	Lys
1				5					10					15	

Lys	Pro	Met	Ala	Asn	Cys	Thr
			20			

<210> 1595

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1595

Lys	Ile	Lys	Trp	Met	Pro	Arg	Leu	Leu	Lys	Leu	Leu	Lys	Pro	Lys	Ala
1				5					10					15	

Asp	Lys	Ser	Val	Gly	Lys	Arg	Asp	Ala	His	Ala	His
			20					25			

<210> 1596

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1596

Lys	Trp	Lys	Leu	Leu	Gln	Arg	Leu	Leu	Lys	Arg	Met	Lys	Ser	Leu	Cys
1				5					10					15	

Trp	Lys	Lys	Leu	Asp	Pro	Leu	Val	Lys	Met	Thr
			20					25		

<210> 1597

<211> 38

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1597

Leu	Leu	Arg	Leu	Trp	Arg	Arg	Leu	Met	Lys	Lys	Leu	His	Arg	Arg	Val
1				5					10					15	

Ala	Phe	Glu	His	Ala	Tyr	Pro	Ala	Lys	Ala	Tyr	Lys	Trp	Leu	Gly	Ala
			20					25					30		

Gln	Ala	Arg	Glu	Leu	Thr
					35

<210> 1598

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1598

Trp	Leu	Arg	Phe	Phe	Arg	Lys	Phe	Phe	Lys	Met	Leu	Thr	Ser	Lys	Met
1				5					10					15	

Ala	Ala	Ala	Ala
			20

<210> 1599

<211> 70

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1599

Lys	Phe	Lys	Leu	Leu	Pro	Lys	Leu	Ile	Arg	Leu	Trp	Lys	Arg	Asp	Arg
1				5					10					15	

Asp	Trp	Leu	Ala	Ser	Leu	Arg	Thr	Leu	Leu	Ala	Leu	Gly	Leu	Lys	Arg
			20					25					30		

Ala	Trp	Lys	Asn	Ile	Ile	Arg	Met	Leu	Asp	Gly	Lys	Glu	Arg	Gly	Gln
		35					40					45			

Ser	Leu	Ile	Leu	Leu	Cys	Phe	Arg	Leu	Arg	Arg	Lys	Leu	Ile	Lys	Tyr
	50					55					60				

Val	Ala	Lys	Asn	Lys	Lys
65				70	

<210> 1600

<211> 41

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1600

Leu	Trp	Lys	Met	Leu	Lys	Lys	Phe	Leu	Arg	Lys	Leu	Asn	Pro	Leu	Trp
1				5					10					15	

Glu	Leu	Lys	Lys	Phe	Pro	Ala	Leu	Cys	Asp	Leu	Ala	Leu	Arg	Lys	Leu
			20					25					30		

Gly	Trp	Glu	Asp	Tyr	Thr	Lys	Arg	Ala
		35					40	

<210> 1601

<211> 39

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1601

Lys	Met	Arg	Leu	Phe	Lys	Arg	Phe	Leu	Arg	Lys	Trp	Ser	Arg	Ala	Trp
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

<210>	1602
<211>	33
<212>	PRT
<213>	Artificial Sequence
<220>	
<223>	Computer-generated peptide variant
<400>	1602

Ala Cys Leu Arg Asp Leu Cys Ile Ala Lys Tyr Leu Asn Arg Thr Leu
20 25 30

<210>	1603
<211>	41
<212>	PRT
<213>	Artificial Sequence
<220>	
<223>	Computer-generated peptide variant
<400>	1603

Lys Ala Ser Leu Arg Thr Arg Phe Tyr Lys Asp Leu Pro Ala Tyr Cys
20 25 30

$\langle 210 \rangle$	1604
$\langle 211 \rangle$	29
$\langle 212 \rangle$	PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1604

Phe Phe Arg Met Phe Lys Arg Met Trp Arg Leu Leu Arg Arg Glu Ala
1 5 10 15

Asn Ile Pro Ala Ala Leu Pro Leu Thr Arg Arg Leu His
20 25

<210> 1605

<211> 61

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1605

Arg Leu Arg Tyr Leu Lys Arg Leu Met Lys Arg Tyr Arg Lys Leu Pro
1 5 10 15

Met Ala Arg Arg Thr Val Arg Asp Ala Tyr Arg Leu Leu Leu Thr Arg
20 25 30

Arg Ser Cys His Pro Ala Leu Ala Met Leu Leu Ala Glu His Tyr His
35 40 45

Arg Pro Ala Trp Tyr Arg Tyr Lys Ile Lys Leu Lys Tyr
50 55 60

<210> 1606

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1606

Arg Met Lys Leu Leu Thr Arg Leu Leu Arg Tyr Leu Lys Arg Leu Gly
1 5 10 15

Ala Val Glu Arg Lys Leu Ala Ala Gln Pro Asn Leu Asn Trp Trp Gln
20 25 30

Arg Ile

<210> 1607

<211> 92

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1607

Lys Phe Lys Met Leu His Lys Leu Trp Lys Lys Phe Cys Lys Asp His
1 5 10 15

Phe Arg Leu Arg Ala Glu Cys Gln Cys His Glu Lys Ser Lys His Leu
20 25 30

Leu Lys Leu Arg Leu Glu Thr Lys Leu Ile Lys Thr Ala Arg Met Arg
35 40 45

Lys Leu Ala Lys Ala Gln Tyr Ala Ala Arg Val Val Leu Cys Thr Lys
50 55 60

His Tyr Lys Arg Ser Lys His Thr Leu Leu Arg Lys Tyr Leu Pro Leu
65 70 75 80

Ala Arg Ala Ala Lys Leu Pro Lys Glu His Lys Arg
85 90

<210> 1608

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1608

Leu Phe Lys Phe Leu Thr Lys Met Leu Arg Lys Phe His Asn Ile Leu
1 5 10 15

Arg Ser Ala Ile Tyr Lys Arg Lys Leu Asp Glu Leu Arg Ala Gly Ala
20 25 30

Leu

<210> 1609
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1609

Trp Leu Arg Phe Leu Arg Lys Leu Ile Lys Leu Phe Thr Lys Pro Leu
 1 5 10 15

Gln Lys Ser Gln Phe Arg Leu Ala
 20

<210> 1610
 <211> 63
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1610

Lys Phe Lys Phe Phe His Lys Phe Leu Lys Leu Met Lys Thr Glu Ser
 1 5 10 15

Leu Trp Arg Ala Trp Thr Leu Trp Lys Met Ala Ala Glu Lys Ala Thr
 20 25 30

Arg Ala Asn Ser Leu Lys Phe Lys Ala Ile Leu Arg Ala Lys Lys Pro
 35 40 45

Ala Leu Asp Cys Leu Leu Leu Phe Gly His Leu Phe Lys Ala Glu
 50 55 60

<210> 1611
 <211> 85
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1611

Met Trp Arg Leu Leu Arg Lys Phe Leu Arg Lys Leu Lys Pro Arg Trp

<210>	1612
<211>	30
<212>	PRT
<213>	Artificial Sequence
<220>	
<223>	Computer-generated peptide variant
<400>	1612

Met Phe Lys Leu Trp Lys Lys Phe Leu Arg Arg Met Lys Arg Ala Lys
1 5 10 15

Ala Leu Val Ala Val Lys Trp Gln Leu Ala Asp Lys Leu Lys
20 25 30

<210>	1613
<211>	28
<212>	PRT
<213>	Artificial Sequence
<220>	
<223>	Computer-generated peptide variant
<400>	1613

Phe Leu Arg Leu Phe Lys Arg Leu Leu Lys Arg Leu Thr Cys Asp Arg
1 5 10 15

Ala Gly Ala His Ser Ser Gly Lys Arg Phe Leu Ala
20 25

<210> 1614
 <211> 44
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1614

Phe Ile Lys Leu Phe His Lys Leu Trp Arg Tyr Ile Arg Asn Asn Asp
 1 5 10 15

Trp Leu Leu Ala Lys Lys Leu Leu Lys Thr Arg Arg Phe Arg Arg Lys
 20 25 30

Ala Ala Asn Lys Ala Gly Cys Asp Cys Leu Gly Arg
 35 40

<210> 1615
 <211> 37
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1615

Arg Leu Lys Leu Leu Lys Arg Leu Ile Lys Arg Leu Lys His Ala Ala
 1 5 10 15

Leu Lys Ala His Ala Trp Arg Lys Ala Cys Arg Ser Asp Tyr Pro Phe
 20 25 30

Leu His Gln Trp Leu
 35

<210> 1616
 <211> 66
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1616

Lys Trp Arg Leu Ile Thr Arg Leu Met Lys Lys Phe Lys Cys Arg Leu
 1 5 10 15

Cys Lys Asp Leu Trp His Lys Glu His His Ala Ala Glu Leu Arg Tyr
 20 25 30

Pro Lys Ala Lys Cys Ala Lys Ala Trp Ala Leu Lys Cys Lys Lys Leu
 35 40 45

Lys Asn Lys Glu Ala Arg Trp Lys Ser Thr Leu Leu Leu Gly Lys His
 50 55 60

Leu Phe
 65

<210> 1617
 <211> 66
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1617

Arg Leu Arg Leu Trp Arg Arg Phe Tyr Arg Leu Phe Asn His Val Ala
 1 5 10 15

Lys Lys Lys Lys Trp Phe Tyr Glu Ala Leu Lys Leu Leu Ala Phe Arg
 20 25 30

Cys Ile Gly Phe Arg Cys Ala Ala Lys Ala Cys Asp Lys Tyr Met Thr
 35 40 45

Leu Lys Ala Glu Lys Lys Gln Met Trp Met Gly Lys Lys Lys Ala Gly
 50 55 60

Ala Lys
 65

<210> 1618
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1618

Arg Leu Arg Leu Trp Lys Arg Trp Leu Arg Leu Phe Arg His Cys Pro


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<210> 1619
<211> 42
<212> PRT
<213> Artificial Sequence
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<400> 1619

Gln Leu Ser Lys Lys Met Tyr Ala Thr Leu Leu Pro Gly Arg Ala Asp
20 25 30

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<210> 1620
<211> 41
<212> PRT
<213> Artificial Sequence
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<400> 1620

Leu Thr Lys Ser Leu Arg Ala Leu Arg Ser Ala Lys Arg His Leu Leu
20 25 30

$\langle 210 \rangle$	1621
$\langle 211 \rangle$	38
$\langle 212 \rangle$	PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1621

Phe	Leu	Arg	Leu	Leu	Lys	Lys	Phe	Tyr	Arg	Arg	Phe	Lys	His	Leu	Tyr
1				5					10					15	

Ala	Arg	Pro	Thr	Ile	Ala	Ile	Arg	Leu	Leu	Ala	Cys	Ile	Arg	Leu	Ser
			20					25						30	

Trp	Leu	Ala	Lys	Lys	Phe
					35

<210> 1622

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1622

Lys	Leu	Arg	Leu	Leu	His	Arg	Tyr	Phe	Lys	Arg	Tyr	Lys	Arg	Leu	Lys
1				5					10					15	

Leu	Gly	Ala	Lys	Leu	Ala	Leu	Asp	Leu	Gln	Arg	Gly	Leu	Arg	Lys	Met
			20					25					30		

<210> 1623

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1623

Trp	Met	Arg	Leu	Leu	Pro	Arg	Trp	Leu	Arg	Lys	Leu	Arg	Arg	Ala	Gly
1				5					10					15	

Leu	Trp	Arg	Gln	Lys	Ala	Ala	Arg	Gly	Tyr	Ser	Met	Cys	Arg	Met	Ala
			20					25					30		

Leu	Arg	His	Arg
			35

<210> 1624
 <211> 26
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1624

Phe Met Arg Phe Leu Cys Lys Leu Trp Arg Leu Leu Lys Thr Ala Lys
 1 5 10 15

Lys Lys Val Leu Ile Ala Arg Ala Glu Phe
 20 25

<210> 1625
 <211> 56
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1625

Trp Ile Lys Tyr Leu Arg Lys Leu Leu Lys Arg Ile Arg Lys Cys Ala
 1 5 10 15

Asn Gly Gln Leu Leu Cys Pro Lys Ser Val Met Met Ala His Arg Lys
 20 25 30

Arg Tyr Ala Phe Trp Pro Arg Gly Leu Lys Tyr Leu Ala Leu Ala Lys
 35 40 45

Lys Gln Arg Ala Ile Lys Thr Ile
 50 55

<210> 1626
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1626

Phe Phe Arg Trp Leu Asn Lys Trp Leu Lys Leu Phe Arg Arg Ala Ser
 1 5 10 15

Tyr Arg Ala His
20

<210> 1627
<211> 89
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 1627

Leu Tyr Arg Phe Leu Cys Lys Ile Phe Lys Phe Trp Lys Lys Asn Ala
1 5 10 15

Phe Pro Arg Thr Arg Lys Arg Met Lys Cys Thr Ala Asp Met Tyr Tyr
20 25 30

Arg Lys Pro Thr Met Ala Leu Leu Lys Ala Lys Arg Lys Leu Met Phe
35 40 45

Pro Lys Leu Glu Arg Arg Ala Leu Leu Gln Arg Pro Asn Leu Arg Pro
50 55 60

Asp Leu Leu Leu Val Ile Met Leu Leu Val Ala Lys Asn Glu Glu Met
65 70 75 80

Lys Lys Val Ala Leu Lys Arg Arg Cys
85

<210> 1628
<211> 33
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 1628

Leu Leu Arg Leu Phe Ser Arg Leu Phe Arg Lys Trp Lys Lys Ile Asn
1 5 10 15

Gln Phe Leu Arg Thr Met His Arg Arg Leu Leu Arg Leu His Tyr Cys
20 25 30

Leu

<210> 1629
 <211> 74
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1629

Leu Phe Arg Leu Trp Cys Arg Met Leu Arg Arg Leu Cys Arg Leu His
 1 5 10 15

Ile Ser Lys Arg Ala Ala Thr Tyr Leu Met Met Gly Glu His Ala Ala
 20 25 30

Gln Gln Leu Asp Asp Ile Lys Ser His Phe Ser Arg Lys Arg Ala Arg
 35 40 45

Arg Pro Ala Thr Ala Arg Trp Ala Leu Lys Ala Arg Ala Phe Leu Gln
 50 55 60

Asn Lys Lys Phe Ser Met Leu Lys Leu Arg
 65 70

<210> 1630
 <211> 85
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1630

Lys Ile Arg Met Leu Arg Arg Leu Phe Arg Arg Phe Lys Arg Asp Arg
 1 5 10 15

Cys Pro Phe Leu Lys Leu His Ala Gly Leu Ala Arg Asp Lys Arg His
 20 25 30

Glu Asp Gln Thr Trp Lys Ala Thr Phe Leu Arg Lys Arg Phe Val Val
 35 40 45

Lys Leu Leu Lys Gly Ala Asp Ala Ala Glu Ala Ser Met Ala Asp Ala
 50 55 60

Lys Leu Lys Val Leu Lys Glu Phe Phe Ala Lys Leu Ser Gly Ala Gly
 65 70 75 80

Arg Arg Trp Leu Cys
 85

<210> 1631
 <211> 27
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1631

Leu Tyr Lys Phe Leu Lys Arg Trp Ile Arg Lys Phe Pro Lys Ser Leu
 1 5 10 15

Leu Ile Ala Thr Ala Arg Ala Arg Ala Gln Leu
 20 25

<210> 1632
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1632

Leu Trp Lys Leu Trp Asn Arg Leu Trp Lys Lys Tyr His Gln Trp Ala
 1 5 10 15

Lys Lys Arg Ala Met Leu Ala Phe Ala Lys Asn Ile Arg Cys
 20 25 30

<210> 1633
 <211> 31
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1633

Tyr Met Lys Met Leu Arg Lys Leu Leu Lys Lys Leu Lys Arg Lys Ala
 1 5 10 15

Tyr Ser Leu Arg Gly Thr Leu Ala Thr Lys Gln Leu Lys Trp Val
 20 25 30

<210> 1634
 <211> 58
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1634

Lys Leu Lys Leu Phe Thr Lys Ile Phe Lys Met Leu Lys Cys Met Trp
 1 5 10 15

Thr Lys Ala Ala Lys Tyr Leu Arg Ala Asn Gly Ile Arg Gly Asn Ala
 20 25 30

Lys Ala Arg Ala His Gly Leu Gly Gly Ala Ala His Arg Gln Lys Ala
 35 40 45

Leu Leu Ile Ala Tyr Glu Asn Lys Asn Ala
 50 55

<210> 1635
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1635

Lys Phe Arg Trp Met Arg Lys Phe Phe Arg Arg Phe Lys Arg Ala Met
 1 5 10 15

Tyr Pro Ala Leu Leu Lys Lys His Lys Ala Cys Ser Leu Tyr Ala Ala
 20 25 30

Gly

<210> 1636
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1636

Arg	Phe	Arg	Tyr	Ile	Ser	Arg	Leu	Tyr	Arg	Arg	Ile	Gln	Thr	Met	Arg
1				5				10						15	

Ser	Ala	Ala	Leu	Ala	Lys	Leu	Leu	Pro
			20				25	

<210> 1637

<211> 72

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1637

Arg	Tyr	Arg	Tyr	Tyr	Arg	Lys	Leu	Trp	Arg	Arg	Tyr	Lys	Arg	Leu	Val
1				5				10						15	

Ser	Arg	Ala	Lys	Gly	Arg	Ser	Arg	Asn	Leu	Gly	Leu	Thr	Ala	Ala	Ala
			20					25					30		

Gly	Val	Cys	Leu	Lys	Met	Ser	Asn	Val	Ala	Trp	Asp	Ala	His	Leu	Phe
		35					40					45			

Ala	Ile	Pro	Ala	Leu	Arg	Trp	Arg	Cys	Ala	Arg	Pro	Lys	Ala	Ala	Arg
	50					55					60				

Lys	Asp	Arg	Pro	Ser	Ala	Trp	Leu
65					70		

<210> 1638

<211> 43

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1638

Lys	Leu	Lys	Leu	Leu	Lys	Arg	Leu	Trp	Arg	Phe	Tyr	Gln	Lys	Leu	Trp
1				5				10						15	

Ala	Lys	Leu	Cys	Asp	His	Val	Leu	Lys	Gly	Val	Pro	Lys	Leu	Glu	Tyr
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

20

25

30

Ala Ser Leu Gln Lys Trp Val Lys His Ala Leu
 35 40

<210> 1639
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1639

Lys Leu Arg Tyr Leu Asn Arg Phe Tyr Lys Met Leu Arg Gln Arg Ala
 1 5 10 15

Lys Thr Leu Ala Thr Ile Asp
 20

<210> 1640
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1640

Arg Phe Lys Leu Ile Ser Lys Trp Leu Lys Leu Phe Thr Arg Glu Cys
 1 5 10 15

Ala Arg Leu Arg
 20

<210> 1641
 <211> 75
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1641

Lys Leu Arg Met Phe Lys Lys Ile Leu Lys Lys Leu Gln Ser Lys Asn
 1 5 10 15

Val Tyr Lys Leu Leu Ala Tyr Leu Pro Arg Arg Trp Gln Leu Ser Ala

20

25

30

Lys Lys Thr Leu Lys Leu His Arg Arg Ala Met Glu Gly Phe Trp Leu
 35 40 45

Ala Arg Lys Trp Arg Lys Arg Ala Asn Gln Arg Ala Asp Tyr Lys Trp
 50 55 60

Phe Arg Leu Leu His Trp Ala His Trp Gln Trp
 65 70 75

<210> 1642

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1642

Arg Leu Lys Leu Met Pro Lys Leu Phe Arg Lys Leu Arg Thr Ala Thr
 1 5 10 15

Asn Leu Ala Trp Asn Gly Val Leu Asn Lys
 20 25

<210> 1643

<211> 49

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1643

Leu Met Lys Leu Ile Arg Arg Phe Tyr Lys Arg Leu Lys Arg Cys His
 1 5 10 15

Phe Thr Trp Trp Leu Thr Asn Lys Leu Leu Arg Asn Arg Lys Met Phe
 20 25 30

Lys Asn Arg Arg His Glu Leu Cys Ala Arg Asp Cys Ala Ala Ala Ala
 35 40 45

Met

<210> 1644
 <211> 81
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1644

Lys Leu Arg Met Leu Arg Lys Leu Phe Arg Arg Met Lys Lys Arg Arg
 1 5 10 15

Ser Ser Lys Ala Gly Met Arg Trp Lys Lys Leu Tyr Leu Glu His Arg
 20 25 30

Leu Met Ser Leu Val Ala Lys Val Ala Gln Ala Asn Leu Arg Pro Glu
 35 40 45

Tyr Leu Lys Ala Cys His Leu Phe Leu Lys Cys His Ala Ser Arg Asn
 50 55 60

Ile Gln Met Arg His Gly Lys Ala Gly Arg Ala Ser Arg Lys Trp Asn
 65 70 75 80

Arg

<210> 1645
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1645

Trp Phe Lys Leu Leu Pro Lys Leu Phe Lys Leu Leu Lys Gln Ala His
 1 5 10 15

Tyr Lys Leu Trp Gly Leu Leu Ala Thr His Arg Thr Lys Met Trp Asp
 20 25 30

Lys Asp Lys Ala
 35

<210> 1646

<211> 41
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1646

Lys Met Lys Tyr Phe Lys Arg Tyr Met Lys Arg Leu Arg Gln Ala Tyr
 1 5 10 15

Leu Leu Phe Ala Leu Gln Ser Arg His Leu Pro Leu Ala Arg His Met
 20 25 30

Leu Met Val Lys Ala Trp Leu Arg Ala
 35 40

<210> 1647
 <211> 43
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1647

Phe Tyr Lys Leu Phe Asn Lys Leu Leu Lys Arg Ile Arg Arg Trp Pro
 1 5 10 15

Leu Ser His Ala Leu Ile Lys Leu Ala Ala Tyr Lys Leu Arg Cys Leu
 20 25 30

Lys Ala Lys Gln Thr Cys Val Ala Val His Arg
 35 40

<210> 1648
 <211> 38
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1648

Arg Trp Arg Trp Ile Lys Arg Leu Ile Lys Leu Trp Gln Lys Leu Lys
 1 5 10 15

Gln Ala Thr Ala Trp Ala Lys Pro Arg Ala Leu Asn Glu Lys Cys Ser

20

25

30

Lys Asn Arg Asn His Leu
35

<210> 1649
<211> 43
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 1649

Lys Phe Lys Leu Phe Lys Lys Leu Leu Arg Arg Ile Thr Lys Trp Arg
1 5 10 15

Phe Ser Leu Trp Pro Lys Leu Thr Pro Leu Leu Arg Ala Lys Ile Arg
20 25 30

Tyr Ala Pro Phe Ala Gly Val Lys Phe Lys Met
35 40

<210> 1650
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 1650

Arg Phe Arg Leu Ile His Arg Tyr Leu Lys Leu Phe Asn Arg Ala Cys
1 5 10 15

Arg Phe Ala Ala Val Ile Lys
20

<210> 1651
<211> 65
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 1651

Phe Leu Arg Trp Phe Lys Arg Tyr Tyr Arg Lys Phe Lys Asn Thr Glu

1					5					10					15				
His	Lys	Leu	Arg	Arg	Ile	Ala	Ile	Leu	Asp	Leu	Glu	Lys	Trp	Trp	Phe				
			20					25					30						
Met	Ala	Arg	Arg	Lys	Lys	Lys	Leu	Ala	Ala	Gly	Leu	Lys	Phe	Lys	Ser				
		35					40					45							
Ile	Ala	Leu	His	Arg	Ile	Arg	Val	Lys	Leu	Ser	Ile	Arg	Ala	Cys	Trp				
	50					55					60								

Ala
65

<210>	1652
<211>	25
<212>	PRT
<213>	Artificial Sequence
<220>	
<223>	Computer-generated peptide variant
<400>	1652

Lys Leu Arg Leu Leu Ser Lys Leu Ile Lys Lys Ile Lys His Phe Met
1 5 10 15

Met Gln Leu Ala Cys Ala Arg Lys Phe
20 25

<210>	1653
<211>	73
<212>	PRT
<213>	Artificial Sequence
<220>	
<223>	Computer-generated peptide variant
<400>	1653

Lys Tyr Arg Phe Leu Lys Arg Phe Tyr Arg Lys Leu Lys Lys Met Ala
1 5 10 15

Val Trp Leu Lys Cys Leu Arg Arg Tyr Phe Leu Lys Trp Ala Ala Lys
20 25 30

Ala Leu Met Leu Thr Ala Ser Lys Arg Cys Gln Lys Val Lys Ala Arg
35 40 45

Gly Ala Asn Cys Arg Arg Met Ala Arg His Arg Ser Gln Phe Ala Ala
 50 55 60

Met Lys Asp Asn Leu Thr Ala Pro Lys
 65 70

<210> 1654
 <211> 94
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1654

Lys Leu Arg Leu Leu Arg Arg Trp Leu Lys Arg Leu Ser His Leu Ile
 1 5 10 15

Lys Leu Ala Tyr Lys Arg Arg Lys Thr Lys Arg Cys Val Arg Cys Cys
 20 25 30

Arg Thr Leu Arg Arg His Lys Asp Arg Leu Trp Arg Gly Cys Arg Phe
 35 40 45

Leu Gln Lys Ala Gln Val Ala Ala Ala Ala Ala His Lys Lys Ala Gln
 50 55 60

Gly Lys Arg Glu Tyr Gln Arg Cys Leu Leu Pro Thr Tyr Ala Leu Tyr
 65 70 75 80

Phe Leu Lys Asp Arg Lys Lys Lys Leu Ala Cys Lys Arg Ile
 85 90

<210> 1655
 <211> 41
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1655

Tyr Ile Arg Tyr Leu Arg Arg Ile Leu Arg Lys Leu Thr Arg Lys Ala
 1 5 10 15

Ser Leu Arg Lys Leu Tyr Lys Ala Asp Tyr Thr Leu Gln Phe His Ala

20

25

30

Ala Ser Met Leu Leu Leu Arg Phe Thr
 35 40

<210> 1656
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1656

Arg Phe Lys Leu Leu Gln Lys Leu Met Lys Phe Ile Lys Asn Phe Phe
 1 5 10 15

Gly Leu Pro Arg Asp Lys Leu His Thr Gln Lys Leu Leu Arg Lys Ala
 20 25 30

<210> 1657
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1657

Lys Leu Lys Tyr Phe Asn Lys Leu Leu Lys Phe Trp Cys Ser Leu Leu
 1 5 10 15

Arg Lys Arg Thr Cys Arg Glu Asn Leu
 20 25

<210> 1658
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1658

Arg Trp Arg Ile Ile Arg Arg Trp Phe Arg Arg Met Arg Ser Arg Asn
 1 5 10 15

Gly Glu Leu Leu Ala Leu Leu Asn Ala Ala Leu Arg Arg Pro Arg Leu

20

25

30

<210> 1659

<211> 47

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1659

Lys Leu Lys Phe Ile Arg Lys Tyr Tyr Lys Leu Leu Lys Lys Ile Lys
 1 5 10 15

Asn Gln Arg Trp Phe Gly Arg Lys Lys Arg Met Ala Ala Met Lys Arg
 20 25 30

Tyr Leu Ala Ala Trp Glu Ala Ala Leu Ala Leu Lys Glu Gly Asn
 35 40 45

<210> 1660

<211> 47

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1660

Lys Phe Lys Leu Tyr Lys Lys Leu Phe Lys Trp Leu Ser His Arg Ala
 1 5 10 15

Leu Arg Trp Lys Asp Arg Leu Lys Ala Ala Ser Ala Pro Phe Phe Trp
 20 25 30

Arg Asn Ala Tyr Tyr Lys Lys Thr Trp Asn Thr Leu Leu Leu Phe
 35 40 45

<210> 1661

<211> 45

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1661

Arg Phe Arg Phe Leu Lys Lys Leu Leu Lys Phe Tyr Arg Pro Pro Ala

1 5 10 15

Leu Lys Ala Gln Lys Leu Asn Leu Lys Ala Asp Met Ala Pro Ile Cys
20 25 30

Val Leu Lys Arg Leu Leu Tyr Trp Asn Tyr Ala Cys Thr
35 40 45

<210> 1662
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 1662

Leu Tyr Lys Trp Leu Arg Arg Trp Leu Lys Arg Trp Thr His Leu Arg
1 5 10 15

Met Arg Ile Leu Thr Arg Arg Ala Ile Pro Ala Pro
20 25

<210> 1663
<211> 31
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 1663

Met Leu Lys Tyr Trp His Lys Phe Met Lys Leu Trp Cys Arg Lys Glu
1 5 10 15

Gln Ala Ala Leu Met Leu Asp Lys Arg Leu Leu Lys Leu Leu Met
20 25 30

<210> 1664
<211> 48
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 1664

Phe Leu Arg Leu Ile Arg Lys Leu Leu Arg Leu Trp Pro Ser His Ile

1 5 10 15

Ala Ala Ala Asp Arg Lys Arg Leu Lys Gln Gly Gly Ala Ile His Arg
20 25 30

Arg Cys Thr Lys Leu Arg Lys Trp Cys Ile Arg Ala Leu Val Leu Ala
35 40 45

<210> 1665

<211> 60

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1665

Tyr Leu Arg Phe Leu Lys Arg Met Tyr Lys Phe Leu Arg Lys Leu Ala
1 5 10 15

Gly Leu Val Tyr Gly Asn Leu Leu Arg Gly Leu Ile Lys Gln Lys Ala
20 25 30

Val Leu Arg Trp Pro Tyr His Lys His Asp Arg Glu Lys Ala Pro Lys
35 40 45

Gly Thr Lys Arg His Ala Ala Ala Tyr Leu Arg
50 55 60

<210> 1666

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1666

Phe Phe Lys Leu Leu Arg Lys Leu Trp Lys Trp Phe Thr Arg Ala Ala
1 5 10 15

Pro Lys Ala Ala
20

<210> 1667

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1667

Arg Leu Lys Leu Trp Lys Lys Ile Phe Lys Leu Ile His Ser Ala Arg
1 5 10 15

Glu Leu Lys Tyr
20

<210> 1668

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1668

Arg Tyr Arg Tyr Tyr His Lys Leu Leu Lys Phe Leu Cys Lys Ile Trp
1 5 10 15

Arg Lys Lys His Ala Leu Cys Lys Ala Ala Cys Lys Phe Cys
20 25 30

<210> 1669

<211> 73

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1669

Arg Trp Arg Tyr Met Arg Lys Ile Leu Arg Lys Phe Lys Lys Pro Lys
1 5 10 15

Val Leu Lys Cys Met Arg Leu Leu Gln Thr Leu Val His Asn Tyr Lys
20 25 30

Ala Lys Leu His Ala Arg Leu Asp Thr Gly Ala Arg Ala Phe Trp Lys
35 40 45

Ala Ala Glu Lys Ser Ala Ala Ile Cys Pro Phe Leu Leu Lys Arg Asn
50 55 60

Tyr Arg Lys Lys Ala Lys Lys Ala Lys
65 70

<210> 1670
<211> 73
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 1670

Arg Leu Lys Ile Leu Ser Arg Leu Ile Lys Trp Leu Lys Lys Ala Ala
1 5 10 15

Arg Arg Lys Pro Glu Ala Tyr Ala Leu Trp Pro Ala Lys Lys Gly Trp
20 25 30

Trp Trp Asp Tyr Gln Arg Trp Leu Ala Met Leu Ala Leu Ile Leu Cys
35 40 45

Ala Asp Glu Ala Trp Leu Val Arg Val Arg Thr Asp Ala Arg Ser Arg
50 55 60

Ile Phe Lys Lys Lys Cys Ala Leu Trp
65 70

<210> 1671
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 1671

Lys Tyr Lys Phe Leu Lys Lys Leu Leu Lys Ile Leu Arg Arg Tyr Gln
1 5 10 15

Leu Arg Lys Leu Leu Val Ile
20

<210> 1672
<211> 40
<212> PRT
<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1672

Tyr Tyr Lys Leu Trp Arg Arg Phe Ile Arg Lys Tyr Pro Lys Leu Pro
 1 5 10 15

Arg Arg Asp Lys Ala His Ala Glu Arg Gln Ile Lys Arg Ala Trp Leu
 20 25 30

Lys Thr Gly Leu Ala Thr Ile Leu
 35 40

<210> 1673

<211> 64

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1673

Lys Met Lys Leu Leu Lys Arg Phe Leu Lys Lys Met Pro Arg Pro Lys
 1 5 10 15

Ala Arg Ala Asp Lys Gly Gly Trp Ala Glu Ser Gly Leu Lys Ala Arg
 20 25 30

Ala Met Arg Leu Leu Ala Cys Ala Tyr Gly Cys Met Pro Leu Leu Lys
 35 40 45

Ala Lys Lys Val Arg Lys Arg Tyr Gln Cys Arg Ile Gln Leu Ala Ile
 50 55 60

<210> 1674

<211> 53

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1674

Phe Ile Arg Leu Leu Arg Arg Phe Phe Arg Leu Trp Arg Lys Lys Arg
 1 5 10 15

Leu Ala Thr Ala Gln Gly Trp Ser Lys Met Arg Val Leu Glu Leu Asn

20

25

30

Glu Cys Ala Arg Leu Lys Arg Arg Gln Lys Cys Lys Arg Lys Ala Ala
 35 40 45

Leu Leu Leu Leu Lys
 50

<210> 1675

<211> 42

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1675

Arg Leu Arg Met Ile Lys Arg Leu Met Arg Lys Trp Pro Lys Arg Gln
 1 5 10 15

Ala Arg Ile His Gly Leu Ala Leu Ala Ala Leu Glu Asp Leu Asn Phe
 20 25 30

Tyr Ala Leu Asn Phe Ile His Leu Arg Arg
 35 40

<210> 1676

<211> 57

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1676

Tyr Phe Arg Leu Trp Arg Lys Leu Tyr Arg Lys Ile Lys Lys Phe Glu
 1 5 10 15

Leu Lys Thr Gln Arg Lys Cys His Thr Arg Ala Val Val Ala Phe Leu
 20 25 30

Arg Arg Ala Ala Lys Asn Ile Gln Leu Ala Ala Asp Leu Arg Ala Lys
 35 40 45

Leu Gln Gly Phe Phe His Ala Ile Lys
 50 55

<210> 1677
 <211> 98
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1677

Arg Phe Lys Phe Phe His Arg Met Leu Lys Lys Met Cys Arg Arg Leu
 1 5 10 15

Leu Arg Tyr Gly Arg Leu Arg Lys Leu Leu Ala Gln Lys Val Ala Ile
 20 25 30

Arg Cys Met Leu Leu Leu Val Leu Ser Tyr Gln Arg Ala Ala Met Asp
 35 40 45

Leu Ala Trp Lys Lys Asp Ala Val Lys Ala Leu Phe Glu Met Ala Arg
 50 55 60

Pro Arg Leu Lys Arg Asn Ser Met Arg Leu Leu Lys Pro Gln Val Lys
 65 70 75 80

Arg Arg Leu Leu Tyr Ala Pro Val Met Val Arg Ile Ala Ala Lys Val
 85 90 95

Tyr Tyr

<210> 1678
 <211> 62
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1678

Lys Leu Arg Met Trp Ser Lys Phe Ile Arg Ile Tyr Cys Arg Ala Arg
 1 5 10 15

Leu Phe Arg Lys Arg Phe Asp Leu Tyr Ala Lys Arg Ala Ala Arg Ala
 20 25 30

Leu Val Cys Ala Asp Ala Phe Cys Ala Ile Leu Pro Arg Val Leu Arg

35

40

45

Met Gln Cys Arg Ala Ser Leu Lys Leu Glu Ala Lys Leu Ala
 50 55 60

<210> 1679

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1679

Trp Leu Arg Trp Ile Arg Lys Leu Leu Arg Lys Ile Arg Lys Asp Pro
 1 5 10 15

Tyr Ala His Thr Leu Leu Lys Leu Asn Leu Phe Arg Ala
 20 25

<210> 1680

<211> 85

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1680

Arg Phe Arg Met Leu Ser Arg Leu Phe Arg Arg Met Lys Arg Arg Ala
 1 5 10 15

Leu Ile Lys Ala Glu Arg Lys Ala Ala Leu His Arg Met Arg Arg Leu
 20 25 30

Asp Arg Ala Phe Lys Arg Asn Arg Val Pro Ala Lys Met Ile Asp Asn
 35 40 45

Ile Lys Asn Glu Ser Gly Asn Cys Pro Ala Trp Pro Ala Leu Asn Leu
 50 55 60

Asp Thr Ala Arg Lys Arg Lys Pro Leu Tyr Arg Ala Leu Ala Ala Met
 65 70 75 80

Ser Trp Leu Leu Arg
 85

<210> 1681
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1681

Ile Leu Lys Tyr Leu Ser Lys Trp Met Lys Trp Phe Thr Lys Glu Leu
 1 5 10 15

Leu Asp Gln Asn Arg Ala Arg Lys Arg Ala Lys His Ala
 20 25

<210> 1682
 <211> 51
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1682

Arg Tyr Arg Leu Leu Lys Lys Phe Met Arg Arg Tyr Arg Arg Lys Asn
 1 5 10 15

Asp Ala Pro Ser Tyr Leu Trp His Lys Trp Gln Ile Ala Ala Leu Leu
 20 25 30

Glu Ala Arg Met Arg Met Arg Ala Leu Cys Met Ala Pro Leu Lys Arg
 35 40 45

Lys Ile Asn
 50

<210> 1683
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1683

Arg Tyr Arg Leu Trp Arg Arg Ile Tyr Lys Phe Leu Arg Arg Arg Phe
 1 5 10 15

Trp His His Trp Thr Leu Leu Lys Arg His Leu Glu Ala Ala
20 25 30

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<210> 1684
<211> 26
<212> PRT
<213> Artificial Sequence
```

<220>
<223> Computer-generated peptide variant

<400> 1684

Leu Leu Arg Phe Leu Lys Lys Leu Ile Lys Arg Leu Arg Arg Leu Met
1 5 10 15

His Arg Cys Leu Leu Thr Asn Arg Leu Leu
20 25

```
<210> 1685
<211> 28
<212> PRT
<213> Artificial Sequence
```

<220>
<223> Computer-generated peptide variant

<400> 1685

Met Leu Lys Phe Leu Arg Lys Leu Leu Lys Phe Phe Ser Arg Asn Ala
1 5 10 15

Leu His Leu Lys Lys Phe Lys Phe Arg Arg Ala Met
20 25

```
<210> 1686
<211> 42
<212> PRT
<213> Artificial Sequence
```

<220>
<223> Computer-generated peptide variant

<400> 1686

Lys Leu Lys Tyr Phe Gln Lys Phe Ile Lys Trp Leu Ser Arg Leu Lys
1 5 10 15

Lys Ala Arg Met Lys Leu Leu Thr Cys Leu Glu Phe Glu Gln Leu Leu
20 25 30

Lys Ala Pro Ala Cys His Ser Leu Arg Arg
 35 40

<210> 1687
 <211> 57
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1687

Arg Leu Lys Trp Phe Lys Lys Leu Leu Lys Lys Ile Asn His Ala Val
 1 5 10 15

Thr Lys Arg Lys Ala Arg Leu Trp Ala Val Ala Ala Thr Ala Leu Ala
 20 25 30

Leu Ala Arg Gln Arg Arg Lys Ile Arg Asp Pro His Tyr Ala Cys Leu
 35 40 45

Lys His Leu Ala Ala Arg Gln Ala Leu
 50 55

<210> 1688
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1688

Phe Leu Arg Leu Phe Lys Lys Phe Leu Arg Lys Leu Ser Arg Ala Asp
 1 5 10 15

Phe Thr Leu Leu Gln Lys Arg Ile Ala Leu Met Arg His Lys Cys Asn
 20 25 30

Leu

<210> 1689
 <211> 78
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1689

Leu Leu Arg Tyr Leu Lys Arg Tyr Met Lys Lys Met Thr Arg Ala Lys
 1 5 10 15

Arg Lys Lys Arg Leu Arg Gln Lys Gln Lys Gln Arg Ile Met Leu Lys
 20 25 30

Tyr Ala Leu Gly Asp Trp Phe Ile Leu Thr Lys Thr Asp Ala Thr Leu
 35 40 45

Met Lys Ala Arg Pro Ser Ile Trp Arg Trp Lys Arg Ser Arg Lys Asn
 50 55 60

Arg Gly Asp Ala Trp His Arg Ala Leu Asn Leu Ala Leu Ala
 65 70 75

<210> 1690

<211> 47

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1690

Lys Ile Lys Phe Trp Cys Lys Phe Leu Arg Lys Leu Ser Lys His Leu
 1 5 10 15

Lys Arg Ile Leu Ala Leu Thr Leu Leu Gln Lys Asn Ala Ala Glu Ala
 20 25 30

Met Lys Asn Cys Gln Asp Ala Arg Asn Ser Lys Gly Arg Ala His
 35 40 45

<210> 1691

<211> 31

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1691

Leu Ile Arg Leu Leu Arg Arg Leu Phe Lys Leu Leu Arg Pro Thr Ile

1 5 10 15

Ala Lys Arg Pro Lys Asp Arg Arg Val Lys Val Glu Ala Ser Leu
20 25 30

<210> 1692
<211> 61
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 1692

Leu Met Lys Leu Leu Arg Arg Leu Ile Lys Trp Ile Lys Lys Lys His
1 5 10 15

Lys His Ile Leu Trp Lys Lys Asn Lys Ala Lys Arg Arg Ala Leu Glu
20 25 30

Ala Arg Gly Ala Gly Cys Lys Ser Asn Ile Ala Phe Lys Tyr Trp Cys
35 40 45

Arg Leu Val His Arg Asn Ala Lys Leu Leu Arg His Ala
50 55 60

<210> 1693
<211> 70
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 1693

Phe Leu Arg Phe Ile Cys Arg Phe Phe Arg Leu Leu Gln Lys Arg Met
1 5 10 15

Ile His Met Asn Leu Ser Thr Tyr Ala Lys His Ala Lys Gly Cys Cys
20 25 30

Arg Arg Lys Leu Arg Gln Tyr Leu Lys Leu Leu Val Gln Lys Leu Cys
35 40 45

Leu Lys Tyr Ala Leu Leu Arg Arg Ala Leu Asp Phe Met Leu Lys Lys
50 55 60

Lys Asn Lys Leu Leu Ser
65 70

<210> 1694
<211> 25
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 1694

Phe Phe Lys Leu Leu His Arg Phe Leu Arg Leu Leu Ser Arg Thr Trp
1 5 10 15

Arg Ser Arg Leu Lys Ala Thr Arg Ser
20 25

<210> 1695
<211> 74
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 1695

Lys Leu Lys Leu Leu Arg Lys Phe Leu Arg Phe Phe His Lys Leu Gln
1 5 10 15

Lys Ser Ala Ile Lys Lys Lys Phe Glu Asn Arg Thr His Phe Ala Ile
20 25 30

Lys Ile Tyr Arg Leu Met Pro Arg Arg Gly Met Pro Arg Gln Arg Ile
35 40 45

Lys Val Ala Ala Ala Arg Arg Glu Lys Arg Ala Tyr Val Cys Cys Arg
50 55 60

Ala Asp Ala Leu Leu Asp Leu Met Lys Glu
65 70

<210> 1696
<211> 46
<212> PRT
<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1696

Lys	Leu	Lys	Trp	Ile	Lys	Arg	Phe	Leu	Lys	Arg	Leu	Arg	Gln	Ala	Arg
1				5					10					15	

Gly	Ala	Ala	Pro	Lys	Cys	Trp	Arg	Leu	Phe	Arg	Ala	Phe	Arg	Ala	Ser
			20					25					30		

Leu	Gln	Lys	Cys	Glu	Val	Ala	Pro	Thr	Met	Arg	Lys	Glu	Leu
		35					40					45	

<210> 1697

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1697

Arg	Leu	Lys	Leu	Leu	Ser	Lys	Trp	Phe	Arg	Arg	Leu	Arg	Pro	Leu	Lys
1				5					10					15	

Trp	Gly	Ala	Leu
			20

<210> 1698

<211> 52

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1698

Ile	Met	Lys	Trp	Phe	Arg	Lys	Ile	Met	Arg	Met	Leu	Lys	Arg	Leu	Leu
1				5					10					15	

Leu	Trp	Pro	Phe	Arg	Gly	Ser	Leu	Leu	His	Asn	Arg	His	Arg	Gly	Arg
			20					25					30		

Glu	Ala	Phe	Arg	Val	Ala	Leu	Arg	Phe	Leu	Ala	Lys	Leu	Met	Cys	Leu
		35					40					45			

Leu	His	Leu	Ala
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50

<210> 1699
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1699

Lys Leu Arg Ile Leu Lys Lys Phe Leu Arg Trp Phe His Arg Arg Leu
 1 5 10 15

Ala Ala Lys Glu Phe Phe Ala Trp
 20

<210> 1700
 <211> 48
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1700

Arg Ile Arg Phe Trp Thr Lys Met Leu Lys Met Tyr Arg Lys Tyr Arg
 1 5 10 15

Leu Arg Ala Tyr Arg Ser Leu Trp Ala Arg Phe Tyr Leu Arg Phe Arg
 20 25 30

Ala Lys Asn Ile Ala Ala Ala Trp Leu Met Arg Gly Gln Arg Lys Leu
 35 40 45

<210> 1701
 <211> 81
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1701

Lys Leu Lys Trp Tyr Arg Arg Leu Phe Arg Arg Leu His Gln Arg Lys
 1 5 10 15

Lys Phe Lys Cys Arg Leu Lys Leu Ala Phe Ala Gln Ala Ala Lys Leu

20					25					30					
Phe	Leu	Cys	Ala	Gly	Gly	Thr	Arg	Arg	Tyr	Ser	Leu	Ala	Leu	Met	Asn
		35					40					45			
Lys	Leu	Asn	Arg	Lys	Arg	Asp	Val	Arg	Met	Pro	Trp	Arg	Leu	Val	Asp
	50					55					60				
Gly	Ile	Ala	Trp	Ser	Pro	Leu	Ala	His	Trp	Arg	Ile	Asn	Lys	Lys	Ala
65					70					75					80

Arg

<210>	1702
<211>	27
<212>	PRT
<213>	Artificial Sequence
<220>	
<223>	Computer-generated peptide variant
<400>	1702

Tyr Tyr Lys Leu Trp Cys Lys Leu Ile Arg Arg Leu Ser Lys Lys Met
1 5 10 15

Trp Phe Glu Ala Leu Leu Ile Ala Arg Phe Lys
20 25

<210>	1703
<211>	95
<212>	PRT
<213>	Artificial Sequence
<220>	
<223>	Computer-generated peptide variant
<400>	1703

Leu Ile Arg Met Phe Lys Lys Phe Met Arg Met Tyr Lys Asn Arg Asn
1 5 10 15

Thr Arg Ala Met Lys Leu Leu Leu Lys Lys Ser Ile Glu Leu Gly Ala
20 25 30

Phe Arg Gly Leu Tyr Leu Leu Tyr Pro Asp Ala Leu Ala Gly Asp Leu
35 40 45

Ala Trp Met Val Met Leu Val Tyr His Ala Arg Arg Arg Ala Ser Arg
 50 55 60

Ala Thr Arg Trp Lys Gly Ala Pro Thr Leu Ala Lys Ala Cys Arg Lys
 65 70 75 80

Ala Ile Ile Pro Leu Ala Leu Ala Ala Cys Lys Leu Lys Arg Gly
 85 90 95

<210> 1704

<211> 49

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1704

Leu Phe Arg Ile Tyr Asn Lys Phe Phe Arg Lys Leu Lys Thr Ala Glu
 1 5 10 15

Ala Arg Leu Leu Lys Ala Lys Leu Leu Arg Leu Ile Ala Val Ser Lys
 20 25 30

Ala Arg Leu Lys Arg Gln Trp Asn Leu Ala Ala Ile Thr Glu Leu Arg
 35 40 45

Lys

<210> 1705

<211> 46

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1705

Lys Leu Arg Met Ile Lys Lys Ile Tyr Arg Arg Leu Ser Lys Leu Asn
 1 5 10 15

Lys Leu Ser Arg Gln Arg Ala Arg Ile Tyr Leu Ala His Ala Asn Arg
 20 25 30

His Asn Tyr Leu Ile Leu Asn Asp Ala Arg Thr Ile Arg Arg

35

40

45

<210> 1706

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1706

Arg	Leu	Lys	Leu	Phe	Arg	Lys	Leu	Met	Arg	Leu	Phe	Lys	Arg	Ile	Arg
1				5				10						15	

Met	Ile	Asp	Met	Lys	Asn	Gly	Leu	Pro	Ser	Leu	Tyr	Leu
			20				25					

<210> 1707

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1707

Met	Leu	Lys	Phe	Met	Arg	Lys	Phe	Leu	Arg	Leu	Met	Arg	Arg	Ala	Asn
1				5				10						15	

Leu	Gln	Tyr	Ala	Asn	Lys	Asp	Ala	Trp
			20				25	

<210> 1708

<211> 76

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1708

Tyr	Leu	Arg	Phe	Phe	Arg	Lys	Ile	Tyr	Arg	Arg	Ile	Arg	Lys	Leu	Ala
1				5				10						15	

Pro	Leu	Ser	Met	Ala	Leu	Thr	Glu	Arg	Leu	Asp	Pro	Phe	Leu	Leu	Trp
			20				25						30		

Phe	Phe	Arg	Arg	Gln	Lys	Arg	Asp	Lys	Leu	Cys	Lys	Thr	Lys	Ile	Lys
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

35

40

45

Pro Ala His Arg Ile Lys Arg Arg Ala Phe Arg Leu Thr Ala Leu Ser
 50 55 60

Val Leu Lys Lys Gln Ala Phe Asp Lys Leu Leu Met
 65 70 75

<210> 1709
 <211> 27
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1709

Arg Leu Lys Leu Met Lys Lys Phe Met Lys Leu Trp Lys Thr Gln Arg
 1 5 10 15

Lys Gly Ala Gly Thr Thr Val Ala Ala Ala Ile
 20 25

<210> 1710
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1710

Trp Met Arg Leu Leu Arg Lys Tyr Leu Lys Arg Leu Arg Lys Lys His
 1 5 10 15

Ala Asp Asp Thr Phe Trp Ala Leu
 20

<210> 1711
 <211> 73
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1711

Lys Met Lys Met Leu Arg Lys Phe Tyr Arg Leu Ile Lys Lys Lys Ala

1					5					10					15				
Ser	His	Pro	Ser	Asp	Ala	Ser	Gly	Lys	Ile	Leu	Ala	Ser	Arg	Tyr	Asp				
			20				25						30						
Leu	Cys	Ala	Ile	Arg	Met	Asp	Thr	Lys	Leu	Trp	Leu	Lys	Ala	Gln	Arg				
			35				40						45						
Lys	Lys	Tyr	Glu	Arg	Asn	Lys	Ser	Arg	Pro	Lys	Ala	Lys	Ala	Cys	Arg				
			50				55						60						
Arg	Leu	Ala	Leu	Gln	Leu	Ala	Asp	Gln											
65					70														

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<210> 1712
<211> 41
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 1712
```

Leu	Phe	Arg	Leu	Met	Arg	Lys	Trp	Leu	Arg	Lys	Phe	Arg	Arg	His	Ala
1				5					10					15	
Thr	Asp	Ala	Lys	Ile	Lys	Arg	Tyr	Thr	Cys	Lys	Ala	Leu	Met	His	Arg
			20					25					30		
Ala	Ser	Lys	Ala	Asn	Ala	Thr	Met	Gly							
		35					40								

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<210> 1713
<211> 58
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 1713
```

Arg Trp Arg Phe Leu Pro Arg Leu Leu Arg Arg Leu Lys Arg Glu Val
1 5 10 15

Gly Lys Arg Leu His Pro Leu Tyr Lys Ala Arg Thr Leu Phe Lys Ser
20 25 30

Met Gly Asp Arg Arg Met Ala Gly Leu Leu Ala Arg Asp Ala Tyr Arg
 35 40 45

Leu Asn Ile Met Lys Trp Tyr Gly Lys Ile
 50 55

<210> 1714
 <211> 46
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1714

Arg Phe Arg Phe Tyr Lys Arg Phe Trp Lys Leu Leu His Cys Leu Tyr
 1 5 10 15

Phe Lys Asn His Met Ala Lys Ala Asn Leu Leu Ala Ala Glu Cys Ala
 20 25 30

Ala Val Ala His Lys Arg Arg Arg Asp Arg Leu Ala Trp Lys
 35 40 45

<210> 1715
 <211> 38
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1715

Lys Ile Arg Ile Ile Pro Arg Ile Leu Lys Leu Tyr Arg Asn Arg Gln
 1 5 10 15

Pro Lys Arg Lys Leu Leu Ala Ala Glu Ala Lys Ala His Pro Ile Lys
 20 25 30

Ala Phe Tyr Ala Glu Leu
 35

<210> 1716
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1716

Arg	Phe	Arg	Phe	Phe	Lys	Lys	Tyr	Leu	Lys	Tyr	Leu	Lys	His	Leu	Thr
1				5					10					15	

Arg	Leu	Lys	Ala	Met	Ala	Met	Pro
			20				

<210> 1717

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1717

Lys	Leu	Lys	Trp	Leu	Lys	Lys	Ile	Phe	Lys	Phe	Leu	Gln	Arg	Lys	Ala
1				5					10					15	

Ala	Cys	Leu	His	Lys	Arg	Phe	Leu	Thr	Leu	Lys
			20					25		

<210> 1718

<211> 39

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1718

Arg	Trp	Lys	Ile	Phe	Arg	Arg	Met	Leu	Arg	Met	Leu	Lys	Arg	Leu	Asp
1				5					10					15	

Ile	Ala	Ala	Lys	Ser	Ser	Leu	Gln	Tyr	Ala	Cys	Pro	Ala	Arg	Ala	Lys
			20					25					30		

Glu	Arg	Thr	Gln	His	Ala	Lys
						35

<210> 1719

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1719

Tyr	Leu	Lys	Ile	Leu	His	Arg	Phe	Leu	Lys	Lys	Leu	Ser	Lys	Ala	Lys
1				5					10					15	

Arg	Arg	Met	Arg	Lys	Met	Leu	Ala	Leu	Phe	Lys	Asp	Leu	Lys	Leu	Asp
			20					25					30		

Leu Glu

<210> 1720

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1720

Lys	Leu	Lys	Tyr	Leu	Arg	Lys	Ile	Leu	Lys	Arg	Ile	His	Ser	Lys	Leu
1				5					10					15	

Ala	Val	Leu	Ile	Phe	Gln	Thr	Lys
							20

<210> 1721

<211> 70

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1721

Arg	Phe	Lys	Leu	Leu	Gln	Arg	Trp	Trp	Arg	Lys	Tyr	Pro	Lys	Arg	Ala
1				5					10					15	

Cys	Ser	Tyr	Trp	Lys	Val	Leu	Leu	Lys	Leu	Lys	Arg	Phe	Ala	Asn	Tyr
			20					25					30		

Leu	Leu	Met	Leu	Lys	Pro	Lys	Leu	Ala	Ile	Ile	Arg	Leu	Leu	Cys	Ala
			35				40					45			

Lys	Leu	Asn	Tyr	Asp	Arg	Pro	Arg	Lys	Asp	Arg	Asn	Phe	Lys	Val	Arg
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

50

55

60

Gly Phe Ala Lys Glu Val
65 70

<210> 1722
<211> 33
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 1722

Arg Trp Lys Met Phe Arg Lys Phe Leu Arg Arg Trp Arg Lys Leu Lys
1 5 10 15

Ala Ala Arg Leu Arg Ala Phe Leu Cys Leu Lys His Ala Ala Ser Pro
20 25 30

Lys

<210> 1723
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 1723

Lys Phe Lys Leu Leu Arg Arg Leu Tyr Lys Leu Phe His Lys Met Val
1 5 10 15

Arg Pro Arg Ile Glu His Lys Ala Asp Ala His Leu Asn Ala Arg Ala
20 25 30

Ala Cys Ser Ala Glu Lys Lys Lys
35 40

<210> 1724
<211> 29
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 1724

Trp Leu Arg Leu Tyr Arg Arg Leu Leu Lys Lys Trp Gln Gln Lys Asp
1 5 10 15

Lys Leu Ala Pro Thr Cys Leu Lys Cys Glu Leu Gly Lys
20 25

<210> 1725

<211> 78

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1725

Lys Leu Arg Leu Phe His Lys Met Ile Arg Arg Tyr Lys Arg Leu Ala
1 5 10 15

Phe His Ala Leu Ile Ile Lys Glu Ile Gly Gly Thr Lys Leu Ala Gly
20 25 30

Asn Lys Pro Ala Arg Ala Lys Leu Lys Arg Leu Trp Thr Ala Ser Lys
35 40 45

Ala Gln Ala Thr Leu Leu Leu Cys Glu Lys Leu Gln Leu Asn Leu Val
50 55 60

Cys Asn Lys Lys Arg Gly Cys Phe Phe Leu Leu Arg Lys Leu
65 70 75

<210> 1726

<211> 63

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1726

Arg Ile Arg Leu Phe Gln Arg Leu Leu Lys Leu Leu Arg Pro Lys Tyr
1 5 10 15

Tyr Cys Lys Trp Pro Glu Cys Arg Ala Leu Ile Glu Leu Asp Phe Arg
20 25 30

Lys Arg Asp Pro Arg Arg Arg Ala Leu Arg Ala Lys Arg His Arg Asn
 35 40 45

Glu Ala Arg Ala Ala Ser Leu Ala Asp Arg Val Met Arg Lys Gly
 50 55 60

<210> 1727
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1727

Ile Leu Arg Tyr Leu Lys Lys Phe Phe Arg Lys Leu Arg Arg Tyr Leu
 1 5 10 15

Leu Glu Val Ala Gly
 20

<210> 1728
 <211> 48
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1728

Ile Trp Lys Tyr Met Lys Arg Tyr Phe Arg Arg Ile Asn Arg Tyr Ala
 1 5 10 15

Asn Ala Leu Gly Leu Leu Ile Ala Tyr Lys Leu Leu Arg Ala Arg Ala
 20 25 30

Glu Phe Ala Tyr Met Lys Ala Lys Thr Leu Lys Tyr Lys Arg Trp Asp
 35 40 45

<210> 1729
 <211> 56
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1729

Arg Ile Lys Leu Phe Thr Arg Met Phe Lys Leu Ile Lys Lys Lys Trp
 1 5 10 15

Met Lys Thr Leu Val His Met Arg Leu Val Thr Arg Arg Lys Leu Met
 20 25 30

Gln Cys Trp Ala Leu Cys Leu Lys Gln Lys Arg Arg Ile Lys Pro Ala
 35 40 45

Thr Ala Glu Ala Leu Cys Ala Lys
 50 55

<210> 1730
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1730

Leu Leu Lys Leu Leu Arg Lys Ile Leu Arg Phe Phe Pro Arg Ala Gln
 1 5 10 15

Gly Asp Leu Trp Gly Glu Arg Tyr Arg Cys His Arg Leu
 20 25

<210> 1731
 <211> 37
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1731

Met Tyr Arg Met Leu Arg Arg Leu Met Arg Lys Phe Lys Pro Asp Tyr
 1 5 10 15

Phe Asn Ser Met Ile Lys Leu Gln Pro Leu Ala Arg Leu Arg Leu Arg
 20 25 30

Ala Arg Lys Leu Ile
 35

<210> 1732

<211> 60
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1732

Phe Phe Arg Ile Tyr Lys Lys Trp Leu Arg Arg Leu Gln Lys Leu Leu
 1 5 10 15

Leu Ala Lys Ala Ala Asn Ile Lys Met Glu Arg Ala Arg Lys Met Asn
 20 25 30

Glu Leu Thr Arg Pro Phe Leu Lys Arg Pro Leu Lys Met Cys Leu Arg
 35 40 45

Ala Asp Ile Gln Arg Lys Val Gln Pro Pro Gln Leu
 50 55 60

<210> 1733
 <211> 37
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1733

Arg Leu Arg Leu Phe His Lys Phe Leu Lys Lys Tyr Lys Arg Arg Asp
 1 5 10 15

Lys Cys Ala Gln Leu Phe Leu Arg Val His Leu Gly Phe Ala Pro Val
 20 25 30

Lys Arg Pro Ala Met
 35

<210> 1734
 <211> 37
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1734

Trp Met Arg Leu Leu Arg Lys Leu Ile Lys Tyr Tyr Pro Arg Ala Ile

1 5 10 15

His Ser Pro Ile Ala Gln Lys Gly Ala Lys Ala Ala Lys Leu Leu Ser
20 25 30

Phe Lys Ala Arg Ile
35

<210>	1735
<211>	21
<212>	PRT
<213>	Artificial Sequence

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<220>
<223> Computer-generated peptide variant
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<400> 1735

Lys Tyr Arg Leu Ile Thr Arg Tyr Phe Arg Leu Tyr Arg Lys Lys Ala
1 5 10 15

Leu Thr Leu Glu Ala
20

<210>	1736
<211>	48
<212>	PRT
<213>	Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 1736

Arg Leu Arg Leu Phe Arg Arg Leu Phe Arg Lys Leu Gln Arg Leu Leu
1 5 10 15

Tyr Leu Asp His Arg Lys Ser Ala Gln Leu Thr Val Ala Ser Asp Ala
20 25 30

Met Ile Cys Arg Arg Ser Lys Gly Asn Ser Arg Ile Pro Arg Ala Arg
35 40 45

<210>	1737
<211>	27
<212>	PRT
<213>	Artificial Sequence

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<220>
<223> Computer-generated peptide variant
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<400> 1737

Arg	Leu	Lys	Phe	Tyr	Arg	Arg	Phe	Ile	Arg	Arg	Leu	Gln	Thr	Leu	Lys
1				5					10					15	

Ala	Val	Ala	Asn	Ala	Lys	Arg	Glu	Gly	Glu	Ala
			20					25		

<210> 1738

<211> 76

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1738

Phe	Leu	Lys	Ile	Met	Cys	Lys	Leu	Leu	Arg	Leu	Tyr	Lys	Arg	Gly	Leu
1				5					10					15	

Leu	Asn	Leu	Ala	Tyr	Cys	His	Phe	Arg	Ser	Arg	Trp	Arg	Trp	His	Gly
			20					25					30		

Cys	Lys	Ala	Arg	Thr	Arg	Arg	Ala	Cys	Trp	Arg	Lys	Ile	Ser	Ser	Leu
		35					40					45			

Leu	Arg	Leu	Ala	Trp	Val	Ala	Leu	His	Thr	Ala	Glu	Arg	Glu	Ile	Leu
	50					55					60				

Trp	Arg	Lys	Ala	Cys	Leu	Thr	Arg	Asp	Arg	Arg	Ala
65				70					75		

<210> 1739

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1739

Phe	Leu	Lys	Leu	Trp	Lys	Arg	Phe	Tyr	Arg	Arg	Trp	Ser	Lys	Lys	Arg
1				5					10					15	

Leu	Pro	Ala	Gly	Ala	Asp	Ala	Ser	Ala	Arg	Arg	His	Met	Leu
		20						25					30

<210> 1740
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1740

Arg Ile Arg Leu Ile Arg Arg Trp Trp Arg Lys Leu Arg Arg His Arg
 1 5 10 15

Ala Leu Thr Thr Pro Leu Ala Ile Cys Trp Leu Lys Leu Ser Ala Phe
 20 25 30

Tyr Ser Ala Lys
 35

<210> 1741
 <211> 70
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1741

Lys Phe Arg Leu Leu Cys Arg Leu Tyr Lys Phe Leu Lys Pro Ala Arg
 1 5 10 15

Ile Lys Arg Cys Leu Asn Ser Pro Ala Gly Ala Ile Arg Lys Ala Arg
 20 25 30

Pro Pro Leu Ile Asn Lys Thr Arg Leu Leu Lys Trp Ser Cys Arg Leu
 35 40 45

Arg Lys Asp Leu Ala His Tyr Ala Ala Ala Lys Lys Ala Ser Asn Ala
 50 55 60

Glu Leu Val Lys Lys Asn
 65 70

<210> 1742
 <211> 37
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1742

Arg	Leu	Lys	Trp	Met	Lys	Lys	Leu	Phe	Arg	Lys	Phe	Lys	Lys	Asn	Gly
1				5					10					15	

Leu	Glu	His	Ser	Arg	Val	Lys	Ser	Val	Leu	Ala	Ala	Trp	Lys	Cys	Asn
			20					25					30		

Ala	Asp	Ala	Leu	Ala
			35	

<210> 1743

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1743

Lys	Phe	Arg	Met	Leu	Arg	Lys	Leu	Met	Arg	Phe	Tyr	Arg	Ser	Arg	Ala
1				5					10					15	

Lys	Ala	Ala	Leu	Glu	Leu
			20		

<210> 1744

<211> 64

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1744

Lys	Phe	Lys	Leu	Leu	Arg	Lys	Leu	Leu	Lys	Lys	Tyr	Lys	Thr	Phe	Ala
1			5						10					15	

His	Val	Ala	Ala	Lys	Gly	Glu	Gly	Trp	Arg	Lys	Leu	Ala	Ala	Lys	His
			20					25					30		

Val	Arg	Arg	Ala	Arg	Ser	Asp	Phe	Ser	Arg	Arg	Lys	Ala	Ala	Ile	Lys
			35				40					45			

Phe	Ala	Glu	Lys	Gln	Leu	Leu	Lys	Ala	Ile	Lys	Ile	Leu	Lys	Ser	Asp
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

50

55

60

<210> 1745

<211> 43

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1745

Leu Met Lys Ile Leu Thr Lys Phe Met Arg Arg Phe Arg Arg Arg Arg
 1 5 10 15

Lys Arg Tyr Lys Ile His Ala Phe Ala Arg Tyr Ala Asp Ala Ala Ala
 20 25 30

Arg Cys Gln Arg Leu Pro Leu Met Ala Cys Arg
 35 40

<210> 1746

<211> 57

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1746

Arg Leu Arg Phe Leu Arg Arg Phe Leu Lys Arg Leu Lys Arg Cys Leu
 1 5 10 15

Thr Ile Pro Leu Ser Ala Ala Ala Asp Lys Lys Lys Arg Leu Leu Arg
 20 25 30

Arg Asp Lys Leu Asp Phe His Val Ala Asn Arg Leu Leu Tyr Cys Ile
 35 40 45

Pro Lys Cys Arg Val Ala His Ala Gly
 50 55

<210> 1747

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1747

Leu Leu Lys Trp Leu Arg Arg Phe Met Lys Lys Tyr Lys Arg Ala Leu
1 5 10 15

Lys Ala Ala Thr Lys
20

<210> 1748

<211> 52

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1748

Trp Leu Lys Leu Leu Thr Arg Trp Ile Lys Leu Leu Arg Pro Lys Ile
1 5 10 15

Cys Arg Asp Asp His Lys Thr Pro Leu Lys Ser Arg Leu Asn Ala Lys
20 25 30

Trp Leu Ala Ala Glu Lys Arg Arg Ala Gln Ala Pro Lys Met Arg Glu
35 40 45

Ala Arg Phe Ala
50

<210> 1749

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1749

Arg Leu Arg Phe Leu Lys Arg Leu Leu Lys Arg Ile His Thr Ile Leu
1 5 10 15

Leu Leu Phe Gln Leu Asn Ile Lys Ile Gly Arg Leu Thr Ala Ser Ala
20 25 30

Arg

<210> 1750
 <211> 80
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1750

Lys Phe Lys Phe Leu Arg Arg Tyr Phe Lys Arg Tyr Lys His Leu Lys
 1 5 10 15

Arg Leu Gly Tyr Leu Arg Ala Lys Leu Arg Leu Thr Lys Leu Ala Ser
 20 25 30

Tyr Cys Cys Phe Tyr Ala Thr Phe Trp Lys Cys Arg Met Ala Pro Lys
 35 40 45

Ala Arg Arg Ala Gly His Thr Arg Lys Met Trp Leu Arg Asp Ser Lys
 50 55 60

Phe Arg Ile Leu Arg Gln Lys Ala Met Trp Leu Ala Ser Phe Leu Tyr
 65 70 75 80

<210> 1751
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1751

Phe Leu Arg Tyr Tyr Ser Lys Leu Tyr Lys Lys Ile Thr Lys Ala Lys
 1 5 10 15

Ala Arg Ala Leu Ala Pro
 20

<210> 1752
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1752

Lys Met Lys Leu Tyr Lys Lys Trp Trp Arg Lys Leu Arg His Glu Ala
 1 5 10 15

Leu Leu Gln Ala Cys Gln Lys Asn Ala Pro Pro Leu
 20 25

<210> 1753
 <211> 48
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1753

Leu Leu Arg Trp Leu Lys Arg Tyr Ile Lys Lys Leu Ser Arg Thr Ala
 1 5 10 15

Glu Lys His Met Arg Ala Lys Leu Pro Ala Lys Trp Thr Glu Leu Gly
 20 25 30

Leu Arg Glu Ala Tyr Leu Leu Ile Cys Ala Asn Leu Asn Arg Trp Leu
 35 40 45

<210> 1754
 <211> 46
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1754

Trp Leu Lys Met Leu His Lys Phe Leu Lys Lys Leu Arg Lys Tyr Trp
 1 5 10 15

Arg Lys Lys Leu Ala Cys Lys Thr Ser Lys Leu Ala Lys Arg Gln Lys
 20 25 30

Ser Gly Glu Met Met Tyr Gly Leu Arg Ala Met Phe Glu Leu
 35 40 45

<210> 1755
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1755

Leu	Leu	Arg	Leu	Met	Lys	Lys	Met	Phe	Arg	Arg	Ile	Cys	Cys	Leu	Leu
1				5					10					15	

Lys	His	Ala	Leu
			20

<210> 1756

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1756

Met	Leu	Lys	Met	Leu	Lys	Arg	Trp	Tyr	Arg	Arg	Leu	Lys	Thr	Tyr	Ala
1				5					10					15	

Glu	Lys	Gly	Thr	Ala	Leu	Thr	Ala	Ala	Pro
			20					25	

<210> 1757

<211> 44

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1757

Phe	Met	Lys	Leu	Leu	Arg	Arg	Tyr	Phe	Lys	Leu	Leu	Gln	Asn	Leu	Gln
1				5					10					15	

Ala	Leu	Ser	Ser	Lys	Ala	Asp	Met	Trp	Ala	Arg	Gly	Arg	Lys	Arg	Ile
			20					25					30		

Ile	Leu	Ala	Ser	Phe	Lys	Lys	Ala	Ala	Arg	Asn	Ser
			35				40				

<210> 1758

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1758

Lys Tyr Lys Phe Phe Cys Arg Trp Phe Lys Leu Trp Arg Arg Ala Pro
 1 5 10 15

Arg Ala Leu Leu Asn
 20

<210> 1759

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1759

Lys Leu Arg Tyr Tyr Arg Arg Leu Met Lys Leu Leu Pro Lys Phe Ala
 1 5 10 15

His Leu Tyr Thr
 20

<210> 1760

<211> 90

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1760

Lys Phe Lys Leu Ile Arg Lys Leu Trp Lys Arg Leu Lys Arg Cys Gly
 1 5 10 15

Arg Gln Arg Pro Arg Ile Tyr Leu Gln Pro Asp Pro Leu Lys Arg Ile
 20 25 30

Leu Ala Ile Leu Ala Cys Leu Ser Thr Asn Met Ala Leu Leu Asp Leu
 35 40 45

Asn Ala Gly His Lys Leu Lys Lys Ser Met Gly Lys Ala Ala Lys Arg
 50 55 60

Gln Asn Arg Ala Leu Leu Lys Leu Val Leu Asn Glu Cys Leu Ala Glu

<220>
<223> Computer-generated peptide variant

Leu Tyr Lys Met Leu Thr Lys Leu Phe Arg Phe Leu Ser Pro Lys Leu
1 5 10 15

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<210> 1762
<211> 50
<212> PRT
<213> Artificial Sequence
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<220>
<223> Computer-generated peptide variant

Lys Ile Arg Met Met Thr Lys Phe Leu Arg Phe Trp Gln Ser Pro Ser
1 5 10 15

Phe Lys Pro Cys Leu Val Leu Leu Ala Arg Tyr Leu Ala Lys Arg Ala
20 25 30

Leu Gln Leu Lys Asp Arg Gly Leu Lys Leu Arg Arg Leu Lys Lys Leu
35 40 45

Arg Cys
50

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<210> 1763
<211> 20
<212> PRT
<213> Artificial Sequence
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<220>
<223> Computer-generated peptide variant

<400> 1763

Arg Ile Lys Trp Phe Lys Arg Leu Ile Lys Leu Leu Pro Lys Tyr Cys
1 5 10 15

Asp Lys Ala Leu
20

<210> 1764

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1764

Ile Leu Arg Leu Phe Asn Lys Leu Leu Arg Tyr Phe Pro Pro Leu Lys
1 5 10 15

Gly Trp Lys Lys Arg
20

<210> 1765

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1765

Leu Met Arg Phe Phe Lys Arg Tyr Ile Lys Lys Leu Arg Lys Ala Arg
1 5 10 15

Lys Ala Ala Gly Ala Tyr Leu Arg Ser Phe Ala
20 25

<210> 1766

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1766

Arg Leu Lys Leu Leu Cys Lys Leu Phe Lys Lys Leu Arg Lys Gly Glu

1 5 10 15

Gly Pro Lys Ala Gln Leu Leu Ala Lys Leu Leu Leu Lys Asp Cys Leu
 20 25 30

Asn

<210> 1767
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1767

Arg Leu Arg Phe Leu Lys Arg Met Leu Lys Phe Leu Lys Ser Ile His
 1 5 10 15

Thr Ile Leu Thr Leu Tyr Arg
 20

<210> 1768
 <211> 69
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1768

Leu Leu Lys Phe Ile Arg Arg Phe Ile Lys Arg Leu Gln Lys Gln Gln
 1 5 10 15

Gly Met Arg Gln Gly Cys Leu Leu Thr Lys Lys Ala Tyr Ser Met Lys
 20 25 30

Leu Pro Phe His Thr Ser Ala Arg Ala Arg Leu Leu Ala Pro Leu Leu
 35 40 45

Lys Asp Ala Ser Lys Ala Arg Cys Val Asp Ala Pro Leu Lys Lys Arg
 50 55 60

Val Leu Ile Lys Arg
 65

<210> 1769
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1769

Arg Leu Arg Met Leu Lys Lys Leu Met Lys Lys Leu Pro Pro Met Gln
 1 5 10 15

Leu Pro Ala Leu Lys Lys Arg Ser Leu Lys Gln Asn Leu Leu
 20 25 30

<210> 1770
 <211> 63
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1770

Lys Trp Arg Trp Phe Lys Lys Leu Tyr Lys Phe Phe His Pro Pro Gln
 1 5 10 15

Thr Arg His Lys Ala Gly Lys Lys Met Ala Arg Ala Trp Lys Pro Arg
 20 25 30

Lys Lys Leu Leu Leu Lys Leu Leu Lys Ser His Pro Ala Arg Met Met
 35 40 45

Leu Ser Leu Arg Leu Leu Gly Gly Leu Lys Ile Lys Ala Pro Ile
 50 55 60

<210> 1771
 <211> 37
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1771

Arg Leu Lys Tyr Met Arg Arg Phe Leu Arg Phe Leu Lys Lys Leu Arg
 1 5 10 15

Ala Leu Met Gln Ala Pro Asn Met Leu Lys Gly Asp Tyr Ala Arg Thr
 20 25 30

Trp Pro Leu Arg Tyr
 35

<210> 1772
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1772

Arg Tyr Arg Phe Phe Lys Arg Leu Leu Arg Phe Tyr Ser Thr Leu Leu
 1 5 10 15

Lys Arg Met Ala Ala Phe Ala Gln Phe Ser Leu Ala
 20 25

<210> 1773
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1773

Arg Met Lys Ile Leu Lys Arg Leu Met Lys Leu Ile Arg Arg Trp Ala
 1 5 10 15

Met Met Leu His Tyr Ala Leu Ala Pro Arg Val Lys Arg His Thr Asn
 20 25 30

Leu Asp Asn Arg
 35

<210> 1774
 <211> 41
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1774

Phe Leu Lys Leu Ile Arg Lys Phe Phe Arg Lys Leu Arg Arg Ser Ala
 1 5 10 15

Leu Ala Ala Phe Leu Ala Arg Lys Ala Lys Asp Thr His Thr Val Gln
 20 25 30

Met Met Glu Cys Arg Arg Glu Ala Asp
 35 40

<210> 1775

<211> 76

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1775

Lys Ile Lys Met Tyr Lys Lys Met Leu Arg Ile Phe Lys Arg Ala Leu
 1 5 10 15

Phe Cys Leu Thr Met Ile Ile Arg Cys Leu Leu Arg Lys Asp Ala His
 20 25 30

Ile Ala Pro Tyr Met Ala Gln Leu Arg Arg Ala Arg Trp Ala Tyr Lys
 35 40 45

Asp Leu Leu Phe Pro Leu Arg Gly Arg Arg Thr Leu Ser Ala Thr Asp
 50 55 60

Leu Lys Arg Lys Lys Arg Tyr Ala His Arg Pro Ala
 65 70 75

<210> 1776

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1776

Leu Tyr Lys Phe Trp Lys Lys Phe Leu Arg Lys Trp Lys Arg Ala Leu
 1 5 10 15

Ser Val Leu Arg Gln Leu Ala Arg Leu Pro Thr Lys Leu Arg Lys Ser

20

25

30

Asp

<210> 1777
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1777

Lys Leu Lys Leu Met His Lys Leu Phe Arg Trp Trp Lys Lys Glu Ile
 1 5 10 15

Lys Leu Pro Ala Ala Glu
 20

<210> 1778
 <211> 74
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1778

Lys Phe Lys Phe Met Gln Lys Met Phe Lys Arg Leu Asn Pro Ala Asn
 1 5 10 15

Asn Leu Leu Ile Tyr Lys Ala Ile Gly Leu Lys Val Arg Leu His Lys
 20 25 30

Arg Ala Leu Lys Asn Ile Lys Trp Lys Leu Val Met Tyr Cys Asp Cys
 35 40 45

Lys Thr Arg Cys Arg Ala Leu Cys Val Lys Arg Arg Ala Gly Val Arg
 50 55 60

Ala Ala Ala Arg Ala Ser Thr Lys Leu Arg
 65 70

<210> 1779
 <211> 25
 <212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1779

Arg Leu Lys Met Phe Lys Arg Met Tyr Arg Lys Phe Arg Asn Ala Leu
1 5 10 15

Lys Leu Leu Met Asp Tyr Arg Ala Leu
20 25

<210> 1780

<211> 41

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1780

Leu Leu Arg Trp Ile Arg Arg Trp Leu Arg Leu Trp Gln Lys Gly Leu
1 5 10 15

Leu Lys Leu Ala Ser Lys Val His Lys Cys Lys Gln Arg Tyr Gly Ala
20 25 30

Lys Cys Phe Phe Met Lys Ala Gln Ala
35 40

<210> 1781

<211> 46

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1781

Lys Trp Arg Tyr Trp Lys Lys Leu Leu Arg Phe Leu Arg Ser Trp His
1 5 10 15

Val Leu Lys Trp Lys His Ala Leu Val Arg Lys Asn Gln Leu Tyr Asp
20 25 30

Trp Ala Tyr Gln Arg Ala Arg Gln Arg Asn Ala Ala Ala Ala
35 40 45

<210> 1782
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1782

Arg Leu Lys Trp Leu Cys Arg Leu Leu Lys Arg Phe Ser Pro Val Tyr
 1 5 10 15

Leu Leu Thr Lys Thr
 20

<210> 1783
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1783

Lys Phe Lys Leu Leu Gln Lys Phe Leu Arg Lys Leu Cys Lys Ala Gln
 1 5 10 15

Val Lys Ala Pro Ala Cys Asn Leu Gln Lys Leu Arg Ile Ala Met Thr
 20 25 30

Trp Leu

<210> 1784
 <211> 38
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1784

Ile Trp Arg Leu Leu Arg Lys Phe Leu Lys Leu Met Ser Arg Ala Ser
 1 5 10 15

Thr Lys Tyr Leu Pro Leu Leu Ala Met Lys Val Lys Leu Gly His Leu
 20 25 30

Leu Thr His Met Lys Cys
35

<210> 1785
<211> 45
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 1785

Leu Phe Lys Trp Trp Lys Lys Leu Leu Lys Tyr Leu Thr Gln Arg Ala
1 5 10 15

Ala Phe Gln Lys Arg Arg Met Ala Cys Leu Gln Ser Pro Thr Arg Ala
20 25 30

Arg Leu Arg Ala Leu Val Thr Arg Lys Cys Gly Ala Val
35 40 45

<210> 1786
<211> 43
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 1786

Lys Leu Lys Tyr Leu Lys Arg Tyr Tyr Arg Lys Leu Cys Lys Leu Ala
1 5 10 15

Trp Leu Cys Gly Arg Gly Leu Met Leu Thr Arg Ala Ala Gly Gln Lys
20 25 30

Ser Asn Met Leu Arg Cys Arg Met Ala Ala Lys
35 40

<210> 1787
<211> 50
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 1787

Leu Trp Lys Phe Phe Cys Arg Phe Ile Arg Leu Tyr Arg Arg Lys Arg
 1 5 10 15

Asn Trp Lys Ala Arg Leu Lys Ala Lys Gln Met Lys Leu Ala Leu Thr
 20 25 30

Ala Gln Leu Gln Lys Glu His Arg Leu Gln Leu Trp Lys Tyr Met Lys
 35 40 45

Leu His
 50

<210> 1788
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1788

Leu Phe Lys Leu Leu Arg Arg Met Leu Lys Lys Phe Gln Lys Leu Ala
 1 5 10 15

Pro Phe Val Lys Met Cys Glu
 20

<210> 1789
 <211> 65
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1789

Ile Leu Arg Leu Leu Arg Arg Ile Tyr Lys Arg Met Cys Lys Met Met
 1 5 10 15

Lys Ala Ala Lys Arg Ala Lys Ala Ser Arg Ala Lys Cys Thr Ala Ser
 20 25 30

Lys Glu Gln Leu Ser Asn Arg Ala Arg Leu Thr Ala Ile Trp Leu Asp
 35 40 45

Val His Tyr Ala Arg Asn Ser Leu Arg Lys Ser Asp Lys Arg Leu Lys

50

55

60

Lys
65

<210> 1790
<211> 58
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 1790

Trp Leu Lys Leu Leu Lys Arg Tyr Phe Arg Lys Phe Arg Lys Cys Gln
1 5 10 15

Trp Leu Leu Gly Lys Trp Asn Ala Ser Cys Asn Gln Lys Lys Leu His
20 25 30

Leu Pro Gly Met Thr Ala Arg Leu Glu Ala Leu Ala Arg Ser Leu Leu
35 40 45

Lys Arg Asp Asp Gly Ile Leu Gly Lys Leu
50 55

<210> 1791
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 1791

Arg Met Arg Phe Leu Lys Lys Leu Leu Arg Arg Leu Arg Thr Gly Asn
1 5 10 15

Ile Lys Leu Val His Ala Val Tyr Leu Ala Trp His
20 25

<210> 1792
<211> 26
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 1792

Lys Met Lys Met Trp Asn Arg Met Trp Arg Lys Leu Lys Thr Leu Ala
1 5 10 15

Ala Ile Arg Leu Lys Gly Ala Ala Arg Trp
20 25

<210> 1793

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1793

Leu Tyr Arg Met Leu Arg Lys Leu Tyr Arg Arg Leu Lys Asn Met Leu
1 5 10 15

Arg Lys Asp Leu Leu Pro Val Leu Lys Glu His
20 25

<210> 1794

<211> 49

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1794

Leu Tyr Arg Met Leu Lys Lys Ile Ile Lys Ile Phe Lys Ser Asn Ala
1 5 10 15

Ala Leu Ile Trp Leu Lys Ala Phe Leu Val Arg Arg Ala Ala His Leu
20 25 30

His Ser Met Lys Ser Leu Arg Lys Phe Thr Leu Arg Lys Arg Lys Leu
35 40 45

Phe

<210> 1795

<211> 41

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1795

Lys Ile Lys Leu Leu Arg Arg Leu Phe Lys Tyr Tyr Cys Lys Arg Pro
1 5 10 15

Pro Leu Ala Val Arg Cys Lys Val Pro Tyr Arg Ala Ala Leu Ala Phe
20 25 30

Leu Arg Cys Leu Leu Lys Glu Arg Arg
35 40

<210> 1796

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1796

Arg Trp Lys Leu Trp Pro Lys Met Leu Arg Arg Leu Thr Lys Leu Ala
1 5 10 15

Ala Ser Cys Ala Cys Arg
20

<210> 1797

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1797

Arg Phe Arg Tyr Trp Lys Lys Met Leu Arg Arg Leu Thr Lys Leu His
1 5 10 15

Trp Arg Arg Leu Lys Leu Met Leu Leu Cys Trp Phe Arg Glu Arg Leu
20 25 30

Ile Tyr Leu Cys
35

<210> 1798
 <211> 38
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1798

Phe Leu Lys Tyr Leu Lys Lys Phe Tyr Arg Arg Leu Arg Gln Leu Arg
 1 5 10 15

Gln Arg Ala Trp Pro Leu His Ala Asp Thr Cys Ala Ala His Leu Leu
 20 25 30

Arg Ala Arg Asn Pro Tyr
 35

<210> 1799
 <211> 61
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1799

Lys Ile Arg Met Leu Arg Arg Leu Trp Arg Leu Leu Arg Lys Ala Leu
 1 5 10 15

Lys Leu Asn Phe Ala Lys Tyr Asp Asn Gln Leu His Arg Ala Arg Val
 20 25 30

Lys Trp Lys Leu Arg Phe Gln Glu Val Leu Leu Ala Arg Arg Val Thr
 35 40 45

Lys His Trp Gly Gly Trp Arg Met Met His Leu Leu Met
 50 55 60

<210> 1800
 <211> 74
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1800

Leu Ile Lys Ile Ile Lys Arg Trp Ile Arg Leu Leu Asn Asn Arg Ile
 1 5 10 15

Lys Ala Ala Phe Asp Trp Ala Val Asp His His Phe Leu Thr Lys Met
 20 25 30

Asn Leu Ala Pro Asp Arg Lys Ala His Ser Arg Arg Tyr Glu Leu Asp
 35 40 45

Leu Leu Ala Ala Arg Arg Arg Lys Arg Ile Ala Leu Ala Cys Leu Lys
 50 55 60

His Trp Lys Ala Gln Lys Asp Pro Lys Arg
 65 70

<210> 1801

<211> 91

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1801

Arg Leu Arg Phe Leu Lys Lys Leu Ile Lys Lys Phe Arg Cys Ala His
 1 5 10 15

Lys Trp Glu Gln Leu Asn Lys Leu Lys Leu Cys Pro Pro Lys Ala Ala
 20 25 30

Gly Asn Asp Asn Arg Trp Leu Thr Cys Arg Lys Arg Arg Arg Asp
 35 40 45

Glu Ser Ala Leu Tyr Arg Thr Tyr Trp Leu Met Ala Ala Val Met Lys
 50 55 60

Met Ala Arg Arg Ala Trp Glu Leu Ala Leu Pro Gly Leu Thr Arg Met
 65 70 75 80

Val Arg Leu Lys Trp Ala Ile Thr Ala Ala Leu
 85 90

<210> 1802

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1802

Lys Leu Arg Phe Leu Ser Lys Met Phe Arg Arg Trp Lys Arg Met Thr
1 5 10 15

Lys Tyr His Met Arg Leu Ala Asn Leu Ala Met Leu
20 25

<210> 1803

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1803

Arg Met Arg Leu Leu Asn Arg Leu Met Arg Leu Trp Ser Lys Met Pro
1 5 10 15

Ala Lys Leu Val
20

<210> 1804

<211> 72

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1804

Tyr Phe Arg Ile Tyr Lys Lys Phe Leu Lys Lys Met Arg Cys Ala Ala
1 5 10 15

Leu Met Met Arg Leu Lys Ser Arg Arg Lys Lys Pro Leu Lys Ala Leu
20 25 30

Ala Glu Leu Glu Leu Lys Lys Asn His Phe Ala Leu Leu Ala Ala Thr
35 40 45

Val Val Cys Lys Ala Lys Trp Ser Ser Phe Gln Ala Phe Met Leu Trp
50 55 60

Asp Tyr Glu Leu Lys Lys Thr Arg
65 70

<210> 1805
<211> 80
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 1805

Phe Leu Arg Phe Met Cys Arg Met Tyr Arg Leu Leu Gln Gln Ala Leu
1 5 10 15

Arg Arg Leu Asp Lys Lys Arg Lys Leu Pro Arg Phe Lys Pro Glu Pro
20 25 30

Lys Met Ala Gln Ala Leu Trp Ser Ala Leu Arg Arg Leu Ala Ala Ser
35 40 45

Asp Met Lys Ala His Phe Gln Leu Glu Phe Cys Arg Cys Leu Tyr Ser
50 55 60

Lys Met Arg Ile Leu Lys Gln Gly Ala Cys Arg Gly Lys Arg Ala Arg
65 70 75 80

<210> 1806
<211> 58
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 1806

Lys Trp Arg Phe Tyr Lys Lys Phe Met Arg Tyr Phe Thr Lys Glu Tyr
1 5 10 15

Ala Leu His Tyr Arg Gly Ala Thr Leu Pro Lys Leu Ala Arg Lys Thr
20 25 30

Leu Ala Arg Lys Pro Pro Leu Ala Ser Lys Arg Leu Gln Ala Asp Cys
35 40 45

Met Ser Arg Arg Leu Ala Leu Val Phe Leu

50

55

<210> 1807

<211> 42

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1807

Lys Phe Arg Trp Leu Asn Lys Leu Tyr Arg Lys Trp Ser Lys Pro Ala
 1 5 10 15

Ala Leu Leu Ala Cys His Glu Arg Lys Glu Trp Leu Ala Ala Ser Ala
 20 25 30

Asp Arg Leu Lys Arg Arg Arg Asp Leu Lys
 35 40

<210> 1808

<211> 88

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1808

Arg Phe Arg Phe Leu His Lys Leu Phe Arg Ile Tyr Ser Arg Gln Ala
 1 5 10 15

Arg Leu Ala Ala Met Ala Asp Tyr Arg Ala Val Val Ala Arg Arg His
 20 25 30

Lys Pro Ala Ala Ala Arg His Leu Arg Ala Leu Leu Leu Ile Ala Thr
 35 40 45

Lys Trp Leu Thr Ala Leu Trp Lys Gln Arg Ala Leu Thr Gly Asn Glu
 50 55 60

Gln Arg Trp Phe Phe Ala Lys Phe Arg Trp Cys Gly Lys Asn Tyr Ala
 65 70 75 80

Lys Val Gly Ala Lys Lys Lys Met
 85

<210> 1809
 <211> 59
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1809

Trp Tyr Lys Phe Leu Arg Arg Met Trp Lys Leu Leu Asn Asn Asn Val
 1 5 10 15

Trp Pro Gly Leu Leu Cys Lys Ala Arg Ala Arg Ala Ala Lys Phe Trp
 20 25 30

Arg Leu His Ile Gly Ala Lys Ala Ala Lys Met Ile Met Lys Ala Leu
 35 40 45

Cys Arg Lys Pro Leu Trp Arg Arg Glu Ala Val
 50 55

<210> 1810
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1810

Leu Leu Arg Tyr Leu Ser Arg Phe Leu Arg Leu Leu His Arg Val Lys
 1 5 10 15

Ala Ile Phe Asp Trp Lys Tyr
 20

<210> 1811
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1811

Arg Ile Lys Leu Trp His Arg Leu Phe Arg Met Ile Ser His Arg Leu
 1 5 10 15

Lys Lys Ala Ala Arg Ala Ile Leu Thr Glu Gly Pro Ala
 20 25

<210> 1812
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1812

Lys Phe Arg Phe Ile Lys Arg Tyr Phe Lys Lys Leu Pro Lys Leu Ser
 1 5 10 15

Trp His Trp Ala His Arg Ala Arg Lys Ile Arg Ala Leu Leu Gly Phe
 20 25 30

Phe Leu Gln Cys Ala Lys Thr Lys
 35 40

<210> 1813
 <211> 70
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1813

Lys Phe Arg Ile Trp Gln Lys Leu Leu Lys Leu Tyr Arg Arg Lys Leu
 1 5 10 15

Tyr Lys Tyr Tyr Phe Phe His Arg Arg Arg Lys Lys Asn Ala Pro Phe
 20 25 30

Ala His Lys Ser Ala Ala Ala Pro Lys Val Ala Tyr Arg Ala Leu Ala
 35 40 45

Arg Gly Lys Leu Ala Leu Trp Ala Pro Leu Tyr Ala Ala Cys Lys Leu
 50 55 60

Ala Ile Leu Leu Glu Pro
 65 70

<210> 1814

<211> 69
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1814

Leu Leu Lys Tyr Leu Arg Lys Leu Trp Arg Lys Leu Ser Lys Tyr Leu
 1 5 10 15

His His Asp Gly Arg Arg Cys Leu Tyr His Lys Lys Trp Val Phe Ala
 20 25 30

Arg Ser Ala Arg Pro Leu Arg Leu Asn Ala Arg Arg Ile Asp Asp Glu
 35 40 45

Ala Phe Cys Trp Met Leu Tyr Leu Leu Ile Lys Leu Pro Cys Gln Lys
 50 55 60

Arg Leu Leu Arg Leu
 65

<210> 1815
 <211> 56
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1815

Lys Phe Arg Ile Tyr Thr Lys Phe Ile Arg Arg Leu Arg Lys Phe Leu
 1 5 10 15

Lys Phe Tyr Ala Trp Glu Ser Glu Cys Ala Thr Ala Ala Leu Arg Arg
 20 25 30

Val Lys Ser Arg Cys Asp Ala Arg Glu Tyr Arg Leu Thr Lys Leu Lys
 35 40 45

Phe Lys Ala Trp Leu Ala Arg Phe
 50 55

<210> 1816
 <211> 20
 <212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1816

Lys Trp Lys Met Tyr Lys Lys Ile Leu Lys Met Leu Lys Ser Leu Phe
1 5 10 15

His Gln Leu Leu
20

<210> 1817

<211> 44

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1817

Arg Met Arg Tyr Ile Arg Lys Leu Trp Lys Leu Leu Cys Arg Arg Arg
1 5 10 15

Asn Leu Ser Trp His Lys Lys His Arg Gly Tyr Ala Leu His Ala Ala
20 25 30

Pro Tyr Ala Val Ala Arg His Val Leu Ala Asp Leu
35 40

<210> 1818

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1818

Lys Met Lys Leu Trp Arg Lys Leu Met Arg Lys Ile Arg Ser Ser Arg
1 5 10 15

Pro Lys Leu Leu Phe Tyr Gln Leu Lys Glu Gln Gln Arg Ala Ala Leu
20 25 30

Glu

<210> 1819
 <211> 43
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1819

Lys Trp Lys Met Leu Lys Arg Leu Leu Arg Phe Ile Lys Cys Tyr Asp
 1 5 10 15

Lys Arg Leu Trp Lys Gln Ala Thr Cys Leu Asp Ala Trp Lys Ser Trp
 20 25 30

Leu Arg Ala Leu Lys Arg Leu Ala Lys Trp Leu
 35 40

<210> 1820
 <211> 92
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1820

Tyr Phe Lys Leu Met Arg Arg Leu Ile Arg Tyr Met His Arg Ala Val
 1 5 10 15

Ala Lys Arg Ile Ser Arg Leu Leu His Ala Leu Gln Asn Arg Ile Lys
 20 25 30

Ala Lys Ile Lys Gln Lys Trp Leu Asn Ala Lys Asn Ala Ala Leu Lys
 35 40 45

Leu Met Trp Arg His Arg Ile Lys Leu Thr Lys Arg Phe Arg Lys Met
 50 55 60

Ala Thr Leu Tyr Met Trp Trp Leu Gly Leu Leu Leu Ile Ser Asn
 65 70 75 80

Arg Ala Asn Glu Lys Asn Glu Leu Met Ala Lys His
 85 90

<210> 1821

<211> 85
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1821

Lys Phe Arg Ile Leu Arg Lys Tyr Leu Lys Leu Leu Ser Thr Pro Ala
 1 5 10 15

Val His Glu Ala Phe Lys Phe Gln Lys Lys Arg Ala Gln Leu Ala Ser
 20 25 30

Lys Arg Arg Ala Ser Arg Lys His Asp Gly Arg Lys Leu Leu Leu Arg
 35 40 45

Arg Glu Leu Trp Asn Asn Gln Ser Arg Thr Asp Trp His Arg Trp Leu
 50 55 60

Arg Thr Lys Phe Pro Phe Ala Leu Arg Arg Leu Lys Asn Cys Tyr Ala
 65 70 75 80

Gly Arg Met Leu Leu
 85

<210> 1822
 <211> 84
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1822

Lys Trp Lys Leu Leu Lys Arg Tyr Met Arg Tyr Tyr Asn Arg Leu Ala
 1 5 10 15

Thr Trp Asn Arg Asp Arg Lys Leu Ile Ala Lys Met Pro Glu Met Thr
 20 25 30

Gly Ala Ala Ala Val Arg Ile Phe His Leu Leu Leu Ala Arg Tyr Ala
 35 40 45

Ala Ala Leu Thr Lys Lys Pro Leu Ala Pro Arg Ile Phe Leu Ala Ala
 50 55 60

Val Lys Ala Lys Lys Lys Thr Thr Ala Arg Thr Ala Glu Thr Arg Lys
65 70 75 80

Met Pro Arg Thr

<210> 1823
<211> 65
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 1823

Leu Leu Lys Met Trp Thr Arg Leu Tyr Arg Lys Phe Lys Lys Tyr Arg
1 5 10 15

Ile Met Lys Leu Gln Asp Ile Leu Cys Leu Val Leu Asp Trp His Trp
20 25 30

Lys Arg Arg Asn Ala Leu Tyr Asp Trp His Arg Leu Phe Lys Ala Glu
35 40 45

Lys Arg Lys Gln Lys Ala Ala Ala Leu Met Arg Arg Cys Leu Gln Pro
50 55 60

Leu
65

<210> 1824
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 1824

Lys Tyr Arg Leu Phe His Arg Leu Trp Lys Arg Met Pro Thr Leu Val
1 5 10 15

Arg Asp Ala Tyr Gly Leu Ala Arg Thr Ala Lys
20 25

<210> 1825

<211> 43
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1825

Lys Phe Arg Leu Leu Pro Arg Phe Tyr Arg Ile Met Lys Gln Leu Lys
 1 5 10 15

Leu Ala Ala Lys Arg Lys Leu Tyr Gln Phe Arg Ala Met Ala Arg Tyr
 20 25 30

Ala Arg Glu Leu Thr Glu Arg Ala Trp His Thr
 35 40

<210> 1826
 <211> 77
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1826

Arg Tyr Arg Leu Leu Cys Lys Met Leu Lys Arg Leu Cys Arg Leu Met
 1 5 10 15

Arg Tyr Leu Ile Arg Arg Lys Ile Val Arg Met Glu Lys Lys Arg Gly
 20 25 30

Asp Pro Leu Lys Arg Ala Arg Ala Val Ala Pro Ala Gly Gly Ala Ala
 35 40 45

Ala Leu Leu Tyr Ile His Met Met Gln Ala Arg Ile Cys Val Leu Lys
 50 55 60

Arg Ile Thr Lys Leu Arg Thr Tyr His Ala Gln Met Ala
 65 70 75

<210> 1827
 <211> 38
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1827

Lys Phe Lys Phe Phe Lys Lys Leu Phe Lys Leu Ile Asn Pro Leu Cys
1 5 10 15

Ser Lys Cys Lys Ala His Ala Arg Leu Ala Lys Arg Met Ala Val Leu
20 25 30

Asp Ile Leu Val Lys Leu
35

<210> 1828

<211> 31

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1828

Arg Leu Lys Leu Leu Lys Arg Ile Leu Arg Leu Trp Gln Arg Thr Trp
1 5 10 15

Lys Phe Arg Leu Arg Ile His Ser Ala Cys Leu Tyr Ala Phe Asp
20 25 30

<210> 1829

<211> 47

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1829

Lys Leu Arg Phe Tyr Gln Arg Trp Ile Arg Lys Met Lys Arg Leu Glu
1 5 10 15

Arg Leu His Tyr Arg Pro Ser Asp Val Leu Arg Leu Arg Ala Ile Ala
20 25 30

Arg Ile Ala Glu Arg Leu Ile Trp Ala Tyr Lys Leu Ala Val Ala
35 40 45

<210> 1830

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1830

Phe Leu Lys Ile Leu Lys Arg Leu Phe Lys Lys Phe Pro Lys Lys Ala
1 5 10 15

Tyr Tyr Phe Lys Ala Trp Pro Thr Ala
20 25

<210> 1831

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1831

Leu Leu Lys Tyr Phe Lys Lys Leu Phe Lys Arg Leu Arg Gln Arg Ala
1 5 10 15

Ala Ala Lys Lys Thr Lys Leu Gly Gly Thr Ile His Ser Leu Tyr Trp
20 25 30

Gly

<210> 1832

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1832

Lys Met Arg Ile Ile Gln Arg Phe Phe Arg Tyr Leu Lys Arg Gln Ile
1 5 10 15

Leu Ile Ala Leu Arg Arg Gly Leu Leu Phe His Ala Lys Lys Ala Ala
20 25 30

Asn Cys Ala Ala
35

<210> 1833
 <211> 72
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1833

Arg Phe Arg Tyr Phe Cys Lys Leu Met Arg Leu Met Arg Lys Leu Gly
 1 5 10 15

Ala Asn Arg Ala Leu Lys Ala Ala Ala Arg Leu Ala Tyr Cys Gly Arg
 20 25 30

Lys His Ala Ala Ala Thr Ile Glu Lys His Ala Ala Asp Arg Tyr Trp
 35 40 45

Leu Ala Glu Gly Gln Leu Leu Leu Tyr Tyr Arg Phe Met Phe Cys Phe
 50 55 60

Lys Phe Asp Asp Lys Lys Lys Lys
 65 70

<210> 1834
 <211> 27
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1834

Leu Leu Arg Phe Trp Arg Lys Leu Ile Arg Met Phe Arg His Arg Cys
 1 5 10 15

Lys Ser Ala Glu Ala Ser Arg Ala Gly Ala Tyr
 20 25

<210> 1835
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1835

Lys Leu Arg Met Trp Arg Arg Leu Phe Arg Tyr Leu Lys Arg Lys Pro
 1 5 10 15

Pro Ala Val Leu Met Ala Gly Ala Asp Ala Leu Lys Ala Asn Glu Tyr
 20 25 30

Phe

<210> 1836
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1836

Trp Phe Lys Trp Leu Pro Lys Leu Ile Lys Phe Leu Lys His Lys Ala
 1 5 10 15

Arg Leu Lys Phe
 20

<210> 1837
 <211> 38
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1837

Leu Leu Arg Leu Tyr His Lys Ile Ile Arg Met Phe Ser Lys His Leu
 1 5 10 15

Arg Tyr Gly Thr Ile Trp Phe Arg Arg Lys Glu Ala Lys Trp Leu Arg
 20 25 30

Ala Leu Tyr Lys Leu Ala
 35

<210> 1838
 <211> 55
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1838

Lys	Trp	Lys	Ile	Ile	Cys	Arg	Leu	Leu	Lys	Lys	Met	Thr	Pro	Cys	Arg
1				5					10					15	

Cys	Arg	Lys	Ala	Arg	Gln	Ile	Ala	Ala	Leu	Arg	Leu	Arg	Tyr	Asp	Val
			20					25					30		

Leu	Arg	Ala	Leu	Ala	Glu	Gln	Cys	Gly	Ala	Leu	Arg	Ala	Arg	Arg	Leu
		35					40					45			

Lys	Cys	Arg	Leu	Ile	His	Leu
50						55

<210> 1839

<211> 31

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1839

Leu	Phe	Arg	Leu	Tyr	Lys	Arg	Leu	Ile	Lys	Arg	Leu	Thr	Gln	Ala	Arg
1				5					10					15	

Ala	Cys	Met	Ala	Lys	Ala	Arg	Ile	Met	Ala	Leu	Arg	His	Lys	Gly
			20					25					30	

<210> 1840

<211> 57

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1840

Trp	Leu	Arg	Phe	Ile	Asn	Lys	Phe	Met	Arg	Lys	Tyr	Lys	Asn	Arg	Leu
1				5					10					15	

Leu	Phe	Ala	Leu	Tyr	Cys	Ala	Glu	Thr	Ala	His	Gly	Leu	Arg	Asp	Ala
			20					25					30		

Val	Arg	Leu	Lys	Ala	Asn	Asp	Lys	Arg	Thr	Ser	Trp	Leu	Arg	Lys	His
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

35

40

45

Lys Lys Leu Ala Leu Ser Glu Lys Lys
 50 55

<210> 1841
 <211> 38
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1841

Arg Leu Lys Leu Leu Arg Lys Leu Tyr Lys Arg Phe Thr Arg Lys Gln
 1 5 10 15

Gln Lys Arg Arg Ile Ala Leu His Tyr Leu Gln Ala His Glu Phe Glu
 20 25 30

Leu Arg Asn Arg Ala Gly
 35

<210> 1842
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1842

Phe Leu Arg Leu Leu Lys Lys Trp Met Arg Trp Leu Arg Pro Gly Ala
 1 5 10 15

Leu Asn Asn Ala Arg Lys Lys Tyr Ser Pro Ser Ile Arg Leu Ala Lys
 20 25 30

Arg Leu Lys
 35

<210> 1843
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1843

Lys	Phe	Arg	Ile	Phe	Lys	Arg	Met	Phe	Lys	Arg	Leu	Lys	Cys	Glu	Leu
1				5					10					15	

His	Ala	Trp	Lys	Ala	Lys	Ala	Leu	Ala	Leu	Arg	Ala	Asn	Met	Leu	Lys
			20				25						30		

Trp Leu

<210> 1844

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1844

Leu	Leu	Lys	Phe	Phe	Thr	Lys	Leu	Trp	Arg	Leu	Leu	Lys	Lys	Val	Cys
1				5				10						15	

Pro	Arg	Arg	Ala	Pro	Phe
			20		

<210> 1845

<211> 87

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1845

Trp	Leu	Arg	Leu	Phe	Lys	Lys	Trp	Met	Arg	Arg	Met	Lys	Arg	Ala	Ala
1				5				10						15	

Cys	Arg	Glu	Gln	Lys	Trp	Met	Ala	Ala	Lys	Asp	Pro	Ala	Asn	Val	Ala
			20				25						30		

Leu	Ala	Leu	Gly	Glu	Lys	Ala	Tyr	His	Glu	Leu	Thr	Glu	Thr	Ala	Ser
		35					40					45			

Tyr	Arg	Arg	Thr	Asp	Ser	Asn	Leu	Arg	Lys	Lys	Lys	Glu	Pro	Phe	Tyr
	50					55					60				

Arg Lys Ala Ile Ala Ala Trp Arg Arg Lys Thr Pro Ser Lys Lys Arg
 65 70 75 80

Leu Lys Leu Ala Arg Ala Leu
 85

<210> 1846

<211> 64

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1846

Lys Leu Lys Tyr Met Thr Lys Leu Phe Lys Lys Phe His Thr Val Lys
 1 5 10 15

Lys Arg Glu Gly Lys Ala Met Asn Tyr Phe Leu Arg Asn Leu Gln Ala
 20 25 30

Ala Pro His Arg His Ala Val Val Lys Arg Lys Arg Arg Ala Leu Ala
 35 40 45

Ala Trp Lys Leu Asp Lys Ala Pro Ala Lys Val Ile His Ala Arg Leu
 50 55 60

<210> 1847

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1847

Tyr Leu Arg Leu Tyr Thr Arg Leu Phe Arg Arg Met Lys His Arg Leu
 1 5 10 15

Ala Cys Leu Val
 20

<210> 1848

<211> 45

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1848

Phe Tyr Lys Tyr Tyr Arg Lys Ile Phe Lys Leu Leu Lys Lys Arg Thr
 1 5 10 15

Trp Ile Lys Trp Arg Leu Asn His Ala Arg Leu Leu Ile Lys Leu Lys
 20 25 30

Arg Leu Met Phe Gln Ala Ala Gln Arg Pro Glu Ala Lys
 35 40 45

<210> 1849

<211> 54

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1849

Arg Leu Lys Leu Phe Arg Arg Trp Leu Lys Lys Trp Arg Gln Arg Ala
 1 5 10 15

Leu Arg Ala Met Ala Cys Lys Thr Leu Arg Thr Tyr Leu Leu His Ala
 20 25 30

Ala Ala Gly Gln Ala Pro Thr Asp Gly Ala Met Arg Met Ala Arg Glu
 35 40 45

Leu Thr Arg Arg Arg Val
 50

<210> 1850

<211> 52

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1850

Lys Trp Lys Phe Leu His Lys Tyr Leu Lys Arg Leu Lys Cys Gln Leu
 1 5 10 15

Leu Arg Thr Ile Asn His Ala Asn Met Lys Leu Ala Lys Thr Lys Lys

20

25

30

Pro Lys Ala Gly Ala Thr Leu Arg Lys Glu Cys Arg Lys Ile Glu Arg
 35 40 45

Tyr Tyr Leu Leu
 50

<210> 1851

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1851

Lys Trp Arg Phe Leu Pro Arg Leu Tyr Arg Arg Tyr Arg Asn Ile Lys
 1 5 10 15

Lys Ser Ala Arg Ala Arg Lys Arg Leu Ala Ser Leu Trp Gln Ala Gln
 20 25 30

Ile Pro Glu Arg Asp Ile Leu Trp
 35 40

<210> 1852

<211> 53

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1852

Trp Ile Lys Ile Trp Lys Arg Ile Phe Lys Ile Leu Arg Lys Leu Arg
 1 5 10 15

Lys Cys Glu Ala Leu Leu Met Asp Lys Gln Lys Leu Ile Ala Leu Ala
 20 25 30

Lys Lys Ala Arg Ala Tyr Leu Glu Leu Lys Gly Lys Leu Thr Lys Arg
 35 40 45

Val Asn Ala Ala Met
 50

<210> 1853
 <211> 60
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1853

Phe Leu Arg Tyr Leu Arg Lys Leu Leu Arg Arg Leu Gln Lys Leu Lys
 1 5 10 15

Thr Lys Ala Leu Ala Cys Gly Cys Lys Gly Ala Ala Trp Ala Phe Glu
 20 25 30

Gly Arg Lys Leu Arg Lys Ala Arg Arg Leu Ala Arg Asp Asn Ala Ala
 35 40 45

Phe Asp Lys Trp Tyr Leu Leu Ser Thr Trp Lys Thr
 50 55 60

<210> 1854
 <211> 77
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1854

Ile Leu Arg Met Trp Lys Lys Met Trp Arg Arg Trp Lys Arg Leu Arg
 1 5 10 15

Leu Gly Lys Ile Asp Val Arg Ala Lys His Leu Arg Phe Glu Pro Arg
 20 25 30

Glu Glu Leu Ala Arg Gln Thr Ala Leu Lys Arg His Ala Leu Arg Leu
 35 40 45

His Arg Gly Lys Ser Arg Ala Met Ala His Leu Gln Val Gly Arg Trp
 50 55 60

Ile Val Leu Ala Leu Ser Cys Gly Leu Gly Leu Lys Arg
 65 70 75

<210> 1855

<211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1855

Arg Leu Lys Leu Leu Arg Arg Leu Tyr Arg Tyr Trp Arg Arg Tyr Thr
 1 5 10 15

Pro Ala Leu Leu His Arg Tyr Cys Gln Leu Arg Ser Glu Ile Lys Ala
 20 25 30

<210> 1856
 <211> 31
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1856

Phe Met Lys Ile Leu Arg Arg Leu Leu Lys Met Tyr Lys Arg Leu Ala
 1 5 10 15

Leu Arg Arg Ala Asn Met Arg Ala Trp Leu Ala Gln Asn Phe Gly
 20 25 30

<210> 1857
 <211> 37
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1857

Arg Phe Lys Trp Ile Cys Arg Trp Phe Lys Arg Leu Lys Cys His Gln
 1 5 10 15

Ala Lys Asp Leu Arg Lys Leu Thr Ser Phe Ala Arg Ala Arg Trp Lys
 20 25 30

Ala Tyr Ala Leu Tyr
 35

<210> 1858

<211> 39
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1858

Ile Met Lys Leu Phe Thr Lys Phe Leu Arg Arg Leu Arg Arg Val Pro
 1 5 10 15

Gln Arg Met Ala Leu Phe Leu Leu Gln Leu Arg Arg Arg Val Gln Arg
 20 25 30

Asp Tyr Ala Ser Gln Leu Arg
 35

<210> 1859
 <211> 98
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1859

Arg Leu Lys Leu Ile Pro Lys Leu Tyr Lys Lys Leu Gln Thr Lys Lys
 1 5 10 15

Lys Arg Asn Ala Glu Gly Asn Arg Gln Glu Ile Cys Thr Gln Ala Arg
 20 25 30

Leu Val Gln Met Ala Leu Leu Ala Asp Leu Met Ala Lys Asp Ala Ile
 35 40 45

His Lys Leu Tyr Tyr Ala Lys His Trp Ala Ala Lys Ala Thr Leu Arg
 50 55 60

Leu Ala Ala Arg Pro Leu Ile Gln Lys Ala Leu Trp Lys Thr Lys Ala
 65 70 75 80

Gln Thr Glu Arg Leu Val Ala Arg Met Ile Phe Lys Glu Leu Leu Leu
 85 90 95

Ile Thr

<210> 1860
 <211> 42
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1860

Arg Phe Lys Phe Tyr Arg Arg Phe Phe Lys Arg Met Arg Lys Gly Ala
 1 5 10 15

Arg Lys Ala Ala Ala Phe Leu Ala Trp Glu Ala Arg Ala Pro Thr Cys
 20 25 30

Leu Met Ala Leu Cys Leu Arg Gly Arg Thr
 35 40

<210> 1861
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1861

Arg Tyr Lys Leu Trp Thr Lys Leu Leu Lys Met Phe Cys His Arg Tyr
 1 5 10 15

Leu Lys Ala Leu Leu Lys Ala Gly Arg Ala Asp Lys Val Ala
 20 25 30

<210> 1862
 <211> 52
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1862

Lys Leu Lys Leu Leu Arg Lys Met Trp Arg Lys Phe Arg Arg Cys Gln
 1 5 10 15

Leu Lys Lys Leu Gln Gln Arg Cys Arg Ala Phe Cys Arg Leu Leu Thr
 20 25 30

Leu Asn Val Val Lys Lys Tyr Trp Ile Thr Tyr Gln Leu Ala Tyr Ala
 35 40 45

Glu Ala Lys Ala
 50

<210> 1863
 <211> 47
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1863

Leu Leu Arg Trp Phe Arg Arg Leu Phe Arg Lys Leu Lys Lys Ile Thr
 1 5 10 15

His Ala Met Gly Met Ala Pro Gln Arg Thr Leu Phe Leu Asn Leu Arg
 20 25 30

Lys Leu Cys Ala Gly Leu Trp Trp Lys Asp Lys Lys Ser Arg Val
 35 40 45

<210> 1864
 <211> 56
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1864

Lys Ile Arg Ile Tyr Lys Lys Phe Phe Arg Arg Leu Arg Arg Leu Ala
 1 5 10 15

Leu Leu Leu Lys Ser Cys Lys Ile Lys Tyr Gly Ala Ala Asp Ala Ser
 20 25 30

Ala Ser Thr Met Leu Ala Lys Thr Val Lys Arg Lys Leu Lys Leu Ile
 35 40 45

Lys Trp His Leu Ala Ser Lys Ser
 50 55

<210> 1865

<211> 63
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1865

Arg Phe Lys Phe Ile Lys Lys Ile Leu Arg Arg Leu Lys Thr Met Leu
 1 5 10 15

Asp Lys Leu Leu Ala Val Lys His Gln Asn His Arg Leu Lys Ala Lys
 20 25 30

Thr Gln Val Trp His Arg Gln Leu Lys Gln Leu Arg Lys Ile Leu Cys
 35 40 45

Ala Arg Lys Trp Gly Leu Met Lys Gly Leu Cys Cys Lys Ala Arg
 50 55 60

<210> 1866
 <211> 78
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1866

Arg Phe Arg Leu Phe Lys Lys Ile Trp Lys Lys Phe Lys Lys Lys Lys
 1 5 10 15

Arg Val Leu Asp Tyr Thr Arg Ala Ala Arg Lys Ala Ser Glu Leu Asn
 20 25 30

Glu Lys Gln Ser Leu Ala Ala Leu Gly Arg Trp Trp Ile Lys Asp Phe
 35 40 45

Leu Leu Pro Asn Lys Lys Cys Leu Pro Asn Gln Ser Ala His Lys Leu
 50 55 60

Arg Ala Pro Lys Gly Arg Arg Leu Ala Ala Leu Lys Cys Arg
 65 70 75

<210> 1867
 <211> 36
 <212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1867

Lys	Ile	Lys	Leu	Leu	Arg	Arg	Phe	Met	Arg	Leu	Leu	Gln	Lys	Lys	Asn
1				5					10					15	

Ala	Ile	Gly	Ala	Leu	Ile	Ser	Lys	Phe	Ala	Tyr	Ala	Lys	Asn	Gly	Ala
			20					25					30		

Arg	Arg	Arg	Lys
			35

<210> 1868

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1868

Arg	Leu	Lys	Leu	Leu	Arg	Lys	Ile	Trp	Lys	Ile	Tyr	Arg	Arg	Pro	Cys
1				5					10					15	

Ala	Ala	Gly	Ala	Ser	Cys	Ala	Gln	Leu	Asn	Ser	Lys
			20					25			

<210> 1869

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1869

Lys	Leu	Arg	Trp	Leu	Ser	Lys	Phe	Met	Arg	Lys	Trp	Thr	Ser	Met	Arg
1				5					10					15	

Phe	Lys	Leu	Phe	Leu	Leu	Asp	Lys	Ala	Leu	Lys	Lys	Cys	Ala
			20					25				30	

<210> 1870

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1870

Leu Leu Arg Phe Ile Arg Arg Leu Phe Arg Lys Trp Lys Arg Glu Leu
1 5 10 15

Ala Leu Lys His Thr
20

<210> 1871

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1871

Arg Leu Lys Met Leu Asn Arg Phe Leu Arg Lys Ile Thr Lys Ala Gln
1 5 10 15

Ala Lys Leu Met Ala Phe Leu Asp Leu Arg Arg
20 25

<210> 1872

<211> 47

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1872

Arg Phe Arg Leu Ile His Arg Leu Trp Lys Leu Trp Lys Arg Leu Ile
1 5 10 15

Ala Leu Leu Gln Lys Arg Leu Leu Asn Lys Met Arg Ala Lys Arg Ile
20 25 30

Glu Tyr Leu Phe Arg His Met Met Lys Phe Pro Leu Cys Ala Arg
35 40 45

<210> 1873

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1873

Leu Leu Lys Ile Leu Lys Arg Leu Leu Lys Lys Leu Asn Ser Gly Trp
1 5 10 15

Lys Cys Gly Leu Arg Ala Tyr
20

<210> 1874

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1874

Arg Met Arg Leu Leu Lys Arg Phe Leu Lys Trp Tyr Gln Lys Leu Gln
1 5 10 15

Thr Arg Leu Leu Lys Val Leu Arg Leu Trp Ala Phe Cys Ile Trp Cys
20 25 30

Lys

<210> 1875

<211> 58

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1875

Lys Leu Lys Leu Trp Ser Lys Phe Met Arg Tyr Leu Lys Cys Ala Phe
1 5 10 15

Cys Arg Ala Gln Lys Leu Leu Ile Ala Lys Ala Ala Leu Ala Lys Met
20 25 30

Ala Trp Thr Phe Asn Arg Gln Glu Ala Ala Arg Arg Arg His Gln Phe
35 40 45

Gln Lys Glu Val Tyr Ala Ala Arg Leu Arg
 50 55

<210> 1876
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1876

Lys Tyr Arg Met Leu Ser Arg Ile Leu Arg Arg Phe Gln Lys Ala Lys
 1 5 10 15

Val Ser Cys His Arg Trp Leu Ala Lys Pro Thr Lys Leu Ala Val Leu
 20 25 30

Ala

<210> 1877
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1877

Trp Tyr Lys Leu Leu Cys Lys Trp Leu Lys Lys Met His His Leu Lys
 1 5 10 15

Phe Arg Lys Lys Gln Leu Leu Ala
 20

<210> 1878
 <211> 45
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1878

Tyr Leu Lys Phe Trp Lys Lys Ile Leu Lys Lys Phe Thr Lys Val Val
 1 5 10 15

Arg Ile Leu Ile Gly Leu Ser Ala Asn Arg Ala Ala Ala Lys Lys Ala
 20 25 30

Asn Leu Ser Ala Lys Arg Thr Glu Ile Lys Ala Phe Arg
 35 40 45

<210> 1879
 <211> 27
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1879

Trp Leu Lys Phe Leu Lys Lys Leu Ile Lys Trp Leu Ser Lys Leu Arg
 1 5 10 15

Ala Tyr Ala His Ala Arg Asn Glu Arg Glu Trp
 20 25

<210> 1880
 <211> 57
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1880

Trp Leu Arg Leu Phe His Arg Phe Ile Arg Lys Leu Arg Arg Met Ala
 1 5 10 15

Cys Gly Lys Val Gln Val Lys Ala Phe Lys Arg Tyr Trp Leu Leu Leu
 20 25 30

Pro Lys Leu Asp Arg His Ala His Arg Lys Arg Ala Leu Thr Ala Val
 35 40 45

Tyr Lys Arg Ala Ala Val Leu Trp Gln
 50 55

<210> 1881
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1881

Leu Ile Lys Leu Leu Arg Lys Trp Tyr Arg Arg Ile Arg Lys Val Asn
 1 5 10 15

Gln Tyr Val Leu Cys Ala Ala His Arg Trp Ala Lys Pro
 20 25

<210> 1882

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1882

Tyr Trp Lys Tyr Leu Lys Lys Ile Tyr Arg Ile Leu Arg Ser Ala Arg
 1 5 10 15

Tyr Ala Leu Leu Ala Lys Asn Pro Thr Arg Lys Leu Asn Ala Leu Ile
 20 25 30

Lys Lys Leu Arg
 35

<210> 1883

<211> 81

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1883

Phe Leu Lys Leu Leu Lys Lys Tyr Phe Lys Lys Phe Arg Lys Leu Asp
 1 5 10 15

Ala Lys Arg Met Lys Arg Gly Leu Asn Tyr Lys Cys Gln Arg Met Asp
 20 25 30

Pro Ser Ser Leu Lys Glu Val Lys Leu Lys Ile Lys Leu Leu Tyr Asp
 35 40 45

Leu Lys Trp Pro Pro Ser Arg Arg Ala Pro Gln Ile Ala Cys Arg Thr

50

55

60

Ala Arg Asp Arg Leu Asn Asp Ala Gln Lys Leu Met Ala Leu Arg Tyr
 65 70 75 80

Ala

<210> 1884

<211> 81

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1884

Leu Leu Lys Ile Phe Lys Arg Tyr Leu Arg Leu Met Pro His Lys Val
 1 5 10 15

Arg Ala Cys Lys Arg Ala Glu Leu Ala Arg Arg Cys Lys Leu Thr Tyr
 20 25 30

Arg Phe Thr Lys Leu Glu Gly Leu Gly Leu Ser Glu Pro Glu Lys Arg
 35 40 45

Tyr Ala Ala Arg Thr Trp Lys Lys Ile Trp Gly Ala Lys Arg Thr Ala
 50 55 60

Arg Lys Met Asp Leu Leu Arg Ile Lys Asn Gly Arg Ala Gln Arg Asn
 65 70 75 80

Tyr

<210> 1885

<211> 43

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1885

Lys Phe Lys Tyr Met Lys Lys Phe Ile Lys Arg Ile Arg Asn Cys Leu
 1 5 10 15

His Ala Lys Tyr Arg Lys Lys Leu Ala Ser Met Arg Met Ser Ala Ala
 20 25 30

Leu Leu Ala Arg His Tyr Cys Asn Leu Ala Gly
 35 40

<210> 1886
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1886

Lys Leu Lys Met Phe Asn Arg Met Leu Lys Lys Leu Arg Arg Ser Leu
 1 5 10 15

His Phe Asp Ala Leu
 20

<210> 1887
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1887

Arg Leu Arg Trp Tyr Arg Lys Tyr Leu Arg Met Leu Lys Arg Met Lys
 1 5 10 15

Val Trp Trp Arg Leu Gly Ala Phe Leu Cys Lys Asp Ala Lys Leu Leu
 20 25 30

Ala Thr

<210> 1888
 <211> 26
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1888

Arg Leu Arg Tyr Phe Gln Lys Leu Met Lys Leu Leu Lys Lys Asn Ala
 1 5 10 15

Ser Ile Leu Asp Ala Glu Pro Arg Thr Ala
 20 25

<210> 1889
 <211> 27
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1889

Lys Leu Lys Phe Leu His Lys Tyr Met Lys Arg Phe Thr Lys Glu Val
 1 5 10 15

Ala Pro Arg Ala Leu Lys Leu Cys Leu Leu Met
 20 25

<210> 1890
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1890

Leu Met Arg Leu Leu Arg Lys Phe Leu Lys Arg Leu Lys Arg Gly Trp
 1 5 10 15

Trp Asp Ala Ala Arg
 20

<210> 1891
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1891

Leu Ile Arg Leu Ile Thr Arg Leu Leu Arg Lys Leu Lys Arg His Val
 1 5 10 15

Val Arg Arg Gln Ala Ala Tyr
20

<210> 1892
<211> 75
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 1892

Lys Leu Lys Tyr Trp Lys Lys Trp Tyr Lys Leu Tyr Cys Ser Lys Arg
1 5 10 15

Arg Val Arg Leu Thr Trp Lys Arg Met Leu Lys Leu Gly Arg Lys His
20 25 30

Arg Pro Asp Leu Leu Ala Val His Phe Ala Gln Ser Arg Leu Ala Lys
35 40 45

Met Leu Tyr Leu Ala Arg Glu Ala Ala Lys Trp Ala Pro Ser Cys Asn
50 55 60

Ser Asp His Lys Arg Leu Val Ala Lys Ala Gly
65 70 75

<210> 1893
<211> 83
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 1893

Lys Leu Lys Phe Tyr Gln Lys Leu Leu Lys Arg Ile Arg Arg Glu Lys
1 5 10 15

Cys Arg Val Pro Gln Arg Arg Asp Ala Lys Glu Lys Thr Phe Lys His
20 25 30

Cys Ala Ala Arg Ser Arg Cys Tyr Ser Leu Pro Leu Ile Met Ala Ala
35 40 45

His Arg Met Arg Lys Arg Asp Leu Arg Ala Ser Leu Thr Ala Leu Phe

50

55

60

Arg Cys Glu Arg His Ala Gly Ala Asp Leu Lys Leu Ala Pro His Phe
 65 70 75 80

Arg Glu Arg

<210> 1894

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1894

Lys Phe Lys Leu Leu Arg Arg Leu Tyr Lys Lys Leu Arg Asn Arg Thr
 1 5 10 15

Leu Leu Ser Ala Asp Ala Lys Tyr Ser Ser Arg Arg Val Leu Cys Ile
 20 25 30

Trp

<210> 1895

<211> 52

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1895

Leu Met Lys Phe Trp Arg Arg Leu Leu Lys Arg Trp Lys Thr Lys Tyr
 1 5 10 15

Thr Asn Met Arg Thr Asn Lys Leu Lys Ala Asn Lys Val Ala Ala Asp
 20 25 30

Ala Tyr Asn Tyr Asp Arg Ala Leu His Lys Arg Arg Arg Leu Lys Cys
 35 40 45

Pro Met His Ala
 50

<210> 1896
 <211> 48
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1896

Ile Leu Lys Leu Leu Lys Lys Phe Tyr Lys Lys Met Asn Cys Lys Ile
 1 5 10 15

His Ala Asn Lys His Arg Leu Val Ala Leu Leu Ala Leu Lys Met Tyr
 20 25 30

Lys Val Lys Arg Ala Trp Cys Tyr Thr Gln Asn Ala Arg Gly Arg Ala
 35 40 45

<210> 1897
 <211> 49
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1897

Arg Leu Lys Phe Leu Lys Lys Phe Trp Arg Arg Ile Arg Lys Lys Asn
 1 5 10 15

Asn Cys Asn Trp Lys Gly Leu Ala Ala Leu Ala Leu Leu Asn Asn Ile
 20 25 30

Leu Lys Arg Ala Cys Arg Val Thr Ala Phe Glu Leu Lys Leu Leu Ile
 35 40 45

Thr

<210> 1898
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1898

Phe Ile Arg Phe Phe Arg Lys Leu Trp Lys Lys Leu Arg His His Lys
 1 5 10 15

Leu Ala Ser Ala Gly Lys Pro Arg Leu Leu Asn Leu Arg Arg
 20 25 30

<210> 1899

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1899

Trp Phe Arg Tyr Tyr Lys Arg Ile Met Arg Leu Met Gln Ser Ser Leu
 1 5 10 15

Lys Ala Ala Arg Ala Asn Ala Phe Leu Arg Lys Ala
 20 25

<210> 1900

<211> 69

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1900

Lys Leu Arg Trp Tyr Ser Lys Trp Ile Arg Leu Leu Lys Arg Leu Ile
 1 5 10 15

Lys Ala Ile Glu Arg Leu Arg Leu Arg Lys Arg Ile Leu Gly Asn Leu
 20 25 30

Lys Arg Leu Leu Asn Leu His Asp Lys Ala Asn Met Tyr Lys Phe Ser
 35 40 45

Gln Ala Lys Arg Asp His Asn Phe Pro Ala Ala His Arg Val Lys Ala
 50 55 60

Arg Trp Leu Arg Phe
 65

<210> 1901

<211> 85
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1901

Tyr Phe Arg Phe Ile Arg Arg Leu Ile Lys Arg Trp Lys Arg Gly Asn
 1 5 10 15

Asp Arg Arg Ala Cys Ala Arg Ala Phe Arg Gln Pro Gln His Pro Phe
 20 25 30

Lys Lys Leu Arg Tyr Arg Arg Ala Glu Asn Arg Arg Ala Ala Arg Lys
 35 40 45

Ser Thr Glu Asp Ala Ala Phe Phe Leu Arg Leu His Ala Ala Leu Gly
 50 55 60

Lys Trp Ala Leu Lys Phe His Arg Gly Cys Arg Ala Lys Lys Gly Asn
 65 70 75 80

Ala Thr Val Trp Ala
 85

<210> 1902
 <211> 77
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1902

Arg Leu Arg Met Trp Arg Arg Met Tyr Arg Leu Phe Cys Pro Ala Lys
 1 5 10 15

Ala Lys Arg Ala Ala Leu Gln Arg Lys Ile Lys Leu Met Trp Leu Cys
 20 25 30

Lys Leu Gly Tyr Arg Val Phe Cys Ile Ala Cys Lys Thr Thr Lys Ala
 35 40 45

Ala Lys Ser Arg Lys Val Ala Leu Arg Gly Lys Glu Cys His Trp Met
 50 55 60

Ile Val Lys Lys Glu Ala Met Lys Arg Leu Leu Asn Leu
 65 70 75

<210> 1903
 <211> 37
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1903

Met Phe Arg Phe Ile Lys Arg Leu Leu Arg Phe Ile Lys Thr Arg Ala
 1 5 10 15

Arg Arg Asp Gly Ala Leu Arg Glu Ala Ala Lys Ala His Cys Ala Thr
 20 25 30

Thr Glu Arg Leu Ser
 35

<210> 1904
 <211> 80
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1904

Ile Met Arg Leu Met Cys Arg Tyr Ile Lys Leu Trp Arg Lys Leu Ala
 1 5 10 15

Trp Cys Gln Lys Pro Leu Phe Leu Ala Arg Tyr Ser Gln Leu Cys Ala
 20 25 30

Pro Lys Leu Thr Lys Phe Leu Lys Arg Ala Cys Pro Tyr Lys Cys Phe
 35 40 45

Arg Ala Ile Lys Lys Leu Pro Arg Ala Lys Leu Leu Met Tyr Arg Ala
 50 55 60

Arg Trp Lys Gln Ile Thr Lys Trp Lys Arg Val Asn Leu Arg Arg His
 65 70 75 80

<210> 1905

<211> 62
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1905

Arg Tyr Lys Tyr Trp Ser Lys Ile Leu Arg Lys Leu Arg Arg Ala Gln
 1 5 10 15

Ser Lys Leu Pro Leu Ala Glu Leu Val Ala Pro Leu Glu Ala Ala Val
 20 25 30

Trp Arg Lys Met Leu Ala Lys Tyr Leu Arg Lys Gly Asn Val Phe Leu
 35 40 45

Phe Lys Tyr Leu Ala His Lys Arg Ile Leu Arg Ser Cys Gln
 50 55 60

<210> 1906
 <211> 39
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1906

Arg Phe Arg Leu Trp Pro Lys Phe Leu Lys Leu Leu Lys His Arg Ala
 1 5 10 15

Ala Val Met Lys Ala Ala Ile Arg Asp Pro Ile Leu Lys Arg Met Leu
 20 25 30

Leu Met Phe Glu Arg Lys Lys
 35

<210> 1907
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1907

Lys Trp Arg Phe Met Arg Lys Leu Ile Lys Arg Phe Arg Lys Phe Lys

1 5 10 15

Tyr Met Phe Phe Ala Ala Ala Asp Leu Leu Ala Leu Asn Arg
20 25 30

<210> 1908
<211> 38
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 1908

Arg Phe Lys Leu Met Lys Lys Leu Leu Arg Lys Leu Arg Asn Ala Pro
1 5 10 15

Lys Arg Leu Val Cys Arg Arg Asn Leu Gly Met Trp Met Trp Trp Ala
20 25 30

Phe Trp Leu Leu Trp Arg
35

<210> 1909
<211> 62
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 1909

Arg Ile Arg Leu Met Lys Lys Phe Leu Lys Leu Leu Lys His Ile Cys
1 5 10 15

Lys Gly Met Ser Arg Trp Ala Tyr Leu Leu Lys Met Cys Ala Ile Leu
20 25 30

Cys Glu Leu Lys Cys Pro Asn Asp Lys Phe Leu Ala Asp Arg Lys Leu
35 40 45

Trp Leu Cys Leu His Lys Arg Arg Glu Lys Thr Arg Ala Lys
50 55 60

<210> 1910
<211> 85
<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1910

Arg Ile Arg Met Leu Lys Arg Leu Ile Lys Lys Phe Arg Gln Met Arg
1 5 10 15

Ser Glu Gly Leu Lys Met Ala Arg Ala Leu Arg Arg Arg Arg Lys Leu
20 25 30

Lys Lys Arg Ala Glu Gly Thr Gln Leu Ala Pro Asn Gln Gln Met Lys
35 40 45

Phe Ala His Ala Asn Cys Asp Phe Asp Lys Phe Pro Arg His Ser Leu
50 55 60

Lys Leu Lys Tyr Asn Thr Ala Thr Ser Ala Asn Lys Val Leu Arg Ala
65 70 75 80

Lys Val Leu Leu Leu
85

<210> 1911

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1911

Arg Phe Arg Leu Leu Lys Arg Leu Tyr Lys Trp Phe Arg Ser Lys Ile
1 5 10 15

Leu Phe Lys Val Ser Lys Trp Asp Ala Ala Ala Cys
20 25

<210> 1912

<211> 67

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1912

Leu Leu Arg Trp Phe Lys Arg Met Ile Arg Lys Phe Arg Thr Leu Arg
 1 5 10 15

Val Arg Asn His Lys Cys Leu Trp Ala Ala Ser Lys Pro Phe Arg Thr
 20 25 30

Lys Arg Cys Lys Met Lys Cys Arg Val Arg Leu Ala Arg Leu Lys Thr
 35 40 45

Leu Leu Gly Ala Pro Leu Ala Cys Ser Glu Pro Tyr Gln Lys Met Ala
 50 55 60

Gly Lys Leu
 65

<210> 1913
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1913

Ile Leu Arg Leu Leu Arg Lys Tyr Leu Lys Lys Ile Arg Thr Asn Trp
 1 5 10 15

Ala Leu Glu Gly Gly Arg Asn Leu Pro Ala Gly Phe Ala Lys Trp Leu
 20 25 30

Gly Ala Leu Leu Arg Leu Met Arg
 35 40

<210> 1914
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1914

Leu Phe Arg Leu Phe Lys Arg Phe Leu Lys Arg Tyr Gln Arg Ala Ala
 1 5 10 15

Gly His Lys Gln Ala Phe Arg

20

<210> 1915
 <211> 31
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1915

Arg Leu Arg Leu Leu Gln Arg Phe Leu Arg Arg Leu Pro Arg Lys Ser
 1 5 10 15

Lys Leu Met Ile Asp Tyr Leu Arg Pro Leu His Leu Glu Ala Ser
 20 25 30

<210> 1916
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1916

Lys Tyr Arg Ile Ile Lys Lys Ile Met Lys Arg Leu Cys Lys Arg Thr
 1 5 10 15

Leu Ala Ala Tyr Ala Glu Lys Leu Pro Ala Asp Asn Met Arg Asn Leu
 20 25 30

Ala Gly Leu Arg
 35

<210> 1917
 <211> 43
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1917

Lys Leu Lys Ile Phe Arg Lys Phe Met Arg Lys Leu Arg Lys Leu Ala
 1 5 10 15

Ala Arg Ala Glu Leu Val Asp Lys Glu Lys Ala Ile Cys Gly Ala Gln

20

25

30

Thr Ala Thr Lys Lys His Lys Gln Val Leu Ser
 35 40

<210> 1918

<211> 70

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1918

Trp Tyr Lys Phe Phe Lys Arg Leu Trp Arg Tyr Leu Lys Lys Lys Ser
 1 5 10 15

Leu Thr Trp Ala Asn Lys Glu Arg Pro Arg Lys Gly Ala Lys Gln Cys
 20 25 30

Ile Ala Ala Lys Tyr Ala Trp Tyr Leu Gly Leu Leu Gln Val His Ala
 35 40 45

Pro Leu Trp Leu Arg Lys Cys Arg Arg Ala Lys Trp Lys Ala Ala Gly
 50 55 60

Lys Gly Ala Lys Asn Leu
 65 70

<210> 1919

<211> 31

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1919

Met Leu Lys Leu Ile Lys Lys Leu Phe Lys Lys Leu Pro Arg Asn Thr
 1 5 10 15

Ser Leu Lys Gly Ala Ala Leu Ala Ile Lys Lys Gly Gly Gly Val
 20 25 30

<210> 1920

<211> 37

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1920

Arg	Leu	Arg	Phe	Met	His	Arg	Phe	Leu	Lys	Leu	Phe	Ser	Ser	Lys	Leu
1				5					10					15	

Arg	His	Lys	Leu	Asp	Phe	Gln	Ala	Ala	Ala	Arg	Val	Arg	Lys	Arg	Tyr
			20					25					30		

Leu	His	Arg	Leu	Lys
			35	

<210> 1921

<211> 44

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1921

Arg	Tyr	Lys	Tyr	Phe	Ser	Lys	Phe	Phe	Arg	Arg	Trp	Arg	Thr	Arg	Met
1				5					10					15	

Ala	Ala	Arg	Pro	Asn	Lys	Asn	Ser	Leu	Leu	Lys	Leu	Leu	Leu	Leu	Leu
			20					25					30		

Ala	Trp	Met	Ala	Ala	Leu	Gln	Tyr	His	Ala	Val	Arg
		35					40				

<210> 1922

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1922

Arg	Met	Lys	Leu	Met	Arg	Arg	Leu	Leu	Arg	Lys	Phe	Arg	Gln	Ala	Leu
1				5					10					15	

Arg	Leu	Asn	Gln	Asn	Asn	Ala	Val	Gly	Asn
		20						25	

<210> 1923
 <211> 100
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1923

Tyr Leu Arg Tyr Leu Lys Lys Phe Tyr Lys Trp Leu Lys Lys Thr Leu
 1 5 10 15

Lys Ser Asn Leu Asn Asp Leu Lys Pro Leu Arg Phe Ala Asp Arg Lys
 20 25 30

Leu Cys Pro Val Glu Tyr Leu Leu Lys Cys Phe Val Lys Glu Asn Ala
 35 40 45

Arg Arg Thr Val Arg Thr Lys Leu Leu Met Lys Ala Cys Leu Ile Arg
 50 55 60

Ser Arg Gln Arg Lys Asp Lys Leu Ala Trp Ala Ala Asn Thr Asn Ala
 65 70 75 80

Val Leu Lys Asn Arg Lys Thr Ile Arg Arg Arg Arg Leu Ala Ile Met
 85 90 95

Ala Phe Arg Gly
 100

<210> 1924
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1924

Lys Phe Arg Leu Phe Cys Lys Ile Leu Lys Arg Met Arg Lys Leu Pro
 1 5 10 15

Arg Gly Pro Lys Ala Lys Ala Leu Tyr Ser Ala Gly Gln Leu Trp Lys
 20 25 30

Leu Ala Trp Trp

35

<210> 1925
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1925

Arg Phe Lys Phe Trp His Lys Leu Trp Lys Lys Leu Lys Ser Ala Tyr
 1 5 10 15

Gly Lys Glu Leu Met Ala Lys Leu Phe
 20 25

<210> 1926
 <211> 77
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1926

Arg Ile Lys Leu Tyr Arg Lys Leu Met Lys Arg Phe Cys Arg Asn Leu
 1 5 10 15

Leu Leu Asn Trp Arg Leu Leu Trp Ala Gln Val Phe Ala Lys Trp Ile
 20 25 30

Asn Ile Val Leu Leu Arg Ala Pro Glu Ile Leu Val Ala Ala Ala Val
 35 40 45

Lys Arg Leu Arg Met Glu Cys Ser Leu Ala Leu Lys Leu Gly Ile Leu
 50 55 60

Lys Lys Gly Arg Arg Thr Ala Leu Ile His Gly Met Arg
 65 70 75

<210> 1927
 <211> 42
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1927

Leu Phe Lys Phe Phe Gln Lys Leu Leu Lys Lys Ile Arg Ser Lys Leu
1 5 10 15

Tyr Ile Ala Ala Leu Arg Met Gln Leu Lys Arg Trp Asn Ala Ala Leu
20 25 30

Val Phe Tyr Arg Cys Val Leu His Arg Lys
35 40

<210> 1928

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1928

Phe Phe Arg Leu Phe Pro Arg Leu Leu Arg Leu Tyr Cys Ser Arg Val
1 5 10 15

Lys Thr Ala Lys Leu
20

<210> 1929

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1929

Lys Trp Arg Trp Trp His Lys Trp Leu Arg Lys Ile Lys Asn Ala Ala
1 5 10 15

Asp Ala Lys Leu Val Asn Lys Ala Ala Leu
20 25

<210> 1930

<211> 58

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1930

Lys Phe Arg Phe Leu His Arg Leu Leu Arg Leu Leu Arg Lys Leu Leu
1 5 10 15

Arg Thr Ile Leu Met Ala Met Lys Gln Phe Ala Trp Lys Arg Leu Arg
20 25 30

Asn Leu Arg Ser Leu Leu Cys Thr Ala Phe Asp Lys Glu Leu Pro Tyr
35 40 45

Leu Asn Ala Glu Ala Leu Leu Arg Lys Arg
50 55

<210> 1931

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1931

Trp Leu Arg Phe Met Lys Arg Leu Met Lys Ile Trp Cys Thr Leu Leu
1 5 10 15

Glu Ala Arg Ala
20

<210> 1932

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1932

Lys Trp Lys Trp Leu Arg Lys Phe Leu Lys Arg Leu Arg Gln Ala Leu
1 5 10 15

Ala Trp Ala Glu Glu Glu Phe Trp Val Asn Gly Lys Leu Leu Gly Cys
20 25 30

Leu Lys Arg
35

<210> 1933
 <211> 27
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1933

Leu Phe Lys Phe Tyr Cys Lys Phe Phe Lys Arg Ile Ser His Ala Ala
 1 5 10 15

Ser Leu Ile Lys Leu Asp Leu Arg Lys Lys Leu
 20 25

<210> 1934
 <211> 60
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1934

Tyr Leu Arg Trp Met Arg Lys Phe Trp Lys Lys Phe Lys Pro Arg Val
 1 5 10 15

Arg Arg Glu Leu Ile His Arg Leu Ala Glu Lys Met Lys Lys Gln Asn
 20 25 30

Pro Gly Leu Ile Leu Tyr Lys Phe Ala Lys Leu Arg Ala Cys Leu Leu
 35 40 45

Gly Ser Arg Leu His Leu Arg Leu Leu Ser Met Thr
 50 55 60

<210> 1935
 <211> 27
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1935

Ile Phe Lys Leu Trp Asn Lys Phe Leu Arg Arg Tyr Gln Thr His Leu
 1 5 10 15

Arg Lys Ala Leu Thr Leu Arg Gly Ala Lys Arg
 20 25

<210> 1936
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1936

Arg Leu Lys Leu Met Lys Arg Leu Leu Lys Phe Leu Arg Arg Leu Asn
 1 5 10 15

Trp Leu Leu Ser Ala Leu Gln Phe Tyr Trp Glu Leu Asn His Lys His
 20 25 30

Trp

<210> 1937
 <211> 53
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1937

Arg Trp Arg Trp Met Asn Arg Leu Leu Lys Leu Met Thr Lys Glu Leu
 1 5 10 15

Ser Leu Ala Trp Ile Lys Pro Leu Gly Ala Arg Leu Lys Arg Ala Ala
 20 25 30

Arg Ala Phe Asp Asp Trp Lys Lys Arg His Lys Val Pro Ala Asn Leu
 35 40 45

Asp Ile Leu Lys Ile
 50

<210> 1938
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1938

Phe	Ile	Arg	Phe	Leu	Arg	Lys	Ile	Leu	Arg	Arg	Leu	Gln	Lys	Ala	Val
1				5					10					15	

Leu	Ile	Lys	Thr
			20

<210> 1939

<211> 70

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1939

Phe	Leu	Arg	Trp	Leu	Pro	Arg	Leu	Met	Arg	Arg	Leu	Lys	Cys	Arg	Ala
1				5					10					15	

Glu	Pro	Phe	Ala	Arg	Asn	Leu	Leu	His	Arg	Cys	Ile	Gly	Leu	Arg	His
			20					25					30		

Lys	Lys	Arg	Lys	Asn	Gly	Gly	Leu	Ala	Leu	Arg	Gln	Trp	Trp	Leu	Leu
		35					40					45			

Arg	Ser	Leu	Met	Ile	Glu	Lys	Ile	Pro	Ala	Ala	Ala	Glu	Leu	Ala	Ala
	50					55					60				

Ala	Glu	Ala	Leu	Lys	Lys
65				70	

<210> 1940

<211> 38

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1940

Leu	Met	Arg	Tyr	Tyr	Arg	Lys	Leu	Leu	Arg	Arg	Leu	Lys	Arg	Val	Asp
1				5					10					15	

Ala	Leu	Phe	Asp	Ala	Val	Leu	Thr	Pro	Lys	Leu	Asn	Met	Asn	Gln	Leu
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

20

25

30

Lys Lys Asp Met Leu His
35

<210> 1941
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 1941

Lys Met Lys Phe Leu Arg Lys Met Tyr Arg Lys Trp Lys Lys Leu Ala
1 5 10 15

Cys Arg His Arg Val Arg Ala Ala Gly Leu Tyr Leu Leu Pro Val Tyr
20 25 30

<210> 1942
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 1942

Ile Phe Lys Leu Trp Arg Lys Tyr Ile Lys Leu Tyr Lys Asn Ala Lys
1 5 10 15

Ile Ala Thr Ala Ile Arg Ala Ala Ala Arg Leu Ile Arg Thr Arg
20 25 30

Lys His Arg Ile Met His Lys
35

<210> 1943
<211> 33
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 1943

Trp Met Arg Ile Phe Asn Arg Leu Leu Lys Tyr Ile Arg Lys Leu Ala

1	5	10	15
Leu	Ala	Lys	Leu
	20	Ala	Ala
		Lys	Lys
		Cys	Ala
		25	Pro
			Phe
			Arg
			Ser
			30
			Gln
			Thr

Gly

<210> 1944
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1944

Arg	Tyr	Lys	Ile	Leu	Gln	Lys	Leu	Leu	Lys	Lys	Leu	Lys	Lys	Gln	Leu
1				5					10					15	

Arg	Ala	Pro	Ala	Asn	Ile	Pro	Cys	Arg	Trp	Leu	Lys	Trp	Thr
			20					25					30

<210> 1945
 <211> 37
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1945

Phe	Ile	Arg	Leu	Phe	Asn	Lys	Ile	Ile	Lys	Lys	Leu	Lys	Lys	Ala	Leu
1				5					10					15	

Val	Gly	Cys	Lys	Leu	Cys	Ala	Lys	Phe	Cys	Asp	Lys	Leu	Arg	Ala	Leu
			20					25					30		

Arg	Ala	His	His	Trp
			35	

<210> 1946
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1946

Lys Trp Arg Leu Leu Lys Arg Phe Phe Arg Arg Phe Arg His Glu Ser
1 5 10 15

Ala Thr Lys Leu Phe Ala Arg Ser Tyr Arg Asn Ser Ala Leu Leu Arg
20 25 30

Leu His Phe Arg Val Glu Lys Glu
35 40

<210> 1947

<211> 49

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1947

Arg Leu Lys Trp Trp Ser Lys Leu Met Arg Arg Leu Lys Asn Ala Glu
1 5 10 15

Leu Arg Met Cys Asn Gly Cys Gln His Pro Phe Cys Arg Ala Leu Arg
20 25 30

Ala Arg Asn Arg Ala Arg Arg Ala Lys Arg Ile Trp Arg Asp Pro Ala
35 40 45

Ala

<210> 1948

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1948

Arg Ile Lys Phe Leu Arg Arg Tyr Tyr Lys Phe Met Arg Asn Lys Met
1 5 10 15

Leu Asn Arg Pro Lys Arg Leu Val Ala Ile Ala Ala Thr Ala His Gly
20 25 30

Trp Thr Leu Lys Ala Trp Ala Arg
 35 40

<210> 1949
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1949

Lys Leu Lys Trp Met Arg Lys Met Trp Lys Met Phe Lys Lys Lys Arg
 1 5 10 15

Cys Ala Asn Leu Leu Ala Arg Arg Leu Leu Lys Leu Lys Leu Ala Pro
 20 25 30

Ala

<210> 1950
 <211> 50
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1950

Arg Ile Lys Leu Met Arg Lys Leu Tyr Lys Lys Ile Lys Lys Ile Glu
 1 5 10 15

Leu Trp Leu Arg Ala Ala Asp Arg Lys Ile Lys Ala Ala Asn Arg Arg
 20 25 30

Gln Ala His Ala Lys Met Lys Ala Gln Arg Phe Leu Cys Phe Asp Met
 35 40 45

Arg Leu
 50

<210> 1951
 <211> 42
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1951

Arg	Leu	Lys	Leu	Leu	Lys	Arg	Leu	Met	Lys	Arg	Tyr	Thr	Lys	Lys	Leu
1				5					10					15	

Lys	Ser	Cys	Lys	Ala	Leu	Cys	Lys	Gln	Cys	Leu	Met	Ser	His	Gly	Thr
			20					25					30		

Lys	Ala	Gly	Arg	Leu	Lys	Val	Trp	Met	Met
		35					40		

<210> 1952

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1952

Arg	Trp	Lys	Leu	Ile	Arg	Lys	Leu	Leu	Arg	Lys	Leu	Thr	Arg	Lys	Ala
1				5					10					15	

Gln	Arg	Tyr	Leu	Gln	Gly	Ala	Ile	Lys	Leu	Val	Pro	Gly	Asn	Phe	Tyr
			20					25					30		

Ala

<210> 1953

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1953

Ile	Leu	Arg	Phe	Leu	Gln	Arg	Ile	Leu	Arg	Leu	Trp	Lys	Cys	Lys	Lys
1				5					10					15	

Asn	Ala	Cys	Lys
			20

<210> 1954

<211> 48
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1954

Met Tyr Arg Leu Phe Arg Arg Met Leu Lys Leu Phe Thr Lys Lys Arg
 1 5 10 15

Leu Arg Lys Ile Asn Ala Arg Ala Cys Met Leu Asp Ser Ser Pro Lys
 20 25 30

Gly Arg Ala Tyr Leu Glu Ala Arg Ala Val Phe Ala Arg Asp Tyr Lys
 35 40 45

<210> 1955
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1955

Phe Leu Lys Phe Phe Lys Lys Leu Met Arg Met Leu Ser Gln Leu Ala
 1 5 10 15

Ala Leu Lys Ser
 20

<210> 1956
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1956

Lys Leu Arg Leu Leu Gln Arg Trp Leu Arg Arg Leu Gln Lys Leu His
 1 5 10 15

Val Arg Gly Ala Met Gln Phe Ala Cys Cys Ile Asp Lys Arg Leu Ala
 20 25 30

Phe Ala Pro

35

<210> 1957
 <211> 98
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1957

Leu Phe Arg Phe Leu Arg Lys Leu Leu Arg Lys Ile Arg Ser Tyr Trp
 1 5 10 15

Glu Glu Lys Pro Arg Cys Arg Arg Ser Ala Arg Ala Ala Asp Ala Thr
 20 25 30

Trp Leu Gly Lys Arg Arg Leu Ser Lys Ala Val Arg Leu Ile Lys Met
 35 40 45

Pro Ala Glu Leu Trp His Lys Lys Leu Ile Gln Met Arg Arg Ile Asp
 50 55 60

Gln Val Asn Leu Arg Gly Leu Lys Ala Asn His Lys Leu Lys Arg Arg
 65 70 75 80

Lys Ala Gly Leu Ile Arg Ala Pro Ala Ile Leu Phe Met Lys Thr Lys
 85 90 95

Leu Phe

<210> 1958
 <211> 38
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1958

Arg Phe Lys Leu Ile Lys Lys Leu Leu Lys Leu Ile Gln Lys Phe Gly
 1 5 10 15

Ala Cys Phe Tyr Leu Phe Ala Lys Ala Trp Ala Gln Ala Asp Glu Leu
 20 25 30

Leu Tyr Cys Lys Gln Arg
35

<210> 1959
<211> 70
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 1959

Lys Tyr Lys Leu Phe Cys Lys Trp Tyr Arg Phe Phe Arg Arg Leu Asp
1 5 10 15

Cys Gln Arg Lys Leu Arg Arg Ala Asn Ala Arg Arg Ala Pro Lys Leu
20 25 30

Pro Lys Ala Arg Ala Phe Leu Val Arg Ser Ser Phe Arg Leu Gly Arg
35 40 45

Phe Lys Arg Pro Pro His Glu Leu Ser Lys Leu His Asn Leu Leu Lys
50 55 60

Glu Met Asp Arg Ala Leu
65 70

<210> 1960
<211> 50
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 1960

Lys Leu Arg Leu Leu Pro Lys Phe Leu Lys Ile Leu Ser Lys Ile Asp
1 5 10 15

Lys Ala Arg Ala Leu Gln Arg Ala Ile Ala Arg Arg Lys His Lys Leu
20 25 30

Trp Ala Lys Lys Cys Ile Lys Cys Met Ala Met Lys Asn Leu Pro Leu
35 40 45

Arg Leu

50

<210> 1961
 <211> 60
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1961

Leu Met Lys Phe Met Arg Arg Trp Leu Arg Lys Leu Ser Ser Pro Leu
 1 5 10 15

Tyr Arg Lys Gln Ala Arg Lys Glu Arg Leu Val Lys Met Thr Lys Lys
 20 25 30

Tyr Gln Ile Gln Lys Arg Phe Lys Ala Glu Lys Gln Cys Ala Tyr Val
 35 40 45

Ala Ala Val Lys Tyr Leu Leu Ala Ala Phe Lys Ala
 50 55 60

<210> 1962
 <211> 45
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1962

Phe Leu Lys Leu Ile Arg Arg Phe Ile Lys Lys Leu Lys Arg Thr Ala
 1 5 10 15

Glu Asn Arg Ala Ser Leu Gln Cys Arg Ala Gly Lys Ala Leu Trp Val
 20 25 30

Ala Ser Asn Arg Gln His Ala His Ala Arg Arg Ser Phe
 35 40 45

<210> 1963
 <211> 56
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1963

Lys Phe Arg Leu Leu Gln Lys Phe Phe Lys Lys Leu Arg Lys Leu Phe
1 5 10 15

Tyr Leu Ala Arg Asp Thr Met Leu Leu Leu Lys Asn Arg Ala Arg Pro
20 25 30

His Ile Ala Glu Ser Asp Lys Asp Ala Arg Thr Met Leu Leu Lys Leu
35 40 45

Ser Leu Lys Met Phe Gly Ser Leu
50 55

<210> 1964

<211> 73

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1964

Met Leu Arg Trp Tyr Asn Arg Leu Phe Lys Ile Met Pro Gln Lys Arg
1 5 10 15

Gly Asp Ser Lys Leu Phe Leu Arg Ala Val Leu Lys Pro Thr Arg Arg
20 25 30

Asn Leu Glu Val Thr Leu Leu Lys Arg Thr Arg Ala Glu Ala Arg Asp
35 40 45

Phe Cys Lys Ala Ala Asp Leu Arg Lys Arg Ala Ile Arg Arg Asn Cys
50 55 60

Leu Lys Leu Leu Gly Trp Leu Leu Arg
65 70

<210> 1965

<211> 72

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1965

Leu Tyr Arg Leu Phe His Arg Leu Phe Lys Leu Leu Arg Gln Arg Ser
 1 5 10 15

Ala Asp Pro Thr Asn Thr Ala Gln Ala Lys Lys Gln Lys Leu Ser Arg
 20 25 30

Leu Gly Arg Ala Asp Glu Ala Arg Arg Asn Arg Arg Ala Ile Arg Pro
 35 40 45

Trp Leu Lys Ala Gly Lys Met Asp Arg Gly Ala Arg Ala Pro Lys Lys
 50 55 60

Leu Tyr Lys Ile Ala Gly Leu Leu
 65 70

<210> 1966
 <211> 58
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1966

Lys Leu Arg Leu Phe Asn Arg Leu Leu Lys Lys Phe Thr Lys Trp Cys
 1 5 10 15

Arg Glu Ala Lys Arg Asn Arg Lys Ala Leu His Val Cys Val Lys Ile
 20 25 30

Ala Ala Pro Lys Arg Asn Leu Ala Arg Leu Gly Arg Arg Arg Trp Ala
 35 40 45

Arg Ala Gly Ala Ala Arg Val Gly Ile Leu
 50 55

<210> 1967
 <211> 41
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1967

Lys Leu Lys Leu Tyr Gln Arg Tyr Tyr Lys Lys Phe Thr Pro Ser Lys

1 5 10 15

Gly Ala Leu Ile Lys Lys Asp Trp His Trp Tyr Leu Lys Leu Lys Asn
20 25 30

Ala Arg Leu Phe Ala Arg Ala Leu Ala
35 40

<210> 1968
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 1968

Lys Leu Arg Tyr Ile Arg Lys Met Leu Lys Trp Leu Cys Arg Leu Tyr
1 5 10 15

Leu Ser Ala Gly Pro Lys Ser
20

<210> 1969
<211> 22
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 1969

Arg Tyr Arg Phe Leu Pro Arg Leu Leu Lys Leu Phe Asn Arg Ala Ala
1 5 10 15

Val Phe Ser Lys Arg Trp
20

<210> 1970
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 1970

Lys Leu Arg Leu Met Pro Lys Phe Trp Arg Arg Tyr Arg Cys Gln Arg

1 5 10 15

Ala Arg Phe Glu Asp Ala Leu Ala Pro Asn Arg Ala Leu Lys Tyr Val
20 25 30

<210> 1971
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 1971

Lys Trp Arg Trp Leu Arg Lys Leu Met Lys Met Tyr Gln Arg Tyr Ala
1 5 10 15

Tyr Leu Lys Ser Lys Gly Gly Leu Leu Ala Lys
20 25

<210> 1972
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 1972

Leu Phe Arg Ile Leu Arg Arg Phe Leu Lys Ile Leu Lys Ser Leu Leu
1 5 10 15

Gly Leu Lys Arg Cys Glu Arg
20

<210> 1973
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 1973

Met Phe Arg Leu Leu Arg Lys Tyr Ile Arg Leu Phe Arg Asn Leu Lys
1 5 10 15

Met Lys Ala His Gly Cys Ala

20

<210> 1974
 <211> 27
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1974

Trp Leu Arg Phe Phe Ser Lys Phe Leu Arg Leu Trp Arg Lys Arg Trp
 1 5 10 15

Thr Ser Leu Leu Arg Ala Glu Leu Arg Ala Lys
 20 25

<210> 1975
 <211> 26
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1975

Arg Phe Arg Leu Phe Gln Arg Phe Leu Arg Phe Leu Lys His Phe Lys
 1 5 10 15

Ala Leu Leu Arg Ala Ser Thr Ser Ala Leu
 20 25

<210> 1976
 <211> 31
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1976

Met Met Arg Leu Phe Gln Lys Leu Trp Arg Arg Tyr Lys Arg Ala Met
 1 5 10 15

Arg Asp Ser Leu Ala Lys Ala Asn Ala Leu Gly Lys Glu Lys Phe
 20 25 30

<210> 1977

<211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1977

Leu Ile Lys Met Ile Arg Arg Ile Leu Arg Arg Met Asn Arg Thr Lys
 1 5 10 15

Ala Ala Met Lys Ser Gln Ala Ala Ala Trp Pro Lys His Ala
 20 25 30

<210> 1978
 <211> 45
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1978

Arg Tyr Lys Ile Leu His Arg Phe Ile Lys Tyr Tyr Cys Lys Met Lys
 1 5 10 15

Lys Cys Asp Ala Val Leu Lys Lys Leu Ala Leu Trp Leu Lys Lys Arg
 20 25 30

Leu Trp Met Gly Leu Lys Lys Cys Ser His Leu Leu Leu
 35 40 45

<210> 1979
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1979

Tyr Tyr Lys Leu Leu Cys Arg Leu Phe Lys Phe Trp Lys Gln Glu Glu
 1 5 10 15

Val Arg Arg Leu Lys Trp Arg Ala Ala
 20 25

<210> 1980

<211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1980

Trp Leu Arg Leu Phe Ser Arg Phe Ile Arg Arg Trp Arg Arg Ala Gly
 1 5 10 15

Ala Ala Arg His Ser Thr Ala
 20

<210> 1981
 <211> 64
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1981

Leu Trp Lys Leu Leu Lys Arg Phe Phe Arg Trp Ile Lys Pro Ala Arg
 1 5 10 15

Arg Ala Ala Ala Ser Leu Leu Lys Ala Leu Ala Arg Pro Arg Leu Arg
 20 25 30

Val Gln Asn Leu Arg Thr Pro Met Thr Tyr Arg Arg Leu Leu Met Ala
 35 40 45

Met Pro Gly Ala Pro Arg Gln Ala Gln Leu His Ala Pro Gly Asn Val
 50 55 60

<210> 1982
 <211> 44
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1982

Lys Trp Lys Leu Leu Lys Arg Trp Ile Lys Lys Leu Arg Lys Thr Asp
 1 5 10 15

Tyr Leu Asn Ala Tyr Asn His Glu Asn Leu Asp Ser Met Val Leu Lys

20

25

30

Tyr Ala Arg Arg Lys Pro Glu Arg Leu Ala Ala Arg
 35 40

<210> 1983

<211> 43

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1983

Lys Met Arg Leu Leu Thr Lys Leu Leu Lys Arg Trp Gln Lys Lys Asp
 1 5 10 15

Gln Ala Asp Leu Lys Trp Tyr Gln Val Met Arg Arg Phe Leu Asp Val
 20 25 30

Ala His Cys Leu Ala Ala Ala Leu Arg Tyr Pro
 35 40

<210> 1984

<211> 58

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1984

Arg Leu Lys Leu Leu Lys Lys Leu Tyr Lys Arg Phe Cys Arg Gln His
 1 5 10 15

Ala Arg Phe Arg Phe Lys Ile Gly Gln Lys Leu Lys His Arg Glu Leu
 20 25 30

Gly Arg Lys Val Ala Ala Ile Trp Ser Arg Gln Asp Gln Val Ala Ser
 35 40 45

Thr Arg Arg Ala Phe Leu Leu Leu Lys Cys
 50 55

<210> 1985

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1985

Leu Leu Arg Met Leu His Lys Met Leu Arg Leu Phe Arg Lys Trp Lys
1 5 10 15

Lys Pro Arg Tyr Ala Phe Ala Trp
20

<210> 1986

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1986

Ile Met Arg Tyr Ile His Lys Leu Phe Lys Trp Phe Arg His Leu Arg
1 5 10 15

Gln Ala Asn Ser Ala Ala Leu Ala Lys Arg Ala Arg Arg
20 25

<210> 1987

<211> 47

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1987

Lys Leu Arg Phe Trp Lys Arg Met Phe Lys Arg Leu Thr Arg Trp Leu
1 5 10 15

Thr Ser Lys Gln Pro Leu Glu Asp Ala Arg Leu Lys Lys Leu Trp Lys
20 25 30

Arg Leu Arg Glu Leu His Lys Ser Ala Ala Asn His Ala Ala Leu
35 40 45

<210> 1988

<211> 69

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1988

Arg Phe Arg Trp Leu Thr Lys Met Leu Lys Arg Trp Cys Arg Thr Leu
1 5 10 15

Tyr Thr Leu Cys Asn Arg Arg Ser Ala Trp Lys Ala Arg Met Asn Arg
20 25 30

Ala Lys Asn Gly Tyr Arg Ala Leu Ser Ala Val Lys Gln Ala Leu Met
35 40 45

Met Gly Ala Gln Ser Leu Gln Ala Arg Ala Leu Ala Arg Arg Trp Arg
50 55 60

Arg Arg Leu Asp Val
65

<210> 1989

<211> 67

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1989

Arg Leu Lys Leu Ile His Lys Leu Phe Arg Leu Leu Lys Arg Leu Asp
1 5 10 15

Arg Asn Arg Thr Arg Lys Phe Arg Gln Arg Gly Ala Ser Lys Ala Leu
20 25 30

Arg Trp Leu Ala Tyr Gln Thr Leu Met Ala Leu Lys Arg Ile Lys Ile
35 40 45

Met Cys Arg Leu Ala Cys Lys Ala Leu Val Arg Met Lys Thr Thr Trp
50 55 60

Ile Phe Ala
65

<210> 1990

<211> 92
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1990

Lys Phe Arg Trp Leu Thr Arg Trp Leu Arg Lys Trp Lys Asn Pro Leu
 1 5 10 15

Asp Arg Arg Leu His Met Leu Arg His Ala Arg Thr Cys Arg Ala Lys
 20 25 30

Lys Lys Lys Glu Gly Ala Asp Ile Ile Trp Arg Asn Leu Ala Met Lys
 35 40 45

Tyr Thr Ser Gln Leu Phe His Lys Asp Ala Val Arg Ala Lys Arg Leu
 50 55 60

Arg Phe Ala Ala Leu Ala Arg Arg Leu Arg Ile Ala Asp Ala Thr Arg
 65 70 75 80

Arg Ile Ala Asn Ile Lys Lys His Lys Asp Ala Leu
 85 90

<210> 1991
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1991

Lys Leu Arg Leu Met His Arg Leu Met Arg Lys Trp Ser Lys Val Leu
 1 5 10 15

Lys Val Leu Arg Trp Leu His Lys Ala Leu Phe His Lys Thr Phe Ile
 20 25 30

<210> 1992
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1992

Lys Leu Arg Met Trp Cys Arg Leu Leu Arg Arg Met Asn Arg Met Gln
1 5 10 15

Ile Asp Gly Ala Asn Met Ala Pro Ala Phe Ala Ala Leu Leu Leu Lys
20 25 30

Lys

<210> 1993

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1993

Leu Phe Lys Met Leu Arg Lys Ile Leu Arg Arg Leu Lys Cys Glu Leu
1 5 10 15

Tyr Pro Asp Ala
20

<210> 1994

<211> 49

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 1994

Met Met Lys Trp Ile Lys Lys Leu Leu Arg Arg Leu Arg Arg Leu Thr
1 5 10 15

Leu Arg Ile Pro Pro Arg Ala Asp Ala Leu Asp Ala Thr Trp Arg Ser
20 25 30

Glu Cys Phe Lys Lys Phe Leu Cys Ile Ala Leu His Leu Ala Ala Leu
35 40 45

Asp

<210> 1995
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1995

Leu Tyr Lys Leu Trp Arg Lys Phe Leu Arg Lys Leu Lys Asn Asp Ala
 1 5 10 15

Ser Pro Phe Cys
 20

<210> 1996
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1996

Leu Met Arg Leu Phe Arg Lys Leu Tyr Lys Ile Leu Lys Asn Ala Arg
 1 5 10 15

Ala Glu Arg Leu Glu His Met Gly Phe Tyr Tyr Leu Lys Arg Pro Ala
 20 25 30

Leu Glu Lys Gln
 35

<210> 1997
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1997

Leu Met Lys Tyr Leu Thr Lys Phe Leu Lys Arg Leu Arg Arg Arg Ala
 1 5 10 15

Gly Asp Val Met Lys Leu Trp
 20

<210> 1998
 <211> 31
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1998

Arg Leu Lys Phe Leu Thr Arg Met Leu Lys Lys Phe Lys Arg Ala Leu
 1 5 10 15

Asp Glu Arg Arg Arg Arg Leu Leu Trp Leu Pro Gly Leu Cys Arg
 20 25 30

<210> 1999
 <211> 27
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 1999

Met Ile Arg Leu Leu Lys Lys Trp Phe Lys Arg Leu Cys Ser Leu Tyr
 1 5 10 15

Trp Asp Lys Arg Ala Ala Ile Ala Lys Pro Ala
 20 25

<210> 2000
 <211> 65
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2000

Phe Phe Arg Leu Met Ser Lys Trp Leu Lys Leu Leu Lys Lys Tyr Cys
 1 5 10 15

His Ser Lys Cys Cys Gly Ala Ala Ala Val Asp His Leu Lys Leu Ala
 20 25 30

Asn Ser Trp Gln Lys Glu Ala Leu Arg Glu Lys Tyr Ala Lys Asp Lys
 35 40 45

Pro Tyr Lys Pro Leu Arg Val Ala Arg Ala Ala Lys Asp Leu Arg Gln
 50 55 60

Lys
 65

<210> 2001
 <211> 77
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2001

Leu Phe Arg Ile Leu Ser Lys Met Leu Arg Phe Leu Lys Lys Lys Met
 1 5 10 15

Asn Ile Gln Ala Ala Cys Lys Arg Asn Lys Leu Ala Arg Cys Met Trp
 20 25 30

Pro Lys Gly Leu Arg Leu Arg Ala Arg Arg Arg Arg Ala Asn Ala Ala
 35 40 45

Gln Glu Lys Cys Met Phe Glu Gly Arg Leu Leu Ala Ile Leu Cys Cys
 50 55 60

Leu Thr Pro Asp Lys Ser Gln Leu Leu Ala Ala Met Phe
 65 70 75

<210> 2002
 <211> 54
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2002

Leu Phe Arg Phe Phe Thr Lys Leu Phe Lys Leu Ile Ser Lys Leu Arg
 1 5 10 15

Lys Cys Arg Thr Lys Tyr Arg Met Arg Ile Arg Ala Leu Ala Ala Arg
 20 25 30

Ser Pro Ala Lys Glu Ala Trp Lys Leu Leu Leu Lys Phe Ala Lys Pro

35

40

45

Gln His Leu Asp Glu Ile
50

<210> 2003
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 2003

Lys Leu Arg Ile Phe Arg Arg Leu Trp Arg Phe Tyr Lys Arg Leu Leu
1 5 10 15

Arg Lys Glu Met Ala Val Ala Asp Ala Arg Tyr Arg Met Gln Arg Ala
20 25 30

Pro Asn Ala Asp Leu Pro Phe
35

<210> 2004
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 2004

Lys Ile Lys Leu Trp Pro Lys Leu Ile Arg Arg Ile Cys Ser His Arg
1 5 10 15

Ile Cys Ala Asn Lys Lys Leu Ala Arg Met Leu Ile Arg Lys Ala Ala
20 25 30

Ala Tyr Leu Lys Ile Thr Ala
35

<210> 2005
<211> 25
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 2005

Leu Phe Lys Leu Leu Thr Lys Phe Tyr Arg Lys Leu Thr Lys Ser Tyr
1 5 10 15

Gly Leu Lys Ala His Ala Thr Lys Trp
20 25

<210> 2006

<211> 93

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2006

Leu Trp Arg Ile Tyr Lys Lys Leu Ile Arg Arg Tyr Arg Cys Arg Gln
1 5 10 15

Arg Arg Leu Arg His Ala Ser Arg His Asn Pro Lys Ser Ala Ala Met
20 25 30

Asp Lys Leu Asn Leu Arg Glu Asn Lys Arg Ser Lys Leu Arg Leu Ala
35 40 45

Leu Met Leu His Arg Ala Arg Arg Ala Asp Ala Lys Ala Phe Ile Cys
50 55 60

Ala Ala Leu His Gly His Cys Trp Trp Ile Lys Pro Ala His Arg Lys
65 70 75 80

Cys Leu Arg Leu Ala Ala Asp Glu Lys Leu Val Ala Arg
85 90

<210> 2007

<211> 39

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2007

Arg Leu Arg Leu Leu Pro Arg Tyr Trp Arg Lys Ile Lys Ser Lys Thr
1 5 10 15

Leu Arg Ala Trp Ala Val Tyr Thr Ile His Arg Met Leu Cys Glu Arg
 20 25 30

Leu Lys Leu Leu Arg Leu Val
 35

<210> 2008

<211> 55

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2008

Tyr Trp Lys Leu Trp Arg Arg Ile Phe Lys Phe Leu Pro Lys Gly Lys
 1 5 10 15

Ala Cys His Cys Lys Lys Ala Cys Lys Leu Ala Gln Arg Leu Ala Leu
 20 25 30

Ala Met Met Cys Leu Lys Lys Trp Val Ala Arg Arg Lys Ala Asp Leu
 35 40 45

Asn Leu Lys Leu Thr Leu Asn
 50 55

<210> 2009

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2009

Lys Met Lys Leu Ile Arg Arg Phe Leu Lys Met Met Lys Gln Gln Thr
 1 5 10 15

Ala Tyr Leu Ala
 20

<210> 2010

<211> 87

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2010

Arg	Phe	Arg	Trp	Leu	Arg	Lys	Phe	Tyr	Arg	Tyr	Phe	Ser	Arg	Ser	His
1				5					10					15	

Ser	His	Lys	Ala	Ala	Lys	Arg	Arg	Arg	Thr	Arg	Leu	Leu	Leu	Arg	Arg
			20					25					30		

Thr	Ser	Leu	Gly	Ala	Lys	Tyr	Gln	Ser	Arg	Leu	Phe	Lys	Glu	Arg	Cys
		35					40					45			

Lys	Leu	Lys	Lys	Leu	Lys	Cys	Cys	Lys	Arg	Ala	Leu	Met	Asn	Trp	Arg
	50					55					60				

Ala	Phe	Lys	Ala	Leu	His	His	Gln	Thr	Ser	Ala	Lys	Asp	Arg	Lys	Thr
65					70					75					80

Leu	Leu	Leu	His	Tyr	Ala	His
				85		

<210> 2011

<211> 43

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2011

Ile	Ile	Lys	Leu	Phe	Ser	Arg	Leu	Ile	Arg	Ile	Leu	Arg	Arg	Gly	Arg
1				5					10					15	

Tyr	Ala	His	Leu	Ala	Met	Cys	Asn	Lys	Ser	Ala	His	Leu	Ala	Lys	Ser
			20					25					30		

Leu	Lys	Phe	Lys	Arg	Met	Ala	Lys	Ile	Leu	Cys
		35					40			

<210> 2012

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2012

Leu Leu Lys Leu Ile Ser Lys Leu Phe Arg Arg Phe His Gln Asp Lys
1 5 10 15

Lys Ala Ser Gly
20

<210> 2013

<211> 37

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2013

Arg Leu Arg Leu Trp Arg Lys Met Leu Arg Met Phe Arg Arg Thr Ala
1 5 10 15

Arg Met Arg Gly Leu Leu Gly Ser Ala His Pro Cys Arg Ala Val Tyr
20 25 30

Leu Leu Arg Val Arg
35

<210> 2014

<211> 57

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2014

Leu Tyr Arg Phe Met Pro Arg Leu Tyr Lys Lys Leu Arg Lys Gln Arg
1 5 10 15

Pro Ala Ala Met Ala Lys Leu Leu Tyr Glu Phe Leu His Cys Lys Thr
20 25 30

Ala Pro Arg Arg Leu Ala Arg Leu Lys Ala Leu Leu His Phe Leu Gly
35 40 45

Leu Ile Leu Lys Leu Lys Ile Trp Cys
50 55

<210> 2015
 <211> 57
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2015

Met Met Arg Leu Leu Lys Arg Leu Phe Arg Leu Phe His Arg Asp Trp
 1 5 10 15

Glu Cys Ala Val His Pro Gln Arg Arg Asp Gln Leu Lys Asn Phe Gly
 20 25 30

Thr Leu Leu Arg Cys Lys Leu Arg Arg Ala Ala Leu Arg Leu Lys Ala
 35 40 45

Leu Glu His Asp Arg Arg Val His Lys
 50 55

<210> 2016
 <211> 70
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2016

Lys Leu Lys Leu Ile Gln Arg Leu Trp Arg Tyr Phe Cys Lys Glu Asp
 1 5 10 15

Arg Lys His Arg Glu Cys Leu Leu Arg Arg Gly Asp Arg Met Lys Arg
 20 25 30

Lys Leu His Ala Ala Gly Lys Leu Lys Leu Ile Ala Met Met Leu Ile
 35 40 45

Ile Lys Ala Ser Phe Leu Arg Lys Arg Ala Asn Ala Lys Leu Val Gly
 50 55 60

Trp Ile Arg Ser Phe Pro
 65 70

<210> 2017

<211> 98
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2017

Met Leu Lys Leu Phe Cys Arg Phe Met Lys Lys Met Lys Arg Met Ile
 1 5 10 15

Ala Met Ala Arg Ala Asp Ala Gly Lys Glu Lys Phe Ile Val Val His
 20 25 30

Pro Ala Thr Arg Lys Glu Leu Thr Ile Tyr Lys Met Asn Lys Asp Lys
 35 40 45

Leu Leu Leu Met Val Leu His Leu Lys Asp Ala Ala Arg Arg Ala Lys
 50 55 60

Lys Leu Pro Gln Leu Thr Lys Gly Arg Ser Tyr Ala Ala Ala Ala Ser
 65 70 75 80

Ala Lys Arg Ala Tyr Asp Leu Ala Thr Val Ala Ala Asp Lys Lys Arg
 85 90 95

Cys Tyr

<210> 2018
 <211> 76
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2018

Lys Leu Lys Ile Met Arg Arg Phe Met Lys Lys Leu Lys Asn Thr Gly
 1 5 10 15

Ala Lys Tyr Gly Ala Trp Lys Gln Ala Tyr Tyr Ala Ala Lys Ala Ala
 20 25 30

Ala Val Arg Ala Asn Lys Lys Asn Lys Tyr Glu His Ala Lys Ser Ala
 35 40 45

Asp Asp Lys Glu Arg Arg Ala Trp Ala Arg Leu Leu Cys Asn Ala Arg
 50 55 60

Lys Gln Thr Gly Trp Asp Arg Leu Gly Gly Glu Arg
 65 70 75

<210> 2019
 <211> 37
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2019

Trp Tyr Arg Phe Leu Arg Arg Phe Leu Arg Leu Phe Lys Arg Arg Asn
 1 5 10 15

Trp Leu Ala Arg Phe Asn Leu Asp Leu Arg Leu Pro Phe Asn Ala Lys
 20 25 30

Ala Lys Cys Arg Asn
 35

<210> 2020
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2020

Arg Leu Lys Leu Phe Lys Lys Ile Met Lys Arg Leu Ser Arg Ala Phe
 1 5 10 15

Tyr Pro Leu Leu Gln Gly Leu Lys Trp Val Leu Lys Leu Lys
 20 25 30

<210> 2021
 <211> 72
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2021

Phe Leu Arg Phe Met Lys Arg Phe Phe Arg Arg Met Gln Arg Arg Leu
 1 5 10 15

Ala Arg Lys Tyr Thr His Lys Thr Pro Leu Cys Arg Lys Met His Gly
 20 25 30

Ser Asp Leu Ala Gln Lys Arg Arg Leu Leu Val Ala Pro Arg Lys Ala
 35 40 45

Trp Lys Lys Arg Cys Leu Leu Leu Ile Ala Lys Val Leu Lys Lys Ile
 50 55 60

Arg Cys Tyr Val Val Ala Ala Glu
 65 70

<210> 2022

<211> 70

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2022

Arg Leu Arg Phe Leu His Arg Phe Met Arg Phe Leu Lys His Met Thr
 1 5 10 15

Lys Ala Cys Ala Leu Trp Ala Lys Glu Gly Arg Lys Arg Phe Arg Arg
 20 25 30

Arg Gln Leu Leu Trp Arg Arg Leu Glu Ile Cys Gln Ala Ser Arg Thr
 35 40 45

Arg Leu Leu Asp Lys Leu Leu Ala Leu Lys Gln Ile Asn Ala Ala Ile
 50 55 60

Asp Ser Phe Asn His Lys
 65 70

<210> 2023

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2023

Lys Leu Arg Trp Leu Arg Lys Trp Phe Arg Leu Trp Lys Thr Ala Leu
1 5 10 15

Glu Gln Asn Arg Leu Ile Leu Ala Lys Cys Arg
20 25

<210> 2024

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2024

Lys Leu Arg Leu Trp Lys Arg Phe Leu Arg Lys Leu Pro Arg Ser Leu
1 5 10 15

Met Gly Lys Trp Arg Ala Leu Ala
20

<210> 2025

<211> 78

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2025

Trp Trp Arg Phe Leu Lys Arg Ile Phe Arg Arg Phe Ser Arg Ser Leu
1 5 10 15

Leu Arg Lys Pro Ile Gln Tyr His His Ala Leu Leu Leu Leu Ser Leu
20 25 30

Ala Leu Ala Leu Arg Lys Pro Lys Lys Lys Asn Lys Asp Ala Ala Gln
35 40 45

Arg Arg Tyr Lys Lys Lys Met Ile Leu Asp Asp Pro Gln Lys Phe Ala
50 55 60

Ala Leu Ile Leu Phe Glu Arg Asn Asp Leu Val Asn Asn Leu
65 70 75

<210> 2026
 <211> 38
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2026

Lys Leu Arg Met Leu Ser Lys Leu Phe Arg Lys Leu Arg Lys Lys Ala
 1 5 10 15

Lys Arg Cys Asn Arg Gly Trp Met Phe Pro Asp Lys Leu Pro Leu Ala
 20 25 30

Leu Ala Met Gly Ala Leu
 35

<210> 2027
 <211> 61
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2027

Arg Trp Arg Leu Phe Lys Arg Tyr Met Arg Lys Phe Arg Thr Gln Leu
 1 5 10 15

Leu Val Gly Arg Val Lys Arg Arg Leu Arg Tyr Ala Arg Leu Ala Ala
 20 25 30

Gly Ala Ala Leu Ala Arg Gln Leu Glu Thr Val Ala Thr Asn Ala Arg
 35 40 45

Ile Leu Thr Tyr Trp Arg Trp Val Tyr Ala Ser Ala Thr
 50 55 60

<210> 2028
 <211> 79
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2028

Lys Tyr Lys Met Met Asn Lys Leu Leu Lys Arg Ile Lys Arg Trp Ala
 1 5 10 15

Lys Asp Leu Gln Arg Ile Lys Lys Ala Met Leu Ala Ala Arg Met Leu
 20 25 30

Leu Arg His Ile Ala Lys Gln Leu Glu Pro Ile Arg Val Lys Asn Ser
 35 40 45

Leu Tyr Cys Val Leu Met Asp Gly Arg Leu Ala Met Arg Gln Leu Met
 50 55 60

Pro Trp Arg Ala Arg Ala Arg Arg His Tyr Arg Ala Pro Ala Pro
 65 70 75

<210> 2029
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2029

Phe Phe Lys Leu Leu Lys Arg Leu Leu Arg Arg Met Lys Arg Thr Cys
 1 5 10 15

Lys Asn Trp Leu Leu Cys Thr Cys Val
 20 25

<210> 2030
 <211> 27
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2030

Arg Phe Arg Leu Phe Gln Arg Trp Leu Lys Ile Ile Lys Lys Arg Gln
 1 5 10 15

Ala Leu Arg Glu Ala Ala Gln Lys Val Leu Ala
 20 25

<210> 2031

<211> 38
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2031

Arg Phe Arg Trp Leu Gln Lys Met Leu Arg Arg Phe Lys His Leu Lys
 1 5 10 15

Ala Ile Leu Ala Cys Leu Arg Ala Ile Ala Ile Ala Met Gly Lys Gln
 20 25 30

Met Asp Arg Lys Lys Cys
 35

<210> 2032
 <211> 53
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2032

Arg Met Lys Trp Ile Lys Lys Trp Leu Lys Leu Met Arg Asn Leu Thr
 1 5 10 15

Glu Lys Leu Phe Pro Ala Leu Cys Phe Ala Met Trp Ala Leu Lys Ala
 20 25 30

Lys Ala Leu Arg Lys Tyr Arg Arg Pro Asn Gly Glu Cys Glu Trp Arg
 35 40 45

Arg Ala Leu Ala Ala
 50

<210> 2033
 <211> 74
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2033

Arg Tyr Arg Ile Leu Lys Lys Phe Leu Arg Arg Leu Pro Ser Leu His

1 5 10 15

Lys Arg Arg Val Tyr Asn Leu Phe Asp His Ala Glu Asp Asn Pro Ser
 20 25 30

Ala Ala Ala Leu Cys Leu Arg Ile Ala Leu Asn Leu Ala Leu Ala Ala
 35 40 45

Leu Leu Lys Met Ala Gln Gln Arg Phe Arg Leu Ser Arg Glu Lys His
 50 55 60

Ala Ser Arg Arg Phe Arg Leu Lys Met Asp
65 70

<210>	2034
<211>	38
<212>	PRT
<213>	Artificial Sequence
<220>	
<223>	Computer-generated peptide variant
<400>	2034

Leu Met Lys Trp Ile Lys Arg Phe Phe Arg Trp Leu Gln Thr Leu Arg
1 5 10 15

Leu Phe Leu Lys Arg Gly His Leu Arg Arg Lys Arg Trp Leu Ala Cys
20 25 30

Lys Leu Thr His Ala Leu
35

<210>	2035
<211>	34
<212>	PRT
<213>	Artificial Sequence
<220>	
<223>	Computer-generated peptide variant
<400>	2035

Lys Ile Lys Leu Met Arg Lys Phe Leu Arg Arg Leu Cys Arg Lys Leu
1 5 10 15

Thr Arg Asp Thr Glu Leu Arg Ala Cys Leu Trp Gly Gln Asp Ala Trp
20 25 30

Cys Arg

<210> 2036
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2036

Leu Ile Arg Tyr Leu Asn Arg Leu Trp Arg Leu Leu Asn Lys Leu Ser
 1 5 10 15

Pro Arg Tyr Leu Asp Ala Arg Arg Leu Ser Lys Ser Asp
 20 25

<210> 2037
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2037

Leu Ile Arg Met Met His Lys Phe Leu Arg Leu Leu Arg Arg Lys Phe
 1 5 10 15

Ala Phe Asp Lys
 20

<210> 2038
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2038

Arg Leu Arg Trp Phe Pro Lys Trp Phe Arg Ile Trp Asn His Arg Leu
 1 5 10 15

Leu Met Lys Ala Ala Lys Arg His His Leu Arg Gly Lys Gln Leu Arg
 20 25 30

Ala

<210> 2039
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2039

Lys Leu Arg Phe Phe Arg Arg Phe Tyr Lys Leu Leu Cys Arg Arg Ser
 1 5 10 15

Lys Asn Ala Ala Leu His Trp Leu Ala Gln Leu Gly Gly Thr Ala Glu
 20 25 30

<210> 2040
 <211> 93
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2040

Lys Trp Lys Leu Met Thr Lys Leu Ile Lys Leu Tyr Thr Asn Leu Glu
 1 5 10 15

Ala Leu Ala Ser Leu Ala Lys Leu Lys Arg Met Ala Ser Tyr Thr Asn
 20 25 30

Pro Lys Thr His Thr Trp Arg Ala Phe Asn Lys Cys Lys Arg Trp Ser
 35 40 45

Met Leu Ala Lys Glu Ala Arg Pro Ala Arg Ala His Asn Asp Lys Ala
 50 55 60

Asn Lys Asn Lys Ala Cys Val Leu Ala Arg Asn Pro Arg Ala Lys Tyr
 65 70 75 80

Lys Ala Arg Ala Pro Arg Leu Thr Leu Cys Ala Pro Arg
 85 90

<210> 2041

<211> 42
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2041

Lys Leu Arg Trp Leu Pro Lys Phe Phe Arg Leu Phe Lys His Arg Lys
 1 5 10 15

Ser Pro Ser Leu Leu Lys Phe Lys Ala Leu Leu Leu Ala Glu Cys Ala
 20 25 30

Lys His Leu Arg Glu Thr Gly Lys Trp Pro
 35 40

<210> 2042
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2042

Arg Leu Lys Leu Leu Asn Arg Trp Ile Arg Trp Met Cys Arg Arg Ala
 1 5 10 15

Ala Gln Val Asn
 20

<210> 2043
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2043

Phe Met Lys Leu Phe Arg Arg Tyr Leu Lys Lys Leu Ser Gln Pro Leu
 1 5 10 15

Ala Ser Cys Ala
 20

<210> 2044

<211> 74
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2044

Lys Ile Lys Phe Leu His Lys Phe Leu Arg Lys Met Lys Thr Arg Leu
 1 5 10 15

Val Trp Pro Asn Leu Pro Met Cys Lys Tyr Ala Ala Ala Arg Pro Ala
 20 25 30

Tyr Lys Lys Arg Ala Lys Ala Met Trp Gln Ala Arg Asn Arg Arg Leu
 35 40 45

Arg Trp Tyr Asp Ala Asp Arg Ser Phe Arg Arg Ser Ala Lys His Leu
 50 55 60

Lys Ala Asn Arg Ala Trp Arg Leu Met Tyr
 65 70

<210> 2045
 <211> 60
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2045

Lys Leu Lys Met Phe His Lys Trp Ile Arg Lys Leu Gln Pro Asn Arg
 1 5 10 15

Met Arg Ser Lys Leu Arg Met Leu Ala Leu Cys Leu Tyr Lys Ala Lys
 20 25 30

Leu Lys Leu Ser Leu Pro Ser Tyr Lys Arg Leu His Val Lys Phe Met
 35 40 45

Thr Lys Ala Leu Phe Ala Phe Pro Arg Arg Lys Pro
 50 55 60

<210> 2046
 <211> 70
 <212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2046

Lys Leu Lys Phe Met Arg Lys Met Tyr Lys Met Leu Lys Ser Arg Ala
1 5 10 15

Met Leu Val Lys Glu Trp Gly Asn Pro Ala Ala Leu Pro Arg Gly Ala
20 25 30

Gly Leu Met Thr Ala Arg Lys Ala Trp Asp Asn Lys Lys Lys Ala Glu
35 40 45

Phe Ala Ile Asn Leu Gly Ala Arg Leu Asn Met Arg Lys Thr Lys Asp
50 55 60

Ala Ile Ala Ala Leu Ala
65 70

<210> 2047

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2047

Arg Leu Lys Ile Met Pro Lys Phe Phe Lys Lys Trp Lys Lys Ala Leu
1 5 10 15

Leu Ala Arg Leu Ser Trp Ala Lys Glu Ala Ala Ser Trp Arg Lys Thr
20 25 30

His

<210> 2048

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2048

Arg Phe Arg Leu Phe His Lys Phe Leu Lys Arg Ile Arg Cys His Ala
 1 5 10 15

Lys Lys Ala Met Thr Leu Arg Ala Glu Gly Arg Lys Ser Leu Ala Asp
 20 25 30

His Leu Gln Arg Leu Gln Gly Thr
 35 40

<210> 2049
 <211> 48
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2049

Lys Trp Lys Phe Phe Lys Arg Ile Tyr Arg Leu Leu Lys His Ala Ala
 1 5 10 15

Lys Lys Ala Met Phe His Asp Asp Leu Ala Leu Asp Ala Leu Arg Thr
 20 25 30

Ala Lys Ser Arg Pro Lys Asp Val Lys Ala Arg Lys Tyr Leu Phe Pro
 35 40 45

<210> 2050
 <211> 80
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2050

Leu Met Arg Leu Trp Arg Lys Ile Leu Arg Trp Met Thr Thr Met Arg
 1 5 10 15

Thr Cys Lys Trp Glu Val Lys Asn Tyr Trp Pro Leu Arg Leu Lys His
 20 25 30

Ala Leu Leu Thr Ala Leu Lys Arg Arg Cys Ile Gln Ser Lys Asp Ile
 35 40 45

Leu Arg Leu Ala Val Leu Gly Asn Arg Ala Ala Leu Leu Lys Lys Arg

50

55

60

Lys Asp Met Leu Leu Pro Ala Met Ala Pro Leu Ala Ile Ile Arg Ala
 65 70 75 80

<210> 2051
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2051

Arg Leu Lys Trp Tyr Asn Arg Phe Leu Arg Arg Leu Thr Lys Glu Ala
 1 5 10 15

Thr Ala Asn Ala Lys Lys Val Phe Asp Met Ala Leu Ala Arg Leu Asp
 20 25 30

His Thr Arg Cys Lys Asn Ala Arg
 35 40

<210> 2052
 <211> 43
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2052

Leu Leu Arg Leu Ile Cys Lys Trp Phe Lys Leu Leu Arg Lys Leu Arg
 1 5 10 15

Cys Cys Arg Leu Leu Leu Lys Asn Phe Val His Ala Leu Ile Ala Ser
 20 25 30

Leu His Cys Trp Arg Ser Ala Arg Cys Lys Ala
 35 40

<210> 2053
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2053

Trp Leu Arg Phe Leu Lys Lys Ile Leu Lys Lys Tyr Thr Arg Ile Ala
1 5 10 15

Arg Leu Ala Ile Ala
20

<210> 2054

<211> 99

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2054

Lys Leu Arg Phe Ile Arg Arg Ile Met Arg Lys Ile Arg Lys Asn Lys
1 5 10 15

Val Leu Leu Leu Ala Ala Arg Leu Lys Ala Arg Ala Gly Lys Glu Gln
20 25 30

Glu Gln Arg Lys Lys Ala Leu Arg Ile Ile Arg Gly Ser Trp Lys Leu
35 40 45

Met Leu Lys Ala Trp Leu Met Lys Asn Ala Leu Val Gln Ala Leu Met
50 55 60

Lys Leu Ala Tyr His Phe Arg Lys Gly Cys Arg Lys Tyr Gln Tyr Arg
65 70 75 80

Ala Lys Ala Asn Gly Pro Arg Leu Lys Pro Gln Lys Lys Glu Leu Ala
85 90 95

Val Pro Lys

<210> 2055

<211> 51

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2055

Lys Leu Lys Ile Leu Lys Arg Tyr Met Lys Arg Ile Pro Lys Ala Lys
 1 5 10 15

Ser Lys Leu Glu Asn Leu Ala Leu Lys Tyr Leu Lys Tyr Val Leu Leu
 20 25 30

Lys Arg Glu Gly Ile Leu Arg Arg Ile Glu Cys Ile Ser Lys Arg Ala
 35 40 45

Thr Ile Ala
 50

<210> 2056
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2056

Leu Leu Lys Leu Leu His Arg Ile Trp Lys Leu Phe Arg Arg Cys Asn
 1 5 10 15

Met Arg Ala Ala Ala Ile Ser
 20

<210> 2057
 <211> 72
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2057

Lys Leu Arg Trp Trp Lys Lys Phe Phe Arg Arg Leu Arg Gln Arg Thr
 1 5 10 15

Ala Ser Trp Phe Gly Met Lys Ser Phe Leu Cys Val Gly Lys Phe Ala
 20 25 30

Leu Asn Leu Lys Ala Leu Ala Arg Arg Lys Ala Lys Tyr Gln Phe Leu
 35 40 45

Leu Tyr Lys Ala Ala Asp Ser Lys Ile Gly Ala Leu Lys Ala Gly Arg

50

55

60

Lys Leu Arg Asp Asp Ser Gly Ala
65 70

<210> 2058
<211> 59
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 2058

Ile Leu Lys Trp Leu Lys Lys Leu Leu Lys Arg Leu Lys Lys Lys Lys
1 5 10 15

His Pro Gln His Ala Leu Glu Lys Val Glu Asn Gly Ala Ala Ile Arg
20 25 30

Trp Thr Cys Lys His Leu Pro Leu Met Ile Ala Ala Lys Leu Lys Tyr
35 40 45

Met Lys Phe Lys Ala Leu Pro Ala Arg Leu Met
50 55

<210> 2059
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 2059

Met Met Arg Trp Tyr Arg Arg Phe Leu Lys Arg Trp Arg Lys Ala Ala
1 5 10 15

Leu Leu Ala Asp Arg
20

<210> 2060
<211> 52
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 2060

Lys Tyr Lys Phe Ile Gln Lys Phe Leu Lys Leu Phe Lys Lys Ala Ser
1 5 10 15

Leu Lys Ala Leu Pro Gly Ala Ala Trp Gly Glu Leu Ser Ile Leu Lys
20 25 30

Leu Ala Leu Met Lys Ile Lys Thr Cys Arg Asp Leu Ser Ile Glu Trp
35 40 45

Lys Lys Lys Arg
50

<210> 2061

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2061

Leu Leu Lys Leu Leu Thr Lys Tyr Phe Lys Phe Tyr Arg Lys Leu Ala
1 5 10 15

Tyr Tyr Ser Ser Phe His Lys Phe Lys Leu Pro Lys Lys
20 25

<210> 2062

<211> 70

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2062

Arg Met Arg Leu Leu Lys Lys Tyr Leu Lys Lys Leu Arg Arg Arg Leu
1 5 10 15

Ile Gly Arg Arg Trp Met Asn Asn Ala Cys Leu Arg Ser Leu Lys Ala
20 25 30

Asp Pro Cys Ser Ala Glu Leu Ala Leu Met Cys Cys Leu Arg Leu Asp
35 40 45

Glu Leu Phe Leu Ala Arg Asp Lys Asp Arg Leu Lys Ser Lys Ala Met
 50 55 60

Arg Asn Ile Pro Asn Phe
 65 70

<210> 2063
 <211> 53
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2063

Lys Trp Lys Phe Trp Asn Lys Leu Phe Lys Tyr Phe Arg Arg Ile Gly
 1 5 10 15

Trp Arg Arg Ala Lys Ala Trp Leu Lys Lys Ala Lys Ala Glu Pro Gln
 20 25 30

Thr Pro Met Leu Lys Arg Arg Arg Cys Gly Pro Leu Leu Leu His
 35 40 45

Leu Ala Gly Tyr Lys
 50

<210> 2064
 <211> 48
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2064

Phe Phe Lys Tyr Tyr Lys Lys Leu Leu Lys Phe Leu Thr Arg Leu Leu
 1 5 10 15

Lys Lys Lys Lys Cys Arg Arg Pro Thr Trp Leu Ala Arg Ala Ala Cys
 20 25 30

Trp Ala Lys Ser Arg Gly Met Met Asn Tyr Ala Pro Arg Lys Gln Ala
 35 40 45

<210> 2065

<211> 67
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2065

Leu Ile Arg Phe Tyr Asn Arg Trp Met Arg Lys Trp Arg Lys Ser Lys
 1 5 10 15

Leu Thr Val Glu Leu Leu Cys Gly Ala Pro Arg Ser Phe Leu Thr Trp
 20 25 30

Leu Glu Trp Ala Gln Asn Leu Arg Ile Lys Arg Ser Leu Ala Arg Pro
 35 40 45

Ile Tyr Leu Leu Asn Lys Leu Arg Lys Ala Arg Ala Thr Leu Arg Leu
 50 55 60

Asn Ala Ala
 65

<210> 2066
 <211> 72
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2066

Tyr Trp Lys Leu Leu Arg Lys Phe Tyr Arg Trp Met Arg Asn Lys Tyr
 1 5 10 15

Phe Gln Thr Lys Ile Arg Lys Lys Glu Ser Gly Ala Leu Ala Ala Leu
 20 25 30

Arg Leu Lys Pro Arg Leu Cys Lys Phe Phe Glu Arg Lys Lys Arg Ala
 35 40 45

His Leu Ala Ala Cys Met Leu Tyr Leu Tyr Arg Lys Leu Ala Leu Gly
 50 55 60

Asn Leu Leu Glu Leu Arg Leu Arg
 65 70

<210> 2067
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2067

Leu Leu Arg Ile Leu Lys Lys Leu Leu Lys Arg Phe His Arg Lys Ala
 1 5 10 15

Gln Arg Val Asn Ala Phe Arg Asp
 20

<210> 2068
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2068

Phe Phe Arg Met Ile Thr Lys Leu Met Lys Arg Trp Lys His Lys Leu
 1 5 10 15

Met Ala Lys Ala Ala Phe Lys Lys Lys Thr Ala Leu Trp Lys Leu Arg
 20 25 30

Gly Ser Asn Leu
 35

<210> 2069
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2069

Met Leu Lys Phe Phe Arg Arg Trp Leu Arg Lys Leu Lys Gln Leu Lys
 1 5 10 15

Pro Met Leu Trp Val Lys Ala Gly Ala Cys Asp Lys Leu Leu
 20 25 30

<210> 2070
 <211> 70
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2070

Arg Phe Arg Leu Trp Arg Arg Phe Trp Arg Lys Met Ser Arg Phe Asp
 1 5 10 15

Lys Asn Ala Arg Trp Arg Lys Ala Ser Pro Phe Ala Leu Ala Trp Trp
 20 25 30

Ala Ser Lys Ile Arg Cys Arg Glu Ala Arg Thr Val Ser Leu Gln Ala
 35 40 45

Lys Val Gln Asn Lys Leu Glu Ala Pro Arg Leu Ala Ala Leu Leu Arg
 50 55 60

Ala Met Ala Leu Glu Leu
 65 70

<210> 2071
 <211> 81
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2071

Leu Leu Lys Leu Met Arg Lys Leu Phe Arg Phe Met Thr His Lys Leu
 1 5 10 15

Gln Thr Cys Phe Arg Arg Leu Val Lys Leu Leu Ala Gly Pro Arg Tyr
 20 25 30

Arg Ala Lys Leu Glu Lys Leu Arg Leu Thr Val Arg Met Lys Arg Ala
 35 40 45

Gly Thr Ala Lys Ala Leu Asn Arg Pro Leu Lys Lys Gln Arg Tyr Gly
 50 55 60

Ile Ala Val Ser Phe Leu Pro Arg Arg Phe Phe Thr Met Val Ala Arg

<210> 2074
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2074

Lys Leu Arg Leu Met Lys Arg Trp Met Arg Lys Leu Ser Arg Asp Arg
 1 5 10 15

Pro Ala Ala Lys Leu Leu Tyr Tyr Leu
 20 25

<210> 2075
 <211> 50
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2075

Arg Phe Lys Ile Leu Lys Lys Tyr Leu Arg Ile Phe Ser Arg Ala Lys
 1 5 10 15

Val Thr Leu Leu Arg Arg Cys Arg Ile Arg Trp Pro Leu Ala Leu Asn
 20 25 30

Gln Leu Val Arg Ala Gln Arg Phe Ala Ala Met Lys Ala Leu Arg Leu
 35 40 45

Val Lys
 50

<210> 2076
 <211> 27
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2076

Phe Trp Lys Ile Phe Pro Arg Leu Phe Arg Leu Ile Ser Thr His Ala
 1 5 10 15

Leu Ala Trp Asp Arg Lys Leu Lys Ala Lys Leu
 20 25

<210> 2077
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2077

Arg Trp Arg Leu Met Pro Lys Leu Leu Arg Met Leu Thr Lys Trp Ala
 1 5 10 15

Lys Gln Arg Gln Asp
 20

<210> 2078
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2078

Lys Tyr Lys Leu Tyr Lys Lys Leu Leu Arg Leu Leu Arg Cys Met Gly
 1 5 10 15

Gln Gly Leu Phe
 20

<210> 2079
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2079

Trp Phe Lys Leu Leu Asn Lys Met Phe Lys Arg Met Thr Arg Glu Leu
 1 5 10 15

Tyr Lys Leu Glu Ala Arg Ala
 20

<210> 2080
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2080

Lys Leu Arg Trp Phe Lys Arg Leu Trp Lys Lys Met His Lys Met Lys
 1 5 10 15

Leu Thr His Lys Ala Ala Leu Val Leu
 20 25

<210> 2081
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2081

Phe Tyr Arg Phe Phe Arg Lys Phe Leu Arg Leu Leu Lys His Leu Lys
 1 5 10 15

Trp Asp Ala Val Asn Arg Ala Phe Ala
 20 25

<210> 2082
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2082

Arg Leu Arg Trp Leu Ser Arg Leu Ile Lys Met Phe Gln Arg Cys Lys
 1 5 10 15

Asp Cys Leu Ala Gly Leu Val Lys Arg Leu Gly Lys Leu Lys Asp Tyr
 20 25 30

Asn Gly Ala Ala
 35

<210> 2083
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2083

Tyr Met Arg Tyr Leu Arg Lys Leu Leu Lys Lys Leu Gln Lys Leu Trp
 1 5 10 15

Gln Lys Val Glu
 20

<210> 2084
 <211> 69
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2084

Leu Leu Lys Ile Phe Lys Arg Phe Ile Arg Arg Phe Ser Arg Arg Arg
 1 5 10 15

Ala Ile Val Leu Lys Ile His Met Arg Val His Leu Lys Ala Leu Pro
 20 25 30

Lys Leu Leu Lys Val Arg Leu Glu Ala Arg Asp Ala Tyr Asp Pro Glu
 35 40 45

Lys Leu His Tyr Arg Trp Leu Leu Asn Leu Cys Ala Leu Leu Ser Ala
 50 55 60

Gln Asp Leu Trp Lys
 65

<210> 2085
 <211> 37
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2085

Lys Leu Lys Leu Phe Arg Arg Met Leu Lys Lys Met Lys Lys Ile Met
 1 5 10 15

Glu Leu Gly Arg Tyr Trp Lys Ala Pro Ala Val Leu Cys Leu Asp Lys
 20 25 30

Ala Leu Trp Gly Ile
 35

<210> 2086
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2086

Arg Tyr Arg Trp Leu Arg Arg Leu Tyr Arg Arg Leu Lys Asn Phe Tyr
 1 5 10 15

Lys Trp Ala Gln Ala Arg Ala Leu
 20

<210> 2087
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2087

Leu Leu Arg Leu Met Lys Arg Phe Phe Lys Phe Phe Arg Arg Ala Arg
 1 5 10 15

Glu Ala Cys Ala
 20

<210> 2088
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2088

Ile Leu Lys Phe Ile Lys Lys Leu Leu Lys Arg Met Lys Lys Asp Leu
 1 5 10 15

Leu Asp Lys Asp Ala Val Gln Leu Tyr Lys Ile His Leu Leu
 20 25 30

<210> 2089

<211> 61

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2089

Met Phe Lys Leu Phe Lys Lys Ile Phe Lys Lys Phe Arg His Ala Leu
 1 5 10 15

Gly Gly Ile Thr Leu Arg Arg Ala Lys Gly Arg Asn Leu Thr Trp Lys
 20 25 30

Arg Gln Arg Arg Arg Ala Pro Pro Tyr Arg Leu Ala Ile Leu Arg Ala
 35 40 45

Lys His Arg Ile Ala Ala Val Lys Ala Val Ala Ile Thr
 50 55 60

<210> 2090

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2090

Lys Leu Arg Ile Leu Arg Arg Leu Met Arg Lys Phe Arg His Lys Leu
 1 5 10 15

Leu Ala Leu Leu Pro Leu Arg
 20

<210> 2091

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2091

Arg	Ile	Arg	Trp	Leu	Asn	Lys	Phe	Leu	Arg	Arg	Trp	Gln	Ser	Gly	Arg
1				5				10						15	

Lys	Leu	Lys	Gly	Arg	Leu	Met	Pro	Asn	Tyr	Ala	Leu	Ala	Leu	Leu	Phe
			20					25					30		

Leu	Arg	Ala	Glu
			35

<210> 2092

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2092

Met	Trp	Arg	Leu	Trp	Arg	Arg	Ile	Leu	Lys	Lys	Ile	Lys	Arg	His	Lys
1				5				10						15	

Trp	Leu	Leu	Trp	Thr	Leu	Ala	Ile	Ala	Arg	Ala	Tyr	Ile	Leu	Leu	Ala
			20					25					30		

Glu	Leu
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<210> 2093

<211> 38

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2093

Met	Leu	Arg	Phe	Leu	Lys	Lys	Leu	Ile	Arg	Arg	Trp	Gln	Lys	Met	Leu
1				5				10						15	

Tyr	Leu	Ser	Ala	Arg	Phe	Thr	Ala	Leu	Ala	Tyr	Arg	His	Ala	Val	Lys
			20					25					30		

Trp	Ala	Val	Thr	Ile	Lys
-----	-----	-----	-----	-----	-----

35

<210> 2094
 <211> 27
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2094

Lys Leu Lys Leu Trp Lys Arg Phe Phe Lys Lys Phe Arg Arg Ala Ala
 1 5 10 15

Asn Asn Pro Ala Ala Gln Leu Lys Ser Ser Phe
 20 25

<210> 2095
 <211> 50
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2095

Lys Leu Arg Leu Ile Lys Arg Leu Phe Lys Arg Trp Lys Lys Ala Ala
 1 5 10 15

His Arg Asp Lys Trp Met Tyr Asn Ala Ala Gln Leu Gln Val Cys Arg
 20 25 30

Ala Leu Asn Arg Asp Ser Ala Phe His Arg Leu Leu Ser Leu Arg Leu
 35 40 45

Lys Met
 50

<210> 2096
 <211> 38
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2096

Lys Leu Lys Met Ile His Lys Leu Met Arg Trp Leu Lys Lys Leu Leu

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<210> 2097
<211> 83
<212> PRT
<213> Artificial Sequence
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<400> 2097

Lys Lys Ala Arg His Lys Ser Ala Ala Met Arg Arg Leu Lys Glu Val
20 25 30

Leu Gln Arg Asp Gln Lys Leu Met Arg Leu Leu Asn Leu Leu Arg Lys
35 40 45

Leu Gly Arg Lys Glu Asp Pro Pro Ala Ala Pro Ala Cys Ala Tyr Arg
50 55 60

Ser Arg Ala Gln Ala Asp Ser Ala Tyr Phe Ala Lys Thr Thr Lys Thr
65 70 75 80

Glu Arg Gly

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<210> 2098
<211> 48
<212> PRT
<213> Artificial Sequence
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<400> 2098

Arg Tyr Lys Phe Trp Gln Arg Phe Met Arg Arg Phe Lys Lys Val Lys
1 5 10 15

Ala Ile Arg Phe Lys Arg Leu Ala Asn Lys Ala Lys Ala Cys Ala Leu
 20 25 30

Asp Asn Leu Leu Trp Arg Lys Ala Ala His Asn Gln Gln Met Leu Leu
 35 40 45

<210> 2099

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2099

Lys Leu Arg Phe Trp Arg Arg Phe Met Lys Lys Leu Gln Lys Asn Arg
 1 5 10 15

Thr Arg Asp Arg Asn His Cys Ala Pro Ile Met Ala Lys Leu Leu Leu
 20 25 30

Leu

<210> 2100

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2100

Arg Met Arg Leu Tyr Cys Lys Phe Leu Lys Lys Met His Arg Ile Leu
 1 5 10 15

Leu Leu Ile Lys
 20

<210> 2101

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2101

Lys Phe Lys Leu Leu Asn Arg Leu Leu Lys Arg Leu Lys Ser Val Phe
 1 5 10 15

Met Lys His Ile Arg Met Lys Lys Ala Leu Arg Ala Ala Arg His Leu
 20 25 30

Ala Ala

<210> 2102
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2102

Arg Tyr Lys Phe Trp Arg Lys Phe Phe Lys Phe Leu Arg Lys Met Asp
 1 5 10 15

Gly Leu Gly Leu Arg Ala Phe Glu Lys Gly Arg Leu Leu Lys Pro Leu
 20 25 30

Leu

<210> 2103
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2103

Leu Trp Lys Leu Leu Asn Arg Ile Tyr Lys Leu Met Lys Lys Arg Lys
 1 5 10 15

Ser Lys Asp Leu Ala Ala Lys
 20

<210> 2104
 <211> 85
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2104

Leu Trp Lys Leu Trp Lys Arg Trp Tyr Arg Phe Phe Ser Arg Lys Pro
 1 5 10 15

Leu Arg Glu Gly Phe Leu Ile Leu Asp Leu Asp Ala Arg Leu Ala Ala
 20 25 30

Leu Pro Lys Cys Glu Lys Ala Arg Arg Tyr Ala Ala Arg Lys Trp Lys
 35 40 45

Lys Met Ser Ala Arg Ala Arg Cys Lys Ala Ala Gln Gln Cys Thr Arg
 50 55 60

Asn Arg Glu Gly Leu Lys Gln Leu Leu Ile Ala Lys Asp Ala Ala Leu
 65 70 75 80

Lys Cys Gly Lys Leu
 85

<210> 2105

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2105

Lys Leu Lys Leu Leu Asn Arg Leu Phe Arg Phe Leu Arg Lys Ala Thr
 1 5 10 15

Pro Lys Lys Phe Leu Asn
 20

<210> 2106

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2106

Arg Leu Arg Phe Tyr Ser Lys Tyr Leu Lys Lys Leu His Arg Lys Cys

1 5 10 15

Ala Ser Lys Tyr Pro Leu Pro Leu Gln
20 25

<210> 2107
<211> 26
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 2107

Tyr Ile Lys Leu Phe Lys Lys Phe Leu Lys Phe Leu Arg Cys Ala Val
1 5 10 15

His Lys Leu Lys Ala Ala Ser Lys Gly Leu
20 25

<210> 2108
<211> 34
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 2108

Lys Trp Lys Leu Leu Ser Arg Trp Phe Arg Lys Tyr Cys Lys Leu Trp
1 5 10 15

Ala Ile Ala Leu Arg Pro Met Arg Lys Gly Ile Leu Pro Ala Lys Ala
20 25 30

Tyr Arg

<210> 2109
<211> 36
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 2109

Phe Leu Lys Leu Leu Lys Lys Phe Tyr Arg Ile Leu Lys Arg Cys Gln

1 5 10 15

Arg Arg Lys Ala Met Pro Tyr Lys Asp Leu Thr Cys Ala Ser Lys Leu
20 25 30

Leu Asn Met Ala
35

<210>	2110
<211>	53
<212>	PRT
<213>	Artificial Sequence

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<220>
<223> Computer-generated peptide variant
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 $\langle 400 \rangle$ 2110

Leu Leu Lys Phe Met Lys Arg Met Tyr Arg Arg Leu Asn Arg Ala Tyr
1 5 10 15

Leu Ala Phe Ala Ile Cys Pro Arg Lys Ser Cys Lys Gln Gln Tyr Asn
20 25 30

Arg Lys Arg Ala Arg Met Arg Lys Leu Arg Cys Leu Leu Arg Gly Gly
35 40 45

Ala Leu Asn Cys Arg
50

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<210> 2111
<211> 27
<212> PRT
<213> Artificial Sequence
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<220>
<223> Computer-generated peptide variant
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$\langle 400 \rangle$ 2111

Arg Leu Lys Met Tyr Arg Arg Ile Leu Lys Lys Leu Arg Lys His Arg
1 5 10 15

Ala Asp Met Arg Pro Ala Leu Arg Leu Ala Ala
20 25

$\langle 210 \rangle$	2112
$\langle 211 \rangle$	73
$\langle 212 \rangle$	PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2112

Phe Met Lys Tyr Phe Arg Arg Trp Phe Lys Phe Phe Arg Cys Ala Asn
1 5 10 15

Phe Ser Gly Leu Ala Leu Ala Gln Lys Tyr Arg Leu Phe Thr Leu Arg
20 25 30

Ala Ile Leu His Tyr Arg Leu Gln Ala Arg Arg Lys Arg Ala Cys Thr
35 40 45

Trp Arg Arg Lys Glu Arg Leu Cys Phe Gln Arg Glu Lys Val Ala Ala
50 55 60

Pro Gly Lys Leu Ala Ala Leu Leu Leu
65 70

<210> 2113

<211> 51

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2113

Arg Leu Arg Trp Leu Ser Arg Ile Phe Arg Arg Phe Gln Arg Leu Ala
1 5 10 15

Arg Ala Met Trp Glu Lys Arg Tyr Lys Ala Leu Pro Asp Leu Tyr Asp
20 25 30

Arg Met Glu Lys Lys Lys Leu Pro Glu Ala Pro Ala Ala Leu Asn Arg
35 40 45

Ala Gly Lys
50

<210> 2114

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2114

Leu	Phe	Lys	Leu	Met	Lys	Lys	Met	Phe	Lys	Leu	Leu	Asn	Lys	Leu	His
1				5					10					15	

Ala	His	Tyr	Val
			20

<210> 2115

<211> 48

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2115

Arg	Phe	Arg	Met	Leu	Pro	Arg	Leu	Met	Lys	Lys	Trp	Arg	His	Asp	Lys
1				5					10					15	

Ala	Gln	Leu	Phe	His	Ala	Leu	Arg	Ala	Leu	Lys	Gln	Trp	Gly	Ala	Arg
			20					25					30		

Ala	Ala	His	Leu	Lys	Cys	Arg	Gly	Lys	Arg	Ala	Arg	Tyr	Met	Thr	Cys
		35					40					45			

<210> 2116

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2116

Ile	Leu	Arg	Met	Ile	Arg	Arg	Phe	Ile	Arg	Arg	Leu	Lys	Lys	Leu	Leu
1				5					10					15	

His	Pro	Tyr	Ala
			20

<210> 2117

<211> 39

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2117

Phe	Phe	Lys	Phe	Leu	Thr	Lys	Leu	Leu	Arg	Trp	Met	Arg	Arg	Ala	Ala
1				5					10					15	

Ala	Gln	Ala	Leu	Val	Arg	Ala	Ile	Pro	Ser	Tyr	Ala	Lys	Gly	Ser	Tyr
			20					25					30		

Arg	Arg	Lys	Pro	Ala	His	Leu
		35				

<210> 2118

<211> 37

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2118

Lys	Leu	Lys	Phe	Trp	Lys	Arg	Trp	Met	Arg	Arg	Leu	His	Lys	His	Ala
1				5				10					15		

Lys	Asp	His	Leu	His	Arg	Met	Tyr	Met	Thr	Ala	Arg	Ala	Leu	Asn	Ala
			20					25					30		

Leu	Ser	Ala	Arg	Glu
		35		

<210> 2119

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2119

Lys	Trp	Lys	Trp	Leu	Gln	Arg	Leu	Trp	Lys	Leu	Phe	Asn	Lys	Val	Leu
1				5				10					15		

Pro	Lys	Gln	Leu	Lys	Gln	Lys	Leu
			20				

<210> 2120

<211> 42
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2120

Ile Tyr Lys Tyr Leu Arg Arg Met Phe Lys Lys Leu Arg His Ala Val
 1 5 10 15

Trp Lys Lys Lys Leu His Arg Gly Asn His Ala Leu Arg Met Tyr Leu
 20 25 30

Asn Ala Met Leu Leu Ala His Lys Arg Leu
 35 40

<210> 2121
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2121

Tyr Trp Arg Trp Phe Lys Arg Leu Trp Arg Lys Phe Lys His Pro Pro
 1 5 10 15

Arg Leu Ile Leu Ala Lys Arg Phe Val Leu Ala Gln Arg Asp Gly Asp
 20 25 30

Leu Trp Lys Asp Arg Lys Leu Leu
 35 40

<210> 2122
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2122

Lys Phe Lys Tyr Ile Asn Lys Leu Trp Lys Leu Trp Arg Lys Lys Ala
 1 5 10 15

Pro Ile Cys Leu Pro Leu Ala Thr Ile Arg Lys Lys Leu Lys Ala Gln

20

25

30

Cys

<210> 2123
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2123

Arg Phe Lys Phe Leu Pro Lys Leu Phe Arg Tyr Trp Asn Lys Leu Leu
 1 5 10 15

Glu Leu Arg Ser Leu Arg His Ala Leu Pro Ala Leu Ala Arg
 20 25 30

<210> 2124
 <211> 43
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2124

Arg Leu Lys Tyr Ile Lys Lys Leu Leu Lys Lys Leu Arg Asn Ala Leu
 1 5 10 15

Gln Lys Leu Lys Leu Asp Arg Glu Lys Ser Tyr Trp Asn Gly Arg Ser
 20 25 30

Val Ala Tyr Leu Tyr Ala Ile Ala Cys Met Glu
 35 40

<210> 2125
 <211> 60
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2125

Arg Met Lys Trp Leu Lys Arg Leu Phe Lys Arg Trp Lys Thr Pro Thr

1	5				10				15						
Pro	Ala	Ala	Ala	Leu	Ile	Glu	Lys	Ser	Leu	Leu	Arg	Asn	Val	Leu	Arg
			20					25					30		
Pro	Leu	Ala	Gln	Ala	Leu	Lys	His	Lys	Trp	Ala	Lys	Cys	Met	His	Trp
		35					40					45			
Arg	Phe	Leu	Ser	Thr	Lys	Tyr	Pro	Ala	His	Arg	Leu				
	50					55					60				

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<210> 2126
<211> 47
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 2126
```

Leu Phe Arg Tyr Leu Lys Lys Phe Leu Arg Lys Phe Pro Arg Arg Thr
1 5 10 15

Leu Leu Leu Cys Gln Arg Arg Ser Ala Ala Tyr Ala Phe Leu Phe Leu
20 25 30

Phe Ala Gln Arg Val Ala Met Arg Arg Arg Ala Arg Met Lys Lys
35 40 45

<210>	2127
<211>	31
<212>	PRT
<213>	Artificial Sequence
<220>	
<223>	Computer-generated peptide variant
<400>	2127

Tyr Leu Lys Ile Ile Arg Arg Leu Leu Arg Leu Leu Arg Arg Asn Leu
1 5 10 15

Lys Ser Phe Arg Cys Phe Ala Pro Val Gln Leu Ala Arg Cys Leu
20 25 30

$\langle 210 \rangle$	2128
$\langle 211 \rangle$	29
$\langle 212 \rangle$	PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2128

Met Tyr Lys Ile Leu Cys Arg Ile Leu Arg Leu Tyr His Lys Arg Arg
1 5 10 15

Gln Leu Ile Arg Cys Glu Ala Ile Ala Leu Leu Asn Leu
20 25

<210> 2129

<211> 80

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2129

Ile Trp Lys Ile Phe Lys Lys Phe Leu Arg Arg Met Arg Lys His Tyr
1 5 10 15

Lys Ala Leu Thr Tyr Met Arg Arg Met Leu Ala Thr Met Trp His Lys
20 25 30

Ala Arg Lys Arg Arg Arg Phe Ala Gly Ala Val Arg Asp Ala Gly Pro
35 40 45

Leu Leu His Cys Ala Cys Arg Arg Ala Tyr Phe Val Lys Lys Arg Lys
50 55 60

Gln Lys Tyr Leu Ile Leu Gly Leu Cys Ala Arg Asn Leu Val Arg His
65 70 75 80

<210> 2130

<211> 42

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2130

Lys Leu Lys Leu Phe His Arg Met Leu Arg Arg Met Cys Arg Gly Leu
1 5 10 15

Tyr Ala Glu Met Arg Leu Arg Arg Leu Lys Lys Gly His Phe Phe Ser
 20 25 30

Trp Leu Lys Ala Leu Ala Leu Ser His Asp
 35 40

<210> 2131
 <211> 47
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2131

Arg Leu Lys Leu Phe Lys Arg Tyr Tyr Arg Lys Leu Gln Gln Lys Met
 1 5 10 15

Ser Lys Leu Ala Leu Gln Ser Thr Trp Glu Leu Ala Arg Trp Leu Leu
 20 25 30

Leu Pro Arg Glu Phe Thr Ala Tyr Thr Lys Asp Glu Leu Ala Arg
 35 40 45

<210> 2132
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2132

Arg Leu Lys Leu Leu His Lys Met Tyr Lys Lys Met Thr Arg Pro Arg
 1 5 10 15

Phe Arg Leu Met Leu Leu Pro Trp
 20

<210> 2133
 <211> 56
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2133

Lys Tyr Arg Tyr Phe Lys Arg Leu Leu Lys Lys Phe His Gln Thr Leu
 1 5 10 15

Cys Ala Arg Arg Lys Ala Leu Trp Arg Leu Asn Arg Leu Cys His Leu
 20 25 30

Leu Ala Ser Gln Lys Cys Ala Pro Cys His Glu Ile Ala Ile Lys Lys
 35 40 45

Ile Leu Pro Val Ala Thr Ala Arg
 50 55

<210> 2134
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2134

Lys Leu Arg Tyr Leu Cys Lys Trp Phe Lys Arg Ile Lys Thr Leu Ala
 1 5 10 15

Leu Ala Tyr Ala Arg Val Thr
 20

<210> 2135
 <211> 52
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2135

Arg Tyr Lys Phe Ile Lys Arg Trp Tyr Lys Lys Ile Thr Ser Leu Asp
 1 5 10 15

Leu Arg Trp Leu Leu Asn Ala Glu Val Ser Trp Arg Ser Lys Glu Gln
 20 25 30

Ala Leu Arg Ala Leu Leu Leu Ala Gly Glu Leu Gly Lys Tyr Ala Ala
 35 40 45

Arg Ala Lys Trp

50

<210> 2136
 <211> 54
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2136

Trp Leu Lys Leu Met Arg Lys Leu Ile Arg Arg Met Cys Arg Thr Pro
 1 5 10 15

Ala Glu Leu Lys Leu Val Ala Lys Ser Glu Tyr Cys Asp Arg Ala Arg
 20 25 30

Ala Gly Lys Asp Lys Thr Ser Met Arg Leu Lys Lys Trp Thr Ala Trp
 35 40 45

Lys Ala Arg Asp Arg Leu
 50

<210> 2137
 <211> 62
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2137

Lys Phe Arg Met Met His Lys Leu Phe Arg Ile Phe Arg Ser Ile Trp
 1 5 10 15

Arg Val Leu Arg Pro Ala Arg Ala Ala Leu Asp Ala Glu Leu His
 20 25 30

Ala Lys Thr Arg Cys Ala Arg Leu Lys Thr Asn Arg Leu Ile Ala Lys
 35 40 45

Lys Glu Ala Thr Lys Arg Lys Cys Ser Leu Ile Glu Ala Ser
 50 55 60

<210> 2138
 <211> 40
 <212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2138

Lys Leu Arg Leu Phe Lys Lys Phe Leu Lys Arg Met Ser Lys Trp Tyr
1 5 10 15

Leu Ala Ala Asp Gly Ala Ala Leu Ala Cys Arg Ile Glu Glu Asp Met
20 25 30

Arg Phe Val Gly Ser Leu Arg Leu
35 40

<210> 2139

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2139

Lys Met Lys Leu Leu Arg Arg Met Leu Lys Arg Leu Asn Arg Ala Cys
1 5 10 15

Asn Asp Tyr Arg Leu Asn Cys Trp Leu Pro Ala Asp Arg Gly Arg Ala
20 25 30

Ala Cys Ala
35

<210> 2140

<211> 31

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2140

Leu Ile Arg Phe Phe Arg Lys Tyr Ile Lys Arg Leu Asn Lys Ala Asp
1 5 10 15

Leu Arg Gln Leu Lys Gln Ala Ala Tyr Arg Cys Arg Ala Asn Leu
20 25 30

<210> 2141
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2141

Lys Met Lys Trp Trp Arg Arg Tyr Phe Arg Leu Leu Lys Arg Trp Ile
 1 5 10 15

Thr Leu Lys Asp Ala Glu Leu Ser Ala
 20 25

<210> 2142
 <211> 41
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2142

Arg Leu Lys Leu Phe Lys Lys Leu Trp Arg Leu Trp Thr Arg Leu Arg
 1 5 10 15

Ala Ile Gln His Val Ala Leu Lys Ser Phe Ala Leu Arg Trp Leu Gln
 20 25 30

Asp Tyr Leu Lys Phe Ala Gln Ile Glu
 35 40

<210> 2143
 <211> 84
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2143

Met Tyr Lys Phe Leu His Lys Leu Trp Lys Lys Phe Thr Arg Arg Leu
 1 5 10 15

Val Gln Leu Pro Pro Tyr Leu Ala Tyr Ile Arg Leu Arg Pro Arg Arg
 20 25 30

Leu Arg Leu His Leu Lys Ala Asn Lys Gln Trp Arg Phe Tyr Asp Tyr
 35 40 45

Arg Pro Leu Asn Ala Gly Ile Ile Arg Leu Asn Leu Ala Lys Lys Ala
 50 55 60

Ala Ser Ala Cys Lys Leu Leu Arg Arg Arg Arg Pro Met Leu Asn Thr
 65 70 75 80

Ala Arg Phe Tyr

<210> 2144
 <211> 66
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2144

Lys Leu Lys Phe Leu Cys Lys Tyr Phe Arg Trp Leu Arg Lys Trp Val
 1 5 10 15

Ile Tyr Thr Ile Pro Leu Glu Leu Asn Pro Ile Val Ala Ser Lys Ala
 20 25 30

Arg Arg Phe Ala Ala Trp Lys Lys Ala Lys Leu Gln Arg Lys Glu Arg
 35 40 45

Asn Arg Leu Ala Lys Lys Asn Leu Leu Thr Ala Lys Ser Thr Glu Lys
 50 55 60

Lys Gly
 65

<210> 2145
 <211> 64
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2145

Arg Phe Lys Phe Leu Cys Lys Leu Leu Arg Arg Trp Cys Arg Leu Leu

1 5 10 15

Arg Arg Leu Lys Ala Leu Asn Trp Cys Leu Leu Gly Val Lys His Pro
20 25 30

Leu Phe Arg Ala Leu Glu Tyr Ser Ala Gly Met Ala Ala His Thr Met
35 40 45

Asp Val Pro Arg Leu Ala Ala Arg Lys Phe Arg Trp Leu Arg Trp Gln
50 55 60

<210> 2146
<211> 46
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 2146

Tyr Leu Lys Tyr Phe Lys Lys Phe Phe Lys Leu Leu Arg Cys Lys Ser
1 5 10 15

Leu Ile Phe Pro Ala Ala Arg Leu Leu Phe Ala Met Lys Glu Arg Arg
20 25 30

Cys His Ala Leu Gln Arg Cys Arg Leu Lys Ala Ala Ser Lys
35 40 45

<210> 2147
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 2147

Arg Leu Lys Trp Phe His Arg Phe Trp Lys Lys Leu Lys Cys Ala Leu
1 5 10 15

Asp His Ala Leu
20

<210> 2148
<211> 55
<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2148

Arg Met Arg Leu Tyr Arg Arg Phe Tyr Lys Lys Met Lys Arg Ile Arg
1 5 10 15

Lys Arg Lys Leu Lys Glu Leu Leu Ile Leu His Val Leu Phe Met Arg
20 25 30

Ala Ala Lys Ala Tyr Leu Ala Leu Thr Arg Thr His Leu Arg Ala Lys
35 40 45

Ala Ala His Arg Asp Asp Ile
50 55

<210> 2149

<211> 45

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2149

Phe Phe Lys Met Tyr Arg Lys Leu Leu Lys Leu Phe Lys Arg Ala Arg
1 5 10 15

Ala Arg Leu Thr Gly Ala Leu Ala Tyr Glu Arg Ala Val Cys Phe Arg
20 25 30

Ala Pro Asp His Ala Leu Ser Gln Leu Ile Gln Lys Cys
35 40 45

<210> 2150

<211> 73

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2150

Arg Leu Lys Leu Ile Arg Lys Leu Leu Arg Lys Trp Arg Arg Met Leu
1 5 10 15

Pro Cys Ala His Arg His Arg Lys Leu Leu Arg Ala Ala Lys Thr Ala
 20 25 30

Ala Leu Phe Ser Ile Lys Trp Ile Lys Ala Phe Asp Thr Gly Leu Arg
 35 40 45

Arg Cys Arg Leu Met Lys Leu Ala Gly Trp Arg Lys Ala Lys Cys Lys
 50 55 60

Ile Arg Gln Leu Lys Met Ala Thr Phe
 65 70

<210> 2151
 <211> 80
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2151

Ile Leu Arg Leu Trp Arg Arg Trp Trp Lys Arg Leu Lys Lys Cys Trp
 1 5 10 15

Leu Ala Lys Gln Ala His Lys Arg Cys Lys Glu Arg Leu Trp Leu Cys
 20 25 30

Leu Glu Leu Ile Ala Ser Phe Cys Cys Thr Lys Val Arg Lys Arg Arg
 35 40 45

Thr Glu Lys Phe Leu Ile Arg Arg Phe Leu Gln Leu Leu Leu Ala
 50 55 60

Gly Ser Asp Cys Asn Thr Leu Lys Tyr Lys Arg Trp Ala Arg Asn Asp
 65 70 75 80

<210> 2152
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2152

Arg Met Arg Leu Leu Arg Arg Phe Trp Lys Lys Tyr Asn Gln Leu Lys

1 5 10 15

Leu Lys Leu Leu Gln Phe Met Asp
20

<210> 2153
<211> 26
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 2153

Leu Trp Arg Tyr Leu Arg Arg Trp Phe Arg Leu Leu Lys Arg His Asp
1 5 10 15

Met Arg Leu Leu Leu Gly Arg Ala Pro His
20 25

<210> 2154
<211> 36
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 2154

Trp Trp Lys Leu Leu Gln Lys Leu Phe Lys Arg Ile Arg Cys Glu Trp
1 5 10 15

His Leu Ser Pro Arg Leu Lys Glu Leu Leu His Lys Leu Leu Lys
20 25 30

Arg Arg Cys Ala
35

<210> 2155
<211> 59
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 2155

Arg Leu Lys Leu Phe Lys Lys Ile Ile Lys Lys Met Asn Lys Arg Leu

Arg	Phe	Arg	Leu	Trp	Asn	Lys	Ile	Ile	Arg	Tyr	Met	Lys	Arg	Leu	Phe
1				5					10					15	
Lys	Lys	Leu	Gln	Arg	Ser	Ala	Ala	Leu	Arg	Ala	Leu	Lys	Leu	Ser	Tyr
			20					25					30		
Lys	Arg	Leu	Cys	Gln	Leu	Cys	Trp	Ala	Ala	Ala	Ala	Val	Thr	Ala	Arg
		35					40					45			
Gly	Trp	Lys	Glu	Leu	Glu	Ala	Leu	Asp	Ala	Leu	Ala	Lys			
	50					55					60				

Lys Leu Lys Trp Trp Lys Arg Leu Met Arg Tyr Phe Arg Gln Pro Leu
1 5 10 15

Ala Arg His Met Ala Asp Gln Trp Ala Thr Arg Lys Arg Asn Glu Ala
20 25 30

Trp Leu Ala Leu
35

<210> 2158
<211> 51
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 2158

Arg Leu Arg Met Leu Lys Lys Trp Met Arg Lys Leu Lys Cys Leu Ala
1 5 10 15

His Val Lys Ala Ile Ala Leu Gly Leu Lys Ala Arg Arg Trp Ala Leu
20 25 30

Lys Met Phe Leu Gly Glu Pro Cys Ile Lys Leu Ile Trp Phe Lys Trp
35 40 45

Arg Lys Lys
50

<210> 2159
<211> 68
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 2159

Lys Trp Arg Leu Ile Lys Arg Ile Phe Arg Phe Ile Arg Arg Lys Leu
1 5 10 15

Cys Thr Arg Ala Leu Met Gly Arg Leu Ala Leu Ile Gly Arg Arg Cys
20 25 30

Ala Arg Arg Arg Ala His Ala Val Ala Met Ala Trp Ala Ile Ala Lys
35 40 45

Thr Asp Tyr Thr Arg Gln Tyr Cys Lys Ile Arg Tyr Leu Gly Lys Lys
50 55 60

Asn Ser Leu Ala

65

<210> 2160
 <211> 43
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2160

Arg Leu Lys Met Leu Arg Lys Phe Leu Lys Leu Phe Lys Arg His Lys
 1 5 10 15

Thr Asp Ile Ser Leu Phe Tyr Cys Pro Cys Leu His Ala Phe Arg Leu
 20 25 30

Lys Ile Lys Ala Arg Thr Arg Lys Gly Leu Val
 35 40

<210> 2161
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2161

Arg Phe Arg Phe Leu Cys Lys Leu Tyr Arg Lys Leu Thr Lys Thr Tyr
 1 5 10 15

Thr Tyr Ala Arg Ala Leu Ala
 20

<210> 2162
 <211> 41
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2162

Lys Phe Lys Phe Phe Lys Lys Tyr Met Lys Leu Ile Asn Thr Leu His
 1 5 10 15

Ala Arg His Cys Leu Lys Ala Asp Ala Thr Phe Lys Ala Arg Gly Ala

20

25

30

Cys Lys Arg Leu Gly Gly Leu Leu Arg
 35 40

<210> 2163
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2163

Tyr Leu Lys Phe Phe Arg Lys Phe Trp Arg Ile Leu Lys Arg Asp Thr
 1 5 10 15

Cys Arg Gln Ala Ser Leu Arg Leu Ala
 20 25

<210> 2164
 <211> 51
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2164

Arg Ile Lys Tyr Phe Arg Arg Tyr Trp Lys Leu Ile Arg Cys Lys Arg
 1 5 10 15

Ala Leu Ala Leu Arg Ile Pro Asp Ala Lys Lys Ala Lys Thr Cys Ala
 20 25 30

Ala Leu Ser Ser Ala Gln Arg Leu Lys Ala His Lys Cys Arg Ala Arg
 35 40 45

Tyr Cys Phe
 50

<210> 2165
 <211> 44
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2165

Ile Tyr Arg Trp Leu Arg Arg Leu Met Lys Leu Tyr Arg His Tyr Arg
1 5 10 15

Lys Arg Arg Ile Ala Gln Pro Lys Arg Leu Ala His Ala Gln Leu Arg
20 25 30

Lys His Ala Asn Leu His Ala Gln Leu Leu Gln Met
35 40

<210> 2166

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2166

Ile Tyr Arg Leu Leu Arg Arg Leu Ile Lys Phe Met His Pro Lys Lys
1 5 10 15

Ser Asp Met Glu Leu Phe Arg Arg Thr Lys Ala Met Leu Leu Ala Leu
20 25 30

Thr Ala Arg Lys
35

<210> 2167

<211> 43

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2167

Arg Phe Arg Trp Leu Lys Lys Tyr Leu Lys Tyr Leu Lys His Arg Ala
1 5 10 15

Leu Leu Ala Lys Lys Asn Asn Asn Leu Asn Glu Leu Ser Leu Tyr Lys
20 25 30

Arg Ala Lys Gly Phe Val Leu Lys Asp Pro Tyr
35 40

<210> 2168
 <211> 50
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2168

Lys Phe Arg Tyr Phe Cys Arg Phe Phe Arg Arg Leu Thr Thr Leu His
 1 5 10 15

Lys Lys Leu Asp Ala Glu Ala Leu Arg Lys Lys Arg Phe Arg Glu Cys
 20 25 30

Glu Leu Leu Leu Lys Ala Leu Arg Tyr Lys Lys Ala Ala Gln Pro Ala
 35 40 45

Lys Ala
 50

<210> 2169
 <211> 38
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2169

Ile Leu Lys Leu Leu Lys Arg Tyr Phe Lys Leu Leu Arg Arg Lys Ala
 1 5 10 15

Asn Ala Arg Arg Pro Lys Cys Phe Lys Val Tyr Leu Phe Leu His Leu
 20 25 30

Arg Trp Pro Lys Asn Thr
 35

<210> 2170
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2170

Tyr Phe Lys Leu Ile Lys Lys Leu Tyr Arg Phe Tyr Ser Arg Ala Ser
 1 5 10 15

Leu Arg Arg Leu Arg Ala Phe Pro Phe Arg Ala Leu Thr Asp Ala Gln
 20 25 30

Lys

<210> 2171
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2171

Tyr Tyr Lys Ile Tyr Lys Arg Leu Ile Arg Leu Leu Lys Ser Trp Gln
 1 5 10 15

Lys Arg Leu Phe Ala Thr Ala Glu Asn Lys Lys Asn Arg Arg Glu Ala
 20 25 30

Ala Asp Leu Ala
 35

<210> 2172
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2172

Leu Trp Lys Met Phe Arg Arg Phe Leu Lys Lys Leu His Arg Met Ala
 1 5 10 15

Ile Cys Leu Arg Arg Val Pro Trp Ala Ala Asp Ala Arg Arg
 20 25 30

<210> 2173
 <211> 44
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2173

Leu	Leu	Lys	Ile	Trp	Arg	Lys	Phe	Leu	Arg	Lys	Leu	Gln	Lys	Cys	Trp
1				5					10					15	

Arg	Ala	Leu	Ala	Arg	Ala	Thr	Tyr	Phe	Leu	Thr	Ala	Tyr	Lys	Gln	Lys
			20					25					30		

Arg	Gln	Pro	Ala	Gln	Met	Leu	Met	Cys	Ala	Gly	Ala
			35				40				

<210> 2174

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2174

Leu	Phe	Lys	Met	Leu	Ser	Lys	Leu	Trp	Arg	Arg	Leu	Arg	Gln	Ser	His
1				5					10					15	

Trp	Lys	Trp	Leu
			20

<210> 2175

<211> 42

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2175

Arg	Leu	Lys	Phe	Met	Lys	Lys	Met	Tyr	Arg	Lys	Met	Arg	Arg	Gly	Ala
1				5					10					15	

Ile	Ala	Ala	Leu	Arg	Pro	Lys	Pro	Asn	Leu	Tyr	Lys	Arg	Ala	Asn	Thr
			20					25					30		

Ala	Leu	Asp	Leu	Ala	Ala	Ile	Gly	His	Met
			35				40		

<210> 2176

<211> 62
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2176

Phe Leu Arg Leu Leu Arg Arg Leu Leu Arg Lys Leu Arg Cys Tyr Gln
 1 5 10 15

Leu Cys Lys Tyr Arg Cys Ala Val Lys Met Arg Leu Lys Lys Met Arg
 20 25 30

Lys Trp Met Arg Arg Asn Phe Leu Gln Lys Ala His Met Gly Cys Leu
 35 40 45

Met Thr Leu Ala Gln Ala His Lys Lys Ala Arg Leu Leu Val
 50 55 60

<210> 2177
 <211> 59
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2177

Leu Leu Arg Leu Leu Arg Arg Leu Trp Lys Phe Leu Lys Asn Ser Thr
 1 5 10 15

Arg Asn Arg Leu Lys Cys Thr Pro Gln Asn Ala Asp Arg Leu Trp Leu
 20 25 30

Leu Tyr Val Ala Leu Pro Ala Arg Asp Glu Gly Leu Ala Gly Lys Asn
 35 40 45

Arg Asp Phe Leu Phe Leu Arg Tyr Ala Asn Lys
 50 55

<210> 2178
 <211> 39
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2178

Arg	Leu	Lys	Met	Met	Ser	Lys	Met	Trp	Arg	Phe	Trp	Arg	Lys	Gly	Ala
1				5				10						15	

Leu	Leu	Phe	Ala	Lys	Val	Val	Lys	Ala	Ile	Thr	Leu	Ala	Cys	Ala	Asp
			20				25						30		

Ala	Val	Ala	Arg	Leu	Lys	Asp
						35

<210> 2179

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2179

Phe	Ile	Lys	Ile	Leu	Lys	Lys	Leu	Met	Lys	Leu	Ile	Arg	Arg	Leu	Arg
1				5				10						15	

Leu	Lys	Lys	Ala	His	Ala
					20

<210> 2180

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2180

Phe	Leu	Arg	Ile	Leu	Lys	Lys	Leu	Leu	Arg	Arg	Met	Lys	Ser	Asn	Val
1				5				10						15	

Ala	Arg	Phe	His	Asn	Arg	Leu	Gly	Glu	Leu	Ala	Ala
			20				25				

<210> 2181

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2181

Arg	Trp	Arg	Leu	Met	Thr	Arg	Phe	Leu	Lys	Arg	Leu	Asn	Ser	Ala	Leu
1				5					10					15	

Pro	Thr	Arg	Lys	Phe	Leu	Ala	Leu	Asn	Ile	Arg	His
			20					25			

<210> 2182

<211> 44

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2182

Arg	Met	Lys	Met	Leu	Arg	Lys	Leu	Leu	Lys	Met	Tyr	Ser	Arg	Leu	Arg
1				5					10					15	

Gln	Leu	Gly	Ser	Leu	Pro	Arg	Phe	Ser	Ala	Lys	Val	Ala	Leu	Lys	Arg
			20					25					30		

Leu	Met	Leu	Glu	Leu	Asp	Ser	Thr	Lys	Gly	Leu	Leu
			35				40				

<210> 2183

<211> 58

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2183

Lys	Leu	Arg	Trp	Trp	Lys	Lys	Phe	Leu	Arg	Lys	Leu	Lys	Cys	Pro	Trp
1				5					10					15	

Lys	Trp	Arg	Val	Thr	Ala	Ala	Asp	Lys	Arg	Arg	Cys	Ala	Ala	Arg	Cys
			20					25					30		

Asp	Ala	Ala	Cys	Ala	Ala	Ala	Lys	Lys	Lys	His	Ala	Leu	Ala	Met	Lys
			35				40					45			

Thr	His	Cys	His	Cys	Tyr	Trp	Met	Met	Pro
	50					55			

<210> 2184
 <211> 47
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2184

Lys Ile Arg Leu Phe Arg Arg Leu Leu Lys Trp Ile Arg Asn His Ala
 1 5 10 15

Phe Asn Leu Cys Leu Phe Leu Trp Lys Lys Arg Asp Arg Leu Asp Thr
 20 25 30

Ala Pro Ala Ala Lys Leu Val Asn Leu Ala Gln Arg Ala Ala Thr
 35 40 45

<210> 2185
 <211> 80
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2185

Ile Tyr Arg Trp Met Lys Arg Ile Phe Lys Lys Ile Pro Lys Ile Ala
 1 5 10 15

Leu Leu Arg Ala Tyr Thr Arg Cys Lys Gly Ser Arg Arg Ala Ala Gln
 20 25 30

Trp Leu Arg Arg Leu Phe Ala Thr Lys Thr Ala Lys Thr Cys His His
 35 40 45

Thr His Met Arg Ala Ala Pro Leu Leu Lys Leu Arg Gln Ile Leu Ala
 50 55 60

Leu Asn Lys Val His Leu Val Lys Lys Arg Arg Ile Lys Leu Gly Gln
 65 70 75 80

<210> 2186
 <211> 49
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2186

Phe	Leu	Arg	Phe	Met	Asn	Arg	Leu	Leu	Arg	Arg	Ile	Thr	Thr	Asp	Ala
1				5					10					15	

Lys	Lys	Arg	Val	Lys	Ala	Asn	Leu	Thr	Val	Arg	Lys	Leu	Ala	Ala	Cys
			20					25					30		

Lys	Thr	Lys	Glu	Cys	Lys	Lys	Leu	Asn	Ala	Gln	Leu	Trp	Ile	Gly	Arg
		35					40					45			

Cys

<210> 2187

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2187

Leu	Leu	Arg	Leu	Trp	His	Arg	Phe	Leu	Arg	Arg	Phe	Arg	Lys	Thr	Ile
1				5					10					15	

Ala	Lys	Ala	Ala	Pro	Val	Lys	Arg	Cys	Phe	Leu	Leu
			20					25			

<210> 2188

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2188

Lys	Phe	Arg	Ile	Ile	Gln	Lys	Leu	Leu	Lys	Leu	Leu	Lys	Lys	Arg	Arg
1				5					10					15	

Ser	Thr	Ala	Arg	Thr	His	Ala	Glu	Thr	Ser	Leu	Ile	Ala	Leu	Phe	Leu
			20					25					30		

<210> 2189

<211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2189

Met Met Arg Leu Leu Lys Lys Leu Trp Arg Leu Leu Arg His Ala Arg
 1 5 10 15

Gly Lys Gly Leu His Ile
 20

<210> 2190
 <211> 27
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2190

Leu Leu Arg Met Phe Lys Arg Ile Trp Lys Ile Tyr Pro Arg Lys Ala
 1 5 10 15

Arg Phe Leu Lys Asn Lys Cys Asp Ala Leu Ala
 20 25

<210> 2191
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2191

Arg Trp Arg Leu Trp Arg Arg Tyr Trp Arg Leu Ile Thr Arg Asn Arg
 1 5 10 15

Asp Arg Gln Leu Met Ile Lys Arg Leu Pro Cys Arg Ala Ala Ile Leu
 20 25 30

Ala Leu Glu Leu
 35

<210> 2192

<211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2192

Leu Leu Lys Leu Leu Asn Lys Leu Ile Lys Arg Leu Cys Thr Ser Leu
 1 5 10 15

Cys Ile Arg Ile Asp Leu Lys Lys Ala Leu Ser Asp Glu Lys Leu Arg
 20 25 30

Arg Phe Pro Phe
 35

<210> 2193
 <211> 87
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2193

Lys Leu Lys Met Met Arg Lys Tyr Leu Arg Leu Phe Thr Arg Ala Leu
 1 5 10 15

Arg Leu Ser Ala Lys Ala Thr Asp Lys Lys Ala Leu Arg Glu Arg Arg
 20 25 30

Ala His Leu Asn Glu Arg Lys Lys Lys Gly Leu Leu Val Ala Tyr Asn
 35 40 45

Arg Leu Ala Asn Ser Ser Leu Ser Glu Arg Val Leu Ser Arg Lys Leu
 50 55 60

Ala Trp His Asp Asn Gln Arg Lys Leu Leu Lys His Leu Leu Asp Ile
 65 70 75 80

Asp Cys His Thr Leu Ser Val
 85

<210> 2194
 <211> 22
 <212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2194

Arg Leu Arg Ile Ile Thr Arg Leu Ile Lys Arg Tyr Lys Arg Arg Ala
1 5 10 15

Ala Ala Met Tyr Asn Ala
20

<210> 2195

<211> 54

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2195

Tyr Leu Lys Trp Tyr Arg Lys Leu Leu Lys Arg Leu Lys Gln Ile Val
1 5 10 15

Arg Leu Lys Lys Ala Gln Gln Leu Ala Tyr Arg Thr Trp Lys Gln Arg
20 25 30

Gly Trp Ala Glu Asp Lys Val Tyr Lys Leu Trp Ala Trp Ala Arg Ile
35 40 45

Ala Leu Ala Leu Lys Gln
50

<210> 2196

<211> 46

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2196

Arg Met Arg Phe Tyr Lys Arg Ile Phe Arg Lys Leu Arg Lys Arg Asp
1 5 10 15

Cys Lys Leu Tyr Ala Phe Tyr Glu Ala Leu Leu Thr Leu Leu Arg Tyr
20 25 30

Arg Phe Leu His Trp Glu Arg Gly Lys Leu Leu Gln Trp Leu
35 40 45

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<210> 2197
<211> 28
<212> PRT
<213> Artificial Sequence
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<220>
<223> Computer-generated peptide variant

<400> 2197

Tyr Trp Arg Leu Met Arg Lys Leu Phe Lys Arg Leu Gln Ser Ser Leu
1 5 10 15

Lys Lys Tyr Arg Pro Lys Ala Trp Ala Thr Val Leu
20 25

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<210> 2198
<211> 39
<212> PRT
<213> Artificial Sequence
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<220>
<223> Computer-generated peptide variant

<400> 2198

Lys Phe Lys Leu Leu Pro Arg Met Trp Lys Arg Leu Thr Arg Lys Phe
1 5 10 15

Leu Trp Ala Lys Leu Gln Ala Arg Ile Arg Gln Glu Ala Lys Lys Ala
20 25 30

Arg Met Ser Leu Trp Ala Asn
35

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<210> 2199
<211> 41
<212> PRT
<213> Artificial Sequence
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<220>
<223> Computer-generated peptide variant

<400> 2199

Phe Ile Arg Leu Leu Arg Lys Trp Phe Arg Phe Leu Lys Lys Arg Gly
1 5 10 15

Leu Lys Ala Gly Gln Arg Pro Lys Lys Ser Trp Ala Ile Ala Leu Leu
 20 25 30

Met Lys Lys Ala Glu Cys Arg Leu Thr
 35 40

<210> 2200

<211> 56

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2200

Arg Leu Arg Trp Met Arg Lys Leu Ile Arg Leu Met Asn Asn Arg Ala
 1 5 10 15

Lys Ala Met Phe Arg His Gly Arg Leu Ser Ala Lys Lys Val Asn Leu
 20 25 30

Arg Thr Leu Thr Gly Arg Ser Lys Gln Leu Leu Tyr Met Ser Asn Met
 35 40 45

Ile Lys Arg Arg Leu Leu Met Arg
 50 55

<210> 2201

<211> 37

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2201

Arg Leu Arg Met Leu Arg Arg Leu Phe Lys Lys Leu Lys Lys Phe Thr
 1 5 10 15

Lys Gly Ala Ala Lys Ala Trp Leu Trp Trp Lys Asp Ser His Asn Tyr
 20 25 30

Ala Arg Val Met Ala
 35

<210> 2202

<211> 58
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2202

Arg Ile Arg Leu Met Arg Arg Leu Leu Arg Arg Ile Thr Lys Lys Lys
 1 5 10 15

Met Leu Arg His Lys Gln Ile Arg Gln Trp Thr Glu Arg Asp Trp Leu
 20 25 30

Arg Gly Ala Ala Tyr Ala Ala Ser Thr Gly Arg Ala His Glu Ala Arg
 35 40 45

Asp Leu Pro Ala Asp Lys Ala Leu Arg Arg
 50 55

<210> 2203
 <211> 81
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2203

Trp Tyr Arg Leu Phe Lys Arg Phe Leu Lys Arg Ile Arg Gln Arg Asn
 1 5 10 15

Leu Thr Leu Arg Leu Ala Ser Leu Arg Trp Gly Ala Leu Cys Ala Leu
 20 25 30

Lys Leu Tyr Ala Lys Arg Arg Ser Ala Cys Leu Pro Lys Thr Lys Phe
 35 40 45

Lys Arg His Lys Met Arg Lys Phe Ala Glu Lys Ala Glu Arg Arg Thr
 50 55 60

Ile Ala Arg Glu Phe Arg His Ala His Lys Lys Cys Met Gly Arg Thr
 65 70 75 80

Leu

<210> 2204
 <211> 26
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2204

Leu Leu Lys Trp Ile Lys Lys Leu Phe Arg Phe Leu His His Leu Gly
 1 5 10 15

Tyr Lys Lys Glu Ala Ala Ile Ala Arg Cys
 20 25

<210> 2205
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2205

Lys Leu Lys Leu Phe Lys Lys Met Met Arg Leu Trp Arg Lys Leu Ala
 1 5 10 15

Thr Leu Glu Tyr Thr Met Leu Ala Asp
 20 25

<210> 2206
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2206

Leu Leu Lys Ile Phe Asn Arg Leu Met Arg Lys Ile Thr Lys Ala Pro
 1 5 10 15

Ala Arg Ile Arg Phe Leu Ala
 20

<210> 2207
 <211> 37
 <212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2207

Lys Leu Lys Leu Leu Lys Arg Ile Leu Arg Lys Leu Lys Arg Ala Thr
1 5 10 15

Thr Ala Val Leu Asn Pro Asn Phe Arg Ala Lys Leu Ala His Ser Leu
20 25 30

Ser Val Thr Ile Phe
35

<210> 2208

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2208

Lys Leu Arg Leu Leu His Arg Phe Phe Lys Lys Leu Pro Arg Ala Leu
1 5 10 15

Gly His Lys Ala Gly Gln Gln Leu
20

<210> 2209

<211> 39

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2209

Leu Ile Arg Ile Leu Arg Arg Leu Leu Arg Lys Ile Lys Gln Leu Ala
1 5 10 15

Gly His Glu Lys Ser Leu Val Lys Tyr Ala Leu Thr Lys Arg Lys Gln
20 25 30

Lys Thr Ala Ala Thr Tyr Glu
35

<210> 2210
 <211> 38
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2210

Trp Ile Arg Tyr Met Gln Lys Phe Leu Lys Met Trp Lys Arg Leu Arg
 1 5 10 15

Trp Ala Phe Arg Arg Lys Ala Lys Ala His Arg Ala Ala Arg Leu Arg
 20 25 30

Ser Ala Ser Leu Lys Ala
 35

<210> 2211
 <211> 60
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2211

Lys Met Arg Phe Phe Arg Lys Phe Trp Arg Lys Leu Arg Asn Phe Ile
 1 5 10 15

Leu Arg Met Asn Phe Arg Lys Ala Asp Ala Arg Leu Tyr Ala Leu Lys
 20 25 30

Ala Ser Lys Met Arg Arg Tyr Pro Arg Gln Met Gly Trp Ile Leu Leu
 35 40 45

Arg Leu Asn Tyr Tyr Arg Ala Ala Ala Glu Leu Leu
 50 55 60

<210> 2212
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2212

Leu Ile Lys Phe Leu Lys Lys Trp Tyr Arg Leu Phe Arg Lys Gln Ala
 1 5 10 15

His Arg Asp Leu Arg Ala Ala
 20

<210> 2213
 <211> 41
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2213

Leu Trp Arg Ile Phe Arg Lys Leu Phe Lys Met Trp Arg Arg Leu Lys
 1 5 10 15

Trp Ser Asn Trp Tyr Ala His Lys Ala Ala Leu Lys Ala Lys Lys Lys
 20 25 30

Pro Gly Leu Asp Lys Phe Leu Met Cys
 35 40

<210> 2214
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2214

Phe Leu Arg Leu Trp His Arg Phe Leu Arg Trp Phe Gln Ser Lys Lys
 1 5 10 15

Leu Arg Leu Gly
 20

<210> 2215
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2215

Lys Leu Arg Phe Leu Arg Arg Tyr Ile Arg Leu Ile Lys His Ala Trp
 1 5 10 15

Lys Cys Cys Leu
 20

<210> 2216
 <211> 75
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2216

Phe Leu Lys Tyr Tyr Lys Lys Tyr Phe Arg Leu Ile Arg Lys Asn Lys
 1 5 10 15

Ser Ile Arg Ile Leu Asp Arg Lys Lys Val Lys Arg Lys Ala Ala Ala
 20 25 30

Met Arg Leu Ala Cys Met Arg Arg Asn Cys Leu Met Ala Ala Asp Tyr
 35 40 45

His Thr Lys Leu Trp Gly Lys Arg Lys Leu Gln His Val Leu Lys Val
 50 55 60

Gly Ala Leu Tyr Ile Lys Arg Ala Lys Cys Leu
 65 70 75

<210> 2217
 <211> 46
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2217

Lys Leu Arg Ile Met Asn Arg Phe Leu Arg Lys Leu Lys Arg Arg Leu
 1 5 10 15

Leu Ala Ser Lys Glu Tyr Phe Lys Arg Lys Leu Ala Asn Arg Phe Ala
 20 25 30

Gly Ala Gln Trp Trp Val Lys Lys Gly Asp Leu Lys Ala Ser

35

40

45

<210> 2218

<211> 41

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2218

Arg	Ile	Lys	Ile	Phe	Arg	Arg	Leu	Leu	Arg	Lys	Met	Lys	Pro	Arg	Lys
1				5					10					15	

Arg	Glu	Arg	Tyr	Leu	Ala	Ala	Ser	Trp	Ala	Arg	Leu	Trp	Gly	Tyr	Arg
			20					25					30		

Leu	Lys	Thr	Glu	Leu	Leu	Ile	Leu	Trp
			35				40	

<210> 2219

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2219

Lys	Leu	Arg	Phe	Leu	His	Arg	Phe	Phe	Lys	Arg	Met	Arg	Cys	Met	Arg
1				5					10					15	

Lys	Ala	Ala	Leu	Asp	Leu	Leu	Glu	Cys	Gly
			20					25	

<210> 2220

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2220

Arg	Trp	Arg	Phe	Phe	Arg	Lys	Trp	Tyr	Arg	Leu	Leu	Arg	Arg	Leu	Phe
1				5					10					15	

Leu	Gln	Leu	Glu	Ala	Cys	Arg	Gln
-----	-----	-----	-----	-----	-----	-----	-----

20

<210> 2221
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2221

Tyr Leu Lys Leu Met Gln Arg Phe Met Lys Lys Met Arg Thr Gln Ala
 1 5 10 15

Lys Ala Lys Leu Asn Leu
 20

<210> 2222
 <211> 78
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2222

Lys Leu Lys Trp Met Arg Arg Leu Leu Arg Arg Leu Cys Gln Pro Ala
 1 5 10 15

Lys Pro Thr Arg Ala Ala Ala Phe Leu Leu Ala Ser Arg Trp Glu Leu
 20 25 30

Lys Ala Ser Arg Leu Val Gly Phe Met Cys Arg Lys Leu Gln Thr Pro
 35 40 45

Phe Lys Leu Lys Ala Arg Gly Ile Gln Lys Asp Leu Tyr Arg Lys Lys
 50 55 60

Ser Gly Leu Arg Gln Ile Met Lys Glu Arg Arg Lys Val Gly
 65 70 75

<210> 2223
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2223

Phe	Phe	Arg	Leu	Met	Thr	Arg	Trp	Met	Arg	Arg	Leu	Ser	Ser	Arg	Lys
1				5					10					15	

Met	Lys	Glu	Leu	Lys	Arg	Leu	Lys	Leu	Thr	Leu	Ser	Leu	Asn	Asp	Leu
			20					25					30		

Ala

<210> 2224

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2224

Leu	Phe	Lys	Leu	Met	Arg	Arg	Leu	Trp	Lys	Arg	Leu	Ser	Arg	Ala	Asn
1				5					10					15	

Ser	Gly	Lys	Ala
			20

<210> 2225

<211> 73

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2225

Lys	Trp	Lys	Leu	Ile	Lys	Lys	Phe	Trp	Arg	Phe	Phe	Cys	Lys	His	Leu
1				5					10					15	

Lys	Lys	Arg	Ala	Arg	Glu	Arg	Leu	Gln	Leu	Arg	Lys	Thr	Arg	Arg	Met
			20					25					30		

Lys	Met	Val	Thr	Glu	Lys	Ala	Trp	Arg	Met	Arg	Thr	Leu	Asp	Ala	Lys
		35					40					45			

Ala	Ala	His	His	Tyr	Ile	Leu	Thr	Ala	Ile	Ala	Glu	Ala	Arg	Ala	Asn
	50					55					60				

Glu Lys Trp Leu Leu Leu Pro Val Leu
65 70

<210> 2226
<211> 73
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 2226

Leu Phe Lys Ile Leu Asn Arg Trp Phe Arg Lys Tyr Arg Arg Leu Ala
1 5 10 15

Thr Gln Ser His Ala Lys Met Val Ala Arg Val Cys Asp Lys Trp Ala
20 25 30

His Leu Cys Ile Gln Tyr Ala Thr Gly Arg Leu Ala Val Arg Ala Glu
35 40 45

Ala Lys Arg Leu Val Arg Arg Leu Ala Gly Val Arg Gly Lys Lys Gly
50 55 60

Arg Lys Arg Lys Trp Leu Ala Leu Phe
65 70

<210> 2227
<211> 51
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 2227

Lys Trp Arg Leu Tyr His Lys Leu Trp Lys Arg Leu Lys His Leu Lys
1 5 10 15

Leu Tyr Ala Lys Lys Ser Ser Val Ala Trp Thr Gln Cys Cys Leu Leu
20 25 30

Trp Arg Ala Asp Leu Leu Leu Gly Glu Lys Met Val Lys Leu Gly Ala
35 40 45

Pro Leu Arg

50

<210> 2228
 <211> 96
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2228

Arg Phe Arg Leu Phe Pro Arg Tyr Phe Arg Leu Met Arg Lys Met Asp
 1 5 10 15

Phe Ala Leu Tyr Ala Ala His Ala Leu Gln Ala Ser Lys Arg Leu Ser
 20 25 30

His Ala Gln Lys Lys Thr Cys Lys Leu Lys Asp Arg Ala Ala Trp Arg
 35 40 45

Leu Ala Ala Leu Lys Arg Val His Leu Arg Cys Ala Tyr Lys Leu Asp
 50 55 60

Ala Ala Gln Thr Ala Arg Arg Leu Tyr Leu Lys Trp Pro Ala Arg His
 65 70 75 80

Phe Ile Phe Lys Met Gly Arg Val His Arg Ala Leu Met Ser Gln Gln
 85 90 95

<210> 2229
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2229

Leu Leu Lys Phe Leu Arg Lys Met Tyr Lys Arg Phe Gln Arg Ala Phe
 1 5 10 15

Trp Leu Glu Leu Thr Ala Arg Leu Leu
 20 25

<210> 2230
 <211> 41
 <212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2230

Lys Phe Arg Trp Leu Thr Arg Leu Tyr Arg Leu Leu Lys Pro Ala Glu
1 5 10 15

Asp Lys Gly Ala Leu Trp Lys Trp Lys Ser Asn Arg Leu Ala Ala Pro
20 25 30

Asp Arg Thr Arg Ala Lys Asn Arg Leu
35 40

<210> 2231

<211> 69

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2231

Phe Leu Arg Met Ile Arg Lys Phe Leu Arg Arg Phe Lys Lys Val Leu
1 5 10 15

Arg Lys Arg Lys Thr Asp Tyr Ala Tyr Arg Lys Thr Leu Ala Ala Arg
20 25 30

Cys Cys Leu Ala His Ala Ala Glu Val Ala Ala Arg Gln Ala Tyr Met
35 40 45

Met Lys Ala Val Pro Ile Lys Ala Ala Trp Gly Leu Asn Leu Leu Phe
50 55 60

Ala Arg Arg Phe Asp
65

<210> 2232

<211> 76

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2232

Lys Ile Arg Phe Phe Arg Arg Phe Ile Arg Leu Trp Lys Arg Tyr Tyr
 1 5 10 15

His Lys Leu Arg Leu Asp Gln Leu Ala Asp Ala Arg Lys Arg Leu Ala
 20 25 30

Ala Ala Asn Cys Ala Asn Tyr Arg Ala Leu Ala Ala Met Val Asp Ala
 35 40 45

His Lys Ala Gln Arg Asp Asp Pro Ala Lys Thr Cys Arg Ala Arg Cys
 50 55 60

Ala Asn Asp Thr Gly Arg Leu Glu Val Arg Arg Ala
 65 70 75

<210> 2233
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2233

Met Phe Arg Leu Trp Arg Arg Tyr Leu Lys Arg Trp Lys His Lys Ala
 1 5 10 15

Ala Gln Gln Asp Leu
 20

<210> 2234
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2234

Lys Leu Arg Leu Trp His Arg Met Leu Lys Arg Leu Arg Ser Leu Phe
 1 5 10 15

Ile Arg Ala Ala Asp Ser Lys His Leu
 20 25

<210> 2235

<211> 74
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2235

Arg Tyr Arg Leu Phe Ser Arg Tyr Ile Lys Arg Ile Thr Arg Arg Phe
 1 5 10 15

His Cys Gly Arg Ala Asn Ile Leu Leu Lys Lys Ala Leu Arg Arg His
 20 25 30

Ile Arg Ala Met Met Ala Arg Lys Met Ala Ala Trp Arg Ala Glu Ile
 35 40 45

Ala Leu Asn Arg Lys Leu Ala Leu Thr Gly Leu Met Glu Arg Lys Val
 50 55 60

Ala Asp Lys Thr Lys His Lys Lys Ala Pro
 65 70

<210> 2236
 <211> 76
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2236

Lys Leu Lys Trp Phe Lys Lys Met Leu Arg Lys Leu Lys Gln Glu Trp
 1 5 10 15

Leu Arg Arg Arg Leu Ala Leu Ala Ser His Leu Lys Leu Ser Cys Ala
 20 25 30

Tyr Ala Arg Arg Arg Pro Met Asn Leu Asp Ala Thr Ala Lys Glu Thr
 35 40 45

Tyr Arg Arg Leu Phe Trp Tyr Ala Lys Val Ala His Trp Arg Lys Asp
 50 55 60

Arg Leu Phe Met Ser Met Trp Lys Ala Gly Arg Ile
 65 70 75

<210> 2237
 <211> 41
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2237

Leu Met Arg Phe Phe Lys Arg Phe Trp Lys Ile Ile Lys Thr Arg Thr
 1 5 10 15

Val Ser Tyr Arg Ala Gly Lys Arg Leu Ala Lys Ala Lys Gln His Ala
 20 25 30

Arg Pro Lys Arg Leu Leu Ala Pro Leu
 35 40

<210> 2238
 <211> 43
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2238

Met Leu Lys Phe Leu Pro Lys Leu Phe Lys Arg Phe Cys Cys Lys Lys
 1 5 10 15

Cys Ile Leu Leu Val Ile Met Gln Lys Leu Ala Leu Lys Arg Gln Tyr
 20 25 30

Ser Ala Arg Ala Lys Arg Thr Arg Ala Gln His
 35 40

<210> 2239
 <211> 86
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2239

Arg Ile Lys Leu Leu Cys Lys Met Trp Lys Lys Met Lys Lys Gln Tyr
 1 5 10 15

Ala Lys Tyr Leu Ser Glu Met Lys Ala Lys Ser Leu Pro Met Arg Leu
 20 25 30

Arg Arg Leu Lys Lys Lys Pro Leu Lys Lys Tyr Ala Leu Lys Tyr Ala
 35 40 45

Ala Leu Phe Val Arg Gly His Ala Ala Ala Leu Arg Lys Pro Met Ala
 50 55 60

Cys Ile Ser Gln Phe Cys Val Leu Ser Lys Thr Asp His Gln Leu Lys
 65 70 75 80

Arg Leu Trp Ala Ile Arg
 85

<210> 2240
 <211> 46
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2240

Lys Leu Arg Leu Phe Arg Lys Phe Ile Arg Lys Phe Lys Thr Ala Leu
 1 5 10 15

Tyr Lys Ile Trp Lys Ala Arg Thr Lys Arg Thr Leu Lys Asn Trp Leu
 20 25 30

Ala Leu Arg Val Tyr Tyr Leu Ala Val Met Leu Arg Ser His
 35 40 45

<210> 2241
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2241

Phe Leu Arg Leu Leu Pro Lys Trp Leu Arg Lys Trp Gln Lys Thr Cys
 1 5 10 15

Ala Lys Phe Glu Ala Gly Arg Lys Ala Ala Leu Ala Asn Asn Pro Leu

20

25

30

Ser Glu

<210> 2242

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2242

Ile	Trp	Arg	Ile	Trp	Arg	Arg	Leu	Leu	Arg	Leu	Leu	Lys	Cys	Gly	Ala
1				5					10					15	

Leu	Lys	Trp	Ala	Leu	His	Val	Asn	Lys	Ala	Lys	Ser	Tyr
			20					25				

<210> 2243

<211> 54

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2243

Arg	Leu	Arg	Phe	Phe	Gln	Arg	Met	Met	Arg	Arg	Leu	Gln	Cys	Ala	Ser
1				5					10					15	

Asn	Ala	Val	Leu	Met	Lys	Pro	Arg	Leu	Ala	Arg	Lys	Ala	Glu	Ser	Ile
			20					25					30		

Arg	Leu	Leu	Lys	Arg	Ala	Asp	Val	Lys	Ala	Cys	Lys	Arg	Met	Leu	Leu
			35				40					45			

Glu	His	Tyr	Thr	Lys	Glu
					50

<210> 2244

<211> 77

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2244

Arg	Tyr	Lys	Met	Met	Pro	Lys	Phe	Phe	Lys	Lys	Leu	Asn	Ser	Ala	Ala
1				5					10					15	

Ile	Val	Ala	Leu	Lys	Ala	Cys	Asp	Met	Arg	Asp	Ala	Gln	Arg	Gly	Leu
			20					25					30		

His	Tyr	Ala	Ile	Leu	Gln	Lys	Phe	Asn	Arg	Glu	His	Leu	His	Lys	Ala
		35					40					45			

Arg	Cys	Leu	Arg	Arg	Ala	Leu	Ile	Arg	Arg	Lys	His	Ala	Arg	Lys	Ala
	50					55					60				

Thr	Ala	Ala	His	Pro	Tyr	Leu	Lys	Lys	Ala	Lys	Leu	Tyr
65					70					75		

<210> 2245

<211> 31

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2245

Arg	Leu	Arg	Phe	Phe	His	Arg	Leu	Met	Lys	Lys	Leu	Lys	Thr	Ser	Ala
1				5					10					15	

Ala	Arg	Thr	Arg	Arg	Glu	Thr	Lys	Ala	Asn	Pro	Ile	Ala	Tyr	Leu
			20					25					30	

<210> 2246

<211> 45

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2246

Tyr	Leu	Arg	Ile	Leu	Lys	Arg	Phe	Tyr	Lys	Tyr	Tyr	Arg	Gln	Leu	Val
1				5					10					15	

Leu	Leu	Pro	Arg	Arg	His	Arg	Ala	Leu	Arg	Ala	Lys	Ile	Ile	Ala	Gly
			20					25					30		

Ala Gln Met Ala Ala Asn Arg His Ala Glu His Ala Ala
35 40 45

```
<210> 2247
<211> 25
<212> PRT
<213> Artificial Sequence
```

<220>
<223> Computer-generated peptide variant

<400> 2247

Leu Phe Arg Phe Phe Arg Arg Leu Leu Arg Arg Leu Cys Gln Ile Trp
1 5 10 15

Ala Gln Asn Lys Gly Arg Lys Leu Ile
20 25

```
<210> 2248
<211> 21
<212> PRT
<213> Artificial Sequence
```

<220>
<223> Computer-generated peptide variant

<400> 2248

Leu Phe Lys Leu Leu Gln Lys Met Leu Arg Tyr Trp Arg Lys Ala Cys
1 5 10 15

Thr Leu His Lys Arg
20

```
<210> 2249
<211> 46
<212> PRT
<213> Artificial Sequence
```

<220>
<223> Computer-generated peptide variant

<400> 2249

Arg Ile Arg Phe Met Lys Arg Leu Phe Lys Ile Met His Arg Ala Arg
1 5 10 15

Ala Cys Pro Ala Ala Trp Arg Thr Val Leu Asp Arg Arg Arg Thr Leu
20 25 30

Thr Trp Asn Leu Val Lys Lys Arg Ala Leu Ala Arg Ala Met
35 40 45

```
<210> 2250
<211> 34
<212> PRT
<213> Artificial Sequence
```

<220>
<223> Computer-generated peptide variant

<400> 2250

Met Trp Lys Tyr Met Arg Arg Trp Tyr Lys Lys Leu His His Ala Ala
1 5 10 15

Ser Leu Arg Trp Leu Asp Ala Phe Leu Lys Trp Met Lys Ala Lys Arg
20 25 30

Leu Ala

```
<210> 2251
<211> 24
<212> PRT
<213> Artificial Sequence
```

<220>
<223> Computer-generated peptide variant

<400> 2251

Arg Ile Lys Leu Leu Arg Arg Trp Leu Lys Arg Leu Ser Ser Arg Leu
1 5 10 15

His Lys Gly Val Pro Ala Glu Ala
20

```
<210> 2252
<211> 32
<212> PRT
<213> Artificial Sequence
```

<220>
<223> Computer-generated peptide variant

<400> 2252

Leu Met Lys Phe Tyr Ser Lys Trp Trp Lys Met Leu Lys Thr Ala Leu
1 5 10 15

Ala Ala Arg Ala Lys Arg Arg Pro Lys Asp Ala Arg Lys Trp Ala Gln
20 25 30

```
<210> 2253
<211> 20
<212> PRT
<213> Artificial Sequence
```

<220>
<223> Computer-generated peptide variant

<400> 2253

Leu Trp Arg Leu Leu His Lys Ile Phe Lys Arg Tyr Lys Arg Gly Ile
1 5 10 15

Leu Val Lys Leu
20

```
<210> 2254
<211> 21
<212> PRT
<213> Artificial Sequence
```

<220>
<223> Computer-generated peptide variant

<400> 2254

Lys Tyr Lys Tyr Met Pro Lys Leu Met Arg Leu Ile Asn Lys Lys Leu
1 5 10 15

Ser Arg Ala Cys Ala
20

```
<210> 2255
<211> 50
<212> PRT
<213> Artificial Sequence
```

<220>
<223> Computer-generated peptide variant

<400> 2255

Lys Leu Lys Tyr Met Arg Arg Ile Met Lys Lys Leu Arg Cys Ala Ala
1 5 10 15

Thr Phe Val Leu Leu His Lys Arg Leu Tyr Leu Arg Lys Ala Leu Thr
20 25 30

Ala Ala Pro Lys Leu Ala His Ala Gln Leu Arg Arg Pro Lys Ala Asn
 35 40 45

Asp Tyr
 50

<210> 2256
 <211> 63
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2256

Leu Ile Arg Leu Met Arg Lys Met Leu Lys Lys Leu Lys Gln Thr Lys
 1 5 10 15

Cys Ala Lys Ser Val Ile Arg Ala Glu His Cys Pro Leu Tyr Tyr Leu
 20 25 30

Lys Asn Lys Leu Gln Arg Arg Ala Met Ala Asn Ala Cys Lys Lys Leu
 35 40 45

Arg Trp Lys Arg Gly Gln Val Thr Ile Glu Leu Arg Ala Glu Ala
 50 55 60

<210> 2257
 <211> 70
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2257

Phe Phe Arg Leu Leu Ser Arg Trp Phe Lys Arg Leu Arg Arg Ala Asn
 1 5 10 15

Ile Gln Leu Glu Leu Lys Leu Ala Ala Arg Lys Leu His Lys Tyr Asp
 20 25 30

His Lys Glu Ala Gln Met Ala Gln Ala Lys Leu His His Asn Gln Met
 35 40 45

Met Arg Lys Leu Lys Gly Val Lys Gly Asn Lys Arg Ala Lys Lys Arg

50

55

60

Leu Pro Phe Glu Thr Arg
65 70

<210> 2258
<211> 52
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 2258

Tyr Leu Arg Leu Phe Arg Arg Phe Leu Arg Lys Ile Arg Pro Leu Arg
1 5 10 15

Gly Arg Gly His Lys Tyr Gln Val Asn Lys Leu Arg Arg Pro Ala Arg
20 25 30

Ala Ile Ile Trp Thr Gly Ile Phe Val Lys Leu Lys Ala Leu Phe Val
35 40 45

Lys Ala Leu Ala
50

<210> 2259
<211> 45
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 2259

Phe Trp Arg Phe Leu Arg Lys Phe Phe Lys Leu Tyr Arg Ser Val Asp
1 5 10 15

Ala His Arg Leu Ser Arg Lys Arg Arg Phe Val His Lys Lys Arg Lys
20 25 30

Leu Asn Gln Ala Leu Pro Ala Phe Glu Ala Ala Val Ala
35 40 45

<210> 2260
<211> 33
<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2260

Lys Met Lys Leu Phe Lys Arg Phe Met Arg Lys Ile Lys Arg Asp Gly
1 5 10 15

Phe Ser Trp Leu Met Ala Ala Arg Ala Arg Pro Ala Gln Ala Val Leu
20 25 30

Ala

<210> 2261

<211> 39

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2261

Lys Phe Lys Met Leu Lys Lys Met Phe Arg Lys Phe Lys Arg Leu Arg
1 5 10 15

Val Tyr Met Leu Val Leu Glu Lys Lys Tyr Leu Leu Glu Leu Ala Asp
20 25 30

Leu Thr Leu Lys Met Ala Leu
35

<210> 2262

<211> 64

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2262

Lys Phe Arg Phe Trp Cys Arg Leu Phe Lys Lys Tyr Arg His Arg Lys
1 5 10 15

Met Leu Glu Gln Lys Leu Glu Ala Arg Lys Met Arg Val Leu Ala Lys
20 25 30

Ala Val Thr Lys Ile Arg Tyr Met Ala Lys Arg Leu Gly Leu Lys His
 35 40 45

Met Ala Cys Leu Arg Asp His Leu Leu Asn Leu Asp Tyr Lys Ala Arg
 50 55 60

<210> 2263
 <211> 58
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2263

Tyr Leu Lys Ile Phe Lys Lys Ile Leu Lys Leu Leu Pro Lys Arg Ala
 1 5 10 15

Pro Ala Lys Ser Lys Arg Lys Val Lys Lys Leu Ala Leu Phe Ala Leu
 20 25 30

Lys Leu Cys Trp Arg Gln Pro Pro Val Met Leu Gly Asn Val Cys Ala
 35 40 45

Glu Ser Arg His Arg Arg Leu Leu Tyr Met
 50 55

<210> 2264
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2264

Lys Phe Lys Leu Phe Thr Lys Ile Leu Arg Arg Ile Lys Gln Leu Pro
 1 5 10 15

Ala Ala Arg Met Val Glu Leu Leu Lys Ala Lys Leu Arg
 20 25

<210> 2265
 <211> 63
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2265

Leu	Ile	Lys	Met	Tyr	Gln	Lys	Phe	Tyr	Arg	Lys	Met	Lys	Arg	Leu	Thr
1				5					10					15	

Ala	Leu	Ser	Lys	Leu	Asn	Leu	Leu	Gln	Leu	Asn	Ala	Arg	Leu	Ala	Pro
			20					25					30		

Ser	Ala	Leu	Asn	Met	Ile	Met	Ala	Arg	Lys	Ala	Ile	Ala	Glu	Val	Arg
			35				40					45			

Leu	Asn	Lys	Ile	Cys	Asn	Asp	Val	Arg	Lys	Ala	Ala	Ala	Phe	Arg
	50					55						60		

<210> 2266

<211> 67

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2266

Arg	Leu	Lys	Trp	Phe	Cys	Lys	Leu	Tyr	Lys	Arg	Trp	Lys	Lys	Lys	Trp
1				5					10					15	

Gly	Pro	Leu	Pro	Met	Leu	Leu	Leu	Arg	Tyr	Lys	His	Leu	Ala	Lys	Ser
			20					25					30		

Leu	Leu	Ile	Arg	Phe	Leu	Ala	Leu	Lys	Phe	Tyr	Ala	Asp	Ser	Thr	Thr
		35					40					45			

Met	Ala	Asp	Leu	Asp	Arg	Lys	Arg	Leu	Cys	Lys	Lys	Tyr	Gly	Lys	Pro
	50					55					60				

Trp	Leu	Met
65		

<210> 2267

<211> 99

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2267

Arg	Leu	Arg	Tyr	Leu	Arg	Lys	Leu	Ile	Lys	Leu	Leu	Cys	Thr	Met	Lys
1				5					10					15	

Ser	Trp	Leu	Lys	Val	Asn	Leu	Tyr	Met	Tyr	Lys	Leu	Ala	Asn	Trp	Arg
			20					25					30		

Ala	Ala	Ala	Asn	Phe	Ala	Asn	Leu	Gln	Thr	Tyr	Trp	Lys	Lys	Lys	Pro
		35					40					45			

Glu	Cys	Leu	Gly	Phe	Ala	Lys	Leu	Arg	Lys	Lys	Thr	Ala	Leu	Phe	Thr
	50					55					60				

Lys	Leu	Lys	Ala	Lys	Trp	Lys	Tyr	Ala	Val	Lys	Lys	Val	Leu	Gln	Leu
65					70					75					80

Arg	Leu	Trp	Leu	Leu	Leu	Lys	Ala	Met	Leu	Phe	His	Cys	Gln	Asn	Ala
				85					90					95	

Val Phe Cys

<210> 2268

<211> 41

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2268

Phe	Leu	Arg	Leu	Tyr	Asn	Lys	Met	Phe	Arg	Leu	Trp	Lys	Lys	Ala	Gly
1				5					10					15	

Lys	Lys	His	Arg	Ala	Arg	Val	Lys	Cys	His	Cys	Arg	Lys	Pro	Leu	Ser
			20					25					30		

Arg	Ala	Cys	Ile	Leu	Thr	Leu	Cys	Leu
		35					40	

<210> 2269

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2269

Lys Tyr Arg Trp Leu Lys Arg Leu Leu Lys Leu Phe Cys Lys Lys Ala
 1 5 10 15

Trp Leu Leu Cys Ala Arg Lys Gln Asp Leu Ala Arg Gly Thr Arg Leu
 20 25 30

Arg Ala Phe Ala Phe Tyr Met Lys
 35 40

<210> 2270

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2270

Phe Leu Arg Leu Leu Arg Arg Phe Met Arg Leu Phe Thr Lys Ala Asn
 1 5 10 15

Cys Lys Ala Lys
 20

<210> 2271

<211> 58

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2271

Leu Met Lys Leu Leu Lys Arg Leu Ile Arg Arg Leu Thr His Thr Ala
 1 5 10 15

Trp Lys Ala Met Gly Lys Lys Ile Tyr Leu Lys Leu Asp Ser Ser Asn
 20 25 30

Leu Arg Arg Lys Ala Ala Arg Lys Met Ala Met Ser Val Val Lys Ile
 35 40 45

Lys Lys Asn Leu Lys Trp Met Arg Asn His

50

55

<210> 2272
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2272

Leu Tyr Arg Leu Leu Arg Arg Trp Ile Arg Arg Tyr Ser Arg Ala Phe
 1 5 10 15

Leu Lys Thr Leu Glu Asp Arg Leu Ala Tyr Met Arg Trp Thr Ala Phe
 20 25 30

<210> 2273
 <211> 44
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2273

Lys Leu Lys Met Ile Arg Arg Met Met Arg Trp Leu Thr Arg Leu Pro
 1 5 10 15

Arg Leu Ala Phe Leu Leu Gly Ile Arg Leu Lys Ile Ile Ser Gly Gly
 20 25 30

Arg Ala Val Glu Leu Arg Asp Leu Leu Arg Thr Ala
 35 40

<210> 2274
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2274

Lys Phe Arg Leu Trp Lys Arg Leu Trp Arg Leu Leu Lys Arg Arg Leu
 1 5 10 15

Asn Thr Leu Trp Gln Pro Leu Val Leu Thr Thr Cys Tyr Phe Met Lys

20

25

30

Leu Ala

<210> 2275

<211> 68

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2275

Phe Leu Arg Met Ile Asn Arg Ile Met Arg Leu Leu Arg Lys Ala Lys
 1 5 10 15

Leu Ala Pro Arg Leu Leu Ile Glu Cys Ala Arg Glu Pro Gln Lys Val
 20 25 30

Thr Lys Leu Cys Ala Thr Leu Leu Lys Leu Ala His Ala Ala Leu Phe
 35 40 45

Phe Glu Trp Cys His Ala Gln Glu Thr Ala His Arg Asp Lys Leu Lys
 50 55 60

Lys Ser Leu Lys
 65

<210> 2276

<211> 52

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2276

Arg Ile Arg Trp Leu Pro Arg Leu Leu Lys Trp Leu Cys Asn Leu Asp
 1 5 10 15

Arg Lys Leu Ala Pro Ala Gln Lys Leu Lys Phe Thr Ala Pro Ala Thr
 20 25 30

Ala Gly Asp Arg Cys Arg Ala Arg Asn Glu Lys Pro Ala Thr Pro Lys
 35 40 45

His Leu Leu Phe
50

<210> 2277
<211> 75
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 2277

Lys Phe Arg Trp Tyr Asn Lys Ile Phe Lys Arg Trp Lys Lys Cys Lys
1 5 10 15

Arg Arg Lys Arg Thr Ala Pro Ala Gly Ala Ala Leu Leu Ala Lys Lys
20 25 30

Ala Ile Lys Ala Asp Lys Trp Ala Lys Ile Thr Asp Thr Ala Lys Ala
35 40 45

Ala Ala Leu Ala Asn Ala Ala Gly Lys Asp Lys Leu Asn Gly Ser Ala
50 55 60

Leu Ala Leu Lys Met Ala Ala Lys Asn Phe Tyr
65 70 75

<210> 2278
<211> 74
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 2278

Arg Tyr Lys Tyr Tyr Lys Lys Leu Phe Lys Arg Met Arg Ser His Arg
1 5 10 15

Ala Asp Leu Arg Met Cys Arg Ile Glu Lys Cys Trp Arg Leu Arg Leu
20 25 30

Ala Ala Ala Leu Leu Arg Lys Arg Ser Leu Gly Leu Val Cys Leu Ser
35 40 45

Ala Arg Glu Arg Thr Arg Lys Gly Thr Lys Arg Ala Ser Leu Arg Asp

50

55

60

Ala Met Ile Tyr Lys Ala Leu Ser Gly Gly
 65 70

<210> 2279
 <211> 37
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2279

Arg Leu Lys Leu Ile Lys Arg Leu Phe Lys Leu Ile His His Val Leu
 1 5 10 15

Val Gln Cys Lys Leu Ile Ala Ile Leu Ala Ala Asn Leu Gln Lys Lys
 20 25 30

Glu Trp Arg Trp Leu
 35

<210> 2280
 <211> 45
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2280

Phe Tyr Arg Leu Tyr Cys Lys Leu Leu Arg Trp Leu Lys Lys Met Lys
 1 5 10 15

Ala Lys Pro Arg Asp Trp Pro Ala Thr His Arg Tyr Leu Ala Arg Arg
 20 25 30

Cys Ala Ala Thr Leu Gly Arg Val Val Thr Lys Leu Asp
 35 40 45

<210> 2281
 <211> 38
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2281

Arg Leu Lys Leu Phe Lys Lys Trp Trp Lys Leu Ile Asn Ser Leu Tyr
1 5 10 15

Pro Arg Leu Asp Leu Asn Lys Asn Phe Ala Leu His Tyr Lys Thr Leu
20 25 30

Leu Cys Lys Ala Leu His
35

<210> 2282

<211> 98

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2282

Trp Phe Arg Leu Trp His Lys Ile Leu Lys Leu Leu Arg Arg Tyr Glu
1 5 10 15

Leu Phe Lys Arg Lys Arg Arg Asn Cys Met Ile Leu Tyr Asn Lys Ile
20 25 30

Ala Met Leu Asn Phe Ala Arg Arg Ala Arg Leu Phe Ala Trp Val Lys
35 40 45

Leu Leu Phe Arg Lys Asp Pro Ala Ala Pro Ile Ala Ala Cys Gly Met
50 55 60

Ala Pro Cys Leu Leu Ala His Cys Ala Phe Leu Lys Leu Arg Leu Ile
65 70 75 80

Phe Leu His Leu Arg Lys Phe Met Val Lys Lys Tyr Lys Leu Lys Lys
85 90 95

Gln Lys

<210> 2283

<211> 75

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2283

Lys	Phe	Arg	Leu	Ile	Lys	Lys	Leu	Phe	Arg	Lys	Met	Lys	Lys	Leu	Ala
1				5					10					15	

Ile	Asn	Ile	Arg	Lys	Ala	Ala	Arg	Ala	Pro	Leu	Glu	Phe	Lys	Gly	Tyr
			20					25					30		

Ala	Leu	Ala	Trp	Leu	Val	Leu	Arg	Glu	Leu	Tyr	Gly	Leu	Gly	Asn	Ala
		35					40					45			

Leu	Pro	Pro	Lys	Arg	Thr	Thr	Cys	Ala	Arg	Arg	Asp	Gln	Glu	Leu	Ile
	50					55					60				

Leu	His	Ala	Val	Ala	Lys	Leu	Trp	Asp	Asp	Leu
65					70					75

<210> 2284

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2284

Lys	Leu	Arg	Ile	Phe	Lys	Arg	Leu	Trp	Arg	Leu	Leu	Lys	Lys	Arg	Thr
1				5				10						15	

Ala	Leu	Ala	Asp	Asn	Met	Leu	Met	Phe	Lys
			20					25	

<210> 2285

<211> 52

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2285

Lys	Leu	Arg	Met	Phe	Pro	Arg	Ile	Tyr	Arg	Ile	Ile	His	Pro	Lys	Val
1				5				10						15	

Arg	Ile	Arg	Leu	Ser	Ala	Pro	Leu	Leu	Glu	Arg	Ala	Arg	Cys	Ser	Ala
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

20 25 30

Pro Leu Lys Ala Asn Val Ala Ser Leu Lys Asp Tyr Arg Lys Trp Ala

35 40 45

Lys Lys Leu Lys
50

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<210> 2286
<211> 29
<212> PRT
<213> Artificial Sequence
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<220>
<223> Computer-generated peptide variant
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<400> 2286

Arg Ile Arg Leu Ile Gln Arg Leu Phe Arg Ile Met Lys Asn Arg Ser
1 5 10 15

Thr Leu Pro Lys Arg Pro Ala Ala Ala Ala Ser Lys Gln
20 25

<210>	2287
<211>	87
<212>	PRT
<213>	Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 2287

Leu Leu Arg Phe Met Arg Lys Met Leu Arg Arg Leu Arg Ser Ala Thr
1 5 10 15

Arg Lys Val Leu Gly His Ala Leu Arg Arg Cys Asn Met Cys Arg Ser
20 25 30

Ala Ala Glu Leu Gln Pro Gln Lys Leu Ile Ala Arg Arg Lys Leu Arg
35 40 45

Arg Leu Cys Arg Trp Arg Ala Leu Val Arg Lys Cys Ala Met Gly Asp
50 55 60

Ala Glu Ala Glu Arg Lys Asp Tyr His Pro Lys Ala Leu Lys Leu Lys
65 70 75 80

Arg Glu Tyr Lys Asp Gly Arg
85

<210> 2288
<211> 38
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 2288

Phe Leu Arg Met Leu Lys Lys Leu Leu Lys Lys Ile Lys Arg Pro Cys
1 5 10 15

Ala His Leu Trp Leu His Arg Asn Ile Leu Trp Gln Arg Asn Thr Leu
20 25 30

Ala Gln Gln Thr Ala Leu
35

<210> 2289
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 2289

Leu Phe Arg Trp Phe Asn Lys Leu Leu Arg Arg Trp Arg Arg His Thr
1 5 10 15

Lys Leu Ala Gln Lys Ser Leu Leu Ser Thr Lys Glu Leu Met
20 25 30

<210> 2290
<211> 43
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 2290

Met Met Lys Leu Tyr Cys Arg Tyr Leu Lys Tyr Tyr Pro Arg Ala Ile
1 5 10 15

Pro Leu Arg Lys Lys Asp Trp Ala Ser Ala Lys Thr Leu Asn Lys Asn
 20 25 30

Gln Lys Leu Leu Ser Arg Lys Arg Asp Ala Lys
 35 40

<210> 2291

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2291

Lys Leu Lys Met Ile Lys Arg Trp Phe Arg Leu Leu His Ser Phe Val
 1 5 10 15

Lys Ala Arg Ala Lys Leu Cys Thr Met His Arg Ala Cys
 20 25

<210> 2292

<211> 98

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2292

Lys Leu Lys Tyr Phe Lys Lys Phe Ile Arg Leu Tyr Arg Lys Ser Glu
 1 5 10 15

Met His Ser Arg Ala Lys Gly Gly Ala Lys Val Ala Ala Arg Lys Gly
 20 25 30

Met Ala Trp Arg Ala Ser Asn Glu Ala Pro Cys Leu Trp Lys Leu Cys
 35 40 45

Cys Ala Leu Lys Arg Asn Arg Arg Lys Trp Ile Tyr Lys Met Phe Arg
 50 55 60

Phe Arg Gly Asp Ala Ala Arg Val Arg Arg Ala Lys Arg Lys Tyr Gly
 65 70 75 80

Ala Arg Arg Lys Leu Glu Asp Leu Val Ala Gly Leu Lys Leu Glu Leu

85

90

95

Glu Met

<210> 2293
 <211> 44
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2293

Lys Met Arg Trp Leu His Arg Tyr Trp Lys Leu Leu Lys Lys Asp Arg
 1 5 10 15

Asp Cys Lys Gly Ala Leu Leu Leu Lys Trp Arg Tyr Tyr Asn Leu His
 20 25 30

Tyr Gln Leu Arg Cys Tyr Ala Lys Leu Lys Pro Lys
 35 40

<210> 2294
 <211> 53
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2294

Arg Phe Arg Trp Trp Lys Arg Leu Phe Arg Phe Leu Lys Cys Ala Gln
 1 5 10 15

Val Ser Arg Ala Glu Lys Gly Leu Val Lys Gln Trp Leu Leu Lys Ala
 20 25 30

Leu Lys Pro Arg Asn Arg Ala Lys Val Ala Arg Ala Leu Ile Ala Val
 35 40 45

Val Phe Leu Lys Asn
 50

<210> 2295
 <211> 32
 <212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2295

Leu Phe Arg Trp Leu Ser Arg Leu Phe Arg Phe Phe His Thr Tyr Ala
1 5 10 15

Arg Arg Lys Ser Trp Thr Ala Arg Ala Lys Trp Arg Leu Lys Leu His
20 25 30

<210> 2296

<211> 39

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2296

Arg Ile Lys Leu Leu Cys Arg Leu Leu Arg Arg Met Lys Lys Glu Asp
1 5 10 15

Leu Asp Pro Gly Met Ala Gln Arg Arg Ser Lys Gln Ala Lys Leu Val
20 25 30

Arg Leu Ile Leu Met Tyr Gly
35

<210> 2297

<211> 87

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2297

Ile Trp Arg Tyr Leu Lys Lys Leu Phe Lys Lys Ile Lys Lys Gly His
1 5 10 15

Pro Ala Ser Val Met Cys Asp Ser Lys Arg Leu Leu Leu Arg Ala Arg
20 25 30

Arg Ile Lys Asp Phe His Ala Lys Lys Lys Cys Lys Ala Ser Asp Tyr
35 40 45

Asn Leu Ala Ala Lys Ala Ala Ala Lys Arg His His Lys Lys Thr Gln
 50 55 60

Arg Ala Arg Arg Met Cys Ala Trp Gln Met Pro Val Val Lys Met Ala
 65 70 75 80

Glu Ala Lys Tyr Ile Leu Arg
 85

<210> 2298
 <211> 41
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2298

Leu Phe Lys Ile Leu Ser Arg Leu Tyr Arg Leu Leu Arg Lys Gln Arg
 1 5 10 15

Phe Leu Gln Leu Lys Ala Ser Ala Arg Leu Lys Arg Tyr His Arg Thr
 20 25 30

Ser Leu Asn Thr Leu Lys Glu Leu Phe
 35 40

<210> 2299
 <211> 69
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2299

Lys Met Arg Leu Ile Lys Lys Leu Phe Lys Tyr Leu Lys Pro Asp Arg
 1 5 10 15

Ala Gly Gly Ser Lys Ile Asn Lys Lys Leu Val Lys Lys Leu Ser Met
 20 25 30

Leu Lys Leu Arg Leu Asn Lys Cys Asp Arg Lys Met Ala Met Ala Pro
 35 40 45

Met Arg Ala Arg Gly Cys Ala Ala Thr Gly Ala Trp Leu Lys Thr Met

50

55

60

Glu Thr Ser Lys Lys
65

<210> 2300
<211> 33
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 2300

Tyr Leu Lys Leu Phe Lys Lys Leu Leu Lys Phe Phe Arg Arg Gln Ala
1 5 10 15

Pro Lys Leu Pro Glu Ala Tyr Pro Tyr Ala Cys Arg Gln Glu Leu Leu
20 25 30

Ala

<210> 2301
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 2301

Arg Met Arg Leu Met Cys Lys Trp Leu Lys Trp Leu Gln Lys Arg His
1 5 10 15

Thr Leu Ala Leu Glu Arg Arg Arg Ala Lys Leu
20 25

<210> 2302
<211> 49
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 2302

Lys Phe Lys Met Phe Arg Lys Tyr Leu Arg Lys Phe Lys Lys Arg Asp

Tyr Lys Cys Arg Ala Ala Met Ala Cys Thr Lys Arg Leu His Leu Ser
20 25 30

Ala Thr Ala Tyr Leu Arg Asp Val Ile Met Met Ala Ala Lys Leu Trp
35 40 45

Lys

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<210> 2303
<211> 58
<212> PRT
<213> Artificial Sequence
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<220>
<223> Computer-generated peptide variant

<400> 2303

Lys Ile Arg Leu Leu Lys Arg Leu Trp Arg Lys Leu Arg Ser Ile Lys
1 5 10 15

Lys Arg Pro Gln Ala Lys Tyr Pro Lys Ala Ala Leu Lys Asp Asp Ile
20 25 30

Ala Ile Asp Glu Leu Arg Ala Leu Lys Arg Ser His Pro Leu Cys Val
35 40 45

Glu Arg Lys Gly Asn Gly His Leu His Gly
50 55

<210>	2304
<211>	43
<212>	PRT
<213>	Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 2304

Lys Leu Arg Ile Phe Arg Arg Leu Leu Arg Arg Leu Arg Gln Lys Ala
1 5 10 15

Leu Lys Gln Leu Arg Leu Asp Asp Ala Val Ala Asp Arg Ala Gly His
20 25 30

Ala Lys Arg Lys Ile His Lys Ala Met Arg Val
 35 40

<210> 2305
 <211> 26
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2305

Arg Leu Arg Met Phe Arg Arg Leu Ile Lys Arg Phe Arg Ser Pro Ala
 1 5 10 15

Glu Ser Leu Leu Phe Glu Gln Leu Ala Ala
 20 25

<210> 2306
 <211> 26
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2306

Leu Ile Lys Leu Ile Arg Arg Leu Met Arg Leu Trp Lys Lys Ala Ala
 1 5 10 15

Tyr Leu Gln Ile Asn Asn Val Arg Asp Arg
 20 25

<210> 2307
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2307

Phe Leu Arg Leu Tyr Lys Arg Leu Leu Lys Met Met Lys Pro Thr Lys
 1 5 10 15

Ser Ser Val Leu Ala Arg Cys Ala Leu Cys Lys Ala Asn Gly Leu Asp
 20 25 30

Ala

<210> 2308
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2308

Arg Leu Arg Phe Tyr Gln Lys Met Leu Lys Trp Leu Gln Arg Phe Val
 1 5 10 15

Lys Met Pro Ala Ser Ala Ala Lys Met Arg Val Lys Met Leu Lys Ala
 20 25 30

<210> 2309
 <211> 41
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2309

Lys Leu Lys Phe Phe Pro Arg Ile Leu Arg Phe Phe Ser Arg Lys Lys
 1 5 10 15

Tyr Arg Leu Tyr Arg Arg Gly Leu Glu Ala Asp Ser Ser Ala Leu Lys
 20 25 30

Ala Arg Ala Arg Leu Ile Phe Asn Val
 35 40

<210> 2310
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2310

Lys Leu Arg Phe Phe Thr Lys Leu Leu Lys Trp Phe Lys Gln Ala Cys
 1 5 10 15

Leu Lys Ile Arg Val
20

<210> 2311
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 2311

Arg Leu Lys Trp Met Thr Arg Trp Ile Lys Leu Leu Asn Arg Lys Leu
1 5 10 15

Asn Gly Gln Lys Leu Leu Glu
20

<210> 2312
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 2312

Lys Ile Arg Leu Trp Cys Arg Leu Trp Arg Leu Leu Lys Asn Gln Leu
1 5 10 15

Gly Leu Arg Leu
20

<210> 2313
<211> 48
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 2313

Leu Met Lys Met Phe Cys Arg Leu Leu Arg Tyr Tyr Asn Lys Lys Asp
1 5 10 15

Thr Leu Gln Ala Gly Cys Ala Ala Arg Ala Asn Trp Phe Arg Lys Leu
20 25 30

Leu Ala Pro Ser Tyr Arg Ala Leu Ala Arg Asn Arg Leu Gln Ala Lys
 35 40 45

<210> 2314
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2314

Phe Ile Lys Leu Leu Arg Lys Leu Ile Lys Lys Trp Arg Lys His Glu
 1 5 10 15

Ala Lys Phe Arg Met Arg Gly Trp Ala Ala Ala Leu Lys Gly Pro His
 20 25 30

Leu

<210> 2315
 <211> 49
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2315

Lys Trp Arg Phe Trp Lys Arg Met Ile Lys Tyr Phe Lys Lys Ala Leu
 1 5 10 15

Ala Phe Val Glu Ala Arg Arg Gln Gly Phe Ala Thr Ser Ala Lys Leu
 20 25 30

Arg Lys Lys Leu Ala Arg Ala Val Leu Asn Val Ala Thr Lys Asn Ala
 35 40 45

Arg

<210> 2316
 <211> 72
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2316

Lys	Leu	Lys	Ile	Tyr	Arg	Arg	Leu	Leu	Arg	Tyr	Leu	Arg	Ser	His	Phe
1				5					10					15	

Arg	Lys	Phe	Lys	Leu	Ala	Gly	His	Cys	Trp	Pro	Ala	Glu	Arg	Val	Ala
			20					25					30		

Arg	Lys	Ala	Arg	Tyr	Lys	Leu	Asp	Thr	Gln	Ala	Trp	Leu	Lys	Asn	Thr
		35					40					45			

Lys	Gly	Lys	Arg	Leu	Met	Leu	Ala	Gly	Leu	Arg	Leu	Lys	Cys	Cys	Ile
	50					55					60				

Leu	Arg	Asp	Asp	His	Asn	Arg	His
65					70		

<210> 2317

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2317

Phe	Tyr	Lys	Leu	Leu	Lys	Lys	Trp	Leu	Lys	Ile	Leu	Arg	Thr	Lys	Trp
1				5					10					15	

Lys	Thr	Cys	Ala	Leu	Asp	Gln	Lys	Lys	Lys	Ala	Leu	Asp
			20				25					

<210> 2318

<211> 66

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2318

Phe	Phe	Lys	Leu	Met	Thr	Arg	Leu	Trp	Lys	Trp	Leu	Lys	Arg	Thr	Lys
1				5					10					15	

Ala	Lys	Gln	Ala	Arg	Ala	Ser	Lys	Ala	Lys	His	Asp	Leu	Tyr	Leu	Arg
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

20 25 30

Gln Met Gln Ala Lys Arg Glu Val Lys Tyr Ala Leu Arg Ile Tyr Lys
35 40 45

Thr Ser Lys Ala Ala Tyr Met Val Ser Ala Lys Asn Leu Leu Lys Leu
50 55 60

Tyr Ala
65

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<210> 2319
<211> 55
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 2319
```

Arg Tyr Arg Leu Phe Arg Lys Tyr Leu Arg Leu Leu Lys Arg Leu Tyr
1 5 10 15

Tyr Asn Asp Arg Met Phe Leu Lys Lys Ala Val Lys Ala Trp Lys Trp
20 25 30

Val Ala Leu Val Leu Ala Phe Pro Ala Arg Cys Gln Arg Ala Gln Arg
35 40 45

Asp Phe Gly Leu Met Arg Lys
50 55

<210>	2320
<211>	31
<212>	PRT
<213>	Artificial Sequence
<220>	
<223>	Computer-generated peptide variant
<400>	2320

Arg Leu Arg Leu Phe Thr Arg Leu Phe Arg Lys Phe His Asn Ala Arg
1 5 10 15

Asp Leu Ile Ala Ala Lys Ala Lys Ser Leu Lys Leu Glu Val Leu
20 25 30

<210> 2321
 <211> 69
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2321

Lys Phe Lys Leu Tyr Asn Lys Phe Leu Arg Leu Phe Arg Arg Leu Ser
 1 5 10 15

Leu Phe His Ala Arg Asp Arg Ala Ala Arg Arg Ala Arg Asp Ala Thr
 20 25 30

Arg Leu Asn Gly His Ala Lys Pro Leu Asn Lys Lys Ala Asn Trp Thr
 35 40 45

Lys Thr Val Thr Leu Asn Trp Cys Ala Val Gln Tyr Lys Arg Leu Lys
 50 55 60

Arg Leu Leu Pro Trp
 65

<210> 2322
 <211> 50
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2322

Leu Leu Lys Leu Leu Gln Arg Trp Phe Lys Arg Trp Thr Arg Asp Ile
 1 5 10 15

Arg Arg His Cys Arg Ala Asn Lys Glu Arg Glu Leu Arg Leu Arg Arg
 20 25 30

Leu Ile Phe His Met Leu Ala Leu Leu Ile Leu Ala Ala Ala Phe His
 35 40 45

Ala Arg
 50

<210> 2323

<211> 74
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2323

Ile Phe Lys Phe Ile Pro Arg Leu Met Arg Leu Met Lys Lys Val Leu
 1 5 10 15

Phe Arg Phe Arg Pro Leu Tyr Ala Asn Ala Val Arg Ala Arg Asn Met
 20 25 30

Lys Ala Val Leu Leu Arg Lys Ala Ala Leu Ser Lys Arg Ala Leu Asn
 35 40 45

Ile Met Asp Trp Arg Ser Lys Leu Arg Lys Glu Lys Leu Leu Leu Ile
 50 55 60

Met Tyr Gln Gly Phe Arg Arg Ala Lys Gly
 65 70

<210> 2324
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2324

Leu Trp Arg Leu Trp Lys Lys Trp Phe Arg Arg Phe His Thr Lys Leu
 1 5 10 15

Ala Lys Leu Leu Lys Phe Lys Arg Gly His Arg Ala Ala Thr
 20 25 30

<210> 2325
 <211> 37
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2325

Ile Leu Arg Phe Leu Gln Arg Leu Leu Lys Phe Phe Thr Lys Lys Arg

1 5 10 15

Lys Val Ala Arg Leu Gly Glu Met Asn Lys Arg Glu Phe Leu Ala Phe
 20 25 30

Met Ser Leu Ala Lys
35

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<210> 2326
<211> 38
<212> PRT
<213> Artificial Sequence
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<220>
<223> Computer-generated peptide variant
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<400> 2326

Arg Tyr Lys Leu Leu Lys Arg Ile Met Arg Leu Ile Lys Arg Lys Gln
1 5 10 15

Lys Ala Gly Gln Leu Lys Ile Gly Arg Leu Ala Ala Gly Ala Asn Asp
20 25 30

Leu His His Tyr Asp Trp
35

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<210> 2327
<211> 40
<212> PRT
<213> Artificial Sequence
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<220>
<223> Computer-generated peptide variant

<400> 2327

Phe Leu Lys Phe Ile Lys Lys Phe Trp Arg Lys Leu Asn Lys Lys Lys
1 5 10 15

Lys Ile Pro Thr Pro Ser Leu Leu Asn Lys Leu Ser Leu Ser Arg Leu
20 25 30

Trp Ala Ser Ala Ser Arg Tyr Ala
35 40

$\langle 210 \rangle$	2328
$\langle 211 \rangle$	35
$\langle 212 \rangle$	PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2328

Arg	Met	Arg	Leu	Met	Thr	Lys	Trp	Leu	Lys	Lys	Ile	Gln	Arg	Lys	His
1				5					10					15	

Leu	Leu	Leu	Arg	Ala	Ser	Ala	Lys	Ile	Asn	Asn	Met	Leu	Phe	Gln	Ala
			20					25						30	

Ala	Arg	Gln
		35

<210> 2329

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2329

Phe	Leu	Arg	Leu	Phe	Arg	Lys	Leu	Leu	Lys	Met	Leu	Lys	Pro	Gly	His
1				5					10					15	

Lys	Ser	Gln	Ser	Thr	Val	Ala	Arg	Arg	Leu	Ala	Leu	Ala	Asp	Lys	Ala
			20					25					30		

Gln	Tyr
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<210> 2330

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2330

Lys	Met	Arg	Phe	Leu	Lys	Lys	Tyr	Phe	Lys	Trp	Ile	Cys	Lys	Met	Leu
1				5					10					15	

His	Ala	Lys	Ala	Asn	Leu	Lys	Ala	Met	Val	Thr	Lys	Lys	Ala
			20					25					30

<210> 2331
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2331

Leu Leu Lys Phe Leu Cys Arg Met Leu Arg Arg Tyr Lys Lys His Lys
 1 5 10 15

Ala Leu Met Thr His
 20

<210> 2332
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2332

Arg Phe Arg Leu Tyr Arg Arg Leu Leu Arg Arg Ile His Gln Ser Leu
 1 5 10 15

Pro Ala Arg Ala Lys His Arg Ala Thr Leu Val Arg Asn Ala Arg Leu
 20 25 30

<210> 2333
 <211> 49
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2333

Leu Leu Arg Ile Met Pro Arg Trp Tyr Lys Arg Leu Lys Lys Arg Tyr
 1 5 10 15

Ser Lys Ala Thr Ala Leu Arg Arg Trp Leu Cys Gly Ala Ala Met Arg
 20 25 30

Leu Arg Ala Gln Arg Met Ala Lys Glu Trp His Glu Thr Ile Met Arg
 35 40 45

Leu

<210> 2334
 <211> 76
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2334

Arg Tyr Lys Leu Leu Ser Lys Ile Trp Lys Lys Met Asn Thr Gln Ala
 1 5 10 15

Ser Leu Pro Leu Gln Lys Arg Arg Arg Ala Lys His Ala Leu Ala Ala
 20 25 30

Arg Gly Ala Lys Leu His Pro Phe Leu Arg Glu Ala Lys Leu Thr Tyr
 35 40 45

Leu Ile Pro Leu Asp Ala Lys Ala Lys Tyr Lys Val Ala Ser Gly Trp
 50 55 60

Leu Asn Gln Ala Arg Val Met Trp Ala Tyr Arg Arg
 65 70 75

<210> 2335
 <211> 43
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2335

Leu Ile Lys Met Leu Lys Arg Tyr Leu Lys Leu Leu Arg Arg Gly Gly
 1 5 10 15

Ala Cys Arg Ala Thr Pro Ala Ala Arg Leu Ser Lys Lys Arg Gly Tyr
 20 25 30

Met Gln Arg Val Leu Ser Thr Arg Arg Gln Cys
 35 40

<210> 2336

<211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2336

Lys Leu Lys Phe Tyr Lys Arg Met Phe Lys Phe Phe Lys Lys Ala Ile
 1 5 10 15

His Ser Leu Leu Ala Lys Leu Ser Arg Ala Gly Lys Ala
 20 25

<210> 2337
 <211> 50
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2337

Lys Phe Lys Tyr Tyr Cys Lys Ile Phe Lys Tyr Phe Pro Arg His Leu
 1 5 10 15

Lys Val Ala Lys Asp Lys Lys Ile Lys Leu Arg Ile Leu Leu Glu Arg
 20 25 30

Trp Arg Ala Leu Leu Lys Val Lys Trp Val His Ser His Leu Ala Leu
 35 40 45

Lys Leu
 50

<210> 2338
 <211> 41
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2338

Arg Leu Lys Leu Met Arg Lys Met Met Lys Phe Tyr Arg Arg Leu Leu
 1 5 10 15

His Asp Thr Leu Ala Lys Asn Ala Ala Met Phe Arg Ala Ile Leu Gln

20

25

30

Arg Pro Val Asn Lys Leu Ala Ser Cys
 35 40

<210> 2339

<211> 80

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2339

Arg Tyr Arg Leu Met Arg Lys Leu Leu Lys Ile Leu Arg Arg Leu Ala
 1 5 10 15

Leu Ala Pro Arg His Pro Asp Asn Cys Phe His Cys Lys Lys Gln Arg
 20 25 30

Gln Leu Pro Arg Ser Lys Lys Lys Trp Ala Lys Pro Arg Gln Phe Asn
 35 40 45

Cys Glu Asn Tyr Arg Ala Lys Leu Pro Ala Arg Val Leu Phe Ala Arg
 50 55 60

Lys Ser Arg Gly Ser Asp Ala Arg Met Thr Tyr Leu His Ala Leu Leu
 65 70 75 80

<210> 2340

<211> 76

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2340

Arg Phe Lys Met Leu Arg Arg Phe Tyr Lys Lys Phe Lys Lys Lys Ala
 1 5 10 15

Lys Trp Pro Leu Lys Leu His Gly Gln Lys Leu Thr Leu Leu Thr Ala
 20 25 30

Arg Gly Leu Leu Arg Lys Arg Tyr Lys Leu Leu Ala Lys Asn Lys Thr
 35 40 45

Asn Pro Trp Thr Ser Leu Ala His Ala Leu Arg Arg Lys Gly Ala Gln
 50 55 60

His Lys Gly Glu His Leu Ala Lys Asp Leu Ala Asn
 65 70 75

<210> 2341
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2341

Tyr Tyr Lys Met Trp Arg Arg Phe Ile Arg Arg Leu Arg Lys Ala Phe
 1 5 10 15

Lys Asn Ala Leu Asn Leu Pro Ala Tyr
 20 25

<210> 2342
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2342

Arg Leu Lys Ile Leu Arg Lys Phe Leu Lys Met Phe Arg Ser Ala Leu
 1 5 10 15

Thr Asn Met Lys Tyr Ala Gly Cys Tyr Lys Ile Arg Ala Arg
 20 25 30

<210> 2343
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2343

Lys Tyr Lys Tyr Leu Gln Lys Phe Leu Arg Lys Met Arg Cys Met Ser
 1 5 10 15

Ile Asp Arg Glu Lys Pro Leu Leu Thr Ala Phe Ile Lys Arg Leu Ser
 20 25 30

Ala Ala Leu Gly Ala Arg Ala Asp
 35 40

<210> 2344

<211> 42

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2344

Met Leu Arg Leu Leu Lys Arg Tyr Leu Lys Leu Phe Cys Thr Ile Arg
 1 5 10 15

Asn His Arg Pro Leu Trp Arg Leu Lys Gln Lys Lys Lys Leu Ala Lys
 20 25 30

Ala Val Cys Asp Lys Leu Gln Pro Thr Tyr
 35 40

<210> 2345

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2345

Leu Trp Arg Leu Phe Arg Lys Leu Met Lys Arg Tyr Cys Lys Trp Glu
 1 5 10 15

Lys Val Lys Trp Leu Asn Pro Leu Thr Lys Leu Ala
 20 25

<210> 2346

<211> 84

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2346

Arg Phe Lys Phe Met Lys Lys Met Leu Arg Arg Leu Cys Arg Leu Val
 1 5 10 15

Met Ser Arg Ala Gln Lys Ala Met Val Ala Lys Cys Phe Gly Arg Lys
 20 25 30

Leu Cys Leu Ala Gln Pro Thr Leu Gly Arg Arg Ser Thr Leu Lys Leu
 35 40 45

Ile Lys Lys Lys His Ile Cys Leu Leu Arg Leu Lys Ala Trp Lys Lys
 50 55 60

Leu Val Lys Leu Tyr Leu Gln Lys Ser Leu Trp Tyr Gln Lys Thr Arg
 65 70 75 80

Ile Phe Lys Thr

<210> 2347

<211> 75

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2347

Tyr Ile Arg Leu Phe Arg Arg Phe Leu Arg Leu Phe Arg Gln Thr Arg
 1 5 10 15

Leu Cys Ala Tyr Arg Ala Leu Leu Thr Gly Ala Ala Leu Lys Arg Trp
 20 25 30

Met Ala Ala Leu Cys Arg Gln Lys Arg Arg Pro Arg Ala Met Thr Ala
 35 40 45

His Lys Gln Lys Tyr Lys Thr Leu Arg Leu Glu Leu Ser Arg Met Cys
 50 55 60

Arg Asp Arg His Ala Lys Val Tyr Thr Asp His
 65 70 75

<210> 2348

<211> 38

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2348

Ile Phe Arg Leu Leu Arg Lys Phe Tyr Lys Lys Leu Lys Lys Lys Glu
1 5 10 15

Arg Ile Pro His Leu Arg Tyr Glu Leu Leu Ala Ser Lys Ala Trp Leu
20 25 30

Met Leu Leu Leu Lys Cys
35

<210> 2349

<211> 41

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2349

Lys Phe Lys Leu Phe Lys Arg Tyr Leu Arg Lys Phe Arg Lys Arg Ala
1 5 10 15

Ala Leu Leu Asn His Ala Arg Val Pro Lys Ala Cys Leu Asn His Tyr
20 25 30

Glu Ala Lys Glu Lys Phe Val Glu Ala
35 40

<210> 2350

<211> 70

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2350

Phe Leu Arg Leu Tyr Lys Lys Ile Leu Arg Lys Leu Cys Thr Gln Ala
1 5 10 15

Met Lys Arg Pro Ile Asn Trp Leu Ile Ser Ser Leu Asn Leu Lys Thr
20 25 30

Lys Lys Val Arg Arg Arg Arg Ser Ala Arg Pro Trp Leu Lys Glu Lys
 35 40 45

Ala Arg Ala Phe Gln Trp Ile Trp Trp Leu Arg Leu Arg His Leu Arg
 50 55 60

Met Arg Ala Ile Asn Arg
 65 70

<210> 2351
 <211> 73
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2351

Leu Tyr Arg Tyr Phe Asn Lys Leu Ile Lys Ile Met Pro Lys Arg Arg
 1 5 10 15

Lys Leu Val Trp Leu Leu Lys Lys Arg Lys Arg Lys Arg Gly Arg Leu
 20 25 30

Leu Val Ser Val Leu Pro Pro His Met Leu Ala Arg Leu Glu Lys Tyr
 35 40 45

Gln Asp Leu His Lys Lys Asp Trp Leu Ala Leu Leu Phe Arg Lys Ala
 50 55 60

Phe Gly Lys Tyr Arg Cys Gln Trp Leu
 65 70

<210> 2352
 <211> 37
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2352

Trp Tyr Arg Phe Met Arg Lys Ile Leu Lys Leu Leu Ser Asn Leu Leu
 1 5 10 15

Val Lys Phe Asn Leu Ala Lys Lys Ala Ala Lys Phe Tyr Lys Leu Lys

20

25

30

Gln Arg Arg Glu Pro
35

<210> 2353
<211> 63
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 2353

Trp Leu Lys Phe Phe Ser Lys Phe Tyr Arg Lys Trp Asn Lys Leu Lys
1 5 10 15

Glu Gln Phe Lys Lys Arg Ala Tyr Ala Glu Thr Leu Leu Ala Phe Ala
20 25 30

Leu Arg Arg Lys Ala Gln Ala Leu Gly Leu Arg Arg Glu Leu Gln Phe
35 40 45

Asn Gln Asp Arg Ile Leu Gly Glu Lys Ala Arg Lys Leu Ala Val
50 55 60

<210> 2354
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 2354

Arg Phe Lys Phe Leu Arg Lys Leu Met Lys Tyr Ile Pro Lys Ala Ile
1 5 10 15

Ala Leu Lys Lys Phe Leu Phe Lys Lys Leu Leu
20 25

<210> 2355
<211> 74
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 2355

Arg Phe Arg Leu Trp Ser Arg Met Phe Arg Ile Leu Lys Arg His Leu
 1 5 10 15

Arg Leu Arg Tyr Lys Tyr Lys Glu Arg Lys Ile Arg Tyr Gly Phe Arg
 20 25 30

Tyr Thr Leu Lys Pro Leu Trp Phe Ala Thr Leu Ala Trp Asp Leu Lys
 35 40 45

Ala Asn Arg Ala Gln Ile Ala His Lys Leu Cys Ile Ser Gln Arg Ser
 50 55 60

Leu Asn Leu Lys Ala Leu Arg Arg Lys Ala
 65 70

<210> 2356

<211> 70

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2356

Lys Leu Arg Tyr Trp Arg Lys Trp Phe Arg Arg Phe Pro Asn Met Ala
 1 5 10 15

Ala Pro Lys Arg Ala Lys Leu Ala Ile Leu Gly Arg Arg Lys Arg Trp
 20 25 30

Lys Asn Pro Gly Lys Ala Ser Thr Leu Arg Leu Leu Thr Ile Pro His
 35 40 45

Gln Leu Glu Ile Asn Lys Val Arg Leu Lys Ile Lys Tyr Lys Leu Lys
 50 55 60

Ala Leu Ala Gln Arg Lys
 65 70

<210> 2357

<211> 48

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2357

Phe	Phe	Arg	Leu	Trp	Lys	Lys	Ile	Phe	Arg	Trp	Leu	Pro	Lys	Ala	Arg
1				5					10					15	

Met	Ala	Pro	His	Ala	Phe	Phe	Leu	Ala	Gly	Arg	Ala	Arg	Asp	Lys	Ile
			20					25					30		

Tyr	Leu	Leu	Ala	Arg	Tyr	Leu	Cys	Leu	Arg	Arg	Lys	Ser	Thr	Ala	Gly
		35					40					45			

<210> 2358

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2358

Ile	Leu	Lys	Ile	Leu	Lys	Lys	Leu	Met	Arg	Lys	Leu	His	Gln	Ala	Trp
1				5					10					15	

His	Trp	Ala	Leu	Arg	Arg	Arg	Thr	Gly	Lys	Ala	His	Ala	Asp	Arg	Met
			20					25					30		

Glu	Pro	Lys
		35

<210> 2359

<211> 44

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2359

Trp	Leu	Arg	Tyr	Trp	Asn	Lys	Tyr	Phe	Lys	Arg	Leu	Arg	Pro	Cys	Cys
1				5					10					15	

Asp	Leu	Ala	Ala	Asp	Leu	Lys	Glu	Arg	Cys	Leu	Gly	Met	Arg	Asp	Pro
			20					25					30		

Lys	Arg	Leu	Phe	Ala	Lys	Leu	Leu	Lys	His	Leu	Arg
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

35

40

<210> 2360

<211> 43

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2360

Ile	Leu	Arg	Phe	Leu	Arg	Arg	Leu	Met	Arg	Leu	Phe	Thr	Arg	Ser	Ala
1				5				10						15	

Leu	Glu	Met	Arg	Asn	Arg	Leu	Cys	Gly	Arg	Ala	Arg	Arg	Leu	Gly	Tyr
			20					25					30		

Trp	Ser	Ile	Leu	Leu	His	Pro	Tyr	Lys	Ala	Leu
			35				40			

<210> 2361

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2361

Arg	Leu	Lys	Leu	Tyr	Asn	Lys	Phe	Leu	Lys	Leu	Trp	Lys	Arg	Met	Gly
1			5					10						15	

Leu	Pro	Arg	His	Asn	Lys	Val	Arg	Asp	Cys	Thr	Thr	Ala	Leu	Lys	Asp
			20					25					30		

Lys	Trp	Lys	Leu	Cys	Ser	Leu	Lys
		35				40	

<210> 2362

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2362

Arg	Met	Lys	Leu	Trp	Lys	Arg	Trp	Met	Lys	Leu	Leu	Lys	Pro	Gln	Lys
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

1 5 10 15

Leu Ser Ile Leu Lys Ile Lys Lys Ala Ala Lys Leu Ala Arg Gln Leu
 20 25 30

Asn Arg Glu
35

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<210> 2363
<211> 21
<212> PRT
<213> Artificial Sequence
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<220>
<223> Computer-generated peptide variant
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<400> 2363

Tyr Met Lys Ile Leu Arg Lys Leu Leu Lys Arg Phe Lys Arg Met Ser
1 5 10 15

Ala Gln Met Ala Thr
20

<210>	2364
<211>	53
<212>	PRT
<213>	Artificial Sequence

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<220>
<223> Computer-generated peptide variant
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<400> 2364

Arg Ile Arg Phe Phe Pro Arg Met Phe Lys Leu Ile Arg Lys Lys Asn
1 5 10 15

Leu Arg Leu Tyr Arg Leu Lys Gln Ile Leu Ala Leu Asn Leu Ala Asn
20 25 30

Val Ala Asp Asp Trp Lys Lys Ala Gln His Ala Lys Leu Gly Ser Lys
35 40 45

Leu Leu Ser Arg Asn
50

$\langle 210 \rangle$	2365
$\langle 211 \rangle$	99
$\langle 212 \rangle$	PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2365

Arg Phe Lys Tyr Tyr Arg Arg Leu Leu Lys Leu Ile Lys Lys Gly Ala
1 5 10 15

Arg Cys Cys Arg Leu Pro Arg Leu Arg Lys Leu Asn Leu Met Ala Arg
20 25 30

Glu Gly Cys Leu Asp Met Tyr Arg Gly Leu Asn Ser Ile Ala Ile Leu
35 40 45

Ala Ala Pro Trp Ala Arg Leu Phe Leu Arg Gln Arg Arg Ser Gln Arg
50 55 60

Trp Asp Leu Lys Arg Asn Leu Glu Lys Ala Ser Val Ala Pro Arg Ala
65 70 75 80

Arg Glu Arg Arg Met Val Cys Lys Leu Tyr Ile Phe Gln Leu Ala Leu
85 90 95

Leu Arg Phe

<210> 2366

<211> 44

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2366

Phe Leu Arg Leu Tyr Ser Arg Trp Phe Lys Leu Leu Arg Cys Ala Ala
1 5 10 15

Ala Lys Ala Arg Arg Gln Ile Lys Lys Arg Ile His Arg Leu Tyr Ala
20 25 30

Cys Asp Ala Leu Cys Asn Val Lys Ser Ile Arg Asn
35 40

<210> 2367

<211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2367

Arg Phe Arg Leu Leu Arg Arg Met Trp Arg Phe Phe Arg Asn His Leu
 1 5 10 15

Ala Ala Leu Leu Glu Arg Ile Arg Met Lys Leu Leu Trp Ala
 20 25 30

<210> 2368
 <211> 75
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2368

Arg Leu Lys Phe Leu Thr Arg Trp Ile Arg Arg Phe Lys Arg His Leu
 1 5 10 15

Val Ile Ala Ala Ala Ala Trp Ala Ala His Gln Gly Arg Arg Asn Val
 20 25 30

Lys Pro Met Leu Arg Leu Arg Ser Arg Phe Phe Ala Gly Leu Arg Lys
 35 40 45

Phe Ala Arg Ile Asp Ala Asp Leu Arg Arg Ser Lys Lys Ala Leu Arg
 50 55 60

Gly Asp Arg Ala Ala Ala Thr Leu Gly Ile Lys
 65 70 75

<210> 2369
 <211> 26
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2369

Arg Phe Arg Leu Met Thr Arg Phe Phe Arg Lys Ile Lys Ser Ala Leu

1 5 10 15

Lys Arg Gly Ser Lys Thr Ala Leu Leu Ala
20 25

<210> 2370
<211> 38
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 2370

Phe Leu Lys Leu Phe Ser Lys Met Tyr Arg Lys Ile Lys Arg Gly Leu
1 5 10 15

Lys Arg Leu Ala Lys Gln Leu Ala Pro Glu Lys Ser Trp Glu Asn Ile
20 25 30

Trp Thr Leu Leu Leu Lys
35

<210> 2371
<211> 22
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 2371

Leu Tyr Lys Leu Leu Asn Arg Ile Trp Arg Lys Leu Arg Arg Ala Ile
1 5 10 15

Asp Leu Ala Ala Ala Lys
20

<210> 2372
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 2372

Trp Leu Arg Tyr Leu Arg Lys Trp Leu Lys Tyr Leu Gln Lys Glu Ala

1 5 10 15

Asn Arg Phe His
20

<210> 2373
<211> 54
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 2373

Arg Met Lys Phe Phe Gln Lys Met Tyr Lys Trp Phe Lys Gln Leu Ala
1 5 10 15

Ala Arg Ala His Leu Val Arg Asp Leu Arg Ala Leu Glu Leu Leu Tyr
20 25 30

Gln Ala Leu Asn Leu Ile Gln Lys Trp Gly His Ser Arg Lys Lys Ile
35 40 45

Lys Ala Leu Leu Leu Phe
50

<210> 2374
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 2374

Trp Leu Arg Leu Leu Arg Arg Ile Met Lys Arg Leu Arg Ser Ser Leu
1 5 10 15

Met Gly Ala Arg Arg His Trp Ala Ser Arg Leu Arg Ala Leu Leu Cys
20 25 30

Lys Ala Val Lys Arg Val Ser
35

<210> 2375
<211> 86
<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2375

Leu Leu Lys Leu Phe Lys Arg Leu Phe Lys Lys Tyr Arg Arg Arg Arg
1 5 10 15

Ala Arg His Arg Tyr Asn Pro Val Asn Lys Ala Gln Met Ser Val Val
20 25 30

Arg Lys Leu Glu Arg Ser Leu Tyr Ser Ala Arg Arg Ser Gly Ala Leu
35 40 45

Ala Trp Lys Leu Lys Lys Met Arg Trp Leu Ala Lys Asp Lys Glu Leu
50 55 60

Gln Cys His Ala Phe Leu Arg Arg Leu Leu Gln Asn Cys Gln Ser Ser
65 70 75 80

Leu Arg Thr Ala Thr Arg
85

<210> 2376

<211> 75

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2376

Arg Trp Arg Leu Ile Lys Lys Phe Tyr Arg Lys Leu Arg Lys Asn Tyr
1 5 10 15

Leu Arg Leu Lys Asn Ile Arg Gln Tyr Lys Ser Arg Glu Pro Arg Met
20 25 30

Trp Lys Arg Pro Leu Leu Arg Lys Leu Cys Tyr Gly Leu Gly Arg Leu
35 40 45

Ala Ala Leu Ala Glu Trp Lys Leu Asn Thr Met Ser Lys Gln Asn Ala
50 55 60

Tyr Thr Thr Leu Leu Gln Met Ala Ala Ala Leu

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<220>
<223>    Computer-generated peptide variant
<400>    2377
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Gln Leu Lys Ala Leu Ala Leu Ala Cys Tyr Ser Gln Lys
20 25

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<220>
<223>    Computer-generated peptide variant
<400>    2378
```

Leu Asp Leu His Pro
20

```
<220>
<223>    Computer-generated peptide variant
<400>    2379
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Ile Arg Cys Tyr Leu Ala Lys Glu Lys Ala Tyr Met
20 25

<210> 2380

<211> 94
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2380

Leu Leu Arg Leu Tyr Arg Arg Met Phe Arg Lys Phe Arg Lys Arg Arg
 1 5 10 15

Lys Arg Phe Ala Pro Ala Lys Leu Ala Leu Lys Ala Met Ile Gly Ala
 20 25 30

Lys Cys Gly Tyr Lys Lys Arg Asn Asn Ile Ala Ala Ser Arg Lys Ala
 35 40 45

Leu Arg Arg Arg Asn Lys Leu Phe Leu Leu Lys Gly Leu Leu Met Lys
 50 55 60

Arg Gln Ile Ala Lys Lys Leu Lys Asn Asn His Ile Arg Cys Gln Leu
 65 70 75 80

Ala Trp Ala Val Gly Arg Gly Met Met Tyr Ala Asn Phe Ala
 85 90

<210> 2381
 <211> 87
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2381

Phe Phe Lys Trp Met Lys Arg Ile Leu Arg Arg Leu Asn Lys Ala Pro
 1 5 10 15

Thr Ala Ala His Ser Leu Arg Ile Arg Ala Phe Asn Glu Val Arg Leu
 20 25 30

Arg Arg Arg Ala Lys Lys Lys Gly His Tyr Val Arg Leu Asn Leu Trp
 35 40 45

Arg Ala Phe Pro Val His Ala Val Arg Ala Trp Phe Leu Leu Gln Arg
 50 55 60

Trp Ala Ser Tyr Thr Pro Arg Ala Ser Leu Ala Asp Lys Phe Arg Ala
 65 70 75 80

Lys Lys Leu Met Arg Pro Arg
 85

<210> 2382
 <211> 50
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2382

Lys Leu Arg Phe Tyr Arg Arg Ile Leu Arg Lys Tyr Arg Arg Ala Arg
 1 5 10 15

Glu Lys Leu Phe Thr Ala Trp Gln Glu Arg Pro Lys Arg Lys Ile Glu
 20 25 30

Leu Thr Leu Cys Arg Leu Cys Leu Glu Leu Arg Ala Arg Thr Ala Leu
 35 40 45

Ala Ser
 50

<210> 2383
 <211> 58
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2383

Met Tyr Arg Phe Ile Lys Lys Phe Leu Arg Phe Ile Arg Pro Arg Leu
 1 5 10 15

Arg Cys Glu Arg Met His Lys Phe Met Arg Arg Cys Ala Arg Ala Ala
 20 25 30

Lys Phe Ala Tyr Lys Gly Leu Ala Arg Leu Pro Leu Met Thr Arg Gly
 35 40 45

Lys Leu Gln Leu Leu Pro Ala Arg Trp Leu

50

55

<210> 2384
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2384

Lys Phe Arg Leu Leu Lys Lys Tyr Phe Lys Arg Phe Arg Arg Cys Ser
 1 5 10 15

Trp Ala Pro Phe Ala Leu Leu
 20

<210> 2385
 <211> 78
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2385

Leu Phe Lys Leu Trp His Arg Trp Leu Arg Arg Met Arg Lys Ile Gln
 1 5 10 15

Ala Leu Leu Phe Arg Asn Asp Lys Ala Ala Asp Cys Lys Thr Arg Leu
 20 25 30

Ser Gly Met Ser Gln Arg Phe Leu Leu Leu Met Ala Asn Arg Thr Thr
 35 40 45

Ala Arg Lys Ser Lys Phe Glu Lys Ala Val Arg Lys Thr Leu Leu Ile
 50 55 60

Ala Asp Arg Leu Arg Ser Ala Lys Gln Glu Asp Gln Arg Lys
 65 70 75

<210> 2386
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2386

Lys Leu Lys Leu Phe Asn Lys Tyr Trp Lys Lys Met Arg Lys His Leu
1 5 10 15

Gln Ala Leu Val Ala His Leu Thr Arg Lys Ala Met
20 25

<210> 2387

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2387

Leu Ile Arg Phe Phe Lys Lys Phe Tyr Lys Arg Leu Lys Thr Ala Ser
1 5 10 15

Gln Leu Asp Leu
20

<210> 2388

<211> 31

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2388

Lys Tyr Lys Trp Trp Lys Arg Leu Leu Arg Arg Leu His Arg Cys Met
1 5 10 15

Arg Leu Gln Lys Tyr Phe Ala Lys Tyr Phe Arg Ala Leu Ala Ala
20 25 30

<210> 2389

<211> 62

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2389

Lys Phe Lys Leu Leu Lys Arg Leu Ile Arg Arg Leu Pro Lys Ala Lys

1					5					10					15				
Glu	Ala	Met	Pro	Glu	Ala	Pro	Asp	Arg	Ala	Leu	Arg	Ala	Ser	Asp	Arg				
			20				25						30						
Ala	Glu	Asp	Lys	Ala	Met	Met	His	Arg	Cys	Cys	Lys	Gly	Pro	Arg	Ala				
			35				40						45						
Arg	Lys	Arg	Met	Arg	Ala	Lys	Ala	His	Phe	Leu	Met	Gln	Lys						
			50				55						60						

<210>	2390
<211>	52
<212>	PRT
<213>	Artificial Sequence
<220>	
<223>	Computer-generated peptide variant
<400>	2390

[illegible]

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<210> 2391
<211> 50
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 2391
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Phe Tyr Arg Phe Met Arg Arg Met Met Arg Phe Met Ser Lys Arg Leu
1 5 10 15

Arg Cys Thr Arg Val Asn Ala Arg Lys Phe Glu Leu Asp Asn Ser Lys
20 25 30

Ala Leu Ala Ala Arg Lys Ala Ala Thr Phe Ala Trp Leu Leu Ala Leu
 35 40 45

Pro Leu
 50

<210> 2392
 <211> 58
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2392

Arg Phe Arg Ile Ile Arg Lys Met Tyr Arg Arg Leu Arg Lys Lys Arg
 1 5 10 15

Ala Leu Ala Leu Leu Arg Ala Ala Met Ile Gln Ala Lys His Ser Asp
 20 25 30

Trp Leu Ala Lys Leu Ala Arg Cys Cys Arg Arg Trp Leu Ala Pro Lys
 35 40 45

Ile Leu Gly Arg Val Lys Thr His Pro Leu
 50 55

<210> 2393
 <211> 55
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2393

Lys Phe Lys Met Tyr Arg Lys Phe Phe Lys Leu Ile Lys Ser Lys Arg
 1 5 10 15

Arg Asp Ala Leu Asn Ile Ala Arg Arg His Ala Met Asp Phe Lys Ala
 20 25 30

Phe Gly His Leu Arg Ala Leu Ile Lys Ala Arg Ala Ala Trp Lys Asp
 35 40 45

Pro Glu Lys His Leu Leu Tyr

50

55

<210> 2394
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2394

Phe Phe Arg Leu Trp Lys Lys Phe Leu Lys Lys Ile Cys Lys Thr Ala
 1 5 10 15

Ala Arg Phe Asn Arg Ala Ala Ala Leu Arg Ser Lys Ala Arg Ala Ala
 20 25 30

Tyr Leu

<210> 2395
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2395

Leu Leu Arg Leu Leu Thr Arg Trp Phe Arg Trp Phe Lys Lys Ala Gln
 1 5 10 15

Ala Lys His Cys Gly Gln Leu Arg His Ala Leu Lys Thr Leu His Pro
 20 25 30

Ala

<210> 2396
 <211> 54
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2396

Lys Phe Arg Phe Leu Asn Arg Leu Phe Arg Lys Phe Lys Asn Lys Cys

1 5 10 15

Leu Met Arg Ala Glu Ile Arg Ile Pro Lys Cys Val Ala Lys Ser Pro
20 25 30

Asn Arg Trp Leu Leu Leu Lys Leu Leu Ala Trp Asp Ala His Gln Val
35 40 45

Ala Arg Ala Ala Leu Arg
50

<210> 2397
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 2397

Leu Met Lys Leu Phe Gln Lys Phe Leu Arg Lys Leu Lys His Cys Leu
1 5 10 15

His Leu Val Lys Phe Ala His
20

<210> 2398
<211> 29
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 2398

Lys Phe Arg Leu Phe His Arg Ile Leu Arg Lys Phe Pro Pro Trp Cys
1 5 10 15

Ala Ser Ala Val Ala Leu Lys Gly Lys Leu Ala Arg Thr
20 25

<210> 2399
<211> 37
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 2399

Met Phe Arg Leu Leu Arg Arg Leu Trp Arg Arg Leu Arg Lys Glu Ala
1 5 10 15

Arg Val Gly Leu Gln Arg Leu Ala Tyr Arg Tyr Ile Lys Ala Ala Ala
20 25 30

Lys Arg Ala His Leu
35

<210> 2400

<211> 82

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2400

Leu Phe Lys Trp Leu Lys Arg Leu Trp Lys Phe Met Arg Arg Ala Lys
1 5 10 15

Gly Asn Lys Asp Ala Leu Lys Ala Lys Arg Arg Pro Ala Ala Leu Lys
20 25 30

Lys Arg Asn Ala Thr Glu Gly Gly Ser Ala Glu Lys Thr Gly Glu Ala
35 40 45

Leu Arg Thr Lys Phe Met Ser Met Thr Ser Tyr Lys Ala Ala Leu Arg
50 55 60

Tyr Lys Trp Arg Gln Glu Ala Lys Lys Arg Asp Phe Arg Arg Met Met
65 70 75 80

Ala Ala

<210> 2401

<211> 31

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2401

Lys Phe Lys Phe Ile Lys Lys Ile Leu Lys Trp Leu Arg Lys Ser Trp
 1 5 10 15

Leu Pro Arg Ala Arg Ala Lys Pro Gly Ala Leu Lys Cys Leu Ala
 20 25 30

<210> 2402

<211> 38

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2402

Lys Leu Lys Met Tyr Lys Lys Phe Leu Arg Arg Phe Arg Arg Phe Leu
 1 5 10 15

Ala Thr Thr Leu Arg Gly Gln Arg Leu Leu Glu Glu Trp His Trp Gln
 20 25 30

Ala Ala Asp Ser Lys Lys
 35

<210> 2403

<211> 39

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2403

Leu Met Arg Leu Leu Lys Arg Trp Ile Arg Arg Trp Lys Asn Leu Arg
 1 5 10 15

Ala Gly Ala Ala Arg Met Trp Trp Phe Thr Gly Gly Ala Lys Lys Ala
 20 25 30

Ala Tyr Lys Ala Lys Phe Ser
 35

<210> 2404

<211> 37

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2404

Leu	Leu	Lys	Ile	Leu	Lys	Arg	Leu	Trp	Lys	Arg	Phe	Cys	Lys	Arg	Met
1				5				10						15	

Lys	Lys	Val	Ala	Ala	Leu	Gly	Asn	Ala	Tyr	Lys	Asn	Gly	Gly	Glu	Leu
			20				25						30		

Phe	Ala	Arg	Asp	Gln
			35	

<210> 2405

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2405

Lys	Leu	Lys	Leu	Met	His	Lys	Trp	Ile	Arg	Leu	Leu	Ser	Lys	Met	Val
1				5				10						15	

Ala	Asp	Lys	His
			20

<210> 2406

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2406

Arg	Tyr	Lys	Leu	Met	Asn	Lys	Leu	Ile	Arg	Leu	Ile	Lys	Arg	Pro	Leu
1				5				10						15	

Ala	Lys	Phe	Arg	Ala	Glu	Asn	Ala	Ile
			20				25	

<210> 2407

<211> 41

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2407

Phe	Leu	Arg	Phe	Tyr	Lys	Lys	Phe	Phe	Arg	Lys	Leu	Ser	Arg	Asn	Pro
1				5					10					15	

Ala	Ala	Arg	Ala	Val	Arg	Asn	Cys	Ala	Ile	Lys	Lys	Lys	Thr	Val	Ala
			20					25					30		

Arg	Tyr	Arg	Cys	Leu	Asn	Leu	Leu	Ala
		35				40		

<210> 2408

<211> 38

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2408

Leu	Phe	Arg	Leu	Met	Arg	Lys	Leu	Tyr	Arg	Lys	Phe	Asn	Arg	Tyr	Ser
1				5				10						15	

Leu	Leu	Leu	Glu	Lys	Arg	Arg	Pro	Leu	Ala	Pro	Ser	Ala	Arg	Asp	Lys
			20					25					30		

Thr	Met	Arg	Phe	Ala	Val
		35			

<210> 2409

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2409

Leu	Leu	Arg	Ile	Phe	Lys	Arg	Leu	Leu	Arg	Lys	Leu	Arg	His	Trp	Leu
1				5				10						15	

Lys	Met	Leu	Asn	His	Pro	Met	Arg	Leu	Pro	His	Ala	Lys	Lys
			20					25					30

<210> 2410

<211> 51
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2410

Lys Trp Lys Leu Tyr Lys Lys Tyr Tyr Arg Arg Met Lys Lys Leu Arg
 1 5 10 15

Ala Asn Gln Ser Lys Leu Ser Arg Gln Glu Leu Phe Leu Gln Asn Cys
 20 25 30

Ala Ala Lys His Thr Cys Lys Ile Leu Leu Leu Lys Leu Lys Lys Leu
 35 40 45

Cys Leu Pro
 50

<210> 2411
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2411

Arg Tyr Lys Leu Trp Arg Arg Tyr Phe Arg Arg Leu Cys Thr Leu Met
 1 5 10 15

Cys Lys Arg Ala Asp Gln Leu Gln Lys Ala Gly Leu Trp Pro Arg Gln
 20 25 30

Leu Leu Leu Asp
 35

<210> 2412
 <211> 68
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2412

Arg Leu Lys Leu Leu Ser Arg Ile Leu Lys Phe Phe Ser Lys Asn Ile

[illegible]

<210>	2413
<211>	25
<212>	PRT
<213>	Artificial Sequence
<220>	
<223>	Computer-generated peptide variant
<400>	2413

Leu Leu Lys Phe Leu Arg Lys Phe Leu Lys Leu Trp Arg Arg Lys Thr
1 5 10 15

Leu Asp Met Thr Ile His Ser Glu Arg
20 25

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<210> 2414
<211> 37
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 2414
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Lys Leu Lys Trp Ile Lys Lys Tyr Leu Arg Arg Met Arg Asn Val Ile
1 5 10 15

Ala Arg Pro Leu Arg Val Leu Lys Leu Cys Asp Gln Ala Lys Arg Ala
20 25 30

Leu Leu Lys Met Gln
35

<210> 2415
 <211> 39
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2415

Phe Met Arg Leu Met Arg Arg Met Leu Arg Met Trp Thr Thr Leu Leu
 1 5 10 15

Trp Leu Arg Trp Gly Leu Lys Ala Leu Arg Phe Tyr Thr Lys Arg Ala
 20 25 30

Lys Leu Ala Lys His Phe Ala
 35

<210> 2416
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2416

Arg Phe Arg Leu Phe Lys Arg Trp Met Arg Lys Met His Cys His Ala
 1 5 10 15

Lys Lys Ser Leu Leu Asp Pro Ala Ala
 20 25

<210> 2417
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2417

Tyr Leu Arg Ile Phe Arg Lys Ile Leu Lys Leu Tyr Cys Cys Leu Lys
 1 5 10 15

Gln Lys Lys Lys Gln Trp Arg Cys Ala Ala Asp Leu Lys Met Arg Val
 20 25 30

Ser Ala Leu Thr Pro Leu Pro Arg
 35 40

<210> 2418
 <211> 90
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2418

Lys Ile Arg Tyr Leu Lys Lys Met Met Arg Leu Leu Arg Arg Gln Lys
 1 5 10 15

His Lys Leu Lys Asp Lys Cys Asn Leu Leu Lys Val Ala His Thr Asp
 20 25 30

Lys Leu Met Thr Leu Ala Phe Tyr Lys Lys Ala Met Thr Lys Cys Arg
 35 40 45

Ala Ala Ala Met Ala Leu Phe Thr Cys Lys Gly Phe Ala Tyr Leu Ala
 50 55 60

Lys Gln Arg Asn Pro Thr Ala Glu Leu Ala Arg Asp Lys Val Leu His
 65 70 75 80

Tyr Leu Ala Arg Trp Gly Leu Lys Arg Gln
 85 90

<210> 2419
 <211> 38
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2419

Leu Trp Arg Trp Trp Lys Arg Phe Ile Arg Leu Phe Lys Arg Glu His
 1 5 10 15

Arg Val Leu Leu Leu Val Pro Arg Lys Tyr Trp Leu Leu Ala Ala Arg
 20 25 30

Leu Asn Ala Cys Arg Met

35

<210> 2420
 <211> 31
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2420

Lys Trp Arg Ile Leu Thr Arg Leu Phe Arg Met Tyr Lys Lys Arg Lys
 1 5 10 15

Arg Thr Val Asn His Tyr Ala Leu Leu Tyr Leu Arg Leu Ala Leu
 20 25 30

<210> 2421
 <211> 54
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2421

Arg Phe Lys Trp Phe Lys Arg Met Trp Arg Arg Ile Lys Arg Leu Arg
 1 5 10 15

Thr Thr Leu Phe Pro Phe Arg Leu Leu Thr Ile Arg Lys Ala Glu Leu
 20 25 30

Arg Ala Arg Arg Asp Ala Ala Leu Asp Val Ala Leu Asn Thr Leu Leu
 35 40 45

Ala Leu Trp His Arg Val
 50

<210> 2422
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2422

Leu Trp Lys Met Ile His Lys Trp Phe Arg Lys Leu Lys Cys Leu Cys

1 5 10 15

Ala Leu Asn Leu Leu Ser Lys Gly Arg
20 25

<210> 2423
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 2423

Lys Ile Lys Leu Phe Ser Arg Ile Phe Arg Phe Met Lys Gln Leu Ala
1 5 10 15

Glu Tyr Ala Lys Lys Ala Met Gln Met Ala Arg Ala Trp Phe Lys Asn
20 25 30

Lys His Arg Ala Ala Tyr Ala Leu
35 40

<210> 2424
<211> 24
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 2424

Lys Leu Arg Leu Ile Arg Lys Leu Leu Lys Met Tyr Ser Ser Lys Asn
1 5 10 15

Lys His Pro Trp Leu Leu Pro Leu
20

<210> 2425
<211> 54
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 2425

Leu Leu Arg Phe Leu Ser Lys Phe Leu Arg Ile Phe Lys Arg Val Leu

1 5 10 15

Leu Gly Arg Arg Pro Gln Leu Ala Gly Lys Arg Phe Lys Phe Lys Arg
 20 25 30

Tyr Thr Leu Lys Lys His Asp Leu Gln Arg Trp Ala Ser His Lys Asn
 35 40 45

Tyr Ile Ala Asp Ala Leu
 50

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<210> 2426
<211> 29
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 2426
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Arg Phe Arg Met Phe Thr Arg Leu Trp Lys Lys Trp Thr Gln Lys Gly
1 5 10 15

Ala Arg Lys Leu Lys Leu Ala Trp Ala Gly Leu Pro Gln
20 25

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<210> 2427
<211> 61
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 2427
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Arg Tyr Lys Met Leu Asn Arg Trp Phe Lys Phe Phe Thr Arg Ala Ala
1 5 10 15

Cys Ala Ala Pro Asn Leu Lys Ile Pro Lys Cys Asp Lys Ala Leu Tyr
20 25 30

Leu Tyr Arg Arg Lys Cys Arg Ala Arg Asp Lys Phe Asn Ala Leu Val
35 40 45

Leu Met Thr Arg Asn Leu Lys Lys Ala Ala Lys Arg His
50 55 60

<210> 2428
 <211> 74
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2428

Arg Trp Lys Phe Leu Lys Lys Leu Met Arg Arg Ile Lys Ser Arg Leu
 1 5 10 15

Arg Thr Lys Asn Gln Ala Ala Ser Val Leu Pro Ala Arg Glu Arg Arg
 20 25 30

Glu Ala Ile Glu Phe Arg Ala Glu Leu Lys Leu Arg Thr Lys Leu Arg
 35 40 45

Gln Pro Ala Lys Gly Leu Leu Leu Arg Cys Asn Leu Arg Tyr Arg Thr
 50 55 60

Lys Arg Phe Gln Leu Ala Gly Arg Lys Leu
 65 70

<210> 2429
 <211> 41
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2429

Leu Leu Lys Trp Leu His Lys Leu Phe Lys Arg Leu Arg Arg Met Ala
 1 5 10 15

Thr Ala His Leu Trp Gly Leu Lys Arg Leu Ser Gln Arg Ile Lys Glu
 20 25 30

Gly Lys Met Ala Lys Met Ala Glu Leu
 35 40

<210> 2430
 <211> 45
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2430

Arg	Ile	Lys	Met	Leu	Arg	Arg	Met	Leu	Lys	Lys	Trp	Lys	Arg	Pro	Glu
1				5					10					15	

Asp	Tyr	Leu	Lys	Trp	Met	Leu	Ala	Ala	Leu	Ala	Cys	Asp	Ala	Leu	Ser
			20					25					30		

Met	Arg	Gln	Ala	Ala	Thr	Tyr	Leu	Leu	Arg	Ala	Arg	Gly
		35					40					45

<210> 2431

<211> 60

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2431

Met	Leu	Lys	Leu	Ile	Lys	Arg	Leu	Leu	Lys	Arg	Phe	Lys	Arg	Arg	Lys
1				5					10					15	

Gln	Lys	Ala	Ala	Gln	Ala	Leu	Glu	Lys	Trp	Ser	Pro	Arg	Pro	Ala	Leu
			20					25					30		

Asp	Thr	Tyr	Tyr	Leu	Met	Lys	Leu	Ala	Asn	Asp	Arg	Ala	Tyr	Ala	Lys
		35					40					45			

Asp	Arg	Lys	Gln	Arg	Leu	Thr	Arg	Asp	Arg	Ala	Lys
	50					55					60

<210> 2432

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2432

Tyr	Trp	Lys	Leu	Phe	Pro	Arg	Trp	Tyr	Lys	Lys	Leu	Lys	Arg	Cys	Ala
1				5					10					15	

Lys	Leu	Arg	Leu	Thr	Arg	Lys	Ala	Lys	Leu	Asp	Leu	Leu	Cys
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

20

25

30

<210> 2433
 <211> 64
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2433

Trp Trp Arg Leu Phe Lys Arg Leu Leu Lys Arg Leu Thr Arg Val Leu
 1 5 10 15

Leu Arg Tyr Thr Arg Lys Lys Ala Asn Arg Arg Leu Pro Trp Leu Leu
 20 25 30

Lys Met Glu Ile Ser Glu Ala Lys Lys Asn His Arg Leu Ala Gly Lys
 35 40 45

Lys Leu Gln Val Ala Asn Asp Arg Lys Glu Arg Ala Arg Ala Asp Ala
 50 55 60

<210> 2434
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2434

Arg Met Lys Phe Phe Lys Lys Phe Leu Lys Lys Leu Lys Asn Leu Asp
 1 5 10 15

Pro Met Leu Ala
 20

<210> 2435
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2435

Arg Phe Arg Phe Met Asn Arg Leu Leu Lys Arg Phe Gln Lys Arg Trp

1 5 10 15

Leu Leu Lys Phe Leu Pro Ala Met Lys Pro Lys Leu Gly Leu Ala Arg
20 25 30

Leu Leu

<210>	2436
<211>	69
<212>	PRT
<213>	Artificial Sequence

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<220>  
<223> Computer-generated peptide variant
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<400> 2436

Phe Trp Arg Trp Leu Cys Arg Leu Leu Arg Arg Leu Arg Arg His Asn
1 5 10 15

Asp Arg Val His Leu Ser Arg Thr Asp Lys Ala Leu Met Leu Gln Lys
20 25 30

Leu Asp Glu Arg Glu Ala Gln Thr Arg Trp Met Val Leu Lys Gly Ala
35 40 45

Met Arg Arg Ser Asn Ser Lys Leu Lys Gly Ile Tyr Cys Arg Ala Leu
50 55 60

Ala Lys Lys Leu Arg
65

<210>	2437
<211>	94
<212>	PRT
<213>	Artificial Sequence

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<220>
<223> Computer-generated peptide variant
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<400> 2437

Arg Phe Arg Ile Ile Arg Lys Phe Leu Arg Arg Ile His Ser Val Thr
1 5 10 15

Leu Ile Lys Lys Met Leu Gln Ile Trp His Ala Gly Phe Ala Arg Arg
20 25 30

Leu Leu Lys Leu Leu Ala Val Leu Phe Gly Thr Glu Lys Leu Leu Ala
 35 40 45

Lys Lys Thr Ala Lys Met Phe Lys Lys Glu Met Trp Arg Arg Lys Lys
 50 55 60

Ile Arg Thr Leu Leu Ala Lys Arg Gly Asp Met Ala Lys Gln Leu Leu
 65 70 75 80

Ala Trp Arg Glu Gly Arg Leu Met Lys Lys Arg Lys Trp Arg
 85 90

<210> 2438
 <211> 58
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2438

Ile Leu Lys Leu Leu Gln Lys Trp Trp Arg Phe Trp Thr Ser Ala Ser
 1 5 10 15

Lys Pro Lys Met Ala Leu Leu Arg Lys Thr Asp Ala Phe Thr Gly Leu
 20 25 30

Leu Ala Leu Asp Thr Arg His Gly Ser Leu Arg Lys Val Ala Lys Pro
 35 40 45

Lys Ala Met Arg Lys Leu Pro Ala Glu Lys
 50 55

<210> 2439
 <211> 72
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2439

Lys Leu Lys Tyr Trp Lys Arg Phe Leu Arg Lys Leu Thr Ser Met Gln
 1 5 10 15

Tyr Leu Arg Asp Arg Phe Gln Lys Ala Gln Arg Arg Lys Leu Pro His

20

25

30

Ala Thr Glu Lys Lys Cys Ala His Gln Leu Leu Arg Cys Thr Asn Tyr
 35 40 45

Asp Arg Tyr Phe Arg Leu Arg Pro Arg Asp Ala Leu Arg Cys Asp Leu
 50 55 60

Lys Ala Leu Lys Pro Lys Leu Ile
 65 70

<210> 2440

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2440

Lys Leu Arg Leu Leu His Lys Trp Leu Lys Phe Met Arg Lys Cys Arg
 1 5 10 15

Leu Ser Thr Gln Met Gly Arg Ala Leu Arg
 20 25

<210> 2441

<211> 47

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2441

Arg Phe Lys Phe Ile Ser Arg Trp Leu Lys Lys Leu Lys Gln Arg Cys
 1 5 10 15

Lys Ala Arg Lys Leu Gly Ala Thr Leu Gly Tyr Leu Asn Tyr Arg Ile
 20 25 30

His Arg Arg Leu Lys Val Ala Met Leu His Thr Arg Phe Ala Phe
 35 40 45

<210> 2442

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2442

Lys Met Arg Phe Phe Gln Arg Met Tyr Arg Lys Ile Arg Lys Ala Leu
1 5 10 15

Ile Leu His Leu Thr Lys Ala Arg Met Ala Leu Thr
20 25

<210> 2443

<211> 56

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2443

Leu Met Lys Tyr Phe Arg Arg Leu Trp Arg Arg Met Arg Thr Ala Lys
1 5 10 15

Leu Trp Leu Leu Lys Arg Asn Leu Tyr Arg Leu Pro Arg Lys Trp Ala
20 25 30

Ala Arg His Gln Leu Gly Gly Arg Arg Arg Pro Ser Arg Asn Leu Cys
35 40 45

Ala Tyr Tyr Cys Thr Leu Phe Arg
50 55

<210> 2444

<211> 85

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2444

Arg Leu Lys Phe Phe Arg Arg Leu Phe Arg Phe Phe Lys Pro Ala Leu
1 5 10 15

Cys Ala Lys Ala Thr Val Phe Met Lys Leu Arg Leu Cys Leu Leu Asn
20 25 30

Pro Ala Arg Ala Met Arg Trp Pro Ala Lys Lys Leu Arg Ile Val Arg
 35 40 45

Thr Leu Lys Val Asp Phe Glu Arg Ala Gly Tyr Ser Ser Lys Arg Lys
 50 55 60

Pro Glu Arg Asn Cys Ile Arg Ala Arg Ala Ala Lys Gly Asn Lys Leu
 65 70 75 80

Ile Ala Arg Tyr Phe
 85

<210> 2445
 <211> 48
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2445

Arg Leu Arg Phe Leu Cys Lys Phe Phe Arg Leu Leu Cys Lys Arg Lys
 1 5 10 15

Ala Glu Lys Leu Asn Leu Asp Asn Ala Pro Phe Leu Ala Asp Asp Pro
 20 25 30

Arg Arg Ala Arg Arg Ile Lys Val Phe Arg Ser Thr Arg Leu Phe Cys
 35 40 45

<210> 2446
 <211> 38
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2446

Leu Trp Lys Trp Phe Ser Arg Leu Leu Lys Arg Leu Arg Arg Pro Asp
 1 5 10 15

Lys Ile Ala Leu Tyr Ala Arg Ala Leu Ser Glu Lys Arg Leu Gly Ala
 20 25 30

Phe Arg Glu Gln Arg Trp

35

<210> 2447
 <211> 57
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2447

Leu Ile Lys Ile Phe Lys Lys Ile Trp Arg Arg Met Gln Lys Ser Lys
 1 5 10 15

Asn Asp Leu Pro Tyr Lys Lys Met Leu Trp Ala Arg Ala Tyr Arg Arg
 20 25 30

Lys Ala Lys Gln Cys Tyr Ala Lys Pro Leu Tyr Leu Lys Leu Ala Arg
 35 40 45

Leu Leu His Phe Arg Arg Trp Tyr Leu
 50 55

<210> 2448
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2448

Lys Trp Lys Leu Leu Lys Arg Ile Ile Lys Lys Leu Lys His Asp Asn
 1 5 10 15

Ala Ala Leu Lys Gln Pro Pro
 20

<210> 2449
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2449

Lys Tyr Lys Leu Leu Arg Arg Phe Trp Lys Leu Phe Arg Lys Asn Arg

1 5 10 15

Val Arg Ala Leu Gln Cys Pro Pro Leu Leu Leu Lys Lys Ser Ala Pro
20 25 30

Met Lys Leu Phe Asp Met Arg Gln
35 40

<210>	2450
<211>	46
<212>	PRT
<213>	Artificial Sequence

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<220>  
<223> Computer-generated peptide variant
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<400> 2450

Lys Tyr Arg Phe Met Arg Arg Met Leu Arg Arg Leu Gln Arg Ala Tyr
1 5 10 15

Arg His Arg Ala Cys Asp Arg Gly Arg Ser Ala His Asn Leu Cys Ala
20 25 30

Asn Arg Arg Lys Leu Ala Leu Gly Ala Phe Lys Asp Ala Tyr
35 40 45

<210>	2451
<211>	40
<212>	PRT
<213>	Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 2451

Lys Ile Lys Leu Leu Lys Arg Ile Trp Arg Arg Trp Lys Gln Ile Lys
1 5 10 15

Ala Tyr His Arg Ala Arg Val Ala Arg Pro Arg Ile Leu Ala Ala Pro
20 25 30

Lys Ala Tyr Lys Ala Tyr Val Ile
35 40

$\langle 210 \rangle$	2452
$\langle 211 \rangle$	72
$\langle 212 \rangle$	PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2452

Met Leu Arg Trp Leu Lys Arg Met Phe Arg Lys Phe Asn Lys Arg Lys
1 5 10 15

Leu Ile Leu Gln Arg Ala Leu Lys Val Arg Glu Leu Met Trp Leu Trp
20 25 30

Asp Leu Ala Ala Met Asn Arg Arg Val Ala Arg Arg Arg Leu Asn Arg
35 40 45

Met Asp Ala Ala Arg Lys Lys Asp Trp Arg Met His Ser Cys Leu Leu
50 55 60

Phe Thr Val Arg Leu Ile Arg Arg
65 70

<210> 2453

<211> 38

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2453

Leu Phe Lys Leu Trp His Arg Leu Leu Arg Met Leu Arg Arg Arg Cys
1 5 10 15

Asn Lys Lys Ala Ala Leu Lys Arg Asp Val Val Gln Lys Arg Ser Gly
20 25 30

Phe Glu His Tyr Leu Ile
35

<210> 2454

<211> 41

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2454

Lys Leu Lys Ile Leu Lys Lys Phe Phe Arg Phe Trp His Lys Lys Lys
 1 5 10 15

Leu Val Ala Asp Lys Cys Trp Cys Pro Ser Glu Leu Leu Pro Leu Arg
 20 25 30

Ala His Ala Ala Ala Cys Leu Ile Leu
 35 40

<210> 2455
 <211> 27
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2455

Lys Leu Arg Phe Met Lys Arg Trp Leu Lys Lys Leu Arg Lys Ser Leu
 1 5 10 15

Ala Pro Ser Arg Ser Ala Ser Asn Leu Leu Ala
 20 25

<210> 2456
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2456

Leu Met Lys Leu Trp Pro Arg Leu Leu Lys Ile Phe Lys Pro Lys Leu
 1 5 10 15

Lys His Asn Leu Thr Arg Gly Lys Ile Ile Ala Trp Glu Ala Leu Lys
 20 25 30

Leu

<210> 2457
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2457

Leu	Met	Lys	Leu	Leu	Arg	Arg	Leu	Leu	Lys	Lys	Leu	Thr	Gln	Leu	Leu
1				5					10					15	

Pro	Arg	Asp	Thr	Val	Lys
				20	

<210> 2458

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2458

Lys	Phe	Lys	Leu	Phe	Cys	Arg	Met	Ile	Arg	Leu	Leu	His	Lys	Arg	Gly
1				5					10					15	

Arg	Ala	Leu	Gln	Met	Leu	Arg	Lys	Lys	Ala	Asn	Phe	Leu	Trp	Arg	Ser
			20					25						30	

Ala	Arg	Asn	Leu
			35

<210> 2459

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2459

Ile	Met	Arg	Phe	Leu	Arg	Arg	Leu	Leu	Arg	Met	Leu	Gln	Pro	Arg	Ser
1				5					10					15	

Leu	Thr	Arg	Arg	Asp	Leu	Asp	Leu
				20			

<210> 2460

<211> 43

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2460

Lys Trp Lys Leu Leu Lys Arg Leu Leu Lys Tyr Phe Lys Pro Leu Lys
 1 5 10 15

Trp Ala Tyr Ala Val Arg Arg Gln Arg Asn Lys Tyr Ile Leu Met Trp
 20 25 30

Met Leu Ala Arg Leu Lys Glu His Ala Ala Leu
 35 40

<210> 2461

<211> 69

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2461

Arg Leu Lys Leu Leu Gln Lys Leu Phe Lys Phe Ile Lys Lys Lys Leu
 1 5 10 15

Lys Arg His Ala Lys Leu Leu Gly Lys Ser Arg Arg Ser Ile Asn Ala
 20 25 30

Thr Val Ala Leu Leu Leu Ala Trp Val Asn Gln Ile Ile Asn Lys Arg
 35 40 45

Asn Ile Lys Val Leu Leu Val Tyr Ile Cys Ala Lys Lys Ala Met Gln
 50 55 60

Asn Lys Lys Val Ala
 65

<210> 2462

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2462

Arg Tyr Arg Leu Met Arg Arg Leu Leu Lys Arg Trp Gln Lys Leu Arg

1 5 10 15

Glu Pro Ala Leu Cys Ser Thr Leu His
20 25

<210> 2463
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 2463

Lys Ile Lys Phe Phe Arg Arg Leu Ile Lys Met Leu Lys Arg Ala Ala
1 5 10 15

Ala Arg Pro Met Arg Arg Ala Leu Val Cys Leu Ala Ser Ser
20 25 30

<210> 2464
<211> 47
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 2464

Lys Tyr Lys Met Met Cys Arg Leu Leu Arg Leu Leu Lys Asn Thr His
1 5 10 15

Ala Arg Arg His Lys Arg Phe Leu His Ala Lys Ala Gln Leu Gly Thr
20 25 30

Arg Leu Phe Lys Glu Trp Lys Glu Val Lys Arg Asn Met Asp Ala
35 40 45

<210> 2465
<211> 47
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 2465

Lys Leu Lys Leu Tyr Arg Lys Trp Leu Arg Phe Met Lys His Ile Gln

1 5 10 15

Arg Cys Asn Phe Lys Ala Arg Ala Val Phe Phe Asn Arg Ser Glu Arg
20 25 30

Ala Gly Ala Gln Lys Lys Leu Leu Leu Val Leu Glu Ile Arg
35 40 45

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<210> 2466
<211> 40
<212> PRT
<213> Artificial Sequence
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<220>
<223> Computer-generated peptide variant

<400> 2466

Met Leu Lys Leu Ile Lys Lys Trp Ile Lys Lys Leu His Pro Asp Thr
1 5 10 15

Arg Phe His Ala Gln Arg Leu Lys Ala Leu Ala Tyr Ala Leu Phe Arg
20 25 30

Trp Ala Val Lys Met Arg Ala Arg
35 40

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<210> 2467
<211> 40
<212> PRT
<213> Artificial Sequence
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<220>  
<223> Computer-generated peptide variant
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<400> 2467

Leu Phe Arg Ile Leu Lys Lys Leu Ile Arg Lys Leu Gln Ser Lys Arg
1 5 10 15

Thr Gly His Leu Lys Ser Lys Asp Gln Gln Val His Ala Leu Arg Pro
20 25 30

Leu Ala Cys Trp Leu Leu Arg Ala
35 40

$\langle 210 \rangle$	2468
$\langle 211 \rangle$	20
$\langle 212 \rangle$	PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2468

Ile Leu Arg Leu Trp Lys Arg Tyr Phe Lys Trp Leu Lys Arg Leu Gln
1 5 10 15

Gln Gly Trp Leu
20

<210> 2469

<211> 59

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2469

Phe Phe Arg Leu Phe Arg Lys Tyr Tyr Arg Lys Leu His Lys Cys Lys
1 5 10 15

Asn Glu Trp Ser Lys Ala Ala Ala Leu Met Ala Trp Lys Lys Ala Pro
20 25 30

Met Pro Lys Ala Lys Gln Ala Ala Asp Leu Arg Asp Ala Ile Gly Gln
35 40 45

Leu Trp Asn Tyr Ile Leu Ala Leu Ala Arg Ala
50 55

<210> 2470

<211> 31

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2470

Arg Met Arg Trp Phe Arg Lys Met Phe Arg Arg Leu His Asn Ala Ala
1 5 10 15

Met Cys Ala Tyr Ala Arg Lys Ala Pro Asn Arg Arg Phe Ala Leu
20 25 30

<210> 2471
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2471

Lys Met Arg Leu Ile Lys Lys Trp Leu Arg Arg Phe Arg Ser Gln Arg
 1 5 10 15

Cys Ala Leu Leu Ala Ala Lys Lys Ala Phe Asn Lys Gly Asn Asn Ala
 20 25 30

Tyr Ser Arg Glu
 35

<210> 2472
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2472

Arg Phe Lys Met Ile Arg Arg Trp Ile Lys Lys Phe Arg Lys Leu Ile
 1 5 10 15

Arg Leu Pro Ala Ile Arg Leu Arg Leu Trp Arg Gln Leu Leu Ala His
 20 25 30

Gln Arg Val His Ala His Pro Ala
 35 40

<210> 2473
 <211> 65
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2473

Arg Trp Lys Ile Leu Lys Arg Ile Leu Arg Met Phe Lys Lys Asp Pro
 1 5 10 15

Arg Ala Gly Ala Met Lys Arg Ala Leu Val Arg Leu Leu Trp Arg Lys
 20 25 30

His Leu Ala Asp Lys Pro Phe Ile Trp Leu Val Leu Ser Arg Leu Val
 35 40 45

Pro Ala Lys Ala Leu Arg Ala His Arg Arg Trp Glu Gly Ser Met Ala
 50 55 60

Trp
 65

<210> 2474
 <211> 27
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2474

Arg Leu Lys Leu Ile Ser Lys Leu Leu Arg Lys Phe Gln Lys Phe Ala
 1 5 10 15

Trp Arg Cys Ala Lys Leu Pro Gln Ala Ala Gln
 20 25

<210> 2475
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2475

Arg Leu Lys Leu Trp Arg Lys Leu Leu Arg Arg Leu His Lys Ala Ile
 1 5 10 15

Met Ser Ser Val Arg Thr Leu Met
 20

<210> 2476
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2476

Lys Leu Arg Ile Met Lys Lys Leu Met Arg Leu Leu Cys Lys Tyr Gly
 1 5 10 15

Val Ile Ala Lys Ser Lys Leu Gly
 20

<210> 2477

<211> 55

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2477

Arg Phe Arg Trp Leu Arg Arg Trp Phe Arg Leu Phe Arg Gln Ala Leu
 1 5 10 15

Arg Arg Lys Arg Leu Pro Leu Leu Arg His Lys Phe Ile Arg Met Ala
 20 25 30

Leu Arg Asn Trp Ala Lys Ala Ala Ile Arg Asp Asp Ala Pro Pro Ala
 35 40 45

Lys Leu Thr Ala Asp Arg Cys
 50 55

<210> 2478

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2478

Leu Phe Arg Leu Leu Arg Arg Tyr Trp Lys Trp Leu Cys His His Glu
 1 5 10 15

Leu Ala Pro Phe Arg Leu Arg Lys Lys Ala Arg Lys Ile
 20 25

<210> 2479

<211> 43
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2479

Phe Leu Arg Met Leu Lys Lys Phe Met Arg Lys Trp Asn Arg Arg Pro
 1 5 10 15

Ala His Lys Tyr Leu Leu Thr Cys Arg Pro Leu Leu Lys Lys Leu Phe
 20 25 30

Gly Ala Glu Lys Leu Lys Lys Phe Asp Met Asn
 35 40

<210> 2480
 <211> 60
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2480

Arg Trp Arg Leu Leu Cys Lys Trp Tyr Lys Phe Leu Asn Arg Tyr Asp
 1 5 10 15

Asn Ser Ala Leu Gly Leu Glu Ala Val Leu Tyr Leu Met Ala Ala Leu
 20 25 30

Arg Arg Pro Ala Val Asp Tyr Gln Leu Lys Cys Lys Met Lys Leu Arg
 35 40 45

Phe Thr Arg Thr Lys Thr Leu Lys Lys Ala Lys Asn
 50 55 60

<210> 2481
 <211> 68
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2481

Lys Phe Arg Leu Met Lys Arg Phe Leu Arg Lys Trp Gln Lys Arg Lys

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1              5              10              15

Lys  Pro  Ile  Asn  Leu  Ala  Ala  Ser  Arg  Leu  Lys  Arg  Lys  Leu  Ala  Gln
      20              25              30

Asn  Ala  Met  Lys  Glu  Arg  Leu  Ala  Lys  Ala  His  Thr  Trp  Leu  Pro  Leu
      35              40              45

Asp  His  Ala  Lys  Lys  Phe  Arg  Ala  Gly  Met  Arg  Ser  Phe  Tyr  Val  Ala
      50              55              60

Cys  Cys  Ser  Asp
65

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<210>	2482
<211>	35
<212>	PRT
<213>	Artificial Sequence
<220>	
<223>	Computer-generated peptide variant
<400>	2482

Leu Leu Lys Trp Tyr Arg Arg Trp Tyr Arg Lys Phe Pro Lys Tyr Ala
1 5 10 15

Leu Gly Leu Gln Met Arg Ala Ala Lys Arg Val Leu Gly Ala His Asn
20 25 30

Pro Arg Arg
35

<210>	2483
<211>	27
<212>	PRT
<213>	Artificial Sequence
<220>	
<223>	Computer-generated peptide variant
<400>	2483

Ile Leu Lys Phe Leu Gln Arg Leu Phe Arg Met Phe Thr Gln Lys Tyr
1 5 10 15

Pro Ala Lys Arg Lys Cys Asp Ala Ala Arg Leu
20 25

<210> 2484
 <211> 44
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2484

Phe Leu Lys Phe Leu Asn Arg Phe Phe Arg Lys Ile Lys Lys Leu Thr
 1 5 10 15

Arg Leu Arg Ala Leu Cys Leu Asp Gly Arg Ile Lys Ala Lys Arg Leu
 20 25 30

Arg Ala Glu His Arg Trp Leu Tyr Phe Arg Ala Gly
 35 40

<210> 2485
 <211> 56
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2485

Trp Tyr Lys Trp Leu Ser Lys Leu Leu Arg Tyr Leu Arg Arg Cys Phe
 1 5 10 15

Phe Ile Ala Glu Tyr Lys Ser Arg Leu His Lys Arg Lys Arg Arg Gly
 20 25 30

Arg Tyr Arg Lys Leu Glu Cys Leu Lys Ala Gly Leu Leu Arg His Gln
 35 40 45

Lys Val Gln Thr Ala Ala Ala Thr
 50 55

<210> 2486
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2486

Met Trp Arg Leu Tyr Arg Arg Leu Leu Arg Phe Trp Lys Arg Asp Pro
 1 5 10 15

Leu Lys Ser Ala Leu Leu Leu Ala Ala Ala Arg Arg Leu Arg Asp Ser
 20 25 30

Cys

<210> 2487
 <211> 75
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2487

Arg Tyr Lys Ile Ile Arg Arg Tyr Tyr Arg Ile Leu Arg Lys Cys Pro
 1 5 10 15

Ala Phe Lys Cys Leu Asp His Ala Gln Leu Arg Glu Leu Met Ser Lys
 20 25 30

Tyr Val Thr Phe Met Lys Ala Thr Ala Ala Leu Leu Lys Ala Lys Asp
 35 40 45

Gly Ala Arg Lys Arg Leu Phe Ile Ala Leu Arg Leu Met Arg Tyr Ile
 50 55 60

Arg Ala Leu Cys Ala Arg Arg Ala Lys Pro His
 65 70 75

<210> 2488
 <211> 52
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2488

Trp Phe Lys Phe Leu Lys Arg Leu Ile Arg Arg Leu Arg Thr Arg Gln
 1 5 10 15

His Met Asn Lys Phe Ala Ala Ala Leu Arg Gly Ala Asn Gln Asn Arg

20 25 30

Ala Leu Asp Asp Arg Leu Asn Met Leu Ala Ala Leu Tyr Tyr Arg Trp

35 40 45

Lys Arg His Ala
50

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<210> 2489
<211> 56
<212> PRT
<213> Artificial Sequence
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<220>  
<223> Computer-generated peptide variant
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<400> 2489

Leu Met Arg Phe Phe Lys Lys Leu Leu Lys Arg Leu Lys Arg Met Arg
1 5 10 15

Tyr Leu Cys Gln Gln Arg Gly Ser Arg Leu Arg Val Pro Val Leu Lys
20 25 30

Lys Ala Gln Ile Thr Ala Pro Ala Arg Met Leu Arg Cys Ile Ala Arg
35 40 45

Cys Glu Ala Leu Arg Cys Cys Thr
50 55

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<210> 2490
<211> 66
<212> PRT
<213> Artificial Sequence
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<220>
<223> Computer-generated peptide variant
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<400> 2490

Ile Phe Lys Phe Leu Pro Arg Leu Ile Lys Arg Leu Ser His Ile Asp
1 5 10 15

Leu Gly Arg Leu Arg Pro Leu Ile Phe Arg His Leu Thr Lys Leu Lys
20 25 30

Leu His Arg Ala Leu Arg Arg Gln Lys Leu Arg Glu Glu Leu Gly Val
35 40 45

Ala Cys Lys Arg Pro Thr Leu Lys Tyr Arg His Asn Leu Ala Glu Ala
 50 55 60

Gln Ala
 65

<210> 2491
 <211> 41
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2491

Phe Leu Arg Phe Phe Arg Arg Phe Leu Lys Trp Leu Asn Lys Lys Lys
 1 5 10 15

Ile Ala Asp Leu Ile Lys Ala Arg Ala Lys Leu Ala Ala Ser Lys Arg
 20 25 30

Glu Thr Ala Phe Trp Ile Lys Ala Glu
 35 40

<210> 2492
 <211> 31
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2492

Met Ile Lys Ile Leu Arg Arg Ile Phe Arg Lys Leu Arg Gln Lys Leu
 1 5 10 15

Ser Leu Glu Ala Arg Leu Leu Gln Val Arg Lys Ser Ala Ile Gly
 20 25 30

<210> 2493
 <211> 68
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2493

Lys Met Arg Trp Ile Cys Lys Leu Leu Arg Lys Tyr Cys Arg Tyr Lys
 1 5 10 15

Arg Lys Leu Thr Lys Leu Leu Asp Asn Arg Arg Pro Lys Asn Asn Arg
 20 25 30

Gly Ala Leu Asp Leu Leu Gln Leu Asn Cys Phe Ala Lys Ala Asp Asp
 35 40 45

Cys Leu Arg Leu Leu Lys Asp Ala Leu Lys Asn Cys Pro His Lys Ala
 50 55 60

Ala Trp His Met
 65

<210> 2494
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2494

Met Leu Arg Ile Leu Arg Lys Leu Trp Lys Lys Leu Lys Arg Leu Leu
 1 5 10 15

Pro Gln Thr Cys Arg Cys Pro Gly Thr Lys Ala Leu His Lys
 20 25 30

<210> 2495
 <211> 65
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2495

Arg Leu Arg Trp Leu Thr Arg Leu Met Arg Arg Tyr Asn Arg Ser Arg
 1 5 10 15

Leu Thr Lys Leu Ser Val Ala His Arg Lys Pro Arg Ala Arg His Lys
 20 25 30

Gln Arg Lys Asp Leu Leu Ala Gly Leu Ala Ala Arg Ala Trp Lys Ser

35

40

45

Phe Gln Lys Tyr Tyr Tyr Tyr Tyr Thr Asn Arg Gly Ala Ala Arg Asn
 50 55 60

Ala
 65

<210> 2496
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2496

Lys Phe Lys Leu Leu His Arg Leu Leu Lys Lys Leu Arg Lys Arg Leu
 1 5 10 15

Leu Lys Leu Ala Arg Phe Gln Val Tyr Tyr Arg Asn Cys Tyr Ile Thr
 20 25 30

Pro Lys Ala Cys
 35

<210> 2497
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2497

Arg Leu Lys Tyr Phe Thr Lys Trp Leu Lys Lys Tyr Thr Lys Glu Arg
 1 5 10 15

Ala Leu Ala Phe Ala Ile Ala Leu Ala Leu Arg Met Ala Pro Trp Arg
 20 25 30

Lys Phe

<210> 2498
 <211> 94
 <212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2498

Leu Leu Arg Leu Ile Lys Lys Leu Met Arg Lys Leu Cys Arg Ala Lys
1 5 10 15

Glu Arg Ala Ala Arg Tyr Asp Ser Ala Ala Asn Ala Lys Leu Gln Pro
20 25 30

Asn Arg Trp Arg Ser Lys Leu Ala Arg Glu Arg Asp His Ser Leu His
35 40 45

Leu His Arg Ser Phe Val Cys Lys Ala Met Arg Ile Val Gly Ala Lys
50 55 60

Arg Lys Lys Lys Ser Leu Gln Phe Asn Trp Val Arg Ala Ser Asp Glu
65 70 75 80

Cys Trp Gly Arg Ala Arg Arg Leu Trp Lys Lys Ala Val Ala
85 90

<210> 2499

<211> 49

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2499

Arg Leu Arg Tyr Phe Arg Arg Trp Leu Lys Leu Ile Lys Lys Gln Arg
1 5 10 15

Arg Trp Leu Leu Ala Ser Arg Ala Glu His Ala Ala Leu Arg Lys Arg
20 25 30

Ile Gln Lys Cys Lys Met Arg Lys Ala Lys Leu Leu Ser Gln Ala Leu
35 40 45

Tyr

<210> 2500

<211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2500

Lys Leu Arg Phe Ile Gln Lys Tyr Leu Lys Phe Leu Lys Asn Gly Met
 1 5 10 15

Lys Ala Cys Ala Leu Leu
 20

<210> 2501
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2501

Lys Phe Lys Ile Phe Lys Arg Leu Trp Arg Phe Phe Arg Lys Leu Arg
 1 5 10 15

Leu Asp Pro Cys Glu Lys Tyr Trp Ala Asp Ala Ala Leu Leu
 20 25 30

<210> 2502
 <211> 53
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2502

Leu Phe Arg Leu Trp Arg Arg Leu Phe Arg Arg Tyr Asn Lys Ala Gln
 1 5 10 15

Thr Lys Lys Pro Lys Gly Pro Phe Lys Arg Phe Leu Arg Pro Ala Leu
 20 25 30

Lys Leu Cys Leu Arg His Thr Lys Asn Ser Leu Gln Leu Ala Ser Gln
 35 40 45

Leu Asp Ala Asp Ala

50

<210> 2503
 <211> 45
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2503

Arg Leu Arg Met Leu Pro Arg Phe Ile Arg Lys Leu Arg Lys Trp Asn
 1 5 10 15

Leu Trp Thr Arg His Gly Thr Leu Arg Ala His Asp Lys Ala Ile Asp
 20 25 30

Leu Ala Ala Asn Tyr Gly Ala Tyr Lys Thr Lys Leu Arg
 35 40 45

<210> 2504
 <211> 41
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2504

Leu Trp Arg Met Met Gln Arg Met Phe Lys Arg Leu Asn Lys Leu Arg
 1 5 10 15

Leu Ala Ile Ile Lys Ala Leu Asp Asn Asp Ala Asn Ala Thr Met Pro
 20 25 30

Arg Leu Pro Arg Ala Val Lys Lys Lys
 35 40

<210> 2505
 <211> 89
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2505

Arg Leu Arg Tyr Phe Thr Arg Phe Ile Lys Lys Phe Lys Arg Cys Val

1 5 10 15
 Gly Cys Trp Asn Pro Leu Tyr Gln Leu Ala Ala Lys Met Glu Leu Ala
 20 25 30
 Arg Ala Leu Leu His Lys Arg Leu Lys Lys Lys Ala Gln Ala His Thr
 35 40 45
 Phe Lys His Leu Pro Ile Ala Gln Ala Val Ala Ile Arg Ala Asp His
 50 55 60
 Glu Arg Met Ala Ala Asn Ala Pro Lys Leu Met Lys Arg Val Arg Leu
 65 70 75 80
 Val Leu Ala Thr Ala Lys Arg Arg Lys
 85

<210> 2506
 <211> 48
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Computer-generated peptide variant

 <400> 2506

Arg Phe Arg Leu Leu Ser Arg Trp Leu Arg Tyr Ile Arg Pro Lys Ala
 1 5 10 15

 Ala Tyr Ala Trp Val Thr Arg Leu Ala Lys Phe Leu Lys Ala Arg Lys
 20 25 30

 Ala Gln Pro Cys Arg Lys Gln Pro Ala Met Val Ser Lys Glu Ala Leu
 35 40 45

<210> 2507
 <211> 64
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Computer-generated peptide variant

 <400> 2507

Trp Leu Lys Leu Phe Lys Arg Phe Tyr Arg Arg Phe Lys Lys Val Lys
 1 5 10 15

Ala Ala Ile Leu Leu Val Leu Asp Arg Lys Arg Arg Leu Leu Leu Ala
 20 25 30

Lys His Leu Phe Leu Lys Leu Cys Lys Ala His Lys Lys Ser Arg Met
 35 40 45

Phe Arg Gln Ile His Lys Ala Leu Lys Ala Arg Cys Asn Val Ala Lys
 50 55 60

<210> 2508
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2508

Lys Leu Lys Phe Leu Pro Arg Leu Leu Lys Ile Met Asn Lys Asn Phe
 1 5 10 15

Lys Arg Ala Leu Leu Gln Lys Gln Leu Leu Lys Ala Ala
 20 25

<210> 2509
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2509

Arg Leu Arg Leu Leu His Arg Leu Met Arg Lys Leu Lys Arg Trp Ser
 1 5 10 15

Ala Tyr Asn Pro Asp Leu Ala
 20

<210> 2510
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2510

Arg Leu Lys Leu Phe Lys Lys Ile Leu Arg Arg Met Thr Arg Asp Leu
 1 5 10 15

His Leu Met Glu Ala Met Lys Lys Arg Arg Lys Met Leu Met Ala Leu
 20 25 30

<210> 2511

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2511

Arg Leu Arg Met Leu Lys Lys Trp Leu Arg Ile Leu Thr Lys Leu Gln
 1 5 10 15

Lys Lys Ala Ile Val
 20

<210> 2512

<211> 100

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2512

Met Leu Lys Phe Ile His Arg Tyr Ile Arg Trp Ile Pro Arg His His
 1 5 10 15

Gln Met Arg Arg Val Arg Ala Asp Ala Ala Leu Val Lys Asn Pro Ala
 20 25 30

Arg Ala Lys Gln Asn Ala Arg Arg Leu Lys Arg Val Leu Leu Lys Trp
 35 40 45

Ser Arg Arg Lys His Thr His Cys Lys Ala Arg His Trp Tyr Ala Ala
 50 55 60

Arg Arg Ala Pro Lys Trp Arg Leu Ala Lys Thr Leu Ala Gly Leu Leu
 65 70 75 80

Pro Asn Arg Lys Phe Lys Asn Ala Arg Asn Asp Leu Lys Asp Ala Leu

85

90

95

Asp Arg Met Leu
100

<210> 2513
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 2513

Lys Leu Lys Trp Leu Asn Arg Phe Trp Arg Lys Tyr Lys Asn Arg Leu
1 5 10 15

Lys Lys Leu Thr Thr Gln Lys Leu Lys Trp Trp Leu Ala Glu Ala Tyr
20 25 30

<210> 2514
<211> 29
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 2514

Lys Phe Lys Leu Leu Pro Arg Leu Met Arg Phe Trp Pro Lys Thr Tyr
1 5 10 15

Arg Lys Pro Asp Leu Arg Val Ala Leu Ala Thr Leu Lys
20 25

<210> 2515
<211> 45
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 2515

Leu Ile Lys Tyr Phe Pro Arg Trp Phe Arg Lys Phe Cys Lys Gln Lys
1 5 10 15

Arg Gly Ala Arg Leu Leu Leu Lys His Trp Val Leu Lys Arg Met Lys

20

25

30

Lys His Leu Leu Leu Pro Ala Asn Ala Ala Gln Arg Lys
 35 40 45

<210> 2516

<211> 49

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2516

Leu Phe Lys Trp Leu Lys Lys Trp Ile Arg Ile Trp Lys Lys Leu Ala
 1 5 10 15

Ala Cys Ala Ser Lys Arg Arg Leu Leu Ala Met Phe His Lys Lys Arg
 20 25 30

Lys Cys Leu Arg Gly Thr Ala Cys Lys Ile Lys Leu Lys Leu Phe Asp
 35 40 45

Asp

<210> 2517

<211> 66

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2517

Trp Met Arg Phe Leu Lys Arg Leu Met Lys Leu Ile Lys Arg Lys Arg
 1 5 10 15

Ala Lys Gln Cys Glu Leu Glu Asp Ile Leu Gln Lys Arg Lys Ala Arg
 20 25 30

Asn Lys His Arg Ser Trp Cys Lys Lys Ala Phe Ser Ala Lys Leu Ala
 35 40 45

Pro Leu His Ala Ala Lys Arg Lys Asn Ile Ala Leu Thr Thr Gln Lys
 50 55 60

Tyr Ile
65

<210> 2518
<211> 70
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 2518

Arg Phe Lys Phe Phe Lys Lys Leu Leu Arg Ile Phe Thr Gln Asn Arg
1 5 10 15

Leu Lys Ala Lys Cys Ala Lys Leu Ser Leu Lys Ala Arg Ala Ala Leu
20 25 30

Leu Met His Pro Arg Lys Asp Lys Gln His Leu Ala Leu Lys Leu Asn
35 40 45

Pro Leu Ser Cys Ala Asp Thr Leu Lys Thr Ala Asn Trp Arg Arg Cys
50 55 60

Cys Arg Lys Ala Arg Thr
65 70

<210> 2519
<211> 53
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 2519

Arg Tyr Arg Phe Leu His Lys Ile Phe Lys Trp Leu Arg Thr Ala Tyr
1 5 10 15

Asn Lys Leu Gln Arg Tyr Gln Lys Cys Gln Ala Lys Ala Gly Lys Asp
20 25 30

Gln Arg Ala Ile Ala Gly Arg Arg Ala Arg Gln Arg Lys Ala Arg Lys
35 40 45

Thr Ala Leu Trp Leu

50

<210> 2520
 <211> 50
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2520

Lys Leu Lys Met Phe Lys Arg Leu Leu Arg Arg Trp Pro Pro Lys Leu
 1 5 10 15

Ala Met Arg Thr Leu Leu Glu Arg His Ala Trp Lys Leu Asn Leu Phe
 20 25 30

Arg Arg His Leu Ile Ala Ala Arg Arg Pro Lys Val Ser Lys His Ser
 35 40 45

Asn Thr
 50

<210> 2521
 <211> 52
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2521

Lys Trp Arg Phe Leu Lys Lys Met Met Lys Arg Phe Lys Lys Asp Ala
 1 5 10 15

Gln Arg Phe Ala Ala Trp Thr Ala Ala Met Gly Ala Ala Leu Val Tyr
 20 25 30

Arg Leu Ile Ala Leu Arg Trp Tyr Thr His Arg Glu Leu Val Ala Gly
 35 40 45

Leu Lys Ala Ala
 50

<210> 2522
 <211> 29
 <212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2522

Ile	Trp	Arg	Phe	Leu	Arg	Lys	Leu	Met	Lys	Trp	Leu	Arg	Asn	Leu	Lys
1				5				10						15	

Leu	Ser	Leu	Asn	Leu	Lys	Tyr	Arg	Ala	Asp	Lys	Lys	Leu
			20					25				

<210> 2523

<211> 39

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2523

Ile	Leu	Arg	Tyr	Phe	His	Lys	Leu	Leu	Lys	Arg	Leu	Lys	Asn	Lys	Ala
1				5				10						15	

Lys	Arg	Ala	Tyr	Arg	Leu	Asp	Met	Leu	Ala	Asn	Arg	Thr	Leu	Asn	Tyr
			20					25					30		

Cys	Lys	Met	Lys	Cys	Lys	Val
		35				

<210> 2524

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2524

Leu	Leu	Arg	Leu	Trp	Lys	Arg	Leu	Phe	Arg	Lys	Ile	Lys	Cys	Ala	Cys
1				5				10						15	

Ala	His	Lys	Glu
			20

<210> 2525

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2525

Leu Ile Lys Phe Trp His Arg Tyr Leu Arg Arg Ile Pro Pro Lys Leu
1 5 10 15

Ser Ala Lys Pro Arg Ile Ala Arg Leu
20 25

<210> 2526

<211> 100

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2526

Lys Leu Lys Leu Met Lys Lys Leu Phe Arg Lys Phe Arg His Ser Leu
1 5 10 15

Ala Arg Trp Ala Gly Ala Lys Thr Trp Leu Lys Tyr Lys Arg Ala Trp
20 25 30

Arg Met Leu Leu Lys Lys Leu Met Leu Arg Arg Pro Asn Trp Asp Arg
35 40 45

Lys Pro Arg Val Lys Arg Pro Phe Ile Cys Leu Arg Asn Lys Trp Ala
50 55 60

Asp Lys Leu Arg Lys Pro Gln His Gly Pro Pro Leu Arg Gln Lys Leu
65 70 75 80

Asp Pro Arg Leu Ala Phe Ala Leu Leu Pro His Gly Tyr Arg Trp Gly
85 90 95

Ala Cys Cys Ser
100

<210> 2527

<211> 63

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2527

Lys Met Arg Tyr Leu Thr Lys Tyr Phe Arg Arg Phe Arg Arg Tyr Gly
 1 5 10 15

Leu Ile Leu Ala Ala Arg Pro Ala Lys Leu Leu Leu Leu Leu Arg Ala
 20 25 30

Asp Lys Leu Ile Tyr Arg Leu Pro Ser Leu Asn Lys Lys Leu Asn Gln
 35 40 45

Lys Arg Lys Phe Ile Met Leu Tyr Arg Cys Asn Arg Gly Lys Ala
 50 55 60

<210> 2528

<211> 95

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2528

Tyr Leu Arg Leu Ile Cys Lys Leu Trp Lys Lys Trp Lys Ser Tyr Trp
 1 5 10 15

Gly Leu Pro Trp Ala Gly Pro Lys Leu Ala Tyr Phe Ala Ser His Asp
 20 25 30

Glu Ala Arg Asn Lys Ser Leu Ser Ala Lys Val Arg Phe Ala Val Ala
 35 40 45

Arg Arg Asn His Val Glu Glu Ala Lys Leu Leu Leu Arg Tyr His Asn
 50 55 60

Ser Ala Asp Phe Ala Lys Leu Trp Lys Lys Ser Val Leu Lys Ala Leu
 65 70 75 80

Leu Asp Lys Ala Arg Asn Ala Arg Arg Ala Lys Leu Trp Ala Lys
 85 90 95

<210> 2529

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2529

Phe	Leu	Lys	Leu	Trp	Lys	Lys	Phe	Ile	Lys	Leu	Phe	Lys	Lys	Arg	Thr
1				5					10					15	

Cys	Arg	Gly	Lys	Arg	Thr	Leu	Leu	Ser	Ile	Asp	Arg	Phe	Arg	Ala	Asn
			20					25					30		

Arg	Asn	His	Leu	Ala	Glu	Asn	Ala
	35					40	

<210> 2530

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2530

Leu	Leu	Lys	Leu	Met	Arg	Arg	Ile	Ile	Lys	Lys	Leu	Arg	His	Lys	Tyr
1				5					10					15	

Arg	Ile	Lys	Ala	Lys	Tyr	Ala	Tyr	Leu	Asn	Phe	Trp	Lys	Gln	Leu	Gln
			20					25					30		

Cys Ala

<210> 2531

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2531

Leu	Phe	Lys	Phe	Leu	Ser	Arg	Tyr	Met	Arg	Lys	Phe	Lys	Arg	Val	Ala
1				5					10					15	

Leu	Ala	Arg	Arg	Gln	Trp	His	Cys	Ala
			20				25	

<210> 2532
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2532

Arg Leu Lys Phe Leu Gln Lys Phe Phe Arg Lys Leu Asn Gln Thr Lys
 1 5 10 15

Arg Ala Met Met Ala Leu Arg His Cys
 20 25

<210> 2533
 <211> 86
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2533

Phe Met Arg Leu Trp Arg Lys Leu Phe Lys Arg Phe Arg Pro Pro Arg
 1 5 10 15

Ala Ile Pro Arg Val Ala Lys Lys Leu Gly Ala Leu Arg Arg Lys Arg
 20 25 30

Val Ala His Ala Met Phe Glu Gln Gln Leu Ala Lys Arg Tyr Leu Leu
 35 40 45

Arg Arg Leu Lys Trp Gln Phe Met Tyr Lys Ala Ile Val Ala Arg Glu
 50 55 60

His Ala Ala Lys Ala Met Leu Gln Glu Arg Thr Ala Trp Leu Ser Leu
 65 70 75 80

Gln Ala Arg Thr Tyr Lys
 85

<210> 2534
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2534

Phe	Met	Arg	Phe	Leu	Arg	Lys	Phe	Leu	Lys	Lys	Phe	Cys	Ser	Ala	Ala
1				5					10					15	

Asp	Pro	Pro	Lys	Arg	Phe	Val	Arg	Val	Leu	Ala	Ser	Arg	Ala	Ala	Lys
			20					25					30		

Lys	Ile	Ala	Trp
			35

<210> 2535

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2535

Ile	Tyr	Arg	Leu	Leu	Arg	Arg	Leu	Phe	Lys	Leu	Ile	Lys	Asn	Trp	Lys
1				5					10					15	

Leu	Ala	Arg	Tyr	Leu
				20

<210> 2536

<211> 44

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2536

Arg	Met	Arg	Ile	Trp	Arg	Arg	Leu	Leu	Arg	Arg	Leu	His	Lys	Gln	Met
1				5					10					15	

Leu	Pro	Lys	Val	Lys	Arg	Ala	Ala	Ala	Tyr	Met	His	Leu	His	Ser	Arg
			20					25					30		

Leu	Leu	Gln	Ala	Asp	Cys	Arg	Thr	Phe	Ala	Trp	Arg
			35								40

<210> 2537

<211> 75
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2537

Arg Trp Lys Trp Phe Arg Lys Leu Met Arg Lys Leu Arg Arg Leu Tyr
 1 5 10 15

Trp Lys Cys Val Ala Arg Ala Ser Ala Ala Ala Ala Arg Leu Arg Arg
 20 25 30

Val Gly Leu Phe Lys Val Leu Leu Val Ala Lys Lys Arg Leu Pro Lys
 35 40 45

Phe Gly Arg Ser Asp Leu Ala Trp Leu Lys Gln Lys Asn Leu Leu Leu
 50 55 60

Gln Gln Asn Leu Leu Arg Gly Ser Pro Ala Met
 65 70 75

<210> 2538
 <211> 41
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2538

Phe Trp Lys Leu Leu His Lys Phe Leu Arg Trp Leu Arg Thr Asp Leu
 1 5 10 15

Gly Phe Lys Leu Asn Lys Lys Ala Leu Arg Ser Leu Glu Lys Asp Arg
 20 25 30

Trp Arg Leu Asn Trp Arg Ala Lys Tyr
 35 40

<210> 2539
 <211> 60
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2539

Arg	Tyr	Lys	Leu	Met	Asn	Arg	Phe	Leu	Lys	Lys	Phe	Ser	Arg	Gly	Lys
1				5					10					15	

Tyr	Leu	Arg	Arg	Val	Arg	Thr	Arg	Lys	Pro	Gly	Lys	His	Met	Ala	Ala
			20					25					30		

Met	Ala	Ala	Ala	Trp	Leu	Arg	Leu	Lys	Met	His	Arg	Asn	Ala	Ala	Tyr
		35					40					45			

Lys	Leu	Phe	Ala	Leu	Pro	Arg	Ala	Asp	Asp	Lys	Asp
50						55					60

<210> 2540

<211> 74

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2540

Lys	Met	Arg	Leu	Phe	Lys	Arg	Trp	Phe	Lys	Leu	Ile	Arg	Lys	Ser	Pro
1				5					10					15	

Phe	Tyr	Lys	Lys	Glu	Gln	Phe	Met	Leu	Lys	Lys	Val	Lys	Leu	Leu	Tyr
			20					25					30		

Arg	Phe	Met	Ala	Leu	Arg	Leu	Lys	Ile	Lys	Leu	Leu	Arg	Arg	Arg	Met
		35					40					45			

Lys	Leu	Ala	Glu	Asp	Glu	Ile	Asn	Arg	Ala	Ala	Ala	Thr	Pro	Lys	Arg
50						55					60				

Gln	Ala	Thr	Ala	Lys	Leu	Glu	Arg	Ala	Gln
65					70				

<210> 2541

<211> 62

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2541

Arg Met Lys Tyr Leu Lys Lys Phe Phe Arg Leu Met Arg Cys Ala Ser
 1 5 10 15

Tyr His Leu Arg Pro Tyr Lys Cys Arg Ala Lys Arg Gly Ile Lys Gln
 20 25 30

Ser Arg Tyr Ala Ala Arg Tyr Lys Phe Leu Ala Lys Arg Arg Leu Ala
 35 40 45

Arg Ile Leu Lys Gly Cys Pro Leu Leu Met Ile Ala Leu Asp
 50 55 60

<210> 2542

<211> 53

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2542

Phe Leu Lys Trp Leu Thr Arg Leu Phe Lys Arg Tyr Arg Arg Glu Phe
 1 5 10 15

Leu Cys Phe Ala Leu Leu Cys Asn Lys Leu Arg Tyr Tyr Lys Arg Ala
 20 25 30

Ala Thr Ala Lys Cys Pro Lys Pro Lys Ser Ala Lys Tyr Arg Glu Cys
 35 40 45

Gly Lys Ile Ala Leu
 50

<210> 2543

<211> 57

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2543

Lys Leu Lys Ile Tyr Lys Arg Met Leu Arg Lys Phe Lys Arg Leu Thr
 1 5 10 15

Gly Ser Arg Pro His Asn Ala Leu His Gly Ala Ala Ala Tyr Leu Lys

20

25

30

Lys Lys Gly Ser Ile Glu Asn Ala Leu Arg Ala Arg Leu Val Arg Cys
 35 40 45

Pro Ala Trp Asp Arg Lys Asp Glu Lys
 50 55

<210> 2544

<211> 44

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2544

Ile Phe Arg Ile Leu Arg Lys Trp Leu Arg Arg Phe Lys Asn Arg Glu
 1 5 10 15

Ala Ala Ala Cys Ser Leu Arg Phe Ser Cys Glu Leu Arg Lys Leu Glu
 20 25 30

Leu Leu Ala Lys Lys Lys Arg Ile Met Ala Ile Lys
 35 40

<210> 2545

<211> 43

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2545

Phe Leu Lys Leu Phe Asn Lys Trp Tyr Lys Leu Leu Ser Ser Arg Thr
 1 5 10 15

Ala Met Arg Arg Leu Leu Leu Gln Met Leu Ala Ala Thr Ala Leu Arg
 20 25 30

Arg Gly Gln Cys Thr Pro Lys Arg Ala Asp His
 35 40

<210> 2546

<211> 41

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2546

Lys Leu Arg Met Leu Lys Arg Trp Leu Lys Arg Tyr Ser Gln Met Val
1 5 10 15

Tyr Ala Tyr Tyr Met Lys Cys Ala Ile Lys Ala Ser Pro Leu Thr Arg
20 25 30

Ala Arg Lys Ala Lys Asp Ala Ala Ala
35 40

<210> 2547

<211> 85

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2547

Leu Ile Lys Met Phe Lys Arg Leu Phe Arg Arg Leu Arg Lys Leu Asp
1 5 10 15

Trp Ala Lys Asn Glu Leu Leu Ala Ile Glu Pro Glu Cys Asn Cys Pro
20 25 30

Pro Leu Ala His Lys Leu Phe Leu Leu Gly Thr Arg Leu His Lys Ala
35 40 45

Ala Lys Tyr Val His Lys Trp Ala Cys Ala Asp Val Val Pro Glu Cys
50 55 60

Arg Ala Arg Asn Ala Ala Val Arg Ala Leu Lys Arg His Leu Leu Lys
65 70 75 80

Lys Met Lys Tyr Leu
85

<210> 2548

<211> 52

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2548

Arg Tyr Arg Leu Tyr Lys Lys Ile Leu Arg Arg Met Lys Arg Arg Ala
 1 5 10 15

Leu Lys Tyr Asn Tyr Arg Ser Lys Tyr Trp Arg Ala Met Arg Ala Ala
 20 25 30

Cys Trp Leu Ala Ser Gly Ala Val Ala Met Asp Tyr Phe Ala Arg Asp
 35 40 45

Lys Arg Leu Ala
 50

<210> 2549

<211> 65

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2549

Ile Leu Arg Phe Trp Lys Arg Met Met Lys Met Phe Lys Pro Trp Lys
 1 5 10 15

Ala Ile Cys Phe Ser Leu Lys Ile Ala Met Tyr Arg Lys Cys Val Ala
 20 25 30

Ala Tyr Leu Arg Phe Leu Thr Arg Arg Arg His Lys His Phe Leu Ile
 35 40 45

Arg Leu Lys Ala Ala Met Lys Lys Ala Leu Lys Leu Lys Thr Thr Ala
 50 55 60

Ala
 65

<210> 2550

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2550

Lys Leu Arg Leu Leu Cys Arg Ile Leu Lys Leu Trp Arg Arg Leu Glu
1 5 10 15

Val Arg Arg Glu Ile Gln Tyr Ala Ala Ile His Tyr
20 25

<210> 2551

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2551

Lys Tyr Arg Phe Leu Thr Arg Phe Ile Arg Leu Trp Arg Lys Ala Leu
1 5 10 15

Leu Ala Glu Gly Lys Leu His Arg Arg Glu Trp Trp
20 25

<210> 2552

<211> 44

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2552

Arg Tyr Arg Phe Tyr Lys Arg Leu Leu Arg Leu Ile Arg Pro Pro Ala
1 5 10 15

Ala Tyr Arg Leu Ile Leu Val Thr Leu Ala Lys Arg Ala Ala Ala Lys
20 25 30

Ser His Ala Ala Arg Arg Ser Asp Ile Gln Lys Met
35 40

<210> 2553

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2553

Ile Leu Arg Leu Leu Asn Arg Tyr Tyr Arg Met Leu Ser Arg Ala Arg
1 5 10 15

Ala Ala Gly Gly
20

<210> 2554

<211> 55

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2554

Arg Phe Lys Tyr Phe Arg Arg Tyr Leu Lys Trp Phe Arg Gln Leu Asp
1 5 10 15

Arg Phe Val Cys Met His Val Lys Arg Arg Lys Lys Arg Glu Leu Lys
20 25 30

Asn Arg Arg Leu Leu Leu Val Tyr Ser Ile Tyr Ala Leu Val Leu Trp
35 40 45

Phe Ala Ala Arg Ala Leu Leu
50 55

<210> 2555

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2555

Lys Leu Arg Leu Leu Thr Lys Leu Phe Lys Lys Met Arg Arg Asn Leu
1 5 10 15

Gly Gly Ala Leu Met Arg Lys Ser Arg Trp Ser Leu Asn Leu Glu Ala
20 25 30

<210> 2556

<211> 96

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2556

Leu Leu Arg Ile Trp Gln Lys Leu Leu Arg Lys Ile Arg Arg Lys His
1 5 10 15

Gln Lys Leu Ala His Trp Leu Lys Arg Lys Lys Leu Lys Lys Gly Leu
20 25 30

Thr Arg Gln Ala Val Thr Leu Tyr Cys Met Lys Arg Lys Ala Ala Met
35 40 45

Leu Leu Leu Asn Trp Asn Pro Leu Lys Asp Thr Ala Leu Leu Leu Lys
50 55 60

Arg Leu Ala Leu Arg Gly Leu Arg Gln Ile Arg Asn Ser Lys Pro Thr
65 70 75 80

Trp Ile Arg Glu Arg Gly Trp Arg Lys Pro Asp Arg Ser Trp Thr Cys
85 90 95

<210> 2557

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2557

Ile Phe Arg Leu Trp Lys Lys Leu Met Lys Lys Leu Lys Ser Arg Pro
1 5 10 15

Ala Leu Met Phe
20

<210> 2558

<211> 69

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2558

Lys Leu Lys Leu Phe Arg Lys Leu Ile Lys Lys Leu Arg Arg Asn Ala
 1 5 10 15

Leu Ala Arg Ala Leu Lys Arg Gln Ala His Val Lys Trp Met Gln Trp
 20 25 30

Gln Ile Leu Glu Leu Ala Phe Lys Arg Ser Leu Cys Asp Lys Glu Leu
 35 40 45

Gln Arg Leu Ala Arg Leu Ala Ala Lys Ile Lys Ala Trp Leu Ala Arg
 50 55 60

Asn Leu Arg Gln Asp
 65

<210> 2559
 <211> 31
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2559

Trp Trp Lys Leu Leu Arg Arg Leu Leu Arg Arg Leu Gln Arg Val Arg
 1 5 10 15

Leu Arg Gly Leu Ser Lys Lys Lys Phe Glu Ala Leu Asn His Thr
 20 25 30

<210> 2560
 <211> 31
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2560

Lys Tyr Arg Met Leu Lys Lys Trp Met Arg Arg Leu Lys Arg Ala Leu
 1 5 10 15

Ile Thr Lys Pro Leu Ala Gly Lys Gln Ala Ala Arg Phe Arg Ala
 20 25 30

<210> 2561

<211> 39
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2561

Leu Leu Lys Leu Phe Cys Arg Trp Leu Lys Phe Tyr Pro Asn His Arg
 1 5 10 15

Phe Gly Lys His Ile Val Tyr Phe Lys Leu Arg Ala Ala Leu Arg Ala
 20 25 30

Arg Arg Arg Pro Leu Tyr Ala
 35

<210> 2562
 <211> 49
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2562

Arg Phe Arg Ile Leu Lys Lys Phe Leu Lys Lys Met Lys Lys Trp Trp
 1 5 10 15

Ala Leu Ala Lys Leu Lys Lys Arg Asn Ala Pro Val Ala Asn His His
 20 25 30

Ala Leu Ala Gln Phe Glu Lys His Met Lys Phe Ala Tyr Leu Gly Thr
 35 40 45

Gly

<210> 2563
 <211> 46
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2563

Lys Trp Lys Met Leu Lys Lys Trp Leu Arg Arg Tyr Lys Ser Leu Glu

1 5 10 15

Ala Arg Arg Ala Thr Asp Arg Met Ile Ile Ala Met Arg Ala Ala Ala
20 25 30

Leu Asn Ala Phe Lys Leu Asn Tyr Lys Ala Ala Phe Arg Ala
35 40 45

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<210> 2564
<211> 32
<212> PRT
<213> Artificial Sequence
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<220>
<223> Computer-generated peptide variant

<400> 2564

Arg Trp Arg Leu Leu Arg Lys Met Trp Arg Lys Phe Gln Thr Met Ala
1 5 10 15

Glu Arg Arg Leu Glu Gly Val Lys Leu Ala Ala Ala Lys Val Gly Arg
20 25 30

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<210> 2565
<211> 33
<212> PRT
<213> Artificial Sequence
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<220>
<223> Computer-generated peptide variant

<400> 2565

Arg Met Lys Leu Leu Lys Lys Leu Leu Lys Phe Met Cys Arg Arg Leu
1 5 10 15

Arg Ala Leu Leu Met Glu Gly Arg Arg Tyr Glu Ser Cys Lys Asp Leu
20 25 30

Phe

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<210> 2566
<211> 43
<212> PRT
<213> Artificial Sequence
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<220>
<223> Computer-generated peptide variant

<400> 2566

Lys Leu Arg Tyr Leu Ser Arg Leu Leu Arg Leu Leu Arg Arg Arg Asn
1 5 10 15

Leu Val Glu Ala Phe Gln His Leu Arg Glu Arg Gly Leu Ala Val Trp
20 25 30

Glu Leu Arg Trp Val Val Lys Trp Arg Arg Gly
35 40

<210> 2567

<211> 96

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2567

Leu Tyr Lys Leu Leu Lys Arg Leu Leu Arg Lys Leu Lys Arg Arg Leu
1 5 10 15

Leu Leu Tyr Arg Tyr Met Asp Ser Ala Leu Phe Arg His Lys Arg Ser
20 25 30

Leu Gly Ile Arg Leu Ala Ala Ala Cys Arg Lys Met Gln Asn Leu Arg
35 40 45

Lys Trp Gln Lys Asp Lys Lys Lys Arg Gly Val Asn Leu Ala Lys Arg
50 55 60

Trp Pro Pro Ala Ser Leu Ala Thr Lys Ser Cys Ala Gln Leu Arg Ala
65 70 75 80

Lys Leu Tyr Pro Ala Gly Arg Arg Leu Gln Met Ser Thr Met Gly Lys
85 90 95

<210> 2568

<211> 69

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2568

Lys Phe Arg Met Met Arg Lys Phe Ile Arg Arg Phe Arg Pro Asn Ala
 1 5 10 15

Ala Leu Lys Lys Arg Ile Ala Glu Ile Ala Val Leu Lys Tyr Ala Arg
 20 25 30

Ala Glu Met Leu Leu Ala Ala Leu Glu Ser Pro Ala Ala Lys Arg Leu
 35 40 45

Glu Ala Arg Lys Tyr Arg Leu Lys Lys Ala Ser Leu Trp Lys Val Leu
 50 55 60

Arg Lys Arg Asn Asn
 65

<210> 2569
 <211> 41
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2569

Arg Leu Arg Trp Ile Thr Lys Leu Phe Arg Arg Leu Gln Cys Arg Leu
 1 5 10 15

Ile Ala Arg Ala Leu Thr Leu Pro Asn Ala Asp His Leu Gly Lys Gly
 20 25 30

Lys Cys Val Arg Arg Ala Pro Arg Ala
 35 40

<210> 2570
 <211> 72
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2570

Leu Ile Arg Met Ile Lys Arg Met Tyr Lys Leu Tyr Pro Pro Pro Val
 1 5 10 15

Leu Lys Arg Trp Pro Arg Pro Ala Asn Ile Lys Arg Leu Leu Cys Tyr

20

25

30

Leu Asn His Leu Arg Asn Lys Arg Arg Gly Ser Leu Arg Arg Gly Leu
 35 40 45

Lys Arg Ala Ser Lys Ala Thr Leu His Val Val Met Ala Asn Arg Leu
 50 55 60

Arg Ala Leu Leu Leu Arg Tyr Ile
 65 70

<210> 2571
 <211> 38
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2571

Leu Trp Lys Ile Leu Lys Lys Ile Leu Arg Lys Leu Arg Lys Leu Gly
 1 5 10 15

Ser Arg Lys Gln Leu Leu His Ala Pro Arg Ala Lys His Arg Leu Ser
 20 25 30

Val Gly Ala Lys Lys Ile
 35

<210> 2572
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2572

Tyr Tyr Lys Phe Tyr Gln Lys Leu Leu Lys Arg Leu Arg Pro Phe Glu
 1 5 10 15

Leu Arg Ala Arg Ala
 20

<210> 2573
 <211> 28
 <212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2573

Phe Leu Lys Phe Leu Arg Lys Ile Met Arg Trp Leu Pro His Pro Arg
1 5 10 15

Leu Arg Lys Ala Arg His Leu Ile Ala Tyr Lys Thr
20 25

<210> 2574

<211> 43

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2574

Arg Leu Arg Met Leu His Lys Phe Tyr Arg Lys Leu His Arg Leu Asn
1 5 10 15

Lys Glu Met Leu Arg Ala His Pro Glu Val Leu Tyr Thr Gln Ala Leu
20 25 30

Ala Lys Lys Glu Ala Arg Gln Ala Thr Lys Val
35 40

<210> 2575

<211> 71

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2575

Phe Ile Lys Phe Leu Arg Arg Met Phe Lys Trp Leu Arg Lys Arg Leu
1 5 10 15

Lys Ala Pro Lys Gln Arg Arg Gly His Cys Pro Trp Arg Lys Met Arg
20 25 30

Asp Asp Met Leu Pro Leu Ile Met Arg Leu Glu Leu Arg Lys Lys His
35 40 45

Gln Ala Ala Ala Arg Ala Cys Asp Val Leu Leu Ala Lys Lys Met Gly
 50 55 60

Pro Ala Arg Glu Trp Lys Ala
 65 70

<210> 2576

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2576

Arg Met Arg Phe Leu His Lys Phe Leu Lys Lys Ile Arg Lys Gln Gly
 1 5 10 15

Cys Leu Asn Trp Ala Ala Tyr Met Arg Ala Pro Arg Leu Met Trp Lys
 20 25 30

Ala Leu

<210> 2577

<211> 60

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2577

Lys Leu Arg Tyr Phe Pro Arg Phe Leu Arg Lys Trp Lys Ser Phe Leu
 1 5 10 15

Gln Leu Ser Ile Ala Gly Leu Phe Arg Asn Met Lys Ala Phe Glu Leu
 20 25 30

Arg Leu Lys Ala Pro Lys Arg Trp Ala Ser Trp Lys Arg Gly Lys Pro
 35 40 45

Arg Leu Asn Leu Ile Asp Ser Arg Arg Lys Pro Leu
 50 55 60

<210> 2578

<211> 51
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2578

Tyr Met Arg Leu Met Ser Lys Ile Met Arg Lys Tyr Lys Arg Cys Leu
 1 5 10 15

Trp Trp Ile Arg Ile Arg Leu Trp Arg Lys Arg Ala Asp Leu Asp Leu
 20 25 30

Arg Ala Ala Ala Arg Leu Pro Gly Ser Cys Ala Lys Leu Lys Cys Lys
 35 40 45

Arg Arg Leu
 50

<210> 2579
 <211> 68
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2579

Trp Phe Arg Trp Leu Thr Arg Met Phe Lys Met Phe Gln Lys Leu Gln
 1 5 10 15

Ser Cys Ala Trp Asp Arg Leu Leu Leu Gln Arg Arg Lys Arg Gly Arg
 20 25 30

Lys Phe Lys Pro Met Glu Ala Leu Arg Lys Lys Pro Leu Gly Leu Leu
 35 40 45

Ala Ala Arg Arg Lys Ser Lys Asp Ala Thr Ser Leu Leu Ser Leu Lys
 50 55 60

Ala Ile Pro Leu
 65

<210> 2580
 <211> 34
 <212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2580

Ile	Trp	Lys	Trp	Leu	Cys	Lys	Leu	Leu	Lys	Leu	Phe	Arg	Lys	Glu	Lys
1				5					10					15	

Arg	Arg	Cys	Arg	Ala	Ala	His	Met	Arg	Met	Ala	Tyr	Ala	Leu	Cys	His
			20					25					30		

Trp Val

<210> 2581

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2581

Arg	Leu	Lys	Tyr	Phe	Lys	Lys	Leu	Leu	Lys	Arg	Leu	Cys	Lys	Pro	Ala
1				5					10					15	

Cys	Glu	Asp	Pro	Ser	Ala	Ala	Ala	Ile	Ala	Ile	Cys
			20					25			

<210> 2582

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2582

Phe	Phe	Lys	Trp	Met	Arg	Arg	Trp	Leu	Arg	Met	Leu	Lys	Ser	Ala	Ala
1				5					10					15	

Leu	Lys	Leu	Arg	Asp	Arg	Met	Cys	Arg	Met	Leu
			20					25		

<210> 2583

<211> 41

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2583

Met Phe Arg Leu Phe Thr Lys Leu Ile Arg Met Leu Lys Lys Leu Ala
1 5 10 15

Gln Asp Asn Asp Arg Pro Leu Arg Arg Met Lys Met Ala Leu Ala Val
20 25 30

Lys Trp Ile Arg Leu Gly Ala Leu Arg
35 40

<210> 2584

<211> 83

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2584

Arg Leu Lys Phe Phe Pro Lys Tyr Leu Lys Arg Tyr Arg Asn Leu Lys
1 5 10 15

Arg Ala Thr Pro Lys His Arg Lys Ile Gly Leu Leu Pro Lys Val Glu
20 25 30

Ile Ser His Ala Arg Leu Leu Phe Leu Met Arg Lys Phe Arg Leu Leu
35 40 45

Leu Ala Ala Arg Pro Ile Ala Ser Asn His Asn Lys Arg Glu Ala Val
50 55 60

Lys Asn Phe Pro Arg Leu Gln Leu Ile Lys Ala Gly Ala Arg Ala Trp
65 70 75 80

Met Leu Val

<210> 2585

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2585

Trp	Tyr	Lys	Leu	Tyr	Ser	Lys	Phe	Leu	Lys	Leu	Leu	Arg	Lys	Ala	Leu
1				5					10					15	

Phe	Arg	Ala	Glu	Leu
			20	

<210> 2586

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2586

Ile	Phe	Lys	Leu	Leu	Asn	Lys	Trp	Phe	Lys	Leu	Leu	Arg	Arg	Trp	Asp
1			5					10						15	

Leu	Lys	Asp	Pro	Ala	Leu	Arg	Arg	Pro	Lys	Val	Phe	Lys	Gln
			20					25					30

<210> 2587

<211> 42

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2587

Leu	Tyr	Arg	Phe	Leu	Arg	Lys	Phe	Ile	Arg	Arg	Met	Lys	Lys	Thr	Ala
1				5				10						15	

Phe	Leu	Ala	Met	Trp	Met	Leu	Leu	Asp	Arg	Asp	Ala	Arg	Asn	Arg	Leu
			20					25					30		

Ile	Arg	Leu	Tyr	Gly	Arg	Lys	Arg	Trp	Gln
		35					40		

<210> 2588

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2588

Tyr	Leu	Arg	Trp	Trp	Arg	Lys	Leu	Leu	Lys	Ile	Leu	Arg	Thr	Leu	Cys
1				5					10					15	

Ala	Phe	Ile	Lys	Arg	Ala	Asn	Lys	Glu
			20					25

<210> 2589

<211> 85

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2589

Leu	Leu	Arg	Phe	Tyr	Ser	Lys	Leu	Phe	Lys	Lys	Leu	Arg	Arg	Met	His
1				5					10					15	

Ile	Glu	His	Leu	Arg	Glu	Ala	Leu	Thr	Lys	Cys	Tyr	Thr	Lys	Arg	Lys
			20					25					30		

Leu	Ala	Leu	Lys	Leu	Lys	Arg	Cys	Lys	Ala	Lys	Phe	Tyr	Tyr	Arg	Ala
		35					40					45			

Ser	Ser	Tyr	Glu	Ser	Ala	Val	Ala	Lys	Ala	Lys	Ser	Glu	Lys	Lys	Ala
	50					55					60				

Met	Pro	Pro	Gly	Ala	Arg	Lys	Met	Gly	Lys	Lys	Tyr	Trp	Arg	Asp	Ile
65					70					75					80

Arg	Lys	Ala	Asn	Ala
				85

<210> 2590

<211> 39

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2590

Phe	Leu	Lys	Leu	Leu	Cys	Arg	Trp	Phe	Arg	Arg	Leu	Arg	Lys	Asp	Ala
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

1 5 10 15

Gly Met Leu Ala Gly Arg Ala Ile Trp Gln Lys Ala Arg Ile Ala Lys
 20 25 30

Gln Val Leu Ser Asn Ala Val
 35

<210> 2591
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2591

Leu Phe Lys Leu Leu Asn Lys Leu Ile Arg Lys Phe Arg Arg His Leu
 1 5 10 15

Arg Thr Asn Leu
 20

<210> 2592
 <211> 77
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2592

Lys Trp Arg Leu Tyr Ser Lys Ile Met Lys Arg Leu Lys Pro Leu Arg
 1 5 10 15

Ser Arg Tyr His Lys Pro Leu Trp Leu Lys Arg Ala Gln Ala Ala Ser
 20 25 30

Cys Asn Ala Ser Ala Gly Leu Ala Tyr Gly Ala Ala Cys Pro Ser Arg
 35 40 45

Glu Pro Lys Ala Ile Glu Lys Arg Ala Leu Ala Leu Gly Arg Val Arg
 50 55 60

Leu Ser Asp Lys His Arg Ala Asp Leu Ala Val Lys Pro
 65 70 75

<210> 2593
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2593

Arg Met Arg Leu Ile Arg Arg Leu Met Arg Arg Trp Lys His Phe Ser
 1 5 10 15

Lys Ala Gly Ala Ala Leu Ile
 20

<210> 2594
 <211> 26
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2594

Tyr Leu Lys Met Phe His Arg Phe Leu Arg Arg Met Lys Lys Asp Ser
 1 5 10 15

Arg Ser Leu Phe Leu Leu Leu Arg Ala Met
 20 25

<210> 2595
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2595

Leu Phe Arg Met Leu Lys Arg Ile Trp Arg Arg Ile Arg Thr Ala Phe
 1 5 10 15

Ala His Val Lys Arg His Ala Arg Ala Gly Leu Ala Trp Ser
 20 25 30

<210> 2596
 <211> 30
 <212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2596

Lys Leu Arg Trp Phe Lys Arg Trp Tyr Lys Ile Leu Lys Arg Leu Ala
1 5 10 15

Ala Ala Pro Lys Ser Ala Arg Leu Leu Arg Asp Gly Cys Gly
20 25 30

<210> 2597

<211> 54

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2597

Arg Tyr Arg Leu Ile Asn Arg Phe Phe Arg Leu Met Lys Arg Ala Arg
1 5 10 15

Gln Leu Leu Met Lys Arg Arg Ala Val Pro Leu Ala Met Leu Ile Arg
20 25 30

Glu Leu Cys His Leu Val Asn Leu Lys Arg Thr Thr Ala Ala Gln Lys
35 40 45

Asp Asp Leu Ser Ser Ala
50

<210> 2598

<211> 70

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2598

Tyr Ile Arg Leu Leu Arg Arg Leu Leu Lys Phe Leu Arg Lys Glu Leu
1 5 10 15

Ala Ala Phe Asn Tyr Ala His Ile Arg Ala Ala Leu Met Gly Asn Asn
20 25 30

Arg Trp Ala Ala Leu Ala Gly Ile Tyr Val Ala Thr Pro Leu Leu Arg
 35 40 45

Tyr Ala Cys His Arg Lys Leu Pro Cys Lys Trp Lys Arg Lys Ala His
 50 55 60

Val Arg Pro Lys Ile Gln
 65 70

<210> 2599
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2599

Arg Phe Arg Leu Leu Lys Lys Phe Met Arg Ile Leu Arg Arg Phe Pro
 1 5 10 15

Gly Arg Arg Arg Pro Leu Ala Ala Ser Pro Lys Leu Leu Val Ile Lys
 20 25 30

Leu Thr

<210> 2600
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2600

Lys Met Arg Trp Phe Thr Arg Leu Ile Lys Phe Leu Lys Lys Met Leu
 1 5 10 15

Gln Leu Ser Ala
 20

<210> 2601
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2601

Arg	Phe	Arg	Trp	Leu	Arg	Lys	Leu	Leu	Lys	Phe	Leu	Arg	Cys	Glu	Met
1				5					10					15	

Ala	Thr	Leu	His	Leu
				20

<210> 2602

<211> 48

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2602

Arg	Ile	Arg	Phe	Leu	Lys	Arg	Phe	Leu	Lys	Arg	Phe	Arg	Arg	Leu	Ala
1				5					10					15	

Leu	Ser	Phe	Pro	Leu	Ala	Trp	Trp	Glu	Cys	Ala	Lys	Tyr	Ala	Arg	Glu
			20					25					30		

Arg	Leu	Asn	Ala	Leu	Ala	Phe	Leu	Lys	Tyr	Leu	Trp	Gly	Gly	Ala	Arg
		35					40					45			

<210> 2603

<211> 47

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2603

Leu	Leu	Arg	Ile	Ile	Arg	Lys	Leu	Tyr	Lys	Arg	Phe	Lys	Arg	Thr	Arg
1				5					10					15	

Asp	Ala	Ser	Cys	Phe	Phe	Cys	Trp	Ala	Gln	Tyr	Ser	Arg	Leu	Asp	Ala
			20					25					30		

Lys	Gly	Lys	Ala	Ala	Ala	Gln	Leu	Lys	Lys	Met	Thr	Gly	Arg	Ala
		35					40					45		

<210> 2604

<211> 48
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2604

Leu Phe Arg Ile Met Ser Lys Leu Leu Arg Arg Trp Thr Arg Ala Leu
 1 5 10 15

Glu Ala Glu Val His His Lys Lys Ala Trp Ala Arg Leu Arg Val Ala
 20 25 30

Leu Lys Leu Leu Leu Lys Lys Val Arg Arg Gln Arg Ser Gln Cys Thr
 35 40 45

<210> 2605
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2605

Phe Leu Lys Phe Met Lys Arg Leu Leu Arg Lys Phe Lys Arg Val Ala
 1 5 10 15

Thr Lys Leu Trp Gly Lys Asn Ala Lys Leu Asn Ala Val His
 20 25 30

<210> 2606
 <211> 52
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2606

Arg Tyr Arg Leu Tyr His Arg Leu Phe Arg Ile Phe Thr Arg Val Arg
 1 5 10 15

Tyr Arg Lys Met Lys Arg Asp Cys Leu Ser Leu Asn Arg Arg Cys Ala
 20 25 30

Leu Ala Arg Arg Ala Tyr Met Lys Leu Ala Gln Phe Thr Ala Leu Arg

35

40

45

Cys Pro Glu Leu
50

<210> 2607
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 2607

Leu Leu Arg Met Met Arg Lys Phe Ile Arg Met Ile Thr Arg Phe Phe
1 5 10 15

Ala Lys Ala Ala Arg Leu Tyr Ala Ile Lys Leu Asp Ala Lys
20 25 30

<210> 2608
<211> 36
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 2608

Arg Ile Arg Leu Leu Cys Arg Ile Trp Arg Phe Ile Thr Asn Leu Asp
1 5 10 15

Leu Ala Ser Arg Leu Arg Phe Lys Ala Ser Asn Lys Asn Gly Arg Lys
20 25 30

Ala Asp Leu Ala
35

<210> 2609
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 2609

Lys Leu Lys Leu Phe Arg Arg Tyr Leu Arg Leu Leu Thr Asn Val Tyr

1 5 10 15

Lys Gln Tyr Gln Asn Leu Ala Phe Cys Arg Leu
20 25

<210> 2610
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 2610

Leu Leu Lys Leu Leu Ser Arg Ile Met Lys Arg Tyr Pro Lys Glu Lys
1 5 10 15

Arg Leu Arg Arg Lys Leu Leu Leu Lys Lys Ala Cys His Pro Phe Asn
20 25 30

Leu Ser Gly Phe Ala Arg Ile
35

<210> 2611
<211> 69
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 2611

Tyr Phe Lys Leu Phe Lys Lys Leu Leu Lys Arg Tyr Lys His Tyr Leu
1 5 10 15

Arg Thr Thr Ala Trp Arg Leu Gln Tyr Lys Lys Arg Leu Ala Trp Arg
20 25 30

Gln Asp Leu Leu Ser Leu His Ser Tyr Asn Gln Leu Pro Leu Ile Arg
35 40 45

Tyr Arg Lys Phe Ala Asn Ser Leu Cys Trp Lys Ile Leu Arg Asp Ala
50 55 60

Leu Val Leu Lys Lys
65

<210> 2612
 <211> 45
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2612

Arg Phe Arg Phe Leu Lys Arg Met Tyr Lys Lys Leu Pro Lys Val Ala
 1 5 10 15

His Met Leu Asn Met Glu Gln Leu Leu Pro Ala Pro Lys Arg Arg Met
 20 25 30

Asp Arg Arg Ser Val Asn Leu Asn Leu Ala Arg Leu Arg
 35 40 45

<210> 2613
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2613

Phe Leu Arg Leu Trp Ser Arg Leu Phe Arg Arg Phe Ser Arg Arg Leu
 1 5 10 15

Thr Trp Ala Leu Glu
 20

<210> 2614
 <211> 91
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2614

Lys Tyr Arg Leu Tyr Arg Arg Leu Leu Lys Leu Trp Arg Arg Ala Ala
 1 5 10 15

Gly Lys Arg Tyr Thr Arg Cys Arg Thr Ala Cys Gly Trp His Asn Ala
 20 25 30

Arg Ala Ala Ile Pro Leu Leu Arg Glu Val Val Asp Trp Ala Ala Ala
 35 40 45

Lys Lys Lys Trp Ala Lys Val Arg Lys Lys Gly Ala Tyr Tyr Arg Lys
 50 55 60

Pro Asn His Lys Met Lys Leu Ala Asp Lys Tyr Ala Asn Gln Pro His
 65 70 75 80

Phe Arg Leu Ser Lys Arg Tyr Ala Lys Arg Lys
 85 90

<210> 2615

<211> 49

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2615

Arg Leu Lys Trp Ile Ser Arg Tyr Ile Lys Lys Ile Lys Arg Arg Phe
 1 5 10 15

Lys Arg Lys Phe Ala Ala Gln Ile His Trp Arg Met Asn Ala Lys Leu
 20 25 30

Ala Trp Pro Val Lys Ala Leu Leu Asp Ala Glu Ala Ala His Ile Lys
 35 40 45

Leu

<210> 2616

<211> 56

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2616

Leu Leu Lys Leu Ile Arg Lys Leu Phe Lys Arg Tyr Asn Arg Glu Met
 1 5 10 15

Leu Ala Trp Pro Ala Cys Ser Ala Ala Tyr Arg Lys Leu Leu Leu Phe

20

25

30

Ile Lys Val Arg Leu Ala Ser Glu Thr Lys Leu Leu Ile Asp Thr Ile
 35 40 45

Cys Lys Leu Leu Ile Ile Lys Gly
 50 55

<210> 2617

<211> 44

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2617

Lys Met Lys Phe Leu Arg Lys Leu Ile Lys Leu Phe His Arg Leu Leu
 1 5 10 15

Arg Lys Ala Leu Arg Ser Arg Thr Tyr Ala Val Met Arg Met Cys Leu
 20 25 30

Tyr Lys Ala Ala Asn Arg His Leu Val Leu Leu Arg
 35 40

<210> 2618

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2618

Ile Phe Lys Phe Leu Lys Lys Tyr Leu Arg Arg Met Lys Lys Cys Arg
 1 5 10 15

Met Phe Leu Leu Lys Leu Cys Leu Arg Lys Cys Leu Leu Ser Pro Val
 20 25 30

<210> 2619

<211> 98

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2619

Lys Phe Arg Phe Leu Arg Arg Trp Leu Lys Lys Tyr His Pro Arg Ala
 1 5 10 15

Val Gly Arg Ala Arg Lys Ile His Ser Ala Gly Met Cys Ile Lys Phe
 20 25 30

Arg Tyr Lys Lys Lys Ala Ala Lys Ala Ile Glu Gly Glu Ala Arg Lys
 35 40 45

Tyr Leu Ser Arg Val Cys Arg Ala Gly Ala Arg Ala Lys Cys Lys Leu
 50 55 60

Glu Leu Ile Leu His Leu Ala Lys Lys Gln Gln Leu Tyr Ala Leu Ala
 65 70 75 80

Leu Ala Arg Asp Asp Met Arg Ser Lys Thr Thr Phe Glu Thr Val Thr
 85 90 95

Lys Lys

<210> 2620

<211> 90

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2620

Arg Tyr Lys Leu Leu Arg Arg Leu Phe Lys Leu Phe Arg Ser Lys Arg
 1 5 10 15

Arg Leu Lys Ala Leu Tyr Asn Lys Glu Asp Arg Ser Lys Gln Arg Leu
 20 25 30

Ser Ser Ala Val Asn Ala Met Leu His Trp Asn Asn Thr Ser Cys Arg
 35 40 45

Arg Cys Leu Ala Trp Leu Lys Arg Leu His Lys Gly Arg Ala Arg Leu
 50 55 60

Ser Arg Arg Arg Leu Arg Glu Leu Arg Ala Leu Ser Ala Ala Ser Leu

<210>	2621
<211>	24
<212>	PRT
<213>	Artificial Sequence
<220>	
<223>	Computer-generated peptide variant
<400>	2621

Phe Leu Lys Phe Phe Arg Arg Phe Leu Arg Arg Phe Lys Thr Ala Lys
1 5 10 15

Arg Gln Leu Ala His Pro Ile Ala
20

<210>	2622
<211>	58
<212>	PRT
<213>	Artificial Sequence
<220>	
<223>	Computer-generated peptide variant
<400>	2622

Arg Leu Arg Leu Leu Arg Lys Tyr Met Arg Arg Phe Gln Arg Lys Pro
1 5 10 15

Gly Gly Ala Phe Thr Leu Ala Lys Ala Trp His Asn Thr Lys Leu Ile
20 25 30

Glu Val Leu Arg Asn Leu Arg Leu Leu Lys Lys Glu Lys Ala Ala Leu
35 40 45

Gln Thr Gly Asp Arg Thr Leu Leu Glu Ala
50 55

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<210> 2623
<211> 85
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant
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<400> 2623

Arg	Ile	Arg	Leu	Tyr	Thr	Lys	Leu	Met	Arg	Arg	Leu	Lys	Thr	Pro	Ala
1				5					10					15	

Pro	Glu	Lys	Cys	Arg	Ala	Lys	Ser	Arg	Leu	Arg	Leu	Pro	Asp	Ser	Leu
			20					25					30		

Lys	Leu	Arg	Thr	Lys	Gly	Arg	Arg	Val	Gln	Thr	Ala	Ala	Val	Trp	Lys
		35					40					45			

Leu	Ala	Thr	Ile	Arg	Arg	Asn	Ala	Ala	Ala	Ala	Val	Asn	Lys	Tyr	Met
	50					55					60				

Gln	Leu	Leu	Arg	Asp	Gln	Ala	Ala	Lys	Met	Lys	Phe	Ala	Arg	Val	Tyr
65					70					75					80

Arg	Lys	Thr	Ala	Ile
				85

<210> 2624

<211> 54

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2624

Phe	Ile	Arg	Leu	Phe	Pro	Lys	Leu	Leu	Lys	Tyr	Trp	Ser	Lys	Glu	Leu
1				5					10					15	

Ile	Arg	Met	Ala	Ile	Gln	Lys	Gly	Ala	Ala	Ala	Leu	Ser	Leu	Leu	Ala
			20					25					30		

Arg	Gln	Ala	Lys	Val	Gly	Gly	Met	Arg	Gln	Lys	Cys	Leu	Arg	Tyr	Lys
		35					40					45			

Asn	Leu	Lys	Asp	Arg	Ala
	50				

<210> 2625

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2625

Arg Trp Lys Phe Trp Pro Arg Trp Leu Lys Met Met Arg Arg Leu Ala
 1 5 10 15

Trp Gly Lys Ala Leu Ile Cys Leu Lys Ala His Lys Glu
 20 25

<210> 2626

<211> 71

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2626

Phe Phe Arg Phe Leu Thr Arg Met Phe Lys Leu Leu Lys Arg Ala Tyr
 1 5 10 15

His Lys Ile Arg Pro Arg Cys Asn Asn Asp Thr Ala Lys Gln Trp Gln
 20 25 30

Arg Ala Arg Leu Ala Lys Arg Ala Gly Ala Arg Ser Trp Arg Lys Lys
 35 40 45

Arg Tyr Lys Ile Ile Leu Leu Tyr Ala Arg Asn Leu Leu Arg Ala Asp
 50 55 60

Gly Asp Ala Ala Arg Arg Glu
 65 70

<210> 2627

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2627

Leu Trp Lys Leu Phe Thr Lys Ile Leu Lys Arg Met Arg Lys Trp Pro
 1 5 10 15

Leu Asn Ala Lys Lys Ala

20

<210> 2628
 <211> 75
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2628

Leu Phe Arg Tyr Ile Lys Lys Phe Ile Lys Lys Met Lys Arg Leu Ala
 1 5 10 15

Arg Trp Leu Arg Ala Arg Gln Trp Gln Met Ala Ala Leu Asn Lys Ala
 20 25 30

Ala Lys Ala Thr Gly Lys Ala Leu Ala Leu Gln Ala Lys Tyr Leu Arg
 35 40 45

His Ala Lys Arg Ile Leu Asp Leu Met Asp Asp Lys Leu Gln Ala Ser
 50 55 60

Glu Phe Lys Ala Glu Asp Ser Arg Phe His Gly
 65 70 75

<210> 2629
 <211> 48
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2629

Leu Phe Lys Leu Leu Arg Lys Tyr Met Arg Lys Leu Ser Gln Gly Leu
 1 5 10 15

Leu Met Ala Lys Phe Glu Lys Lys His Gln Lys Ala Asn Arg Ala Ala
 20 25 30

His Gly Ala Arg Ser Lys Lys Lys Ala Lys Lys Arg Ala Leu Glu Pro
 35 40 45

<210> 2630
 <211> 64
 <212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2630

Ile Leu Lys Ile Trp Arg Lys Leu Tyr Lys Ile Leu Ser Lys Arg Ser
1 5 10 15

Gln Lys Met Arg Arg Gly Asp Leu Gly Tyr Ala Trp Arg Ala Ala Pro
20 25 30

Arg Leu Ile Leu Gly Gln Lys Asp Arg Ala Gly Ser Leu Ala Leu Pro
35 40 45

Lys Pro Cys Lys Arg Leu Gln Asn Leu Ala Asn Leu Cys Ala Ala Leu
50 55 60

<210> 2631

<211> 43

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2631

Leu Trp Arg Phe Leu Arg Arg Leu Leu Lys Lys Tyr Lys Arg Thr Arg
1 5 10 15

Tyr Pro Trp Trp Ala Ala Lys Cys Leu Gln Arg Gln Ala Arg Met His
20 25 30

Val Asn Ala Ala Gln Phe Lys Met Ala Leu Cys
35 40

<210> 2632

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2632

Arg Ile Arg Leu Tyr Lys Lys Leu Ile Arg Arg Leu Arg His Thr Ala
1 5 10 15

Tyr Trp Ala Glu Ile
20

<210> 2633
<211> 79
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 2633

Leu Leu Arg Tyr Ile Gln Arg Leu Met Lys Arg Phe Lys Arg Phe Gly
1 5 10 15

Val Phe Arg His Gly Phe Ala Ala Phe Trp Cys Leu Ala Leu Leu Asn
20 25 30

Ala Val Leu Gln Ile Asn Lys Lys Pro Glu Leu His Arg Trp Lys Ser
35 40 45

Arg Lys Ala Asp Leu Lys Glu Ala Ala Arg Lys Asn Lys Arg Leu Lys
50 55 60

Lys Ala Ala Asp Val Arg Leu Arg Val Ala Arg Arg Lys Ala Arg
65 70 75

<210> 2634
<211> 45
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 2634

Arg Tyr Lys Leu Leu Lys Arg Phe Leu Arg Met Ile Lys Arg Ala Leu
1 5 10 15

Ala Ala Leu Lys Leu Trp Met Leu Lys Arg Leu Glu Leu Gly Tyr Ala
20 25 30

Ser His Arg Arg Asp Arg Ser Lys Leu Lys Tyr Phe Pro
35 40 45

<210> 2635

<211> 88
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2635

Lys Ile Lys Ile Trp Lys Arg Leu Phe Arg Arg Tyr Gln Lys Lys Phe
 1 5 10 15

Arg Thr Lys Leu Leu Cys Ala Met Ala Ile Leu Ala Lys Met Met Asn
 20 25 30

Lys Ile Arg Lys Phe Asn Met Met Leu Met His Arg Ala Trp Leu Met
 35 40 45

Met Arg Pro Arg Thr Ala Lys Ala Lys Pro Ala Thr Leu Ala Gln Phe
 50 55 60

Leu Lys Gln Gln Gln Val Ala Leu Arg Leu His Ala Asn Ala Phe Ala
 65 70 75 80

Leu Lys His Leu Pro Lys Leu Arg
 85

<210> 2636
 <211> 53
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2636

Leu Leu Lys Leu Tyr Arg Arg Met Leu Lys Phe Ile Arg Arg Pro Asn
 1 5 10 15

Val Lys Ala Arg Arg His Ala Ala His Ser Leu Ser Lys Arg His Ala
 20 25 30

Phe Arg Lys Lys Cys Arg Gly Cys Trp Arg Ala Ala Arg Ser Ala Leu
 35 40 45

Ala Gln Glu Leu Gly
 50

<210> 2637
 <211> 39
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2637

Arg Leu Lys Phe Leu Gln Lys Trp Met Lys Phe Tyr Lys Gln Glu Leu
 1 5 10 15

Gln Met Leu Phe Pro Met Leu Ala Arg Gln Leu Asn Glu Lys Ala Leu
 20 25 30

Lys Ala Ala Arg Phe Ala Arg
 35

<210> 2638
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2638

Leu Met Arg Phe Leu Arg Lys Leu Phe Lys Lys Leu Lys Cys Ala Asp
 1 5 10 15

Gly His Tyr Leu Val Ala Cys Thr Met Leu Arg Arg Leu Met Lys Glu
 20 25 30

Ala Leu Ala Lys
 35

<210> 2639
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2639

Arg Trp Arg Leu Phe Lys Lys Met Leu Lys Met Leu Cys Asn Ala Leu
 1 5 10 15

Asn Trp Leu His
20

<210> 2640
<211> 52
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 2640

Leu Leu Arg Leu Phe Cys Lys Phe Leu Lys Lys Met Arg Lys Arg Leu
1 5 10 15

Leu Leu His Ala Val Phe Val Arg Lys Glu Leu Glu Thr Asp Arg Ser
20 25 30

Thr Arg Trp Arg Lys Lys Glu Leu Tyr Ala Pro His Ala Lys Lys Ala
35 40 45

Trp Arg Leu Met
50

<210> 2641
<211> 73
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 2641

Phe Leu Lys Leu Leu His Arg Phe Tyr Lys Met Leu Arg Lys Phe His
1 5 10 15

Ala Leu Trp Val Ile Ala Leu Leu Asn Ala Asp Lys Pro Cys Lys Leu
20 25 30

Leu Leu Ala Lys Arg Arg Asn Thr Lys Lys Arg Asp Leu Tyr His Arg
35 40 45

Ser Lys Leu Asn Lys Cys Leu Pro Arg Arg Glu Gly Gln Leu Lys Ile
50 55 60

Asp Asp Arg Arg Lys Met Arg Ala Ala

65

70

<210> 2642
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2642

Phe Leu Lys Leu Ile Ser Lys Tyr Ile Arg Arg Leu Arg Cys Tyr Pro
 1 5 10 15

Cys Ile Arg Pro Gly Lys Asp Leu Lys Ala Leu Leu Lys Leu Arg Lys
 20 25 30

Asp Leu Leu Ala Ala Met Trp Leu
 35 40

<210> 2643
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2643

Phe Phe Arg Phe Tyr Ser Lys Trp Leu Lys Ile Phe His Arg Leu Lys
 1 5 10 15

Leu Gly Arg Ala Glu Leu Leu Ala Val Lys Thr Lys Arg
 20 25

<210> 2644
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2644

Arg Met Arg Phe Leu Ser Lys Phe Leu Arg Tyr Phe Lys Asn Arg Ala
 1 5 10 15

Phe Ala Ala Val Asp Ile Leu Ala Leu Ala Arg Gly Lys

20

25

<210> 2645
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2645

Phe Tyr Arg Leu Leu Lys Arg Ile Leu Lys Leu Tyr Pro Arg Ile Gly
 1 5 10 15

Arg Ala Glu Ala
 20

<210> 2646
 <211> 42
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2646

Tyr Leu Arg Leu Phe Asn Lys Met Leu Lys Ile Phe Asn Lys Thr Ala
 1 5 10 15

Ser Pro Ala Lys Ala His Leu Leu Glu Ala Arg Lys Ala Lys Leu Ser
 20 25 30

Leu Lys Leu Ile Asp Met Tyr Arg Leu Asp
 35 40

<210> 2647
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2647

Arg Met Arg Ile Phe Arg Arg Leu Leu Lys Lys Ile Lys His Gly Ala
 1 5 10 15

Gln Arg Phe Lys Gly Phe Ala Leu Ala Gly Ala Tyr

20

25

<210> 2648
 <211> 49
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2648

Phe Phe Lys Leu Leu Ser Lys Trp Ile Arg Phe Phe Asn Arg Leu Gly
 1 5 10 15

Leu Arg Glu Lys Arg Gly Asp Leu Leu Gln Arg Lys Leu Ala Leu Ile
 20 25 30

Ala Lys Asn Phe Asp Arg Ser Val Leu Ala Tyr Leu Pro Leu Lys Leu
 35 40 45

Gln

<210> 2649
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2649

Trp Leu Lys Leu Tyr Lys Arg Met Leu Lys Trp Met His Lys Leu Ser
 1 5 10 15

Gly Trp Lys Leu
 20

<210> 2650
 <211> 60
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2650

Phe Tyr Lys Ile Leu Lys Lys Met Trp Arg Lys Leu Asn Arg Tyr Lys

1 5 10 15

Leu Lys Ala Ile Glu Thr Arg Ile Arg Val Lys Phe Gly Asn Asp Arg
20 25 30

Tyr Phe Asp Lys Leu Leu Arg Leu Ala Met Val Lys Ala Met Arg Ala
35 40 45

Arg Lys Lys Met Leu Trp Leu Leu Ile Thr Ala Trp
50 55 60

<210>	2651
<211>	43
<212>	PRT
<213>	Artificial Sequence
<220>	
<223>	Computer-generated peptide variant
<400>	2651

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Phe Trp Lys Phe Met Lys Arg Leu Trp Lys Leu Tyr Arg Ser Arg Ser
1          5          10          15

Arg Ala Cys Val Glu Leu Lys Lys Leu Gly Leu Lys Val Tyr Lys Arg
          20          25          30

Arg Ala His Phe Met Leu Trp Ala Leu Leu Tyr
          35          40

```

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<210> 2652
<211> 25
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 2652
```

Arg Tyr Arg Leu Leu Arg Arg Phe Leu Arg Phe Met Arg His Trp Gly
1 5 10 15

Phe Ala Tyr Ala Ala Lys Val Lys Tyr
20 25

<210>	2653
<211>	25
<212>	PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2653

Lys Leu Lys Phe Tyr Gln Lys Trp Leu Lys Leu Met Arg Arg Arg Tyr
1 5 10 15

Ala Ala Asn Lys Ala Gln Ile Met Leu
20 25

<210> 2654

<211> 44

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2654

Arg Ile Arg Ile Phe Arg Lys Tyr Leu Lys Arg Trp Lys Gln Arg Met
1 5 10 15

Ala Leu Leu Ala Ile Arg Leu Tyr Leu Ala Tyr Glu Arg Ala Leu Gly
20 25 30

Ser Leu Ala Arg Lys Trp Phe Arg Val Ala Leu Thr
35 40

<210> 2655

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2655

Leu Leu Lys Phe Met Cys Arg Ile Tyr Lys Trp Tyr Cys Lys Cys Ala
1 5 10 15

Ala Arg Ser Leu Ala Lys Lys Glu Lys Ala Gly Val Pro Lys Leu Lys
20 25 30

<210> 2656

<211> 96

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2656

Arg Leu Lys Tyr Met Lys Lys Met Met Lys Trp Phe Arg Lys Lys Arg
1 5 10 15

Lys Leu Leu His Leu Arg Arg Leu Thr Lys Tyr Lys Thr Ala Ala Gln
20 25 30

Lys Ala Ala Ala Lys Leu Lys Tyr Ser Lys Gln Lys Tyr Gln Arg Arg
35 40 45

Ala Pro Arg His Leu Asn Gly Ala Ala Met Cys Asp Pro Ala Ala Phe
50 55 60

Asp Leu Ala His Lys Arg Ile Gln Arg Leu Ala Glu Met Leu Gly Lys
65 70 75 80

Ala Trp Arg Ile Arg Ala Cys Arg Leu Gln Cys Arg Leu Lys Tyr Cys
85 90 95

<210> 2657

<211> 31

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2657

Arg Tyr Lys Phe Leu Lys Lys Leu Tyr Lys Arg Phe His Asn Val Leu
1 5 10 15

Arg Ala Phe Pro Arg Ile Lys Leu Ala Leu Arg Asn Ala Asn Lys
20 25 30

<210> 2658

<211> 41

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2658

Tyr Ile Lys Phe Leu Cys Lys Met Phe Lys Arg Ile Cys Arg Ala Arg
 1 5 10 15

Arg Ala Ala Arg Lys Leu Lys Cys Leu Ala His Ala Trp Ala Leu Cys
 20 25 30

Pro Tyr Pro Lys Val Thr Pro Arg Arg
 35 40

<210> 2659
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2659

Arg Leu Arg Trp Leu His Arg Phe Leu Lys Phe Ile Gln Lys Ile Ser
 1 5 10 15

Gln Glu Lys Asp Arg Lys Leu Ala Pro Arg Arg Leu Ala Gly Leu Gln
 20 25 30

Ala

<210> 2660
 <211> 98
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2660

Phe Phe Lys Leu Met Ser Arg Leu Met Arg Lys Tyr Ser Gln Tyr Gly
 1 5 10 15

Ala Trp Lys Lys Ala Trp His Arg Leu Ala Glu Gln Asn Met His Tyr
 20 25 30

Thr Leu Phe Trp Lys Tyr Lys Leu Val Leu Lys Lys Phe Ala Leu Arg
 35 40 45

Arg Arg Lys Arg Leu Lys Pro Lys Lys Arg Thr Leu Thr Ala Arg Leu

50

55

60

Leu Gly Leu Arg Lys Arg Lys Ala Glu Phe Leu Ala Arg Lys Ile Ala
 65 70 75 80

Arg Leu Leu Ala Lys Glu Ala Ala Phe Ile Arg Ile Cys Arg Lys Leu
 85 90 95

Leu Asn

<210> 2661
 <211> 53
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2661

Arg Leu Lys Trp Leu Thr Arg Trp Phe Arg Met Tyr Lys Arg Lys Ala
 1 5 10 15

Leu Lys Thr Lys Leu His Leu Lys Leu Ala Leu Glu Lys Thr Ser Pro
 20 25 30

Met Leu Ala Ala Leu Ser Tyr Ala Tyr Leu Gly Gly His His His Lys
 35 40 45

Lys Ala Ala Lys Leu
 50

<210> 2662
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2662

Trp Phe Arg Leu Leu Lys Arg Leu Trp Lys Leu Phe Pro Lys Cys Ala
 1 5 10 15

Gln Met Lys Met
 20

<210> 2663
 <211> 47
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2663

Lys Leu Arg Phe Leu Lys Arg Leu Ile Lys Trp Met Arg Gln Pro Ser
 1 5 10 15

Arg Val Leu Ile Leu Ala Ser Tyr Met Val Gln Gly Leu Leu Lys Ser
 20 25 30

Ala Lys Lys Ser Trp Ala Gly Arg Lys Lys Leu Phe Lys Ser Lys
 35 40 45

<210> 2664
 <211> 79
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2664

Arg Leu Arg Met Met Lys Lys Leu Trp Lys Lys Phe Lys Arg Arg Leu
 1 5 10 15

Ile Lys Arg Trp Ala Ile Ala Leu Arg Thr Phe Tyr Leu Ala Arg Trp
 20 25 30

Phe Gln Ala Ser Ala Cys Ala Leu Cys Lys Leu Ser Leu Lys Pro Asp
 35 40 45

Ala Gly Thr Phe Pro Lys Trp Asn Leu Leu Leu Leu Tyr Lys Leu Met
 50 55 60

Leu Lys Thr Arg Trp His Lys Met Leu Arg Lys Asn Phe Glu Asn
 65 70 75

<210> 2665
 <211> 27
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2665

Lys Leu Lys Ile Met Cys Lys Ile Leu Arg Arg Ile Arg Gln Arg Ala
 1 5 10 15

Arg Val Pro Leu Leu Arg Tyr Asn Leu His Ala
 20 25

<210> 2666

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2666

Arg Leu Lys Leu Ile Lys Arg Phe Trp Arg Lys Leu Lys Asn Leu Arg
 1 5 10 15

Gln Arg Gln Ala Ser His Leu Pro Tyr Phe Gly His Ala
 20 25

<210> 2667

<211> 50

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2667

Arg Leu Arg Leu Leu Ser Arg Phe Met Arg Lys Trp Pro Lys Lys Ala
 1 5 10 15

Gly Asp Met Asp Arg Ala Ala Leu Leu Glu Gly Leu Trp Leu Gly Ala
 20 25 30

Asn Met Leu Ile Ala Pro His Leu Ala Ile Val Trp Lys Gly Lys Leu
 35 40 45

Arg Arg
 50

<210> 2668

<211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2668

Lys Tyr Lys Phe Leu Lys Arg Leu Leu Arg Leu Tyr Lys His Ala Thr
 1 5 10 15

His Pro Met Lys Ser Gln Asp Leu Leu Trp Lys Arg
 20 25

<210> 2669
 <211> 48
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2669

Arg Tyr Lys Leu Trp Lys Arg Leu Ile Arg Lys Phe Lys Lys Lys Arg
 1 5 10 15

Cys Tyr Met Leu Leu Asn Ala Ala Ala Asp Trp Pro Glu Gly Gly Lys
 20 25 30

Lys Lys Leu Leu Leu Ala Cys Cys Pro Leu Phe Arg Ala Phe Lys Ala
 35 40 45

<210> 2670
 <211> 45
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2670

Arg Ile Arg Leu Phe Arg Lys Trp Leu Lys Leu Ile His Lys Gln Ala
 1 5 10 15

Pro Ser Ile Ala Ala Tyr Lys Lys Arg Arg Leu Gly Phe Asp Lys Ala
 20 25 30

Pro Ala Ala Ala Ile Ala Leu Gly Arg Ala Arg Ala Arg

35

40

45

<210> 2671
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2671

Met Leu Arg Trp Leu Ser Lys Leu Leu Arg Leu Leu Arg Arg Ile His
 1 5 10 15

Val Cys Asn Arg Leu Ala Thr Arg Arg
 20 25

<210> 2672
 <211> 47
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2672

Lys Leu Arg Tyr Tyr Arg Arg Leu Leu Arg Phe Phe Lys Lys Tyr Phe
 1 5 10 15

Glu Cys Leu Glu Lys Asp Thr Leu Ala Arg Leu Arg Met Arg Asp Leu
 20 25 30

Leu Val Arg Asn Lys Arg Phe Ala Ile Ala Ala Tyr Gln Thr Leu
 35 40 45

<210> 2673
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2673

Arg Ile Arg Leu Phe Arg Arg Ile Leu Lys Phe Leu Arg Thr Ala Ala
 1 5 10 15

Leu Tyr Asn Arg Lys Ala Trp Lys Cys Met Pro Ala Leu Ala Leu Ser

20

25

30

<210> 2674
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2674

Tyr Trp Lys Leu Leu Ser Arg Leu Leu Lys Arg Phe Arg Lys Leu Asn
 1 5 10 15

Cys Met Lys Arg Arg Pro Ser Ala Gly Arg Arg Asp Phe Leu Pro Phe
 20 25 30

Leu

<210> 2675
 <211> 50
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2675

Trp Met Arg Phe Phe Lys Lys Phe Phe Lys Leu Leu Lys Pro Lys Arg
 1 5 10 15

Thr Trp Gln Leu Leu Arg Ala Leu His Arg Ala Ile Met Ala Ala Leu
 20 25 30

Arg Met Leu Lys Leu Gly Leu Ala Tyr Asn Lys Pro Glu Lys His Lys
 35 40 45

Lys Ser
 50

<210> 2676
 <211> 62
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2676

Leu Phe Lys Met Met Asn Arg Trp Tyr Arg Leu Leu Lys Arg Arg Ala
 1 5 10 15

Arg Leu Leu Arg Pro Leu Lys Asp Gly Lys Glu Arg Ser Arg Gln Thr
 20 25 30

Lys Pro Lys Cys Leu Cys Lys Ala Arg Ala Leu His Pro Pro Ser Ala
 35 40 45

Ser Asp Thr Asp Leu Arg Arg Leu Leu Leu Ala Arg Gln Ala
 50 55 60

<210> 2677

<211> 86

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2677

Arg Ile Arg Phe Leu Pro Arg Trp Met Lys Lys Ile Lys Lys Lys Leu
 1 5 10 15

Ala Arg Ala Thr Glu Lys Ala Ala Ile His Trp Lys Arg Thr Ala Ser
 20 25 30

Ala Lys Val Phe Leu Arg Leu Leu Arg His Cys Lys Arg Tyr Asn Ala
 35 40 45

Lys Lys Pro Lys Gln Leu Ala Lys Ala Leu Leu Val Tyr Tyr Lys Ser
 50 55 60

Gly Ala Lys Ile Arg Thr Val Ala Ala Lys Lys Pro Lys Thr Val Ile
 65 70 75 80

Phe Lys Ser Ala Pro Ile
 85

<210> 2678

<211> 46

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2678

Leu	Leu	Arg	Leu	Phe	Lys	Arg	Met	Phe	Arg	Lys	Ile	Arg	His	Lys	Leu
1				5					10					15	

Leu	Arg	His	Leu	Leu	Ser	Lys	Pro	Met	Leu	Tyr	Arg	Ala	Asp	Tyr	Ala
			20					25						30	

Pro	Pro	His	Arg	Thr	Asn	Asp	Ile	Ile	Ala	Ala	Lys	Lys	Ala
		35					40					45	

<210> 2679

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2679

Lys	Met	Arg	Phe	Trp	Lys	Lys	Leu	Leu	Arg	Leu	Leu	Thr	Thr	Pro	Glu
1				5					10					15	

Ser	Arg	Ser	Val	Leu	Arg	Met	Arg	Leu	Pro	Leu	Arg	Leu	Leu
			20					25					30

<210> 2680

<211> 31

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2680

Leu	Ile	Lys	Met	Leu	Arg	Lys	Leu	Phe	Arg	Arg	Leu	Lys	Lys	Ala	Lys
1				5					10					15	

Lys	Gln	Lys	Trp	Pro	Leu	Leu	Leu	Lys	Ala	Cys	Trp	Leu	Lys	Asp
			20					25					30	

<210> 2681

<211> 37

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2681

Lys	Leu	Arg	Leu	Leu	Thr	Lys	Trp	Trp	Arg	Arg	Phe	Arg	Arg	Glu	Asn
1				5					10					15	

Thr	Leu	Ala	Leu	His	Asp	Gly	Ala	Lys	Leu	Tyr	His	Arg	Asp	Leu	Gly
			20					25					30		

Ala	Ala	Met	Lys	Val
				35

<210> 2682

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2682

Tyr	Leu	Lys	Leu	Leu	Arg	Arg	Met	Tyr	Lys	Arg	Met	Lys	Arg	Leu	Arg
1				5					10					15	

Gln	Ala	Arg	Trp	Cys	Arg	Gly	Phe	Met	Gln	Asn	Gly	Ala	Leu	Leu	Pro
			20					25					30		

Ala	Ser	Ala	Ala
			35

<210> 2683

<211> 60

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2683

Arg	Leu	Arg	Trp	Leu	Pro	Lys	Met	Leu	Arg	Lys	Phe	Lys	Lys	Leu	Asp
1				5					10					15	

Leu	Asp	Lys	Thr	Lys	His	Arg	Ala	Ala	His	Thr	Pro	Asn	Thr	Lys	Thr
			20					25					30		

Ser	Leu	Gly	Leu	Trp	Met	Thr	Arg	Lys	Gly	Ala	Ser	Gly	Leu	Asn	Val
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

35

40

45

Ala Lys Arg Leu Leu Asp Ala His Ser Arg Lys Arg
 50 55 60

<210> 2684
 <211> 41
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2684

Lys Trp Lys Tyr Leu Cys Arg Leu Leu Lys Lys Phe Arg Lys Gln His
 1 5 10 15

Lys Leu Leu Arg Leu Gln Leu Ala Asn Gln Asn Leu Asp Ala Met Phe
 20 25 30

Asn Cys Gly Arg Arg Leu Lys Leu Ile
 35 40

<210> 2685
 <211> 43
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2685

Met Trp Lys Ile Leu Lys Arg Ile Phe Lys Arg Met Lys Arg Arg His
 1 5 10 15

Gly Arg Ala Leu Cys Leu Cys Lys Leu Leu Leu Asn Ser Leu Leu Lys
 20 25 30

Ser Trp Ile Asn Arg Lys Pro Asp Leu Cys Leu
 35 40

<210> 2686
 <211> 53
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2686

Arg Trp Lys Phe Leu Lys Arg Trp Trp Arg Met Leu Lys Lys Leu His
 1 5 10 15

Leu Gln Ser Ala Ala Ser Gly Tyr Thr Phe Ala Ala Ala Arg Leu Ala
 20 25 30

Arg Leu Ala Cys Trp Ala Asn Tyr Ser Leu Ala Lys Asn Asp Leu Lys
 35 40 45

Leu Cys Arg Ser Arg
 50

<210> 2687

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2687

Arg Leu Lys Leu Tyr Lys Lys Trp Tyr Arg Lys Ile Arg Asn Ala His
 1 5 10 15

Gly Leu His Ala Ile Leu
 20

<210> 2688

<211> 64

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2688

Trp Phe Lys Tyr Phe Arg Lys Leu Phe Lys Lys Leu Pro Arg Arg Arg
 1 5 10 15

Ala Arg Ala Lys Pro Lys Arg Lys Ala Gly Ala Val Arg Lys Asp Leu
 20 25 30

Val Tyr Ala Ser Lys Ile Arg Asn Asp Leu Arg Arg Arg Leu Trp Tyr
 35 40 45

Cys Leu Met Ala Ala Trp Val Thr Leu Arg Ala Glu Tyr Leu Thr Arg
 50 55 60

<210> 2689
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2689

Lys Leu Lys Leu Met Arg Lys Leu Leu Arg Phe Met Arg Arg Phe Pro
 1 5 10 15

His Tyr Leu Ser Pro Leu Lys
 20

<210> 2690
 <211> 46
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2690

Trp Phe Arg Leu Leu Lys Arg Leu Phe Arg Lys Leu Cys Ser Pro Pro
 1 5 10 15

Ile Arg Arg Trp Phe Ala Phe Pro Cys His Arg Ala Arg Lys Trp Arg
 20 25 30

Leu Trp Gly Leu Arg Arg Ile Lys Ala Lys Asp Gln Ala Ala
 35 40 45

<210> 2691
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2691

Arg Leu Arg Phe Leu Ser Lys Leu Phe Arg Trp Leu Arg Arg Leu Arg
 1 5 10 15

Lys Asp Pro Leu Arg Val Asp Leu
20

<210> 2692
<211> 43
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 2692

Met Phe Lys Phe Leu Asn Lys Leu Leu Arg Lys Phe Arg Arg Gln His
1 5 10 15

Lys Arg Cys Leu Ser Ala Leu Met Thr Ala Lys Leu Phe Gln Ala Leu
20 25 30

Leu Cys Ala Ser Gly Val Lys Arg Ala Ser Glu
35 40

<210> 2693
<211> 69
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 2693

Phe Phe Lys Met Trp Lys Arg Leu Trp Lys Lys Leu Lys Thr Arg Gln
1 5 10 15

Ala Ala Leu Ala Thr Arg Ser His Asn Thr Arg Ser Arg Asp Trp Arg
20 25 30

Leu Arg Lys Lys Asp Lys Leu Ala Arg Ala Phe Ala Trp Thr His Ser
35 40 45

Gly Lys Leu Asn Ala Asp Val Ala Leu Ala Ala Ala Leu Gly Thr Ser
50 55 60

Leu Tyr Trp Ser Arg
65

<210> 2694

<211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2694

Trp Ile Arg Ile Leu Gln Arg Leu Ile Lys Met Tyr Arg His Lys Lys
 1 5 10 15

Lys Tyr Leu Phe Leu Ala Leu Arg Thr Ser Ala Leu Lys Leu
 20 25 30

<210> 2695
 <211> 31
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2695

Lys Leu Arg Ile Ile Arg Arg Leu Phe Lys Trp Leu Thr Lys Phe Leu
 1 5 10 15

Ala Met Lys Trp Thr Lys Leu Ala Gln Lys Leu Tyr Met Leu Ala
 20 25 30

<210> 2696
 <211> 38
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2696

Arg Leu Lys Leu Leu Arg Arg Phe Trp Arg Lys Ile Lys Thr Phe Leu
 1 5 10 15

Val Glu Ala Gln Glu Lys Ile Pro Ala Asn Ala Ala Arg Cys Leu Ala
 20 25 30

Lys Lys Gly His Asn Glu
 35

<210> 2697

<211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2697

Lys Phe Lys Leu Phe Lys Lys Leu Leu Lys Lys Met Lys Thr Leu Asp
 1 5 10 15

Leu Ala Arg Lys Ala Thr Ile Asn His
 20 25

<210> 2698
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2698

Arg Leu Lys Tyr Phe Lys Lys Phe Leu Arg Met Trp Lys Ser Ile Leu
 1 5 10 15

Lys Ala Lys Asn Ile Ala Lys Gln Ala Ala Ala Glu Val Asn
 20 25 30

<210> 2699
 <211> 48
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2699

Arg Leu Lys Phe Ile Arg Lys Ile Leu Lys Ile Leu Arg Lys Arg Leu
 1 5 10 15

Leu Gln Cys Leu Gly Lys Leu Lys Gln Ala Gly Arg Ile Ala Leu Cys
 20 25 30

Lys Lys Val Ala Glu Val Leu Arg Asn Gly Ala Ala Cys Leu Ala Leu
 35 40 45

<210> 2700

<211> 73
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2700

Ile Leu Lys Met Tyr Ser Lys Ile Leu Arg Phe Leu Arg Cys Gln Thr
 1 5 10 15

Ala Arg Phe Gln His Arg Ala Lys Lys Tyr Arg Arg Ala Arg Leu Leu
 20 25 30

Lys Gly Ile Ala Lys Leu Leu Arg Pro His Trp Arg Ser His Lys Gln
 35 40 45

Cys Arg Leu Ala Ser Ala Ala Asn Leu Met Ile Lys Leu Leu Asn Leu
 50 55 60

Ala Gly Ala Met Ala Ser Asn Met Ala
 65 70

<210> 2701
 <211> 66
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2701

Leu Ile Lys Leu Met Arg Lys Tyr Leu Lys Lys Met Lys Arg Met Asp
 1 5 10 15

Ile Leu Val Ala Arg Tyr Gly Phe Arg Ala Arg Ala Cys Ala Phe Arg
 20 25 30

Lys Leu Arg Arg Asp Arg Arg Leu Lys Ser Gly Trp Ala Trp Lys Arg
 35 40 45

Lys Ile Ala Trp Ala Trp Tyr His His Ile Leu Ala Ala Ala Arg Asn
 50 55 60

Cys Val
 65

<210> 2702
 <211> 90
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2702

Phe Leu Lys Leu Tyr Arg Arg Leu Phe Lys Arg Leu Lys Lys Arg Pro
 1 5 10 15

Leu Leu Lys Ala Lys Arg Asp Lys Lys Lys Leu Lys Val Arg Asn Met
 20 25 30

Lys Pro Ala Ala Leu Ala Leu Leu Cys Arg Leu Met Arg Ala His Met
 35 40 45

Ile Trp Pro Thr Lys Lys Ala Asn Phe Met Arg Asp Arg Val Met Val
 50 55 60

Lys Leu Asn Ile Trp Val Leu Arg Ala Leu Tyr Lys His Gln Lys Ile
 65 70 75 80

Arg Ala Arg His His Pro Arg Gly Ile Lys
 85 90

<210> 2703
 <211> 39
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2703

Arg Tyr Lys Phe Tyr Arg Arg Ile Leu Lys Leu Phe Lys Lys Glu Pro
 1 5 10 15

Ala Arg Gln Leu Leu Trp Leu Lys Leu Ala Leu Leu Ala Asn Arg His
 20 25 30

Leu Asn Asp Asn Arg Asp Tyr
 35

<210> 2704

<211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2704

Leu Met Lys Phe Met Arg Lys Leu Phe Lys Arg Leu Lys Ser Gln Ala
 1 5 10 15

Ser Ala Lys Thr Gln Ile Leu Ala
 20

<210> 2705
 <211> 43
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2705

Leu Leu Lys Tyr Trp Lys Arg Leu Phe Arg Arg Leu Lys Lys Pro Tyr
 1 5 10 15

Arg Asp Ala Ser Leu Met Arg Ile Ala Leu Ala Phe Asp Leu Cys Ala
 20 25 30

Gln Gly Arg Ala Leu Arg Glu Cys Asp Ala Pro
 35 40

<210> 2706
 <211> 49
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2706

Trp Met Arg Phe Met Arg Lys Phe Phe Arg Met Ile Pro Arg Ser Thr
 1 5 10 15

Lys Pro Pro Arg Leu Ala Asn Lys Leu Leu Arg Lys Ala Arg Ala Trp
 20 25 30

Arg Thr Ala Leu Lys Asn Ala Ala Gln Lys Lys Lys Ala Thr Gln Ala

35

40

45

Ala

<210> 2707

<211> 67

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2707

Phe	Ile	Lys	Leu	Phe	Lys	Lys	Tyr	Phe	Arg	Met	Leu	His	Arg	Glu	Leu
1				5				10						15	

Ala	Ala	Gly	Ala	Gly	Lys	Arg	Lys	Glu	Arg	Arg	Val	Val	Ala	Thr	Arg
			20					25					30		

Gly	Asp	Leu	Arg	Lys	Leu	Ala	Arg	Asn	Lys	Arg	Leu	Tyr	Ala	Ile	Lys
		35					40					45			

Tyr	Ala	Arg	Asp	Cys	Asp	Arg	Ser	Leu	His	Leu	Arg	Trp	Ala	Tyr	Ser
	50					55					60				

Gly	Arg	Glu
65		

<210> 2708

<211> 79

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2708

Lys	Phe	Lys	Ile	Leu	Lys	Lys	Leu	Met	Arg	Leu	Leu	Arg	Gln	Phe	Trp
1				5					10					15	

Arg	Cys	Phe	Ile	Lys	Tyr	His	Leu	Leu	Lys	Leu	Lys	Pro	Val	Val	Val
			20				25						30		

Ala	Ala	Lys	Leu	Lys	Leu	Arg	Arg	Lys	Lys	Lys	Ala	Met	Ala	Arg	Lys
		35					40					45			

Leu Gly Lys Ser Cys Gly Lys Met Leu Gly Asp Asn Asn His Gln Lys
 50 55 60

Leu Ala Lys Thr Met Arg Leu Ser Pro Arg Ala Leu Phe Leu Ala
 65 70 75

<210> 2709
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2709

Arg Phe Arg Met Tyr Arg Lys Leu Leu Lys Leu Trp Lys Cys Tyr Ala
 1 5 10 15

His Arg Cys Leu Glu Ala Arg Leu Asn Leu Arg Thr
 20 25

<210> 2710
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2710

Lys Trp Arg Met Met Arg Lys Leu Tyr Lys Lys Phe Lys Cys Val Ala
 1 5 10 15

Arg Leu Thr Lys Tyr Lys Ala Ala Leu Ala Ala Gln Glu
 20 25

<210> 2711
 <211> 77
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2711

Phe Leu Arg Phe Leu Lys Arg Trp Trp Arg Arg Leu His Lys Tyr Leu
 1 5 10 15

Tyr Val His Arg Tyr Val Gly Val Gly Leu Pro Leu Leu Ala Phe Tyr
 20 25 30

Gln Thr Ala Ala Met Met Lys Leu Lys Leu His Gly Ile Lys Pro Leu
 35 40 45

Ala Leu Met Lys Arg Arg Lys Ala Val Ala Ala Ala Ile Leu Lys Glu
 50 55 60

Thr Pro Leu Tyr Lys Lys Asn Leu Lys Ser Ala Leu Arg
 65 70 75

<210> 2712
 <211> 38
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2712

Leu Met Arg Leu Ile Gln Lys Leu Ile Arg Trp Leu Arg Arg Leu Cys
 1 5 10 15

Cys Arg Leu Arg Asp Lys Val Lys Ala Ala Ala Pro Ala Arg Ser Ala
 20 25 30

Gly Glu Arg Asp Ala Val
 35

<210> 2713
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2713

Leu Phe Lys Ile Leu Lys Lys Phe Leu Arg Lys Leu Arg Lys Arg His
 1 5 10 15

Trp Leu Cys Ala Ala Leu Ala Asp His Phe Met Glu Lys
 20 25

<210> 2714

<211> 37
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2714

Arg Phe Lys Trp Phe His Lys Ile Leu Arg Leu Tyr Lys Arg Ala Ala
 1 5 10 15

Lys Arg Ala Phe Leu Asp Lys Arg Leu His Leu His Pro Val Leu Leu
 20 25 30

Lys Trp Lys Lys Asn
 35

<210> 2715
 <211> 50
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2715

Leu Phe Lys Ile Leu Lys Arg Leu Trp Arg Lys Ile Lys Arg Cys Tyr
 1 5 10 15

Lys Cys Ala Arg Met Met Pro Gln Arg Met Ala Ala Arg Lys Ala Lys
 20 25 30

Pro Lys Ala Cys Ser Glu Lys Ala Phe Asp Ala Arg Ala Leu Glu Asn
 35 40 45

Ser Thr
 50

<210> 2716
 <211> 50
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2716

Met Phe Lys Phe Ile Arg Arg Leu Leu Lys Trp Trp Ser His Leu Asp

1 5 10 15

Gly Asp Leu Val Ala Cys Arg Ala Leu Ala Pro Lys Ile Val Arg Leu
20 25 30

Asn Lys Lys Ala His Tyr Arg Arg Ala Ile Ala Lys Asp Lys Arg Leu
35 40 45

Met Arg
50

<210>	2717
<211>	62
<212>	PRT
<213>	Artificial Sequence
<220>	
<223>	Computer-generated peptide variant
<400>	2717

Lys	Trp	Lys	Tyr	Met	Asn	Arg	Phe	Phe	Lys	Leu	Ile	Arg	Cys	Val	Arg
1				5					10					15	
Leu	Leu	Leu	Leu	Lys	Pro	Arg	Lys	Ala	Arg	Tyr	Lys	Trp	Ile	Ile	Gln
			20					25					30		
Arg	Ala	Leu	Arg	Leu	Arg	Ala	Lys	Tyr	Val	Ala	Thr	Lys	Ala	Leu	Lys
		35					40					45			
Ile	Lys	Lys	Arg	Ala	Ala	Trp	Glu	Ser	Leu	Lys	Trp	Met	Leu		
	50					55					60				

<210>	2718
<211>	20
<212>	PRT
<213>	Artificial Sequence
<220>	
<223>	Computer-generated peptide variant
<400>	2718

Phe Met Lys Phe Leu Ser Lys Leu Leu Arg Lys Ile Asn Arg Leu Leu
1 5 10 15

Lys Lys Cys Ala
20

<210> 2719
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2719

Lys Phe Arg Leu Ile His Arg Phe Leu Arg Leu Tyr Lys Lys His Ala
 1 5 10 15

His Tyr Leu Arg Ala Thr Gly Leu Trp Ala Tyr Arg Ala
 20 25

<210> 2720
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2720

Met Leu Lys Tyr Trp His Lys Tyr Leu Arg Leu Phe Gln Lys Arg Phe
 1 5 10 15

Pro Ala Ala Arg Leu Asn Arg Arg Lys Ser His Ser Lys Lys Asn Ala
 20 25 30

Leu Ala

<210> 2721
 <211> 73
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2721

Arg Leu Arg Tyr Met Lys Lys Ile Leu Lys Ile Leu Arg Cys Ala Thr
 1 5 10 15

Asn Val His Gly Arg Arg Lys Phe Glu Lys Leu Trp Ala Trp Leu Arg
 20 25 30

Lys Ala Tyr Ile Ala Gly Ala Asp Ala Lys Leu Lys Tyr Leu Ala Gly
 35 40 45

Arg Cys Ala Lys Glu Arg Lys Met Ala Lys Gln Leu Ala Tyr Val Ala
 50 55 60

Tyr Leu Ser Glu Ala His Arg Asp Ile
 65 70

<210> 2722
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2722

Lys Leu Lys Leu Trp Asn Arg Tyr Trp Arg Arg Ile Arg Lys Leu Met
 1 5 10 15

Phe Trp Arg Arg Cys Ala His Ala Leu Ala Trp Leu Thr
 20 25

<210> 2723
 <211> 48
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2723

Lys Phe Arg Phe Trp Asn Arg Met Leu Lys Leu Phe Arg Pro Asn Leu
 1 5 10 15

Arg Leu Met Leu Ile Ser Tyr Ile Gly Trp Arg Leu Leu Pro Arg Gly
 20 25 30

Arg Trp Leu Ala Leu Ala Lys Asp Lys Ala Ala Leu Lys Ala Glu Arg
 35 40 45

<210> 2724
 <211> 83
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2724

Arg	Leu	Lys	Met	Leu	His	Lys	Leu	Trp	Lys	Lys	Trp	Cys	His	Leu	Leu
1				5				10						15	

Lys	Gly	Ala	Pro	Gln	Tyr	Arg	Leu	Pro	Pro	Lys	Ile	Val	Ala	Glu	Ala
			20				25						30		

Lys	Met	Asn	Ser	Ala	Cys	Arg	Leu	Cys	Arg	Asp	Asp	Arg	Ser	Ala	Ala
		35					40					45			

Lys	Gly	Arg	Gly	Lys	Lys	Tyr	Ile	Asp	Lys	Lys	Cys	Lys	Lys	Arg	Leu
	50					55					60				

Ser	Lys	Ser	Arg	Leu	Arg	Lys	Leu	Lys	Gln	Ser	Leu	Asp	Lys	Asn	Met
65					70					75					80

Leu Leu Phe

<210> 2725

<211> 67

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2725

Tyr	Leu	Arg	Leu	Tyr	Cys	Lys	Leu	Leu	Arg	Lys	Phe	Arg	Arg	Glu	Ala
1				5					10					15	

Cys	Trp	Phe	Arg	Arg	Met	Tyr	Ser	Met	Ser	Ala	Leu	Cys	Arg	Met	Tyr
			20					25					30		

Trp	Arg	Asp	Ala	Lys	Lys	Gly	Ala	Asn	Lys	Ile	Lys	Ile	Arg	Ala	Leu
		35				40						45			

Thr	Arg	Ala	Asn	Leu	Arg	Ala	Ala	Leu	Arg	Ala	Leu	Met	Ile	Ala	Ala
	50					55					60				

Cys	Cys	Gln
65		

<210> 2726
 <211> 98
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2726

Phe Tyr Lys Phe Tyr Lys Arg Ile Phe Arg Lys Ile Arg Lys Thr His
 1 5 10 15

Lys Lys Ala Asn His Leu Leu Pro Ala Thr Ser Leu Ala Asn Gly Met
 20 25 30

Arg Asp Lys Asp Gln Trp Leu Met Ala Leu Gly His Val Lys Lys Lys
 35 40 45

Leu Arg Leu Thr Arg Leu Ser Val Ala His Val Val Arg Ile Ala Asp
 50 55 60

Arg Ser Glu Ala Lys His Leu Lys Ala Ala Arg Lys Lys Glu Ser Asn
 65 70 75 80

Ala Arg Arg Lys Ala Lys Leu Thr Leu Gly Arg Leu Lys Leu Ala Val
 85 90 95

Ser Glu

<210> 2727
 <211> 77
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2727

Leu Ile Lys Tyr Leu Lys Lys Leu Trp Lys Ile Leu Lys Lys Leu Lys
 1 5 10 15

Leu Leu Trp Gln Arg Thr Thr Phe Leu Cys Met Ser Lys Ser His Gln
 20 25 30

Glu Ala Ala Arg Leu Asp Arg Arg Gly Gly Trp Ala Ala Ala Arg Leu

35

40

45

Pro His Arg Val His Gly Asp Lys Val Asp Lys Arg Lys Cys Leu Ala
 50 55 60

Asn Ala Asn Lys Lys Gln Lys Ala Val Arg Ala Asp Leu
 65 70 75

<210> 2728

<211> 92

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2728

Phe Trp Lys Met Leu Lys Arg Phe Leu Arg Lys Ile Lys Arg Trp Ala
 1 5 10 15

His Leu Leu Tyr Arg Arg Met Gly Arg Ala Lys Tyr Lys Ala Asn Ala
 20 25 30

His Arg Leu Trp Leu Leu Asp Gln His Arg Gln Leu Asn Lys Leu Arg
 35 40 45

Asp Arg Ala Asp Leu Lys Leu Lys Met Glu Trp Tyr Thr Arg Pro Ala
 50 55 60

Arg Arg Ile Leu Ala Lys His Ala Cys Trp Arg Lys Ser Leu Leu Arg
 65 70 75 80

Lys Cys Asn Val Arg Asp Glu Ala Gly Leu Gln Cys
 85 90

<210> 2729

<211> 52

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2729

Lys Phe Lys Leu Leu Cys Lys Tyr Ile Lys Leu Met Pro Arg Lys Arg
 1 5 10 15

Ala Met Trp Ala Leu Gln Gly Arg Arg Trp Arg Leu Lys Leu Phe Ala
 20 25 30

Trp Glu Tyr Lys Ala Ala Lys Ser Glu Lys Ala Trp Val Glu Arg Arg
 35 40 45

Met Arg Leu Cys
 50

<210> 2730
 <211> 38
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2730

Lys Leu Lys Ile Leu Cys Lys Leu Ile Arg Leu Leu Lys Lys Pro Lys
 1 5 10 15

Ser Asn Cys Ala Asn Lys Ile Ile Leu Trp Asn Arg Ala Ala Ala Leu
 20 25 30

Met Val Glu Lys Asp Lys
 35

<210> 2731
 <211> 57
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2731

Arg Leu Arg Phe Phe Ser Lys Leu Leu Lys Arg Trp Arg His Ala Lys
 1 5 10 15

Cys Lys Lys Phe Glu Pro Asn Ala Met Gly Gln Lys Leu Lys His Tyr
 20 25 30

Leu Arg Leu His Trp Lys Leu Met Lys Val Arg Gln Leu Pro Leu Ala
 35 40 45

Leu Asn Leu Lys Arg Leu Met Ala Tyr

50

55

<210> 2732
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2732

Lys Leu Lys Met Leu Lys Arg Phe Leu Lys Lys Leu Ser Arg Lys Ala
 1 5 10 15

Pro Phe Ala Leu His Asn Ala Arg Leu Lys His Gln Leu Leu Ala Asp
 20 25 30

Lys

<210> 2733
 <211> 53
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2733

Arg Trp Arg Ile Leu Arg Arg Leu Leu Lys Trp Phe Lys Asn Arg Ala
 1 5 10 15

Leu Glu Arg Leu Met Val Cys Leu Thr Tyr Val Arg Gln Ala Ser Arg
 20 25 30

Gly Leu Met Lys Lys Arg Leu Lys Leu Leu Lys Asp Leu Arg Leu Leu
 35 40 45

Glu Arg Phe Thr Asn
 50

<210> 2734
 <211> 41
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2734

Arg Tyr Arg Met Leu Arg Lys Leu Leu Lys Lys Trp Arg His Ala Thr
1 5 10 15

His His Lys Arg Val Trp Asp Leu Lys Arg Trp Arg Arg Ala Cys Leu
20 25 30

Leu Pro Ala Thr Trp Gly Ala Leu His
35 40

<210> 2735

<211> 78

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2735

Lys Leu Lys Leu Ile Lys Arg Phe Leu Lys Arg Phe Lys Lys Ala Arg
1 5 10 15

Thr Asp His Ala Phe Val Ala Arg Arg Met Lys Asn Pro Pro Lys Met
20 25 30

His Pro Leu Gln Thr Arg Asn Pro Ile Ala Tyr Ala Leu Arg Arg Lys
35 40 45

Ala Leu Phe Pro Leu Arg Ala Arg Arg Ile Leu Ala Ser Arg Thr His
50 55 60

Ala Cys Ala Lys Ala Glu Glu Val Met Leu Arg Gly Ile Leu
65 70 75

<210> 2736

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2736

Lys Ile Lys Leu Ile Lys Lys Leu Phe Arg Arg Trp Arg Pro Leu Arg
1 5 10 15

Leu Ile Thr Lys Glu Thr Ala Ala Met Ala Arg Ala Trp Leu Tyr Leu
 20 25 30

<210> 2737
 <211> 48
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2737

Leu Leu Arg Phe Tyr Lys Lys Met Leu Arg Leu Tyr Asn Lys Cys Trp
 1 5 10 15

Val Arg Leu Arg Leu Cys Pro Cys Lys Ala Gln Ser Leu Asn Cys Pro
 20 25 30

Leu Lys Ala Ala Lys Gly Leu Trp His Phe Leu Ala Arg Lys Lys Arg
 35 40 45

<210> 2738
 <211> 65
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2738

Arg Leu Arg Tyr Tyr Thr Arg Phe Leu Lys Arg Phe Lys His Arg Glu
 1 5 10 15

Ala Leu Lys Phe Cys Asn Lys Cys Thr Lys Tyr Arg Gln Tyr Val Leu
 20 25 30

Leu Lys Ile Lys Leu Ala Ala Met Leu Arg Ala Leu Ala Thr Cys Ala
 35 40 45

Lys Asp Lys Ser Leu Ser Arg Ala Lys Val Phe Phe Ala Lys Cys Arg
 50 55 60

Ile
 65

<210> 2739

<211> 67
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2739

Lys Met Lys Phe Leu Arg Arg Phe Phe Arg Leu Ile Arg Arg Glu Val
 1 5 10 15

Gln Arg Leu Leu Val Phe Lys Leu Lys Ser Ala Lys Ala Asp Gly Gly
 20 25 30

Lys Val Lys Lys Arg Ala Gln Leu Pro Ser Ala Ala Leu Leu Leu Ala
 35 40 45

Ser Leu His Leu Thr Phe Asn Arg Lys Arg Gly Asn Arg Arg Trp His
 50 55 60

His Leu Ser
 65

<210> 2740
 <211> 27
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2740

Ile Leu Arg Leu Phe His Arg Leu Trp Lys Lys Ile Gln Arg Ala Ser
 1 5 10 15

Ala His Gln Ile Ala Val Ala Lys Arg Asn Arg
 20 25

<210> 2741
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2741

Phe Phe Arg Met Tyr Pro Lys Ile Phe Arg Trp Leu Lys Asn Ala Arg

1 5 10 15

Ala Lys Ala Leu Arg
20

<210> 2742
<211> 52
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 2742

Lys Tyr Lys Trp Phe Arg Arg Tyr Phe Lys Leu Leu Lys Asn Tyr Arg
1 5 10 15

Thr Lys Lys Ala Ala Val Pro Tyr Arg Arg Leu Leu Leu Phe Thr Lys
20 25 30

Ala His Leu Ala Pro Arg Ala Leu Lys Ile Leu Asp Lys Val Arg Leu
35 40 45

Cys Arg Leu Ile
50

<210> 2743
<211> 56
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 2743

Tyr Leu Arg Leu Phe Arg Lys Trp Leu Arg Lys Phe Thr Arg Ala Leu
1 5 10 15

Ala Ala Arg Ile Ala Asp Phe Ala Trp Ala Tyr Leu His Lys Ser Arg
20 25 30

Ala Lys Lys Cys Ala Asn Ala Met Lys Leu Gln Lys Leu His Lys Leu
35 40 45

Tyr Val Asp Ala Ala Thr Val Met
50 55

<210> 2744
 <211> 37
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2744

Phe	Ile	Arg	Leu	Tyr	Cys	Lys	Met	Phe	Lys	Tyr	Met	Asn	Pro	Arg	Ala
1			5					10						15	

His	Leu	Leu	Leu	Ala	Ala	Arg	Leu	Phe	Val	Arg	Asn	Arg	Cys	Ala	Lys
			20					25					30		

Arg	Lys	Arg	Ala	Ser
				35

<210> 2745
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2745

Ile	Met	Arg	Leu	Leu	Lys	Lys	Leu	Leu	Lys	Met	Leu	Lys	Pro	Gln	Lys
1			5					10						15	

Met	Pro	Leu	Arg
			20

<210> 2746
 <211> 26
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2746

Phe	Ile	Arg	Trp	Phe	Thr	Lys	Trp	Trp	Lys	Arg	Leu	Arg	Cys	Ala	Arg
1			5					10						15	

Arg	Leu	Ala	Asp	Leu	Leu	Lys	Lys	Ala	Ala
			20					25	

<210> 2747
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2747

Arg Leu Lys Leu Leu Lys Lys Phe Phe Arg Phe Phe Thr Lys Tyr Ala
 1 5 10 15

Leu Trp Arg Lys Gly Arg Phe Ala Arg Ala Phe Arg His Arg Tyr Phe
 20 25 30

Tyr Leu Lys Met Lys Ala Leu Ala
 35 40

<210> 2748
 <211> 60
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2748

Arg Trp Lys Leu Leu Arg Arg Met Leu Lys Lys Phe Ser Lys Ala Ser
 1 5 10 15

Lys Gln Leu Pro Cys Arg Ala Leu Lys Leu Gln Asp Gln Cys Cys Leu
 20 25 30

Ala Leu Pro Ala Met Glu Ile Ala Phe Ala Met Lys Lys Ala Ala Arg
 35 40 45

Val Gln Ala Lys Met Pro Asn Leu Ala Gly Asp Gly
 50 55 60

<210> 2749
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2749

Lys Leu Arg Ile Leu Arg Lys Leu Leu Arg Lys Trp Ser Ser Met His
 1 5 10 15

Arg Leu Ile Tyr Met Leu Ile Ala Ala Lys Arg Arg Phe Cys Ala Tyr
 20 25 30

Thr Lys Leu
 35

<210> 2750
 <211> 100
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2750

Leu Phe Arg Met Leu Thr Arg Leu Trp Arg Lys Tyr Lys Arg Leu His
 1 5 10 15

Lys His Arg Leu Asp Arg Trp Ser Lys Arg Lys Met Gln Ala Ile Ala
 20 25 30

Arg Glu Lys Met Arg Lys Leu Ala His Asp Pro Asn Pro Ala Met Tyr
 35 40 45

Leu Asp Thr Val His Leu Asp Leu Ile Leu Lys Thr Ala Met Ile Leu
 50 55 60

Arg Ser Met Pro Ile Leu Leu Glu Asp Lys Leu Ala Arg Met Arg Ser
 65 70 75 80

Pro Ser Ala Arg Ala Leu Leu Ala Ala Leu Phe Arg Asp Pro Lys Lys
 85 90 95

Ala Val Lys Ala
 100

<210> 2751
 <211> 27
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2751

Tyr Trp Arg Met Phe Arg Lys Leu Tyr Lys Arg Met Gln Arg Leu Ala
1 5 10 15

Leu Glu Gln Leu His Lys Ala Leu Gln Leu Asp
20 25

<210> 2752

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2752

Phe Leu Lys Leu Leu Arg Lys Leu Phe Lys Leu Leu Arg Asn Gln His
1 5 10 15

Glu Tyr Ser Leu Lys Leu Val Arg Val Cys Leu Asp Thr His Leu Lys
20 25 30

Arg Ile

<210> 2753

<211> 39

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2753

Arg Phe Lys Met Phe Lys Arg Leu Leu Lys Arg Leu Lys Arg Leu Arg
1 5 10 15

Pro Pro Thr Leu Gln His Leu Lys Ala Ala Gln Gly Tyr Gly Ala Ala
20 25 30

Asp Lys Lys Leu Lys Pro Lys
35

<210> 2754

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2754

Ile Leu Lys Tyr Leu Ser Arg Leu Leu Arg Lys Ile Lys Asn Arg Arg
1 5 10 15

Leu Glu Asp Leu Met Ala
20

<210> 2755

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2755

Arg Leu Arg Leu Met Lys Lys Met Leu Arg Tyr Leu Pro Arg Leu Leu
1 5 10 15

Lys Arg Thr Asp Gln Met Leu Met
20

<210> 2756

<211> 43

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2756

Arg Ile Arg Met Met Arg Arg Trp Met Arg Lys Phe Lys Arg Arg Pro
1 5 10 15

Ala Phe Met Ala Arg Tyr Thr Leu Pro Leu Arg Ser Leu Tyr Leu Ala
20 25 30

Gln Leu Tyr Trp Lys Arg Leu Leu Val Asn Leu
35 40

<210> 2757

<211> 96

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2757

Arg Tyr Lys Phe Met Thr Arg Phe Leu Lys Lys Ile Gln Arg Leu Lys
1 5 10 15

Ser Leu Leu Glu Leu Asp Leu Lys Asp Ala Leu Arg Phe Pro Lys Arg
20 25 30

Arg Glu Asn Leu Arg Arg Gly Asn Asn His Leu Lys Lys Asp Gly Glu
35 40 45

Leu Val Lys Arg Ala Arg Phe Val Lys Leu Thr Ala Tyr Trp Tyr Lys
50 55 60

Asp Arg Gly Ala Arg Leu Ala Leu Lys Trp Pro Lys Ala Pro Asp Val
65 70 75 80

Arg Leu Arg Met Pro Arg Leu Gly Asn Ala Val Ala Lys Lys Leu Tyr
85 90 95

<210> 2758

<211> 92

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2758

Lys Leu Lys Trp Ile Pro Arg Leu Ile Lys Leu Ile Lys Asn Ser Asp
1 5 10 15

Thr Asn Met Leu Leu Thr Lys Arg Gly Ala Leu Leu Ala Asp Leu Gln
20 25 30

Arg Met Leu Asp Phe Val Lys Ala Lys Met Ala Arg Arg Phe Ala Arg
35 40 45

Arg Ala Lys His Asp Glu Tyr Leu Lys Gly Thr Lys Met His Tyr Ala
50 55 60

Glu Leu Asp Arg Ile Trp Lys Lys Ser Ala Ala Arg Leu Arg Ala Lys

65 70 75 80

Glu Lys Arg Asn Asn Arg Leu Asp Arg Arg Cys Cys
 85 90

<210> 2759
 <211> 47
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2759

Lys Leu Lys Leu Leu Arg Lys Trp Met Arg Leu Leu Lys Ser Leu Ala
 1 5 10 15

Leu Gln Val Lys Phe Asn Lys Leu Arg Pro Leu Leu Asp Arg Gln Lys
 20 25 30

Tyr Lys Lys Arg Pro Trp Ala Tyr Arg Trp Thr Asn Leu Gln Asn
 35 40 45

<210> 2760
 <211> 37
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2760

Leu Tyr Lys Phe Leu His Arg Tyr Phe Arg Ile Leu Arg Arg Val Lys
 1 5 10 15

Cys Cys Leu Pro Lys Lys Arg Leu Lys Leu Lys Ala His Ala Arg Leu
 20 25 30

Glu Asn Lys Ala Pro
 35

<210> 2761
 <211> 82
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2761

Lys Met Arg Phe Met Arg Arg Leu Phe Arg Arg Phe Lys Arg Trp Lys
1 5 10 15

Trp Tyr Arg Thr Leu Arg Tyr His Lys Gln Ala Ala Ala Pro Ile Ser
20 25 30

Ala Arg Ile Leu Lys Ala Leu Arg Ser Ala Lys Leu Leu Met Lys Arg
35 40 45

Lys Leu Glu Ala Lys Leu Arg Leu Arg Lys Gln Lys Ile Gln Pro Val
50 55 60

Arg Ala Ala Leu Lys Gly Lys Glu Ala Ala Ile Arg Ile Lys Pro Phe
65 70 75 80

Val Glu

<210> 2762

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2762

Leu Phe Lys Trp Phe Ser Arg Trp Phe Lys Trp Leu Lys Lys Ala Lys
1 5 10 15

Leu Thr Trp Ser Leu Lys Thr Lys Ala Arg Leu His Leu Asn Glu Arg
20 25 30

Lys Gly

<210> 2763

<211> 61

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2763

Lys Leu Lys Phe Leu Cys Lys Leu Met Arg Lys Phe His Lys Ala Pro
 1 5 10 15

Arg Lys Cys Ala Asn Arg Asn Pro Arg Arg Leu Arg Gly Ala Lys Val
 20 25 30

Ala Asn Glu Ala Lys Pro His Leu Leu Tyr Gly Arg Gly Ala Val Leu
 35 40 45

Lys Lys Ala Leu Leu Thr Glu Cys Leu Pro Leu Cys Leu
 50 55 60

<210> 2764
 <211> 76
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2764

Lys Leu Lys Leu Leu Ser Lys Met Tyr Lys Arg Leu Arg Cys Met Gly
 1 5 10 15

Phe Val His Cys Phe Lys Lys Arg Asn Lys Ala Asp Ala Cys Trp Leu
 20 25 30

Gly Ala Glu Lys Cys Phe Lys Leu Leu Lys Tyr Ser Ala Leu Asp
 35 40 45

Asp Arg Lys Met Asn Leu Lys Leu Ala Arg Ile Ser Thr Glu Ala Gln
 50 55 60

Leu Leu Ala Ser Pro Leu Leu Leu Arg Arg Leu Lys
 65 70 75

<210> 2765
 <211> 59
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2765

Met Leu Arg Ile Leu Lys Lys Trp Met Arg Leu Phe Arg Asn Phe Tyr

Leu Trp Arg Tyr Leu Lys Arg Phe Met Arg Met Phe Pro Arg Leu Cys
1 5 10 15

Arg Arg Arg Tyr Trp Lys Ala Gly Ala Leu Arg Gln Arg Pro Leu Ser
20 25 30

Leu Glu Leu Lys Lys Ala Lys Cys Ser
35 40

Lys	Leu	Arg	Met	Phe	Ser	Lys	Phe	Leu	Lys	Arg	Phe	Ser	His	Ala	Pro
1				5					10					15	
Arg	Arg	Arg	Leu	Lys	Ala	Thr	Met	Leu	Ser	Arg	Arg	Asn	Ala	Ile	Gly
			20					25					30		
Asn	Tyr	Ala	Ala	Arg	Asp	Leu	Leu	Asp	Asn	Arg	Arg	Arg	Ala	Leu	
		35					40					45			

<210> 2768
 <211> 68
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2768

Arg Tyr Arg Ile Leu His Arg Leu Met Arg Lys Ile Arg Asn Cys Phe
 1 5 10 15

Pro Asp Lys Leu Lys Leu Ala Phe Cys Glu Lys Leu Arg Arg Pro Ala
 20 25 30

Gln Gln Lys Glu Lys Leu Leu Ala Phe Lys Glu Asn His Ala Met Lys
 35 40 45

Pro Arg Arg Ile Lys Val Ala Asn Arg Asp Lys Gln Ala Leu Asn Lys
 50 55 60

Leu Leu Asp Leu
 65

<210> 2769
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2769

Arg Leu Arg Met Leu Cys Arg Ile Leu Lys Lys Tyr Gln Lys Leu Lys
 1 5 10 15

Leu Leu Asp Asn Arg Lys Ala Cys Asn
 20 25

<210> 2770
 <211> 94
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2770

Arg Ile Lys Phe Leu Thr Lys Leu Met Lys Leu Tyr Arg Arg Pro Tyr
 1 5 10 15

Tyr Phe Gly Lys Met Leu Leu Cys Ala Lys Pro Trp Leu Arg Arg Ala
 20 25 30

Gln Ile Thr Leu Ala Arg Ala Leu Val Lys Asp Thr Asp Arg Arg Ala
 35 40 45

Val Gly Tyr Leu Lys Glu Leu Phe Asn Arg Glu Ser Lys Ala Tyr Pro
 50 55 60

Arg Lys Ala Arg Cys Arg Leu Leu Trp His Ala Lys Ser Tyr Phe Gln
 65 70 75 80

Ala Lys Ala Lys Leu Glu Ala Leu Glu Gly Leu Leu Leu Val
 85 90

<210> 2771

<211> 58

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2771

Lys Ile Arg Met Leu Lys Lys Phe Ile Arg Arg Leu His Arg Gln Ala
 1 5 10 15

Asp Phe Ser Arg Arg Glu Leu Trp Leu Ala Leu Ala Cys Leu Met Trp
 20 25 30

Cys Ile Arg Leu Thr Trp Glu Cys Pro Ala Ser Arg Ala Lys Leu Cys
 35 40 45

Ala Leu Ala Lys Leu Ala Arg His Ala Trp
 50 55

<210> 2772

<211> 57

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2772

Arg Leu Lys Ile Phe Lys Arg Tyr Trp Arg Leu Leu Lys Arg Ile Ala
 1 5 10 15

Leu Pro Gly Ala Pro Arg Asn Lys Ile Val Leu Asp Arg Arg Val Asn
 20 25 30

Ala Ala Lys Gln Arg Leu Lys Arg Glu Cys Leu Leu Asp Lys Thr Tyr
 35 40 45

His Arg Lys Met Glu Tyr Asp Leu Ala
 50 55

<210> 2773

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2773

Arg Leu Lys Leu Leu Cys Lys Leu Ile Lys Lys Leu Lys Arg Ala Arg
 1 5 10 15

His Ile Gly Ala Ala Trp Lys Trp Val Leu Gln Ala Arg
 20 25

<210> 2774

<211> 63

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2774

Arg Phe Lys Leu Leu Arg Arg Ile Phe Lys Leu Phe Lys Pro Trp Asn
 1 5 10 15

Ile Arg Ile Ala Val Val Lys Asp Leu Ala Asp Asn Lys Ala Pro Leu
 20 25 30

Gln Lys Asn Leu Phe Leu Lys His Ala Leu Met Lys Ala Ala Ala Gly
 35 40 45

Asp Leu Ile Lys Tyr Arg Leu Arg Pro Pro Leu Ala Met Leu Thr
 50 55 60

<210> 2775
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2775

Lys Ile Arg Leu Phe Arg Arg Phe Phe Arg Lys Leu Lys His Arg Ala
 1 5 10 15

Val Asn Ala Leu Pro Leu Gly Leu Gly Val Leu Lys Pro Glu His Ala
 20 25 30

Lys Lys Ser
 35

<210> 2776
 <211> 45
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2776

Met Ile Lys Leu Leu Ser Lys Trp Trp Lys Phe Trp Thr Arg Lys Arg
 1 5 10 15

Leu Thr Trp Ala Phe Leu Lys Lys Ser Leu Cys Lys Ala Thr Lys Arg
 20 25 30

Arg Lys Ala Lys Asp Ala Leu Lys Ile Tyr Cys Ala Leu
 35 40 45

<210> 2777
 <211> 39
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2777

Leu Phe Lys Phe Leu Arg Lys Ile Leu Arg Arg Met Arg Arg Thr Leu
 1 5 10 15

Arg Ala Cys Arg Arg Gln Leu Arg Ala Ile Ala Ile Met Gly Phe Glu
 20 25 30

Ala Gln Arg Tyr Ser Ala Ile
 35

<210> 2778

<211> 51

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2778

Ile Phe Arg Leu Phe Arg Arg Phe Trp Arg Met Tyr Lys Arg Arg Gln
 1 5 10 15

Ala Ala Gly Trp Cys Gln Lys Leu Arg Met Ala Lys His Lys Leu Ala
 20 25 30

Cys Arg Leu Lys Arg Trp Ile Leu Ala Leu Leu Phe Cys Thr Arg Arg
 35 40 45

Ser Arg Ile
 50

<210> 2779

<211> 70

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2779

Phe Met Lys Leu Phe Pro Arg Phe Leu Lys Arg Trp Arg Arg Glu Lys
 1 5 10 15

Glu Leu Ala Cys Leu Met Leu Asn Tyr Leu Arg Ser Ala Trp Phe Asp
 20 25 30

Ala Glu Leu Trp Ser Asn Glu Leu Leu Leu Phe Arg Trp Thr Ile Ala

35

40

45

Val Leu Leu Arg Arg Phe Lys His Arg Lys Arg Ser Ala Arg Ser Arg
 50 55 60

Ala Glu Ala Lys Lys Ala
 65 70

<210> 2780
 <211> 27
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2780

Leu Leu Arg Leu Leu Cys Arg Leu Phe Lys Arg Phe Lys Lys Lys Gln
 1 5 10 15

Ser Gly Asn Thr Leu Met Val Arg Phe Ile Leu
 20 25

<210> 2781
 <211> 39
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2781

Arg Leu Arg Leu Phe Lys Lys Phe Ile Arg Phe Tyr Lys Gln Ala Lys
 1 5 10 15

Leu Trp Arg Ala Ala Lys Glu Ala Ala His His Leu Cys Trp Pro Ser
 20 25 30

Leu Val Lys Val Leu Cys Leu
 35

<210> 2782
 <211> 70
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2782

Leu Leu Lys Leu Leu Lys Lys Leu Phe Arg Met Leu Cys Cys Gly Leu
 1 5 10 15

Val Lys Glu Met Arg Ala Asp Gly Leu Lys Arg Thr Leu Trp Lys Lys
 20 25 30

His Lys Phe Thr Ala Gln His Gln Val Ala Lys Ile Lys Leu Arg Lys
 35 40 45

Arg Ala Arg Trp Leu Lys Gly Cys Ala Tyr Leu Asp Arg Asn Asp Tyr
 50 55 60

Lys Gln Lys Arg Val Trp
 65 70

<210> 2783

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2783

Lys Ile Lys Leu Leu Lys Lys Leu Ile Arg Lys Trp Lys Arg Tyr His
 1 5 10 15

Glu Arg Arg Ala Leu Leu Ala Arg Val Asn Leu Pro Leu Gln Leu Val
 20 25 30

Val Glu

<210> 2784

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2784

Arg Leu Arg Leu Met His Lys Tyr Phe Lys Leu Ile Arg Lys Ala Arg
 1 5 10 15

Leu Leu Cys Ala Leu
20

<210> 2785
<211> 92
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 2785

Lys Ile Arg Trp Tyr Lys Lys Met Leu Lys Arg Leu Lys Thr Leu Ile
1 5 10 15

Pro Phe Lys Leu Leu Arg Lys Arg Gly Asn Ala Asn Pro Ala Leu Leu
20 25 30

Cys Arg Asn Lys Ala Leu Met Trp Cys Leu Lys Leu Asp Lys Leu Gly
35 40 45

Leu Asp Asp Phe Ile Pro Trp Lys Ser Ile Met Arg Asn Arg Phe Leu
50 55 60

Asn Lys Leu Arg Ala Arg Ile Arg Pro Leu Lys Trp Phe Thr Gln Lys
65 70 75 80

Asp Leu Val Ala Leu Cys Ala Leu Lys Lys Arg Cys
85 90

<210> 2786
<211> 24
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 2786

Ile Leu Arg Ile Phe His Arg Tyr Leu Arg Lys Ile Pro Lys Leu Trp
1 5 10 15

Arg Ala Ala Ala Ala Lys Phe His
20

<210> 2787

<211> 38
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2787

Arg Trp Arg Leu Leu Lys Arg Tyr Phe Arg Lys Leu Asn Arg Lys Leu
 1 5 10 15

Asp Pro Phe Thr Lys Asn Phe Leu Tyr Leu Leu Ser Ser Arg Lys Val
 20 25 30

Lys Lys Thr Ala Ala Ala
 35

<210> 2788
 <211> 41
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2788

Lys Phe Lys Trp Leu Arg Lys Ile Trp Arg Phe Ile Lys Cys Ala Tyr
 1 5 10 15

Ser Arg Arg Ala Glu Leu Ala Leu Phe Leu Tyr His Leu Lys Ala Ala
 20 25 30

Val His Glu Leu Ala Arg Ala Leu Trp
 35 40

<210> 2789
 <211> 59
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2789

Leu Tyr Lys Trp Trp Arg Arg Met Phe Arg Arg Leu Lys Lys Arg Gln
 1 5 10 15

Val Val Arg Glu Ser Val Ala Ala Leu Ala Met Ala Gly Gly Phe Leu

20

25

30

Cys Glu His His Met Lys Glu Leu Arg Arg Thr Arg His Gly Arg Phe
 35 40 45

Lys Leu Leu Ala Lys His Ala Ala Arg Leu Arg
 50 55

<210> 2790

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2790

Phe Ile Arg Ile Leu His Arg Leu Tyr Arg Arg Tyr Lys Lys Gln Leu
 1 5 10 15

Leu Trp Leu Ala Arg
 20

<210> 2791

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2791

Leu Leu Arg Trp Leu Cys Lys Leu Trp Arg Tyr Tyr Gln Arg Trp Leu
 1 5 10 15

Leu Lys Ile Val Arg Pro Ala Ala Arg Asp Leu Ala Ile Cys Leu Gln
 20 25 30

Asn Arg Arg
 35

<210> 2792

<211> 90

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2792

Tyr Tyr Lys Phe Trp Lys Arg Ile Ile Lys Phe Met Arg Lys Leu Thr
 1 5 10 15

Arg Lys Leu Asp Ala Thr Pro Met Arg Thr Leu Leu Lys Tyr Glu Leu
 20 25 30

Tyr Ser Arg Ile Ala His Arg Ala Arg Thr Glu Ala Arg Ala Lys Lys
 35 40 45

Ile Ala Arg Arg Ala Leu Leu Cys Lys Lys Leu Met Leu Lys Asn Gly
 50 55 60

Leu Asp Ala Phe Asp Arg Cys Gly Glu Gly Ser Cys Gln Lys Lys Ala
 65 70 75 80

Gln Asn Val Leu Lys Lys Ala Leu Lys Lys
 85 90

<210> 2793

<211> 44

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2793

Phe Tyr Lys Met Tyr Gln Arg Leu Leu Arg Ile Leu Ser Pro Leu Lys
 1 5 10 15

His Arg Ala Cys Leu His Ile Lys Leu Val Arg Glu Gly Lys Cys Leu
 20 25 30

Arg Leu Arg Lys Leu Arg Lys Tyr Asn Arg Leu Asn
 35 40

<210> 2794

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2794

Trp Phe Arg Leu Leu Thr Arg Leu Phe Arg Tyr Leu Arg Lys Gln Lys
 1 5 10 15

Met Leu Phe Arg
 20

<210> 2795

<211> 48

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2795

Leu Leu Lys Tyr Phe Arg Lys Phe Leu Lys Tyr Met Lys Arg Lys Cys
 1 5 10 15

Leu Arg Arg Leu Val Cys Leu Leu Lys Tyr Phe Lys Ala Ser Leu Tyr
 20 25 30

Cys Thr Glu Leu Ala Leu Leu Lys Glu Lys Ser Glu Ala Ile Arg Trp
 35 40 45

<210> 2796

<211> 78

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2796

Arg Phe Lys Leu Phe Pro Arg Trp Tyr Arg Arg Tyr Lys Pro Ala Arg
 1 5 10 15

Ala Ser Ala Arg His Lys Ala Ala Arg His Pro Arg Leu Leu Ala Leu
 20 25 30

Glu Ala Arg Leu His Val Phe Thr Ser Arg Arg Met Arg Met Lys His
 35 40 45

Leu Ser Ala Met Glu Leu Val Leu Ala Cys Ile Arg Lys Arg Arg Lys
 50 55 60

Gln Phe Arg Ala Arg Leu Arg Lys Ile Arg Asn Ala Leu Ala

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<220>
<223>   Computer-generated peptide variant
<400>   2797
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Leu Phe
65

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<220>
<223>   Computer-generated peptide variant
<400>   2798
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Thr Lys Pro Lys Arg Tyr Trp
50 55

<210> 2799
 <211> 39
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2799

Leu Tyr Arg Phe Phe Lys Lys Tyr Trp Arg Arg Met Lys His Ala Lys
 1 5 10 15

Leu Glu Arg Leu Val Met Leu Pro Arg Ala Lys Glu Trp Arg Ala Leu
 20 25 30

Val Val Leu Trp Arg Ala Thr
 35

<210> 2800
 <211> 50
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2800

Ile Tyr Lys Leu Leu Arg Arg Leu Phe Lys Trp Met Lys Lys Ala Lys
 1 5 10 15

Lys Arg Met Ala Arg Cys Trp Arg Ala Ile Leu Ser Gly Leu Leu Arg
 20 25 30

Arg Ala Asn Ala Arg Leu Leu Ser Ala Met Tyr Tyr Arg Cys Ala His
 35 40 45

Trp Val
 50

<210> 2801
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2801

Phe Trp Arg Leu Ile Arg Lys Met Phe Lys Lys Met Lys His Lys Leu
 1 5 10 15

Ala Leu Met Ala Ala Leu Leu Ala Arg Phe Ala Ala Arg Gln Leu Asp
 20 25 30

Cys

<210> 2802
 <211> 60
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2802

Arg Ile Lys Leu Leu Lys Lys Met Leu Lys Arg Phe Lys Thr Met Leu
 1 5 10 15

Ala Tyr Gly Met Leu Ala Cys Glu Ala Lys Cys Glu Leu Cys Leu Gly
 20 25 30

Lys Lys Phe Arg Leu Ile Thr Trp Leu Pro Arg Lys Arg Ile Asn Arg
 35 40 45

Arg Trp Arg Ile Phe Ala Arg Ala Gln Lys Tyr Glu
 50 55 60

<210> 2803
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2803

Lys Trp Arg Phe Phe Arg Lys Phe Leu Arg Leu Leu Gln Lys His Ser
 1 5 10 15

Arg Ala Lys Arg Leu Ala Leu Gly His Leu Cys Pro
 20 25

<210> 2804

<211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2804

Arg Phe Arg Leu Met Asn Arg Ile Phe Lys Arg Phe Pro Lys Arg Leu
 1 5 10 15

Glu Ala Ala Thr Leu Ala
 20

<210> 2805
 <211> 47
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2805

Lys Ile Arg Leu Phe Thr Arg Leu Ile Lys Phe Leu Lys Lys Ala Asn
 1 5 10 15

Met Arg Lys Gly Ala Lys Thr Arg Ala Arg Arg Pro Arg Ser Leu Val
 20 25 30

Tyr Ser Ala Ala His Met Pro Leu Cys Ala Met Ala Tyr Lys Ala
 35 40 45

<210> 2806
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2806

Phe Leu Arg Leu Met Arg Arg Leu Phe Lys Phe Phe Lys Arg Leu Ser
 1 5 10 15

Cys Glu Thr Asp Ala Ala Gly Lys Ala Lys Trp Thr Ala
 20 25

<210> 2807

<211> 61
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2807

Arg Tyr Lys Leu Ile Gln Lys Ile Met Arg Leu Phe Arg Thr Leu Lys
 1 5 10 15

Trp Ser Trp Thr Leu Ala His Phe Arg Gly Arg Leu Leu Gly Arg Leu
 20 25 30

Leu Arg Glu Arg Lys Lys Lys Phe Glu Gln Arg Gly Trp Lys Cys Glu
 35 40 45

Ala Met Leu Leu Ser Lys Leu Leu Lys Asn Arg Asn Lys
 50 55 60

<210> 2808
 <211> 71
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2808

Arg Leu Arg Trp Tyr Arg Arg Phe Met Arg Leu Phe Cys Asn Ala Asp
 1 5 10 15

Leu Trp Arg Thr Leu Cys His Tyr Val Val Leu Lys Thr Phe Cys Lys
 20 25 30

Leu Met Cys Lys Ala Lys Pro Arg His Lys Lys Leu Ala Lys Leu Ala
 35 40 45

Lys Asn Leu Ala Met Ala Tyr Asp Met Gly Ala Arg Asn Lys His Val
 50 55 60

Ala Ala Ala Arg Arg Lys Ala
 65 70

<210> 2809
 <211> 61
 <212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2809

Phe Leu Lys Leu Phe Asn Lys Phe Trp Arg Arg Leu Arg Cys Arg Leu
1 5 10 15

Ala Ser Gln Leu Ala Ala Lys Lys Arg Ala Phe Gly Met Arg Tyr Ala
20 25 30

Arg Leu Ile Ile Arg Trp Gly Lys Val Arg Leu His Ile Met Cys Lys
35 40 45

Lys Cys Phe Pro Ala Leu Asp Arg Lys Ala Leu Leu Asp
50 55 60

<210> 2810

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2810

Arg Phe Arg Ile Met Arg Arg Trp Tyr Lys Leu Leu His Lys Gly Leu
1 5 10 15

His Lys Ala Ala Lys Leu Arg Tyr Ala Leu Gln Lys Ala Asn Arg Lys
20 25 30

Ala Cys

<210> 2811

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2811

Trp Trp Arg Tyr Met Lys Arg Phe Phe Arg Arg Leu Lys His Leu Ala
1 5 10 15

Lys Met Leu Ala
20

<210> 2812
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 2812

Arg Phe Lys Leu Tyr His Arg Ile Leu Arg Lys Leu Lys Lys Lys Ala
1 5 10 15

Arg Lys Val Leu Asp Lys Ala Asn Ala Phe Tyr Pro Gln Ser Thr Leu
20 25 30

<210> 2813
<211> 44
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 2813

Lys Met Lys Ile Tyr Arg Arg Phe Met Lys Lys Phe Asn Arg His Leu
1 5 10 15

Arg Gly Ile Ile Arg Lys Lys Ala Leu Leu Lys Ala Ala Ala Ala Ala
20 25 30

Glu Lys Arg Tyr Lys Cys Ala Ala Ala Lys His Pro
35 40

<210> 2814
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 2814

Lys Ile Lys Leu Phe Arg Arg Leu Leu Lys Arg Phe Arg Gln Arg Arg
1 5 10 15

Val Val Ala Ala Ala Arg Ala Leu Val Thr Asn Lys Trp Leu Tyr Gly
 20 25 30

<210> 2815
 <211> 59
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2815

Leu Leu Lys Trp Trp Asn Arg Trp Leu Arg Ile Leu Arg Arg Lys Ala
 1 5 10 15

Gln Leu Met Thr Thr Lys Lys Leu Leu Cys Lys Ala Leu Gln Leu Pro
 20 25 30

Asp Leu Gln Ser Leu Asn Asp Lys Ala Gly Met Arg Glu Asp Lys Gly
 35 40 45

Pro Ala Arg Leu Pro Val Leu Lys Lys Lys Gly
 50 55

<210> 2816
 <211> 48
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2816

Leu Phe Arg Leu Leu Gln Lys Phe Ile Arg Leu Ile His Asn Arg Lys
 1 5 10 15

Gln Pro Lys Tyr Ala Leu Lys Thr Lys Arg Thr Leu Phe Pro Val Lys
 20 25 30

Leu Lys Ile Tyr Leu Ala Ala Leu Ala His Asp Arg Leu Glu Arg Ala
 35 40 45

<210> 2817
 <211> 67
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2817

Arg Phe Arg Phe Leu Lys Arg Trp Met Arg Arg Tyr His Pro Met Ala
 1 5 10 15

Val Ala Ala Lys Arg Tyr Pro Trp Pro Cys Pro Arg Ser Arg Leu Tyr
 20 25 30

Lys Ala Arg Gly Phe Asn Arg Lys Arg Ala Leu Leu Tyr Arg Ala Ala
 35 40 45

Ala Arg Leu Asp Phe Leu Asp Lys Leu Gln Trp Ala Lys Ala Met His
 50 55 60

Cys Ile Lys
 65

<210> 2818

<211> 38

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2818

Lys Phe Lys Leu Leu Lys Arg Ile Ile Lys Leu Leu Arg Lys Leu Lys
 1 5 10 15

His Pro His Met Tyr Leu Met Asp Ile Arg Ala Leu Arg Ala Asn Glu
 20 25 30

Phe Lys Thr Lys Thr Cys
 35

<210> 2819

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2819

Arg Phe Lys Leu Leu Ser Arg Ile Leu Arg Arg Leu Asn Arg Arg Tyr

1 5 10 15

Pro Ala Leu Leu Thr Ile Arg Arg Tyr Tyr Val
20 25

<210> 2820
<211> 54
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 2820

Arg Phe Lys Phe Phe Arg Lys Ile Trp Arg Trp Leu Arg Arg Met Leu
1 5 10 15

Leu Thr Pro Ala Ser Lys Asn Leu Ala Leu Leu Leu Gly Leu Asp Trp
20 25 30

Leu Ala Lys Phe Thr Leu Arg Ala Tyr Asn Thr Ser Tyr Leu Asn Asn
35 40 45

Arg Glu Ala Arg Arg Lys
50

<210> 2821
<211> 48
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 2821

Lys Trp Arg Phe Leu Asn Arg Met Met Lys Arg Tyr Arg Lys Asn Leu
1 5 10 15

Lys Ile Ala Ala Asn Lys Thr Leu Met Asp Leu Leu Tyr Tyr Ile Ile
20 25 30

Ala Ala Leu Ser Lys Lys Ala Lys Ala Asp Lys Ala Cys Ser Lys Gly
35 40 45

<210> 2822
<211> 33
<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2822

Lys Leu Lys Tyr Leu Pro Arg Trp Leu Lys Arg Phe Asn Cys Pro Met
1 5 10 15

Leu Trp Ala Ile Lys Phe Pro Ala Ala Lys Leu Lys Thr Lys Arg Lys
20 25 30

Leu

<210> 2823

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2823

Tyr Tyr Arg Leu Met Thr Lys Ile Tyr Arg Arg Leu Lys Thr Thr Leu
1 5 10 15

Leu Leu Asp Lys
20

<210> 2824

<211> 47

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2824

Lys Phe Arg Phe Ile Arg Lys Leu Tyr Arg Lys Phe Gln Lys Ala Ala
1 5 10 15

Ala His Glu Lys Phe Ser Ala Asn Lys Ala Pro Lys Lys Leu Cys Gly
20 25 30

Val Leu Arg Gly Ser Ala Ala Arg Leu Leu Asp Phe Asn Leu Ala
35 40 45

<210> 2825
 <211> 66
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2825

Leu Phe Lys Leu Ile Asn Lys Leu Leu Lys Leu Leu Cys Lys Ile Cys
 1 5 10 15

Ile Leu Leu Tyr Leu Val Leu Cys Cys Ala Lys Gly Glu Ala Arg Ala
 20 25 30

Leu Lys Lys Ala Cys His Arg Asp Ile Ala His Ala Lys Asp His Lys
 35 40 45

Leu Tyr Arg His His Tyr Ala Ile Arg Asp Leu Tyr Cys Lys Ile Ala
 50 55 60

Arg Lys
 65

<210> 2826
 <211> 68
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2826

Leu Leu Lys Met Phe Ser Lys Leu Leu Lys Leu Phe Gln Gln His Arg
 1 5 10 15

Cys Arg Arg Ala Leu Leu Tyr Glu Arg Arg Lys Trp Gln Ala Arg Leu
 20 25 30

Leu Asp His Asn Lys His Ala Asp Gly Ser Leu Lys Glu Arg Leu Pro
 35 40 45

Lys Lys Arg Ala Asn Ala Glu Leu Lys Gln Ser Leu Ile Phe Ala Lys
 50 55 60

Lys Lys Arg Lys

65

<210> 2827
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2827

Leu Leu Lys Leu Leu Lys Arg Trp Ile Lys Trp Trp Arg Lys Arg Leu
 1 5 10 15

Ala Val Tyr Ser
 20

<210> 2828
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2828

Tyr Ile Lys Leu Ile Arg Arg Leu Ile Lys Lys Ile Arg Arg Met Asn
 1 5 10 15

Lys Thr Phe Ala Ala Ala Leu Arg Pro Ser Leu Leu Lys Trp His Ala
 20 25 30

Gly Ala Tyr
 35

<210> 2829
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2829

Phe Trp Arg Phe Tyr Asn Arg Leu Leu Lys Leu Leu Arg His Lys Ala
 1 5 10 15

Gln Tyr Tyr Arg Pro Ile His Cys Leu Leu Ala Ala Arg Arg Ala Lys

20

25

30

Gln Arg Val Tyr Lys Ser Trp Ala
 35 40

<210> 2830

<211> 79

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2830

Lys Leu Arg Met Trp Lys Lys Leu Phe Lys Met Tyr Thr Lys Pro Leu
 1 5 10 15

Leu Arg Ser Cys Arg Ala Val His Trp Asp Ala Ala Tyr Ala His Cys
 20 25 30

His Trp Pro Lys Ala Leu Ala Gln Cys Arg Gln Ala Lys Lys Leu Ala
 35 40 45

Ala Ala Leu Lys Arg Leu Lys Thr Tyr Met Val Met Arg Lys Ile Lys
 50 55 60

Leu Arg Lys Tyr Met Arg Met Lys His Arg Ala Arg Trp Leu Ala
 65 70 75

<210> 2831

<211> 37

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2831

Tyr Trp Lys Phe Leu Lys Arg Phe Met Lys Lys Ile Arg Ser Cys Thr
 1 5 10 15

Lys Tyr Ala Lys Ala Leu Lys Gln Lys Ala Leu Leu Lys Ser Ala Leu
 20 25 30

Cys Pro Trp Ala Asn
 35

<210> 2832
 <211> 43
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2832

Ile Ile Lys Leu Ile Asn Arg Tyr Leu Arg Ile Ile Arg Lys Leu Pro
 1 5 10 15

Leu Trp Val Leu Glu Ala Gly Arg Ala Lys Ala Lys Lys Ala Trp Thr
 20 25 30

Gly Lys Leu Arg Phe Ser Met Ala Ala Lys Trp
 35 40

<210> 2833
 <211> 61
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2833

Lys Leu Lys Phe Ile Arg Lys Leu Leu Arg Arg Leu Lys Pro Cys Leu
 1 5 10 15

Leu Val Trp Met Leu Ala Gln Asn Leu Ala Arg Ser Met Gly Leu Tyr
 20 25 30

Ala Lys Arg Glu Ile Tyr Arg Lys Leu Leu Lys Glu Gly Phe Ala Val
 35 40 45

Leu Ala Cys Leu Gln Met Thr Gly Lys Gln Tyr Lys Lys
 50 55 60

<210> 2834
 <211> 91
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2834

Arg Tyr Arg Phe Tyr Gln Arg Leu Leu Lys Tyr Phe Lys Lys Leu Arg
 1 5 10 15

Pro Leu Thr Gly Thr Ala Met Lys Thr Ala Ala Leu Ser Lys Arg Leu
 20 25 30

Gln Ala Pro Gly Asn Ala Phe Val Ala Asp Lys Leu Arg Pro Trp Lys
 35 40 45

Arg Lys Lys Ile Lys Glu Ile Lys Leu Lys Lys Thr Phe Val Glu Leu
 50 55 60

His Leu Asn Met Lys Lys Lys Leu Met Gln Ala Ala Tyr Met Arg Arg
 65 70 75 80

Thr Cys Cys Leu Ala Leu Ile Leu Leu Arg Lys
 85 90

<210> 2835

<211> 56

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2835

Met Leu Lys Phe Leu Pro Lys Phe Trp Lys Arg Phe Gln Lys Lys Arg
 1 5 10 15

Asp Leu Ser Ala Ala Tyr Glu Leu Ala Gln Lys Arg Lys Arg Leu Gly
 20 25 30

Leu Phe Ala His Glu Ala Cys Gly Thr Trp Cys Cys Tyr Ala Thr Leu
 35 40 45

Lys Arg Arg Arg Arg Leu Lys Leu
 50 55

<210> 2836

<211> 38

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2836

Leu Tyr Arg Leu Phe Asn Arg Phe Leu Arg Arg Phe Lys Lys Tyr Leu
1 5 10 15

Arg Asn Ala Arg Ala Ala Leu Ala Gly Ser Ile Lys Lys Cys Gln Gly
20 25 30

Tyr Lys Pro Cys Lys Ala
35

<210> 2837

<211> 41

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2837

Arg Trp Lys Met Leu Lys Lys Met Phe Arg Lys Leu Cys Pro Arg Ala
1 5 10 15

Asn Arg Thr Asp Lys Gln Leu Arg Phe Ala Thr Asn Thr Leu Phe Lys
20 25 30

Leu Tyr Leu Leu Pro Arg Lys Val Leu
35 40

<210> 2838

<211> 41

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2838

Leu Leu Arg Phe Phe His Arg Met Trp Arg Lys Met Lys Arg Asp Leu
1 5 10 15

Lys Cys Lys His Trp Ala Ala His Val Tyr Leu Leu Leu Leu Gln Ala
20 25 30

Lys Leu Trp Arg Arg Ile Arg Gly Leu
35 40

<210> 2839
 <211> 26
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2839

Phe Tyr Lys Leu Leu Arg Arg Ile Ile Lys Tyr Phe Lys Lys Ala Ala
 1 5 10 15

Pro Ala Leu Leu Asp Tyr Arg Lys Lys Thr
 20 25

<210> 2840
 <211> 48
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2840

Lys Tyr Lys Ile Leu Lys Lys Trp Trp Lys Leu Trp His Lys Leu Gln
 1 5 10 15

Arg Asn Glu Leu Arg Ile His Lys Ile Leu Ala Arg Ala Asn His Leu
 20 25 30

Phe Lys Thr Leu Leu Leu Ala Leu Leu Leu Lys Leu Lys Lys Ala His
 35 40 45

<210> 2841
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2841

Lys Tyr Arg Leu Trp Lys Lys Leu Ile Lys Arg Leu Thr Lys Gly Val
 1 5 10 15

Met Ile Ala Asn Cys Leu Ala Met Arg
 20 25

<210> 2842
 <211> 43
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2842

Leu Leu Arg Phe Phe Cys Lys Ile Met Lys Arg Phe Lys Thr Leu Lys
 1 5 10 15

Lys Val Leu Leu Lys Leu Leu Ala Ala His Arg Tyr Ser Ala Ala Glu
 20 25 30

Pro Glu Pro His Leu Tyr Leu Tyr Arg Val Ala
 35 40

<210> 2843
 <211> 43
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2843

Lys Leu Lys Leu Leu Arg Lys Phe Leu Lys Arg Trp Arg Thr Glu Gly
 1 5 10 15

Lys Gln Tyr Lys Tyr Leu Tyr Leu Asp Tyr Ala His Lys Ile Leu His
 20 25 30

Arg Ile Phe Ala Leu Lys Arg Gln Lys Leu Asn
 35 40

<210> 2844
 <211> 91
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2844

Arg Ile Arg Leu Phe Lys Arg Ile Leu Arg Tyr Met Pro Lys Phe Arg
 1 5 10 15

Glu Arg Gln Lys Cys Ser Thr Lys Lys Ala Arg Leu Leu Ala Ala Lys
 20 25 30

Lys Met Ala Glu Ala Tyr Leu Glu Gly Ala Trp Ala Ala Ser Gln Leu
 35 40 45

Lys Ala Ala Arg Leu Glu Ala Arg Ser Arg Glu Pro Ile Pro Arg Ala
 50 55 60

Ile Ala Leu Asn Thr Arg Phe Asn Asn Arg Arg Trp Ala Tyr Arg Phe
 65 70 75 80

Leu Gln Leu Arg Glu Leu Ala Met Met Ala His
 85 90

<210> 2845
 <211> 41
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2845

Lys Leu Arg Tyr Leu Lys Lys Leu Phe Arg Lys Tyr His Lys Gln Ala
 1 5 10 15

Arg Phe Ala His Glu Ile Lys Cys Leu Cys Arg Lys Asn Pro Lys Ala
 20 25 30

Ala Arg Arg Leu Ala Arg Leu Gly Pro
 35 40

<210> 2846
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2846

Leu Leu Arg Phe Trp Arg Lys Ile Ile Arg Arg Leu Arg Arg Ala Leu
 1 5 10 15

Glu Ile Phe Gly Phe Leu Met Ala Leu His Arg Arg Lys

20

25

<210> 2847

<211> 96

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2847

Phe Ile Lys Trp Met Arg Arg Trp Leu Lys Lys Ile Asn Cys Arg Arg
 1 5 10 15

Glu Phe Lys Ala Arg Phe Glu Leu Leu Arg Arg Met Arg Pro Arg Arg
 20 25 30

Arg Thr Gln Leu Lys Lys Leu Cys Gly Ala Lys Lys Ala Asn Leu Cys
 35 40 45

Leu Arg Leu Ala Leu Pro Tyr Lys Arg Phe His His Lys Arg Arg Ala
 50 55 60

Lys Ala Thr Glu Val Asn Leu Arg Leu Arg Ala Phe Trp Gln Leu Gln
 65 70 75 80

Leu Pro Lys Arg Arg Tyr His Ala Leu Cys Ala Asp Arg Val Arg Ala
 85 90 95

<210> 2848

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2848

Phe Phe Arg Phe Leu Thr Lys Leu Leu Lys Arg Phe Lys Gln His Val
 1 5 10 15

Lys Lys Ala Gly Ala Leu Val
 20

<210> 2849

<211> 53

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2849

Lys Tyr Arg Leu Leu Pro Arg Trp Leu Lys Arg Met Lys Lys Arg Leu
1 5 10 15

Asn Leu Cys Leu Lys Ala Lys Gly Ile Arg Leu Asp Lys Gln Leu Asn
20 25 30

Arg Ala Tyr Tyr Met Thr Cys Ser Val Tyr Met Lys His Pro Lys Ala
35 40 45

Thr Lys Leu Ala Leu
50

<210> 2850

<211> 60

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2850

Trp Trp Lys Met Leu Cys Arg Leu Leu Lys Arg Ile Arg Arg Arg Trp
1 5 10 15

Leu Ala Arg Met Ala Lys Ser Arg Leu Leu Lys Leu Gln Ser Arg Ser
20 25 30

Lys Ala Asp Leu Lys Leu Ala Arg Ala Ser Lys Ala Lys His Ile Trp
35 40 45

Asp Arg Ser Leu Lys Ile Arg Leu Ala Phe Leu Thr
50 55 60

<210> 2851

<211> 49

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2851

Lys Leu Arg Phe Ile Lys Lys Phe Trp Arg Arg Leu Arg Thr His Leu
 1 5 10 15

Phe Lys Ala Arg Lys Asn Ala Ala Arg Lys Gly Ala Arg Lys Leu Met
 20 25 30

Lys Leu Ala Leu Glu Thr Asn Gly Ala Lys Phe Tyr Met Ser Val Tyr
 35 40 45

Ile

<210> 2852
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2852

Met Leu Lys Leu Phe Cys Arg Phe Tyr Arg Lys Tyr Arg Arg Leu Lys
 1 5 10 15

Arg Phe Arg Arg Leu Met Leu Ala Ile Leu Leu Leu Leu Arg Leu Gln
 20 25 30

Asn Tyr Phe Asn His Leu Arg Phe
 35 40

<210> 2853
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2853

Arg Leu Lys Leu Leu Lys Lys Leu Phe Lys Leu Leu Arg Thr Thr Val
 1 5 10 15

Val Arg Leu Cys Tyr Arg Ala Cys
 20

<210> 2854

<211> 64
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2854

Leu Ile Arg Leu Phe Lys Lys Met Leu Lys Met Phe Arg Pro Tyr Gly
 1 5 10 15

Arg Ala Ala Asp Ala Arg Ser Cys Leu Asp Ile Ala Asp Tyr Leu Leu
 20 25 30

Val Asp Trp Val Lys Ala Arg Phe Lys Gly Arg Ala Gly Leu Cys Leu
 35 40 45

Ser Glu Ala Lys Arg Ala Asn Arg Ala Ala Val Leu Arg Lys Pro Lys
 50 55 60

<210> 2855
 <211> 95
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2855

Arg Leu Lys Met Leu Lys Lys Tyr Leu Lys Lys Met Arg Thr Lys Val
 1 5 10 15

Lys Cys His Arg Pro Met Ile Ala Arg Lys Pro Pro Lys Arg Asn Ala
 20 25 30

Arg Ala Phe Leu Ala Arg His Ala Ala Ala Tyr Lys Asp Met Glu Ala
 35 40 45

Ala Lys Ser Arg His Arg Phe Met Arg Leu Ile Asp Asp Arg Ile Tyr
 50 55 60

Lys Pro Arg Arg Arg Lys Ile Ala Arg Leu Ile Leu Cys Met Asp Leu
 65 70 75 80

Ser Arg Pro Ala Glu Arg Asp Leu Lys Gln Tyr Ser Ala His Leu
 85 90 95

<210> 2856
 <211> 38
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2856

Phe Leu Arg Ile Leu Gln Lys Leu Phe Lys Arg Leu Gln Lys Lys Ala
 1 5 10 15

Ala Lys Leu Ala Leu Met Tyr Lys Arg His Asn Leu Pro Pro Trp Ile
 20 25 30

Ala Phe Thr Arg Ala Leu
 35

<210> 2857
 <211> 86
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2857

Ile Ile Lys Phe Phe Cys Lys Ile Trp Lys Leu Met Thr Asn Lys Met
 1 5 10 15

Ala Arg Lys Arg Phe Tyr Leu Lys Ala Arg Ala Ser Pro Ala Ala Leu
 20 25 30

Ala Leu Ala Met His Ser Ala Ala Lys Lys Val Thr Val Arg Ala Leu
 35 40 45

His Glu Lys Arg Glu Leu Leu Val Ala Leu Phe Arg His Leu Leu Phe
 50 55 60

Arg Phe Pro Lys Tyr Lys Leu Ala Leu Ala Trp Gly Glu Arg Leu Asn
 65 70 75 80

Met Arg Leu Gln Arg Glu
 85

<210> 2858

<211> 73
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2858

Lys Leu Arg Phe Trp Arg Arg Trp Met Lys Leu Leu Lys Pro Tyr Leu
 1 5 10 15

Tyr Arg Ala Arg Gly Ser Asn Gln Tyr Pro Lys Leu Asn Leu Ala Ala
 20 25 30

Lys Ala Ile Trp Gly Val Lys Arg Ile Asn Val Lys Ala Val Ser His
 35 40 45

Arg Glu Leu Leu Asp Leu Lys Leu Arg Ala Val Leu Ala Lys His Glu
 50 55 60

Lys Arg His Val Cys Arg Ala Leu Leu
 65 70

<210> 2859
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2859

Tyr Phe Arg Phe Leu Lys Lys Trp Tyr Lys Arg Leu Lys Arg Lys Ile
 1 5 10 15

Leu Ala Ala Val Leu Gln Trp
 20

<210> 2860
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2860

Met Leu Lys Leu Leu Ser Lys Phe Tyr Lys Arg Ile Arg Arg Pro Met

1 5 10 15

Gly Lys Thr Ala Leu
20

<210> 2861
<211> 25
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 2861

Leu Leu Lys Met Tyr Lys Arg Trp Tyr Lys Leu Tyr Asn Thr Arg Ile
1 5 10 15

Tyr Leu Lys Leu Ala Lys Gln Gln Arg
20 25

<210> 2862
<211> 76
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 2862

Leu Ile Lys Phe Leu Arg Arg Trp Leu Arg Lys Leu Lys Thr Gly Asn
1 5 10 15

Arg Ala Pro Met Arg Glu Arg Asp Arg Tyr Arg Arg Val Ala Ile Gln
20 25 30

Cys Ala Arg Leu Thr Leu Arg Ala Leu Met Phe Thr Phe Arg Ala Ala
35 40 45

Gln Phe Leu Arg Lys Tyr Ala Ala Gly Pro Ala Val Val Asp Arg Ala
50 55 60

Lys Ala Arg Ile Ala Arg Lys Lys Tyr Cys Tyr Arg
65 70 75

<210> 2863
<211> 48
<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2863

Met Tyr Lys Leu Leu Arg Arg Phe Ile Lys Arg Phe Gln Pro Gln Asn
1 5 10 15

Tyr Ile Ala Ala Asp Ala Leu Val Phe Ala Leu Ala Leu Lys Lys Tyr
20 25 30

Phe Arg Arg Lys Ala Leu Lys Ala Arg Arg Leu Lys Arg Ile Phe Thr
35 40 45

<210> 2864

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2864

Leu Leu Lys Leu Leu Lys Lys Tyr Leu Lys Lys Met Lys Gln Ala Ile
1 5 10 15

Ala Pro Asn Leu Gln Glu Ser Arg Thr Ala Leu Ala Val Lys Ser Lys
20 25 30

Leu Ile Trp
35

<210> 2865

<211> 58

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2865

Tyr Phe Lys Tyr Leu Ser Lys Leu Leu Lys Arg Trp Arg His Ala Glu
1 5 10 15

Ala Leu Tyr Gln Arg Ala Ala Leu Leu Asp Lys Leu Lys Arg Lys Asp
20 25 30

Met Lys Gln Leu Ala His Leu Glu Phe Leu Phe His Trp Lys Leu Leu
 35 40 45

Gly Ala Thr Ser Gln Asp Thr Arg Lys Arg
 50 55

<210> 2866
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2866

Phe Phe Lys Leu Met Arg Arg Trp Trp Arg Phe Leu Lys His His Gln
 1 5 10 15

Ala Arg Lys Ala Glu Ala Ala Arg
 20

<210> 2867
 <211> 42
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2867

Lys Met Arg Leu Phe Arg Lys Phe Leu Arg Lys Leu Arg Ser His Phe
 1 5 10 15

Glu Met Trp Asp Met Gln Leu Leu Arg Leu Gln Gln Lys Ala Ala Ser
 20 25 30

Tyr Val Leu Lys Arg Leu Gln Lys Ala Arg
 35 40

<210> 2868
 <211> 64
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2868

Tyr Met Arg Leu Trp Lys Arg Met Phe Lys Leu Met Arg His Lys Arg
 1 5 10 15

Tyr Ala Met Gly Thr Pro Lys Leu Lys Ala Ser Ile Leu Leu Leu Arg
 20 25 30

Ile Ala Lys Asn Cys Lys Arg Gly Arg Arg Cys Thr Gly Arg Trp Asp
 35 40 45

Leu Val Arg Arg Asn Ala Lys Leu Ala Lys Ala Leu Arg Trp Leu Gln
 50 55 60

<210> 2869

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2869

Ile Leu Arg Leu Phe Arg Lys Tyr Phe Lys Arg Leu Arg His Met Tyr
 1 5 10 15

His Ala Lys Arg Pro Ala Ala Thr Leu Trp Arg Ala
 20 25

<210> 2870

<211> 54

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2870

Leu Phe Arg Phe Phe Arg Arg Trp Leu Arg Lys Leu Asn Lys Arg Asp
 1 5 10 15

Met Lys Arg Met Thr Leu Ala Arg Ala Leu Asp Val Lys Leu Ala Arg
 20 25 30

Gln Ala Val Ser Tyr Ile Cys Lys Cys Glu Gln Ala His Arg Val Ala
 35 40 45

Ala Ser Ala Arg Tyr Leu

50

<210> 2871
 <211> 31
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2871

Leu Leu Lys Leu Ile Thr Arg Met Leu Lys Lys Tyr Arg Lys Ile Tyr
 1 5 10 15

Ala His Arg Phe Ala Ile Leu Pro Leu Lys Arg Glu Leu Val Asp
 20 25 30

<210> 2872
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2872

Arg Ile Arg Leu Phe Arg Arg Leu Leu Lys Met Phe His Cys Asp Arg
 1 5 10 15

His Ala Thr Ala Arg Leu Lys Ala Ala Ala Asp Leu Thr
 20 25

<210> 2873
 <211> 50
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2873

Arg Phe Arg Met Phe Arg Lys Leu Tyr Arg Leu Ile Cys Lys Leu Ala
 1 5 10 15

Leu Met Trp Ala Trp Ala Cys Thr Leu Met Arg Ala Arg Ile Glu Arg
 20 25 30

Ala Arg Pro Ala Leu His Arg Lys Trp Leu Cys Gln Leu Asn Ala His

35

40

45

Trp Ala
50

<210> 2874
<211> 29
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 2874

Leu Trp Arg Trp Leu Thr Lys Ile Trp Lys Arg Tyr Gln Lys Lys Asp
1 5 10 15

Phe Ala Ile Leu Leu Ala Met Arg His Arg Ala His Lys
20 25

<210> 2875
<211> 48
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 2875

Met Leu Lys Met Tyr Pro Lys Leu Leu Arg Phe Met Gln Lys Ala Ala
1 5 10 15

Thr Leu Arg Phe Lys Lys Arg Asn Tyr Trp Asp Lys His Ala Phe Cys
20 25 30

Ile Lys Lys Ser Gly Leu Glu Arg Leu Leu Lys Leu Leu Pro Leu Leu
35 40 45

<210> 2876
<211> 80
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 2876

Phe Leu Lys Leu Leu Arg Lys Leu Tyr Arg Lys Phe Lys Lys Lys Ser

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Arg Tyr Arg Trp Leu Arg Arg Tyr Leu Lys Ile Phe Lys Ser Glu Phe
1          5          10         15

Ser Ile Ala Ala Cys Tyr Glu Leu Arg Ala Thr Ala Arg Cys Arg Lys
          20          25          30

Pro Lys Arg Gln Leu Arg Ala Val
      35          40

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Lys Phe Arg Tyr Trp Thr Arg Leu Phe Arg Arg Leu Arg Thr Leu Met
1 5 10 15

His Ile Leu Ala Ala Lys Arg Leu Glu Pro Arg Ala
20 25

<210> 2879
 <211> 79
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2879

Trp Tyr Lys Leu Leu Thr Arg Leu Leu Lys Lys Phe Lys Lys Ala His
 1 5 10 15

Ala Lys Lys Ala Glu Ala Leu Val Phe Asp Arg Leu Lys Tyr Thr Gln
 20 25 30

Ile Asn Leu Lys Ala Arg Val Ala Lys Trp Asn Asn Val Phe Ser Gly
 35 40 45

Arg Trp Met Ala Lys Arg Ser Arg Lys Ala Gly Lys Arg Arg Trp Leu
 50 55 60

Asn Asp Ser Lys Trp Thr Ala Leu Arg Lys Leu Asn Val Arg Arg
 65 70 75

<210> 2880
 <211> 53
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2880

Met Leu Lys Leu Phe Thr Lys Ile Met Arg Met Tyr Lys Arg Arg Val
 1 5 10 15

Lys Lys Val Lys Cys Leu Asn Thr Lys Tyr Leu Arg Ile Met Ala Met
 20 25 30

Glu Lys Lys Pro Arg Lys Thr Phe His Leu Leu His His Ala Ala Leu
 35 40 45

Leu Leu Ala Ala Leu
 50

<210> 2881

<211> 37
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2881

Leu Leu Arg Tyr Tyr Pro Lys Leu Phe Lys Leu Ile Lys Ser Ala Pro
 1 5 10 15

Lys His Ser Arg Leu Phe Arg Gln Leu Asn Trp Lys Ala Ala Tyr Ser
 20 25 30

Ala Ala Lys Lys Lys
 35

<210> 2882
 <211> 54
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2882

Leu Tyr Arg Tyr Leu Arg Arg Trp Leu Lys Leu Leu Arg Arg Arg Arg
 1 5 10 15

Ala Trp Glu Trp Phe Thr Tyr Leu Arg Thr Leu Ile Met Arg Val Lys
 20 25 30

Leu Lys Gly Ala His Cys His Val Phe Leu Trp Leu Arg Ala Leu Arg
 35 40 45

Glu His Val Asn Leu Ala
 50

<210> 2883
 <211> 27
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2883

Leu Leu Arg Met Phe Lys Lys Leu Phe Arg Arg Phe Arg Pro Ala Pro

1 5 10 15

Leu Phe Arg Arg His Lys Ala Gln Glu Leu Trp
20 25

<210> 2884
<211> 47
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 2884

Met Met Lys Phe Leu Arg Arg Phe Phe Lys Arg Leu Arg Lys Gln Lys
1 5 10 15

Ala Ser Leu Arg Ala Lys Leu Met Lys Ala Leu Trp Asp Asn Trp Met
20 25 30

Lys Arg Thr Cys Arg Ser Met Pro Thr Ile Leu Ala Ser Lys Ala
35 40 45

<210> 2885
<211> 29
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 2885

Lys Leu Arg Ile Phe Arg Lys Phe Met Arg Leu Leu Thr Arg Lys Asn
1 5 10 15

Arg Arg Phe Ala Asp Gly Leu Leu Cys Leu Cys Gly Phe
20 25

<210> 2886
<211> 36
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 2886

Arg Ile Lys Leu Phe Pro Lys Leu Ile Arg Met Phe Cys Cys Ala Leu


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<210> 2887
<211> 22
<212> PRT
<213> Artificial Sequence
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<400> 2887

His Leu Arg Lys Leu Leu
20

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<210> 2888
<211> 21
<212> PRT
<213> Artificial Sequence
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<220>
<223> Computer-generated peptide variant

<400> 2888

Arg Leu Arg Leu Met Ser Lys Leu Phe Arg Arg Leu Asn Lys Cys Asp
1 5 10 15

Gln Arg Thr Asn Leu
20

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<210> 2889
<211> 43
<212> PRT
<213> Artificial Sequence
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<220>
<223> Computer-generated peptide variant

<400> 2889

Leu Leu Arg Ile Trp Ser Arg Leu Leu Lys Lys Met Arg Asn Ala Lys

1 5 10 15

Asn Ala Arg Pro Leu Ala Arg Ser Arg Ile Arg Met Lys Gly Glu Ser
 20 25 30

Val Tyr Ile Lys Arg Leu Leu Asn Leu Met Gln
 35 40

<210> 2890
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2890

Lys Ile Lys Phe Met Thr Lys Ile Phe Arg Met Phe Arg Lys Ala Arg
 1 5 10 15

Leu Ser Leu Lys Leu Pro Ala Ser Leu Leu Arg Asn Leu Ala His Lys
 20 25 30

Phe Phe Leu
 35

<210> 2891
 <211> 72
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2891

Lys Leu Arg Phe Phe Asn Lys Tyr Phe Lys Arg Ile Arg Cys Met Ala
 1 5 10 15

Lys Leu Gly Arg Lys Ala Leu Phe Ala Glu Gln Tyr Asp Ala Lys Thr
 20 25 30

Gly Pro Leu Ala Lys Ala Pro Val Leu Leu Lys Phe Arg Arg Ser Leu
 35 40 45

Gln Arg Lys Asn Asp Leu Lys Cys Tyr Asp Ala Leu Phe Met Arg Ala
 50 55 60

Trp Arg Thr Lys Leu Glu Lys Leu
65 70

<210> 2892
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 2892

Ile Met Lys Phe Ile Arg Lys Leu Phe Lys Phe Leu Gln Cys Arg Val
1 5 10 15

Met Lys Lys Leu Ala Leu Arg His Lys Leu Trp Leu Cys His Ala Arg
20 25 30

<210> 2893
<211> 34
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 2893

Phe Phe Lys Trp Leu Arg Lys Ile Phe Arg Leu Leu Arg Lys Thr Leu
1 5 10 15

Arg Arg Cys Leu Arg Leu Val Trp Tyr Lys Asp Ala Asp Arg Phe Ala
20 25 30

Gly Ala

<210> 2894
<211> 29
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 2894

Leu Tyr Arg Leu Phe Lys Arg Trp Tyr Arg Lys Met Lys Lys His Ala
1 5 10 15

Leu Leu Thr Arg Glu Leu Leu Lys Leu Asp Lys Pro Asn
 20 25

<210> 2895
 <211> 45
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2895

Lys Leu Lys Tyr Trp Lys Arg Phe Phe Lys Arg Trp Arg Lys Tyr Arg
 1 5 10 15

Phe Ala Pro Ala Tyr Arg Lys Val Leu Lys Lys Asp Leu Gly Arg Ile
 20 25 30

Leu Phe Ala Met Leu Ser Asn Leu Leu Pro Trp Gly Ala
 35 40 45

<210> 2896
 <211> 43
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2896

Lys Met Arg Leu Leu Pro Arg Leu Ile Lys Arg Phe Lys Asn Lys Lys
 1 5 10 15

Lys Phe Leu Ala Pro Asn Ser Leu Lys Lys Leu Leu Asp Trp Gly Leu
 20 25 30

Leu Leu Tyr Arg Leu Ala Arg Tyr Trp His Leu
 35 40

<210> 2897
 <211> 97
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2897

Tyr Leu Lys Phe Met Arg Arg Trp Trp Arg Arg Ile Lys Lys Ala Asn
 1 5 10 15

Ala Asp Phe Cys Leu Tyr Lys Leu Arg Arg Lys Leu Leu Ile Ala Lys
 20 25 30

Leu His Ala Ile Asn Ala Leu Arg Asn Lys Gly Lys Ser Lys Leu Arg
 35 40 45

Leu Arg Glu Leu His Thr Tyr Ser Arg Arg Ala Lys Arg His Arg Met
 50 55 60

Cys Leu Ala Cys Ala Asn Ser Asp Arg Cys Cys Leu Phe Leu Arg Arg
 65 70 75 80

Leu Leu Leu Ile Ile Ala Ile Arg Asp Met Leu Lys Val Ala Lys Asn
 85 90 95

Asp

<210> 2898
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2898

Lys Phe Arg Leu Phe Arg Arg Leu Tyr Arg Arg Leu Gln His Ala Ala
 1 5 10 15

Arg Phe Met His Pro Arg Pro Lys Thr Leu Ala Lys Lys Ala Leu Leu
 20 25 30

<210> 2899
 <211> 45
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2899

Arg Leu Lys Phe Phe Arg Lys Trp Leu Arg Arg Trp Cys Ser Leu Leu

1 5 10 15

Ile Arg Ile Leu Phe Arg Leu Pro Arg Leu Arg Trp Lys Leu Lys Leu
20 25 30

Gly Pro Lys Lys Arg Ala Cys Met Val Trp Ser Phe Leu
35 40 45

<210> 2900

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2900

Ile Met Arg Leu Tyr Asn Arg Ile Phe Arg Tyr Leu Pro Lys Leu Thr
1 5 10 15

Leu Lys Val Leu Ala Leu Lys Leu Ala Arg Lys Lys Lys Leu Leu Ser
20 25 30

<210> 2901

<211> 44

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2901

Ile Leu Lys Leu Leu His Lys Met Phe Lys Arg Leu Asn Arg Thr Lys
1 5 10 15

Leu Lys Ala Leu Ala Leu Gln Ile Ala Ile Gln Cys Ala Arg Asp Gln
20 25 30

Ala Val Lys Cys Asn Leu Lys Lys Lys Met Arg Asp
35 40

<210> 2902

<211> 57

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2902

Lys Ile Arg Leu Leu Lys Lys Met Phe Lys Leu Phe Cys Thr Thr Ala
 1 5 10 15

Leu Arg Leu Ile Leu Lys Arg Trp Arg Gln Arg Leu Gln Ala Thr Trp
 20 25 30

Arg Trp Ile Leu Leu Glu Gly Asn Ala Cys Ala Tyr Arg Lys Leu Trp
 35 40 45

Leu Arg Glu Ala Ala Ala Thr Arg Tyr
 50 55

<210> 2903

<211> 31

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2903

Trp Leu Arg Phe Tyr Lys Arg Leu Tyr Arg Ile Leu His Lys Arg Ala
 1 5 10 15

Gln Val Ser Val Tyr Ser Leu Lys Arg Ala Leu Ala Leu Ala Lys
 20 25 30

<210> 2904

<211> 62

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2904

Lys Leu Arg Met Leu Arg Arg Phe Trp Arg Arg Phe Arg Pro Ala Glu
 1 5 10 15

Leu Ala Asn Leu Leu Arg Arg Met Leu Leu Arg Gln Leu Ala Trp Leu
 20 25 30

His Lys Asp His Thr Leu Gln Ala Met Lys Gln Tyr Val Leu Lys Thr
 35 40 45

Lys Arg Leu Leu Lys Leu Thr Val Lys Leu Ala Met Tyr Lys
 50 55 60

<210> 2905
 <211> 56
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2905

Arg Leu Lys Leu Leu Arg Lys Phe Leu Arg Lys Leu His Lys Arg Val
 1 5 10 15

Ala Ala Leu Ser Glu Val Met Asp Lys Phe Thr Leu Ala Lys Ala Arg
 20 25 30

Ala Lys Ser Asp Lys Arg Gly Arg Ile Ala Thr Asp Ser Phe Glu Thr
 35 40 45

Met Lys His Leu Arg Ala Phe Arg
 50 55

<210> 2906
 <211> 62
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2906

Phe Leu Lys Leu Ile Lys Lys Leu Met Lys Arg Tyr Arg Lys Asn Val
 1 5 10 15

Ala Ala Gln Glu Phe Arg Leu Lys Leu Lys Lys Gly Arg Arg Leu Met
 20 25 30

Leu Ala Arg Arg Ala Val Arg Lys Val His His Leu Asp Met Leu Asp
 35 40 45

Lys Gly Leu Ala Ile Trp Ala Pro Leu Gly Ala Ala Arg Leu
 50 55 60

<210> 2907

<211> 31
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2907

Lys Leu Lys Phe Leu Ser Arg Trp Phe Arg Lys Leu Asn Arg Pro Ala
 1 5 10 15

Met His Ala Lys Leu Arg Ala Asp Gly Phe Lys Leu Gln Ala His
 20 25 30

<210> 2908
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2908

Phe Phe Arg Trp Ile Arg Lys Leu Leu Lys Arg Leu Ser His Leu Lys
 1 5 10 15

Ala Leu Val Asn Phe Arg Arg Ile Leu Thr Ala Leu Arg Glu Asn Ala
 20 25 30

Leu Lys Lys Ala Tyr Ile Ser Ala
 35 40

<210> 2909
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2909

Arg Phe Lys Phe Leu Thr Lys Leu Leu Arg Leu Phe Lys Lys Ile Lys
 1 5 10 15

Ser Tyr Asn Phe Ala Tyr Ala
 20

<210> 2910

<211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2910

Trp Phe Arg Trp Leu Arg Lys Phe Leu Arg Leu Met Lys Asn Asn Arg
 1 5 10 15

Ala Cys Met Leu
 20

<210> 2911
 <211> 27
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2911

Leu Leu Lys Leu Leu Arg Arg Phe Phe Lys Lys Ile Lys Arg Lys Gln
 1 5 10 15

Ala Glu Lys Leu Gly Val Asn Ala Asp Val Ala
 20 25

<210> 2912
 <211> 31
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2912

Tyr Leu Arg Leu Trp Arg Lys Leu Leu Arg Arg Tyr Lys Lys Asp His
 1 5 10 15

Arg Ala Lys Tyr Pro Asp Leu Ala His Ile Ile Lys Leu Arg Ser
 20 25 30

<210> 2913
 <211> 59
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2913

Leu Trp Lys Tyr Met Pro Arg Leu Met Arg Leu Trp Arg Lys Pro Lys
 1 5 10 15

Ala Glu Phe Lys Leu Cys Leu Leu Lys Asn Met Ala Asn Lys Ala Phe
 20 25 30

Glu Gln Gly Lys Arg His Arg Lys Lys Ala Arg Trp Gly Ser Leu Leu
 35 40 45

Leu Arg Lys Tyr Ala Ala Asn Ala Leu Gly Arg
 50 55

<210> 2914

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2914

Leu Phe Arg Phe Trp Cys Lys Leu Phe Arg Arg Phe Thr Thr Lys Leu
 1 5 10 15

Lys Leu Leu Leu Ala Ala
 20

<210> 2915

<211> 47

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2915

Lys Phe Lys Leu Met Lys Lys Leu Phe Lys Arg Ile Gln Lys Val His
 1 5 10 15

Leu Gly Leu Lys Leu Gly Glu Glu Leu Glu Cys Arg Leu Leu Ala Lys
 20 25 30

Ala Ser Arg Arg Trp Ala Gly Leu Arg Cys Ala Arg Gly Cys Arg

35

40

45

<210> 2916

<211> 75

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2916

Arg Ile Lys Leu Met Arg Arg Tyr Ile Arg Lys Leu Pro Lys Gln Gly
 1 5 10 15

Thr Arg Lys Lys Thr Ala Thr Ala Ala Leu Gln Leu Ala Ala Arg Leu
 20 25 30

Leu Ala His Asp Lys Phe Arg Leu Ala Cys Pro Leu Gly Tyr Leu Arg
 35 40 45

Glu Arg Asp Asn Lys Thr Gln Arg Phe Ala Met Lys Thr Lys Ala Arg
 50 55 60

Leu Lys Ala Ser Arg Arg Glu Asp Asp Asn Ala
 65 70 75

<210> 2917

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2917

Leu Phe Lys Phe Leu Lys Arg Leu Phe Lys Lys Leu His Asn Leu Ala
 1 5 10 15

Tyr Arg Leu Arg Arg Leu Lys Lys His Glu Leu Glu
 20 25

<210> 2918

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2918

Met Leu Lys Leu Leu Cys Arg Leu Phe Lys Arg Phe Lys Lys Arg Gln
1 5 10 15

Ala Ala Leu Glu Ala Leu Asp Arg Arg Asp Arg Tyr Thr Arg Leu His
20 25 30

Arg Lys His Pro Leu Cys Cys Met
35 40

<210> 2919

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2919

Arg Ile Lys Trp Trp Lys Lys Met Leu Lys Lys Leu Ser Lys Val Arg
1 5 10 15

Ala Ala Leu Met Gln Ala Leu Lys Tyr Leu Lys Lys Trp Pro Ile Arg
20 25 30

Ala

<210> 2920

<211> 61

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2920

Lys Tyr Lys Leu Phe Gln Arg Leu Ile Lys Arg Met Thr Lys Lys Gly
1 5 10 15

Leu Lys Arg Ala Leu Ala Pro Ser Lys Lys Met Gly Leu Pro Phe Arg
20 25 30

Asn Pro Leu Leu Ala Tyr Ala Cys Ala Arg Glu Ala Lys Val Leu Asn
35 40 45

Arg Leu Val Met Glu Phe Lys Ala Gly Ala Pro Leu Leu
 50 55 60

<210> 2921
 <211> 64
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2921

Phe Leu Lys Phe Ile Gln Arg Ile Leu Lys Arg Trp Lys Cys Gln Leu
 1 5 10 15

Leu Cys Ser Asp Ala Arg Lys Ala Ala Ala Lys Ala Arg Ser Leu
 20 25 30

Lys Cys Ala Cys Trp Gln Tyr Lys Trp Lys Gly Arg Leu Tyr Arg Ala
 35 40 45

Ser Ala Leu Cys Lys Ala Tyr Lys Ala Gln Arg Asn Asp Lys Leu Phe
 50 55 60

<210> 2922
 <211> 54
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2922

Arg Phe Arg Ile Leu Lys Lys Phe Leu Lys Arg Met Lys Gln Gln Arg
 1 5 10 15

Lys Gln Phe Leu Thr Asn Trp Arg Ala Pro Leu Thr Gly His Leu Phe
 20 25 30

Arg Ala Lys Ile Leu Arg Pro Gly Arg Leu Leu Leu Leu Lys Asp His
 35 40 45

Leu Ala Thr Asp Lys Arg
 50

<210> 2923

<211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2923

Arg Met Lys Trp Tyr Gln Arg Phe Leu Arg Lys Ile His Pro His Ala
 1 5 10 15

Leu Leu Asp Asn Lys Asp Trp Lys Ala Leu Leu Arg Lys Leu Cys Lys
 20 25 30

Arg Thr Lys Leu
 35

<210> 2924
 <211> 39
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2924

Lys Leu Arg Tyr Tyr Lys Lys Leu Phe Arg Lys Leu Arg Arg Leu Arg
 1 5 10 15

Cys Gly Leu Lys Lys His Ile Ala Ala Met Leu Tyr Glu Thr Asn Gly
 20 25 30

Ala Met Ile Ala Val Lys Thr
 35

<210> 2925
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2925

Arg Met Arg Met Leu Thr Lys Phe Ile Arg Phe Tyr Arg Arg Ala Arg
 1 5 10 15

Leu Ala Ala Asp Arg Leu Ala Glu Arg Arg Ala Cys Leu

20

25

<210> 2926
 <211> 46
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2926

Ile Met Lys Phe Met Arg Arg Ile Ile Arg Tyr Ile Arg Lys Leu Leu
 1 5 10 15

Leu Arg Arg Ala Arg Ser Met Met Thr Met Lys His Gly Leu Met Leu
 20 25 30

Leu Pro Leu Gln Ala Ala Arg Lys Leu Leu Lys Ala Ile Ala
 35 40 45

<210> 2927
 <211> 27
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2927

Lys Ile Lys Leu Leu His Arg Leu Leu Lys Phe Ile Arg Lys Arg Ile
 1 5 10 15

Ser Val Ala Glu Arg Gly Leu Ala Arg Arg Leu
 20 25

<210> 2928
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2928

Leu Phe Arg Ile Met Lys Lys Phe Tyr Arg Leu Leu Pro Arg Leu Lys
 1 5 10 15

Glu Leu Lys Cys Leu Met Ser Lys His

20

25

<210> 2929
 <211> 49
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2929

Lys Leu Lys Leu Leu Lys Arg Met Leu Lys Leu Tyr Arg Arg Lys Ser
 1 5 10 15

Arg Asn Trp Asn Ala Trp Leu Ser Tyr Met Lys Met Pro Leu Pro Leu
 20 25 30

Ala Asp Leu Leu Arg Lys Ala Gln Ile Arg Leu Gly Phe Phe Thr Asn
 35 40 45

Lys

<210> 2930
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2930

Leu Leu Lys Phe Met Ser Lys Leu Phe Arg Leu Leu Arg Arg Thr Glu
 1 5 10 15

Val Lys Pro Arg Lys Leu Phe
 20

<210> 2931
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2931

Met Met Arg Leu Tyr His Arg Leu Phe Lys Lys Met Arg Thr Trp Ala

1 5 10 15

Leu Leu Asn Arg
20

<210> 2932
<211> 25
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 2932

Leu Trp Lys Met Leu Cys Arg Tyr Tyr Lys Arg Leu Arg Lys Leu Arg
1 5 10 15

Trp Val Ala Asn Val Trp Lys Ala Pro
20 25

<210> 2933
<211> 29
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 2933

Met Leu Lys Met Phe Lys Arg Tyr Trp Arg Leu Ile Arg Ser Arg Ala
1 5 10 15

Tyr Trp Pro Ala Arg Leu Arg Ala Leu Val Tyr Arg Asp
20 25

<210> 2934
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 2934

Arg Ile Lys Trp Met Cys Lys Tyr Leu Lys Tyr Met Arg Arg Lys Gln
1 5 10 15

Leu Leu Leu Ala Asp Gln Arg Arg Leu Leu Leu Lys Leu Lys Glu Ala

20

25

30

Lys Ala Thr Ser Lys Ile Pro Cys
 35 40

<210> 2935

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2935

Arg Leu Arg Leu Leu Arg Arg Ile Phe Arg Tyr Tyr Arg Arg Asn Leu
 1 5 10 15

Met Asn Asp Leu
 20

<210> 2936

<211> 82

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2936

Leu Trp Arg Leu Phe Arg Arg Trp Leu Lys Arg Met Arg Lys Ala Lys
 1 5 10 15

Lys Lys Leu Ala Arg Lys Asn Cys Arg Cys Lys Cys Ala Gln Arg Pro
 20 25 30

Arg Met His Ile His Asn Arg Arg Ala Arg Phe Ala Pro Met Arg Lys
 35 40 45

Tyr Pro Lys Asp Trp Val Lys Tyr Thr Trp Ala Lys Ala Arg Tyr Thr
 50 55 60

His Arg Gln Leu Ala Ala Arg Ala Arg Cys Thr Leu Leu Cys Ala Ala
 65 70 75 80

Ala Val

<210> 2937
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2937

Trp Leu Arg Phe Ile Arg Arg Leu Tyr Arg Lys Leu Lys Arg Arg Met
 1 5 10 15

Leu Leu Ser Ile Glu Leu Lys Leu Ala His Val Phe
 20 25

<210> 2938
 <211> 83
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2938

Leu Leu Arg Phe Phe Ser Arg Leu Leu Lys Arg Leu Asn Arg Lys Leu
 1 5 10 15

Leu Gly Ala Arg Ala Glu Ala Ser Thr Ala His Gln Lys Ser Tyr Gly
 20 25 30

Asn Glu Val Phe Ala Arg Ala Ala Arg Arg Leu Leu Trp Arg Arg Leu
 35 40 45

Ala Val Arg Lys Leu Lys Glu Asn Glu Thr Thr Ala Met Ala Tyr Trp
 50 55 60

Ser Cys Pro Leu Tyr Ala Lys Lys Ala Met Tyr Glu Cys Cys Ala Leu
 65 70 75 80

Arg Val Arg

<210> 2939
 <211> 27
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2939

Phe Leu Lys Leu Leu Lys Lys Tyr Ile Lys Arg Met Arg Asn Trp Ala
 1 5 10 15

Phe Met Ala Leu Val Phe Val Lys Arg Ala Thr
 20 25

<210> 2940

<211> 70

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2940

Arg Phe Arg Ile Leu Cys Arg Trp Trp Arg Leu Phe Thr Arg Lys Arg
 1 5 10 15

Ala Ala Leu Glu Ile Ala Asn His Leu Trp Tyr Ala Lys Tyr Glu Arg
 20 25 30

Lys Arg His Arg Gln Arg Arg Leu Ala Arg Trp Arg Glu Cys Phe Lys
 35 40 45

Arg Leu Ser Asn Leu Arg Lys Pro Arg Lys Arg Pro Leu Leu Tyr Leu
 50 55 60

Thr Asp Leu Pro Met Phe
 65 70

<210> 2941

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2941

Leu Tyr Arg Phe Met Thr Lys Leu Ile Arg Leu Leu Lys Thr Asn Pro
 1 5 10 15

Ala Ala Ile Leu Ala Ile Arg Arg

20

<210> 2942
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2942

Lys Leu Lys Ile Leu Thr Lys Trp Ile Lys Ile Leu Pro Arg Pro Leu
 1 5 10 15

Ala Pro Lys Phe
 20

<210> 2943
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2943

Arg Phe Lys Phe Phe Gln Arg Leu Met Arg Leu Leu His Lys Val Tyr
 1 5 10 15

Lys Ala Leu Thr Leu Arg Val Ala
 20

<210> 2944
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2944

Arg Tyr Lys Leu Leu His Arg Trp Phe Arg Lys Met Pro Arg Cys Leu
 1 5 10 15

Leu Ala Arg Glu Met Ala Lys
 20

<210> 2945

<211> 50
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2945

Phe Phe Arg Leu Ile Cys Lys Phe Leu Lys Arg Tyr Pro Lys Lys His
 1 5 10 15

Cys Ala Leu Lys Lys Asp Ala Leu Ile Leu Leu Lys Gly Lys Ala Lys
 20 25 30

Leu Asn Lys Ser Ala Cys Ala Lys Gln Val Leu Pro Ala Arg Trp Tyr
 35 40 45

Pro Arg
 50

<210> 2946
 <211> 31
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2946

Lys Met Arg Leu Trp Lys Arg Ile Leu Arg Arg Leu Arg Arg Ala Lys
 1 5 10 15

Leu Ala Tyr Cys Asn Lys Thr Glu Met His Leu Ala Cys Arg Leu
 20 25 30

<210> 2947
 <211> 43
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2947

Arg Leu Lys Leu Trp Arg Arg Phe Phe Lys Lys Leu Lys Arg Ala Val
 1 5 10 15

Ala Asp Phe Arg Lys Met Arg Thr Arg Val Leu Phe Cys Thr Arg Trp

20

25

30

Leu Thr Leu Ala Ala Ile Tyr Trp Lys Ser Gly
 35 40

<210> 2948

<211> 81

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2948

Trp Phe Lys Leu Trp Arg Arg Phe Leu Arg Trp Leu Lys Arg Lys Lys
 1 5 10 15

Gly Met Val Ala Lys Leu Ala Ala Thr Gln Arg Leu His Ala Gln Ala
 20 25 30

Cys His Glu Glu Arg Leu Gln Val Cys Lys Leu Ala Arg Glu Lys Ala
 35 40 45

Asp Ile Gly Arg Arg Arg Glu Lys Thr Leu Lys Trp Leu Pro Glu Lys
 50 55 60

Ala Met Leu Cys Arg Arg Tyr Arg Ala Ala Ile Lys Ala Ser Phe Gly
 65 70 75 80

Leu

<210> 2949

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2949

Tyr Leu Arg Trp Phe Arg Arg Leu Leu Lys Tyr Ile Gln Lys Ala Val
 1 5 10 15

Tyr Lys Ala Leu Lys Ala Leu Gly Lys Thr Leu Gly Leu Glu Arg Lys
 20 25 30

<210> 2950
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2950

Tyr Phe Arg Met Leu Lys Lys Tyr Ile Lys Phe Leu Arg Lys Ala Ala
 1 5 10 15

Val Ala Lys His Leu Ala Ala Leu Arg Leu Ile His Leu Lys Val Leu
 20 25 30

Met Arg Val Gly Leu Arg Arg Leu
 35 40

<210> 2951
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2951

Arg Tyr Arg Leu Met Thr Lys Leu Ile Arg Arg Leu Arg Gln Arg Ser
 1 5 10 15

Pro Thr Ala Ser Ala Ala
 20

<210> 2952
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2952

Arg Phe Lys Phe Met Lys Lys Ile Leu Lys Tyr Leu Lys Lys Leu Lys
 1 5 10 15

Thr Arg Leu Trp Ala Lys Lys Ala Leu Ala Gly Ala
 20 25

<210> 2953
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2953

Leu Tyr Arg Leu Phe Gln Lys Leu Leu Arg Lys Met Gln Lys Arg Arg
 1 5 10 15

Leu Cys Ala Ala His Gln Tyr Arg Ala Asp Phe Lys Leu Glu Ile Leu
 20 25 30

Asp Pro Gln Arg
 35

<210> 2954
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2954

Phe Leu Lys Leu Phe Arg Lys Leu Leu Arg Met Leu Ser Lys Asn Thr
 1 5 10 15

Leu Lys Lys Arg Ala Leu Lys Lys Ala Trp Arg Trp Lys Tyr Asp Met
 20 25 30

<210> 2955
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2955

Lys Ile Lys Leu Leu Thr Lys Leu Trp Arg Leu Leu Lys Arg Ile Phe
 1 5 10 15

Lys Arg Leu Ala Phe Cys Arg Cys Ala Ala His Asn Glu Ser Ala Ile
 20 25 30

Leu Leu Lys
35

<210> 2956
<211> 45
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 2956

Leu Trp Arg Leu Met Cys Arg Leu Ile Lys Arg Ile His Arg Cys Asp
1 5 10 15

Leu Val Arg Lys Arg Asn Leu Pro Leu Leu Leu Leu Gln Lys Leu His
20 25 30

Asp Leu Ala His Asp His Leu Lys Arg Leu Ala Met His
35 40 45

<210> 2957
<211> 77
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 2957

Leu Leu Arg Trp Leu Gln Arg Phe Met Arg Arg Leu Arg Lys Lys Leu
1 5 10 15

Arg Arg Thr Lys Leu Arg Lys Cys Ile Glu Lys Cys Asp Pro Cys Arg
20 25 30

Ala Ile Leu Ala Pro Asn Ala Lys Ala Cys Thr Tyr Lys Asn Asp Ser
35 40 45

Lys Ala Phe Asp Arg Ala Arg Thr Asp Val Gln Leu Gly Gln Leu Ala
50 55 60

Pro Met Leu Val Val Lys Arg Ala Leu Ala Ala Ala Val
65 70 75

<210> 2958

<211> 26
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2958

Lys Leu Arg Phe Leu Lys Arg Tyr Phe Lys Lys Phe Pro Arg Leu Ala
 1 5 10 15

Val Leu Ala Asp Ala Ala Gln Gln Lys Thr
 20 25

<210> 2959
 <211> 54
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2959

Arg Phe Arg Phe Phe Gln Lys Ile Leu Arg Lys Ile Lys His Leu Leu
 1 5 10 15

Leu Leu Ala Ala Met Lys Asn Lys Asp Asp Leu Leu Gln Asp Lys Phe
 20 25 30

Ala Thr Lys Met Lys His Asp Gly Leu Ala Ala Arg Leu Leu Arg Val
 35 40 45

Ala Val Asn Ser Leu Met
 50

<210> 2960
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2960

Leu Leu Lys Met Phe Arg Lys Leu Phe Arg Met Leu Lys Arg Leu Pro
 1 5 10 15

Asp Ala Leu Thr Gln Ala Cys Glu

20

<210> 2961
 <211> 37
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2961

Lys Met Arg Leu Met Cys Lys Ile Leu Arg Leu Leu Thr Thr Ala His
 1 5 10 15

Ile Arg Leu Leu Arg Ser Lys Ile Asn Arg Tyr Arg Glu Leu Ala Tyr
 20 25 30

Ala Leu Lys Lys Ala
 35

<210> 2962
 <211> 69
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2962

Trp Leu Lys Phe Leu Lys Arg Leu Leu Arg Arg Phe Arg His Leu Lys
 1 5 10 15

Ser Pro Pro Arg His Ile Gly Arg Arg Gln Asp His Ala Met Met Leu
 20 25 30

Ser Leu Arg Lys Lys Val Leu Trp Asn Glu Leu Tyr Leu Tyr Glu Asn
 35 40 45

Gly Trp Met Ala Leu Lys Lys Leu Ile Leu Arg Leu Cys Lys Cys Ala
 50 55 60

Lys Leu Arg Trp Ala
 65

<210> 2963
 <211> 35
 <212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2963

Arg	Phe	Lys	Trp	Leu	Cys	Lys	Leu	Trp	Lys	Leu	Leu	Lys	Gln	Ala	Lys
1				5					10					15	

Ala	Tyr	Ser	Ala	Val	Lys	Arg	Glu	Ala	Tyr	Cys	Trp	Leu	Lys	Val	Lys
			20				25						30		

Leu	Leu	Glu
		35

<210> 2964

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2964

Leu	Phe	Arg	Leu	Met	Arg	Lys	Leu	Trp	Arg	Leu	Leu	Asn	Arg	Leu	Lys
1				5				10						15	

Leu	Asn	Ile	Ala	Lys	Ala
			20		

<210> 2965

<211> 96

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2965

Arg	Met	Lys	Ile	Tyr	Arg	Lys	Leu	Leu	Lys	Tyr	Ile	Arg	Lys	Leu	Ala
1				5					10					15	

Arg	Lys	Ile	Glu	Arg	Gln	Cys	His	Lys	Asn	Ala	Phe	Leu	Pro	Glu	Gln
			20					25					30		

Leu	Gly	Ala	Pro	Lys	Leu	Lys	Asn	Tyr	Pro	Ile	Met	Ala	Leu	Arg	Ala
		35					40					45			

Trp Ala Ala Asp Ile Phe Lys Arg Pro Glu Arg Lys Arg Lys Ser Lys
 50 55 60

Arg Leu Asp Ser Arg Lys Arg Trp Tyr Leu Ile Ala Ala Ala Phe Cys
 65 70 75 80

Arg Lys Asn Ser Ser Leu Arg Ala Arg Ala Met Trp Leu Leu His Arg
 85 90 95

<210> 2966
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2966

Lys Tyr Arg Phe Tyr Arg Arg Leu Trp Lys Lys Phe Arg Gln Gln Leu
 1 5 10 15

Val Ala Leu Ala Ile
 20

<210> 2967
 <211> 38
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2967

Arg Leu Arg Phe Tyr Gln Lys Phe Met Arg Arg Leu Arg His Lys Leu
 1 5 10 15

Ala Arg Trp Thr Trp Ala Leu Arg Met Arg Trp Leu Lys Ser Lys Ala
 20 25 30

Gln Leu Ala Val Arg Met
 35

<210> 2968
 <211> 50
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2968

Arg	Leu	Lys	Ile	Leu	Arg	Arg	Phe	Met	Lys	Phe	Leu	Arg	Ser	Ile	Ala
1				5					10					15	

Cys	Gln	Lys	Glu	Phe	Ala	Ala	Glu	Arg	Lys	Arg	Asn	Leu	Leu	His	Pro
			20					25					30		

Leu	Ala	Asp	Glu	Arg	Lys	Ile	Arg	Ile	Ala	Arg	Ala	Ala	Ala	Arg	Thr
		35					40						45		

Ala	Met
	50

<210> 2969

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2969

Arg	Trp	Lys	Leu	Ile	Gln	Lys	Leu	Met	Lys	Arg	Trp	Gln	Pro	Lys	Leu
1				5					10					15	

Leu	Ala	Glu	Leu	Trp	Arg	Ala	Ala	Asn	Pro	Leu	Ala	Thr	Pro	Lys	Ala
		20						25					30		

Arg	Gln	Arg	Lys
			35

<210> 2970

<211> 54

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2970

Leu	Ile	Lys	Tyr	Phe	Asn	Arg	Leu	Phe	Lys	Lys	Met	Arg	Asn	Arg	Arg
1				5					10					15	

Arg	Gly	Tyr	Ala	Ile	Leu	Arg	Ala	Ala	Leu	Asn	Gln	Asn	Ala	Met	Lys
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

20

25

30

Lys Lys Ala Phe Leu Lys Trp Cys Cys Phe Met Leu Ala Leu Cys Ser
 35 40 45

Leu Asn Phe Ala Arg Arg
 50

<210> 2971

<211> 94

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2971

Arg Phe Arg Met Leu His Arg Ile Leu Arg Leu Leu Arg Lys Met Arg
 1 5 10 15

Lys Ala His His Asn Asn Leu Tyr Gln Glu Arg Arg Lys Gly Lys Gln
 20 25 30

Arg Phe Met Cys Asp Cys Ala Leu Ser Ala Ala Arg Cys Lys Gly Met
 35 40 45

Leu Asn Met Tyr Thr Leu Lys Tyr Lys Pro Thr Arg Lys Ala Arg Val
 50 55 60

Lys Leu Leu Cys Cys Leu Val Lys Lys Glu Lys Ala Lys Lys Met Ala
 65 70 75 80

Ala Ala Gly Ala Lys Tyr Gly Asp Leu Leu Arg Thr His Arg
 85 90

<210> 2972

<211> 96

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2972

Arg Phe Arg Leu Ile Lys Lys Phe Phe Lys Lys Phe Lys Ser Asp Ala
 1 5 10 15

Thr Leu Ala Ile Gly Lys Leu Arg Arg Ala Leu Ala Met Val Lys Arg
 20 25 30

Lys Leu Asn Arg Ile Trp Tyr Ala Arg Tyr Pro Arg Val Cys Ser Lys
 35 40 45

Glu Leu Lys Phe Leu Cys Met Ala Ile Ile Lys Leu Lys Val Thr Ala
 50 55 60

Glu Thr Trp Asp Ala Ala Val Lys Ala Pro Ala Leu Arg Leu Leu Val
 65 70 75 80

Lys Lys Tyr Arg Glu Met Leu Ala Arg Met Ala His Gly Ala Arg Gly
 85 90 95

<210> 2973
 <211> 41
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2973

Lys Met Arg Phe Leu Pro Lys Tyr Met Arg Arg Leu Gln Asn Gln Arg
 1 5 10 15

Lys Lys Arg Ile Val Pro Ala Leu Leu Lys Cys Cys Ala Ala Asp Ser
 20 25 30

Trp Leu Ala Lys Lys Met Glu Leu Arg
 35 40

<210> 2974
 <211> 49
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2974

Tyr Phe Lys Ile Leu Arg Arg Leu Leu Lys Arg Met Asn Arg Ser Ala
 1 5 10 15

Asp Ala Gln Ala Ser Ser Lys Ala Ala Arg Lys His Arg Lys Trp Glu

20

25

30

Leu Ser Ala Lys Lys Trp Ala Arg Tyr Gln Leu Cys Ser Ser Met Thr
 35 40 45

Leu

<210> 2975

<211> 66

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2975

Lys Met Lys Tyr Leu Arg Arg Trp Ile Lys Lys Leu Cys Ser Arg Glu
 1 5 10 15

Asp Leu Asn Leu Asn Pro Leu Arg Arg Met Leu Leu Leu Leu Arg Phe
 20 25 30

Lys Gly Lys Ala Ile Thr Tyr Ala Ser Trp Gly Ala Pro Arg Leu Ala
 35 40 45

Ile Ala Thr Ser Lys Pro Arg Ala Pro Ala Ala Lys Ala Lys Tyr Phe
 50 55 60

Trp Leu
 65

<210> 2976

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2976

Leu Leu Arg Phe Phe Asn Arg Trp Ile Lys Tyr Leu Asn Thr Leu Lys
 1 5 10 15

Trp Ile Leu Lys Phe Arg Arg Ala Ala Lys
 20 25

<210> 2977
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2977

Phe Leu Arg Leu Ile Gln Arg Met Leu Lys Lys Tyr Lys Ser Lys Leu
 1 5 10 15

Lys Leu Cys Val Leu Asn
 20

<210> 2978
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2978

Arg Leu Lys Leu Leu Lys Arg Leu Ile Lys Leu Phe Asn Lys Leu Cys
 1 5 10 15

Lys Leu Pro Asp Lys Arg
 20

<210> 2979
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2979

Leu Phe Lys Phe Leu His Arg Met Leu Arg Arg Leu Lys Arg Met Lys
 1 5 10 15

Thr Gly Tyr Ala Ala Lys Lys Ala Thr
 20 25

<210> 2980
 <211> 56
 <212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2980

Lys Ile Lys Trp Phe Pro Lys Met Tyr Arg Phe Trp Arg Lys Glu Lys
1 5 10 15

Cys Ala Lys Arg His Leu Lys Gln Leu Arg Lys Ser Leu Leu Arg Leu
20 25 30

Glu Ala Met Pro Gln Met Leu Ala Asp Leu Leu Gln Glu Asn His Lys
35 40 45

Arg Thr Ala Arg Lys Ala Met Ala
50 55

<210> 2981

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2981

Arg Trp Lys Leu Ile Lys Arg Leu Leu Lys Arg Tyr Thr Arg Arg Tyr
1 5 10 15

Ala Gly Ala Lys Glu Ala Cys Cys Asp Gly Ala Arg Ala Ala Arg Arg
20 25 30

<210> 2982

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2982

Arg Leu Lys Trp Leu Pro Lys Trp Tyr Lys Arg Leu Arg Arg Lys Tyr
1 5 10 15

Leu Lys Leu Trp Ala Leu Phe Leu Trp
20 25

<210> 2983
 <211> 94
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2983

Arg Leu Lys Leu Leu Gln Lys Trp Met Lys Lys Leu Arg Lys Leu Glu
 1 5 10 15

Met Ser Ile Ala Ala Pro Leu Ala Cys Glu Gly Asp Leu Ile His Cys
 20 25 30

Gln Lys Ala His Ser Tyr Leu Ile Lys Asp Ile Leu Val Arg Leu His
 35 40 45

Arg Ile Phe Arg Gly Arg Arg His Leu Lys Ala Leu Met Arg Leu Leu
 50 55 60

Lys Leu Arg Asn Arg Cys Ala Arg Lys Lys Gln Ala Ala Val Glu Thr
 65 70 75 80

Lys Cys Ser Lys Asp Lys Gln Ala Thr Val Lys Lys Asp Arg
 85 90

<210> 2984
 <211> 80
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2984

Leu Phe Lys Leu Trp Pro Lys Leu Leu Lys Arg Leu Arg Arg Asn Phe
 1 5 10 15

Lys Gln His Arg Arg His Phe Lys Phe Lys Phe Ser Trp Lys Tyr Leu
 20 25 30

Cys Leu Cys Thr Lys Leu Ala Phe Met Ser Thr Leu Met Arg Leu Cys
 35 40 45

Leu Trp Lys Lys Leu Lys Lys Ala Ala Gly Ala Leu Arg Asp Tyr Cys

50

55

60

Lys Lys Pro Ala Ser Arg Lys Leu Met Arg Phe Ala Phe Arg Lys Lys
 65 70 75 80

<210> 2985
 <211> 26
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2985

Arg Leu Lys Leu Phe Arg Lys Leu Leu Lys Leu Phe Gln His Ala Arg
 1 5 10 15

Trp Leu Lys Gln Lys Gln Gly Arg Pro Asp
 20 25

<210> 2986
 <211> 73
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2986

Lys Trp Arg Phe Leu Arg Lys Leu Leu Lys Phe Leu Arg Lys Lys Leu
 1 5 10 15

Pro Cys Lys Arg Lys Ala Val Ile Arg Ala Gln Ala Cys Ala Arg His
 20 25 30

Lys Lys Cys Trp Ala Trp Leu Ile Lys Ala Pro Asn Asp Arg Val Ala
 35 40 45

Asp Leu Arg Tyr Asp Leu Trp Thr Val Arg Ile Arg Asn Leu Ala Ala
 50 55 60

Leu Tyr Gln Lys Lys Lys Pro Ile Arg
 65 70

<210> 2987
 <211> 41
 <212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2987

Leu Tyr Arg Leu Met Lys Arg Trp Tyr Arg Lys Leu Lys His His Leu
1 5 10 15

Ala Lys Ala Ala Arg Phe Arg Ala Leu Tyr Thr Ser Leu Arg Ala Thr
20 25 30

His Lys His Val Val Leu Arg Glu Leu
35 40

<210> 2988

<211> 50

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2988

Phe Ile Arg Tyr Leu Pro Lys Trp Trp Lys Tyr Trp Thr Lys Pro Gln
1 5 10 15

Leu Leu Arg Ala Lys Lys Arg Pro Leu Asn Lys Arg Arg Ala Arg Val
20 25 30

Leu Thr Leu Ala Ala Ile Phe Lys Leu Lys Thr Asn Ala Arg Ser Ser
35 40 45

Ala Ser
50

<210> 2989

<211> 56

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2989

Phe Phe Lys Tyr Phe Cys Lys Leu Met Arg Arg Leu Arg Arg Trp Glu
1 5 10 15

Phe Lys Gln Phe Leu Lys Asn Arg Asp Leu Lys Arg Arg Lys Gln Tyr
 20 25 30

Leu Ala Arg Gly Lys Cys Pro Ser Ala Glu Arg Thr Lys Leu Phe His
 35 40 45

Ala Ala Ile Ala Ala Leu Pro Leu
 50 55

<210> 2990
 <211> 54
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2990

Leu Trp Arg Trp Leu Lys Arg Trp Leu Lys Arg Tyr Asn Lys Pro Lys
 1 5 10 15

Leu Glu Asp Trp His Phe Ala Thr Arg Trp Ala Trp Leu Ala Lys Arg
 20 25 30

Cys Met Lys Gly Lys Arg Arg Tyr Arg Gln Leu Val Arg Leu Arg Gly
 35 40 45

Arg Leu Leu Glu Leu Gly
 50

<210> 2991
 <211> 42
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2991

Phe Met Arg Met Tyr His Lys Trp Leu Lys Arg Leu Lys Lys Ile Lys
 1 5 10 15

Pro Ala Ser Gln Ala Val Glu Arg Leu Lys Ala Arg Tyr Leu Arg Ala
 20 25 30

Val Ala Asp His Lys Lys Ser Leu Leu Asn

35

40

<210> 2992

<211> 42

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2992

Arg	Leu	Arg	Phe	Leu	Arg	Lys	Met	Leu	Lys	Trp	Leu	Cys	Arg	Asp	Lys
1				5					10					15	

Leu	Leu	Ile	Lys	Arg	Ala	His	Val	Thr	Gln	Lys	Lys	Leu	Leu	Ala	Val
			20					25						30	

Leu	Asn	Met	Ala	Gly	Lys	Arg	Ala	Ala	Ala
		35					40		

<210> 2993

<211> 71

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2993

Arg	Met	Lys	Leu	Leu	Gln	Lys	Ile	Trp	Lys	Arg	Leu	Pro	Arg	Lys	Arg
1				5					10					15	

Met	Lys	Asn	Met	Arg	Leu	Lys	Phe	His	Leu	Lys	Asp	Lys	Lys	Lys	Cys
			20					25					30		

Ala	Leu	Val	Leu	Arg	Arg	Phe	Lys	Ala	Leu	Arg	Leu	Glu	Lys	Ala	Tyr
		35					40					45			

Ala	Val	Cys	Ser	Ala	Ile	Trp	Gly	Arg	Lys	Glu	Arg	Leu	Ser	Ala	Asn
	50					55					60				

Arg	Ala	Leu	Arg	Glu	Cys	Thr
65					70	

<210> 2994

<211> 37

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2994

Leu Met Lys Leu Phe Asn Lys Phe Met Lys Leu Tyr Cys Lys Lys Lys
1 5 10 15

Leu Asn Leu Leu Glu Met Arg Arg Leu Ala Lys Arg Ala Ile Met Ile
20 25 30

His Ala Ala Lys Leu
35

<210> 2995

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2995

Trp Leu Arg Trp Leu Lys Arg Phe Phe Arg Phe Leu Gln Lys Leu Leu
1 5 10 15

His Ala Arg Lys Val Arg Gln Pro
20

<210> 2996

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 2996

Arg Phe Lys Leu Leu Lys Lys Tyr Leu Arg Ile Phe Thr Cys Leu Glu
1 5 10 15

Ala Ala Leu Leu Gly Lys Thr Lys Phe Arg Arg Val Pro Ala Asn Lys
20 25 30

Ala Ile Glu Gln
35

<210> 2997
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2997

Phe Leu Lys Trp Leu Lys Lys Met Ile Arg Leu Leu Lys Arg Lys Ala
 1 5 10 15

Leu Ala Tyr Lys Met Asp Arg Ala Lys Lys Ile Leu Lys His Asp Leu
 20 25 30

Trp Val Lys Ser
 35

<210> 2998
 <211> 50
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2998

Leu Leu Arg Phe Trp Lys Arg Leu Tyr Arg Lys Leu Pro Asn Ala Leu
 1 5 10 15

Cys Asp Trp Cys Thr Leu Leu Lys Ala Lys Gly Ala Lys Ala Val Leu
 20 25 30

Ile Lys Arg Phe Arg His Leu His Ala Lys Val Asn Arg Glu Arg Asn
 35 40 45

Lys Asn
 50

<210> 2999
 <211> 43
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 2999

Ile Leu Arg Tyr Leu Lys Lys Tyr Phe Arg Lys Leu Arg Asn Trp Lys
 1 5 10 15

Arg Ser Ala Asn Arg Cys Leu Arg Tyr Ile Gln Ala Arg Leu Cys Leu
 20 25 30

Ala Arg Gly Gly Asp Leu Glu His His Arg Leu
 35 40

<210> 3000

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3000

Leu Trp Lys Ile Leu Lys Lys Tyr Leu Lys Arg Leu Pro Asn Val Lys
 1 5 10 15

Pro Glu Lys Leu Leu Leu Cys Lys Leu Ala Leu
 20 25

<210> 3001

<211> 45

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3001

Lys Ile Lys Leu Leu Lys Lys Leu Leu Arg Arg Phe Ser Ser Pro Ala
 1 5 10 15

Gln Arg Ala Gly Ile His Gln Lys Lys Ile Cys Asp Tyr Thr Arg Leu
 20 25 30

Gly Asn Lys Leu Ser Lys Ala Arg Ala Ala Cys Leu Met
 35 40 45

<210> 3002

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3002

Leu Leu Arg Leu Leu Arg Arg Leu Met Arg Lys Trp Arg Arg Leu Ser
 1 5 10 15

Arg His Ala Asn Met Arg Ala Arg Tyr Asp Pro Ala
 20 25

<210> 3003

<211> 42

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3003

Phe Leu Arg Leu Leu Arg Arg Met Ile Arg Arg Phe Lys Arg His Tyr
 1 5 10 15

Met Ala Phe Ala Ala Leu Val Arg Trp Val Trp His Leu Arg Glu Ala
 20 25 30

Lys Ala Leu Leu Leu Asn Gly Tyr Arg Thr
 35 40

<210> 3004

<211> 83

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3004

Arg Phe Lys Met Trp Gln Lys Leu Met Arg Arg Trp Arg Cys Lys Arg
 1 5 10 15

Arg Ile Ala Ala Leu Trp Lys Arg Ala Tyr Lys Arg Lys Tyr Lys Asp
 20 25 30

Arg Leu Lys Lys Arg Asn Gln Leu Arg Ala Pro Arg Ser Ala Ile Met
 35 40 45

Arg Phe Gln Ala Leu Met Leu Arg Leu Tyr Leu Gly Gln Val Gln Leu

50

55

60

Glu Asn Ser Ala Arg Lys Thr His Leu Met Leu Thr Phe Arg Arg Ala
 65 70 75 80

Leu Tyr Asn

<210> 3005

<211> 90

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3005

Phe Ile Arg Phe Leu Lys Arg Leu Leu Lys Lys Leu Arg Arg Cys Arg
 1 5 10 15

Leu Tyr Leu Tyr Ala His Arg Arg Arg Tyr Val Asn Leu Arg Lys Thr
 20 25 30

Asp Ile Lys Ala Lys Thr Lys Phe Ala Pro Thr Ala Lys Ala Leu Leu
 35 40 45

Gln Lys Leu Lys Ala Ala Cys Arg Ile Tyr Met Gly Phe Lys Lys Leu
 50 55 60

Ile Arg Leu Leu Leu Ala Gly Leu Trp Phe Ala Val His Lys Lys Arg
 65 70 75 80

Phe Ala Ser Arg Lys Leu Arg Leu Tyr Arg
 85 90

<210> 3006

<211> 63

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3006

Phe Leu Lys Leu Phe Lys Lys Leu Trp Arg Lys Phe Ser Arg Arg Arg
 1 5 10 15

Glu Glu Leu Pro Pro Thr Arg Gln Phe Pro Ile Ala Pro Lys Leu His
 20 25 30

Leu Arg Arg Met Ile Cys Lys Ala Tyr Ala Arg Lys Glu Lys Cys Ala
 35 40 45

Thr Leu Glu Asp Ala Ala Arg Leu Ala Arg Ser Arg Leu Leu Ile
 50 55 60

<210> 3007
 <211> 77
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3007

Arg Trp Lys Phe Trp Cys Lys Phe Tyr Lys Arg Tyr Lys Arg Arg Ala
 1 5 10 15

Asp Lys Arg Lys Ala Lys Leu Leu Leu Ala Ser Met Lys Lys Ala Lys
 20 25 30

Arg Ala Asn Tyr Lys Ser Ala Lys Phe Lys Leu Pro Val Ala Tyr Cys
 35 40 45

Val Ala Leu Ile Arg Thr Leu Cys Ile Ala Ala Asn Leu Gln Thr Thr
 50 55 60

Ser His Ala Leu Arg Phe Asp Cys Arg Phe Tyr Arg Arg
 65 70 75

<210> 3008
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3008

Ile Ile Arg Ile Leu Lys Lys Leu Trp Lys Lys Leu Arg Pro Arg Ala
 1 5 10 15

Thr Met Arg Leu Leu Arg Cys Ala

20

<210> 3009
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3009

Leu Leu Arg Tyr Leu Cys Lys Trp Leu Lys Arg Ile Ser Thr Leu Lys
 1 5 10 15

Leu Arg Ile Arg Arg Leu Phe Gly Asn Asp Ala Ala Pro Met Leu Pro
 20 25 30

Leu

<210> 3010
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3010

Trp Phe Lys Ile Leu Asn Arg Phe Leu Arg Arg Tyr Arg Lys Leu Lys
 1 5 10 15

Arg Leu Leu Arg Ala Trp Arg Ala Ala Met Arg Leu Glu Ala Lys Leu
 20 25 30

Arg Gly

<210> 3011
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3011

Lys Trp Lys Met Phe His Arg Ile Phe Arg Arg Leu Lys Arg Gly Lys

<220>
<223> Computer-generated peptide variant

<400> 3014

Leu Leu Lys Leu Phe Arg Arg Leu Leu Arg Lys Tyr His Cys Cys Ala
1 5 10 15

Lys Lys Leu Thr Trp Thr Asp Ala Arg Lys Ala Leu
20 25

<210> 3015

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3015

Arg Leu Arg Leu Phe Asn Lys Trp Leu Arg Lys Leu Thr His Ala Arg
1 5 10 15

Ile Asn Asp Val Glu Ala Ala Lys Arg Lys Lys Leu Lys Glu Gly Ala
20 25 30

Gly

<210> 3016

<211> 62

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3016

Arg Tyr Arg Phe Leu Arg Arg Tyr Leu Arg Lys Leu Gln Arg His Arg
1 5 10 15

Met Val Arg Ala His Leu Ala Phe Gln Met Lys Arg Lys Pro Lys Gln
20 25 30

Lys Lys Glu Leu Arg Gly Leu Met Gly Val Leu Leu Tyr Cys Glu Leu
35 40 45

Trp Thr His Ala Arg Leu Tyr Ala Ala Lys Ile Lys Ile Leu
50 55 60

<210> 3017
 <211> 54
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3017

Met Leu Lys Tyr Leu Lys Arg Leu Ile Lys Trp Leu His Cys Gln Pro
 1 5 10 15

Phe Gly Ala Ser Leu Trp Lys His Arg Lys Lys Ile Ala Arg Leu Ala
 20 25 30

His Lys Pro Lys Lys Ala Cys Met Lys Ala Thr Arg Ala Asn Leu Gly
 35 40 45

Lys Ala Ala Asn Lys Arg
 50

<210> 3018
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3018

Arg Tyr Arg Leu Trp Arg Lys Tyr Leu Arg Ile Leu Arg Gln Lys Gly
 1 5 10 15

Leu Tyr Met Lys Arg Ala Thr Ala Pro Leu Ala Leu Ala Ala Thr Lys
 20 25 30

Leu

<210> 3019
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3019

Lys Phe Arg Leu Leu Lys Lys Phe Phe Arg Arg Met His Cys Ala Val
 1 5 10 15

Val Lys Leu Leu Gln Leu Gln Val Leu Thr Arg Lys
 20 25

<210> 3020

<211> 89

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3020

Arg Leu Lys Phe Phe Thr Arg Ile Leu Lys Lys Phe Gln Thr Met Leu
 1 5 10 15

Pro Leu Ala Gln Arg His Arg Leu Leu Cys Tyr Arg Lys Val Ala Arg
 20 25 30

Ala Glu Cys Leu Glu Glu Lys Leu Asn Val Lys Cys Lys Glu Arg Leu
 35 40 45

Gln Asp Ala Trp Arg Gln Arg Tyr Lys Lys Leu Leu Cys Arg Leu Gly
 50 55 60

Lys Lys Leu Leu Phe Asn Phe Lys Ser Cys Asp Leu His Lys Ala Val
 65 70 75 80

Leu Ile Cys Lys Leu Thr Ala Ala Lys
 85

<210> 3021

<211> 47

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3021

Trp Ile Arg Leu Leu Cys Lys Phe Phe Lys Lys Leu His Cys Ser Glu
 1 5 10 15

Glu Ala Lys Ala Ile Ala Ala Ser Arg Leu Arg Lys Gln Lys Tyr Arg

20

25

30

Arg Cys Ala Phe Leu Leu Leu Phe Arg Asp Gly Gln Ala Arg Ser
 35 40 45

<210> 3022

<211> 44

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3022

Leu Ile Arg Leu Leu Gln Lys Leu Tyr Arg Arg Leu Lys His Ala Lys
 1 5 10 15

Phe Trp Arg Lys Gln Pro His His Ala Gln Arg Ala Val Lys Val Leu
 20 25 30

Ile Met Leu Lys Glu Ala Lys Gly Leu His Trp Leu
 35 40

<210> 3023

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3023

Arg Phe Arg Leu Ile Thr Lys Leu Leu Lys Arg Leu Lys Arg Lys Ala
 1 5 10 15

Cys Lys Arg Arg Asn Leu Lys Asp Ala Val Leu Thr Ile Ala Gly Cys
 20 25 30

<210> 3024

<211> 51

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3024

Arg Trp Lys Ile Leu Arg Lys Phe Leu Arg Lys Leu Arg Gln Leu Asn

<210>	3025
<211>	49
<212>	PRT
<213>	Artificial Sequence
<220>	
<223>	Computer-generated peptide variant
<400>	3025

Lys Leu Lys Phe Phe Arg Arg Leu Met Lys Leu Leu Arg Asn Gln Trp
1 5 10 15

Thr Leu Ala Leu Lys Arg Tyr Lys His Asp Leu Lys Val Pro Arg Lys
20 25 30

His Lys Gln Pro Leu Gly Leu Leu Met Gln Gly Arg Glu Tyr Ala Gly
35 40 45

Leu

<210>	3026
<211>	76
<212>	PRT
<213>	Artificial Sequence
<220>	
<223>	Computer-generated peptide variant
<400>	3026

Arg Ile Arg Leu Ile Gln Arg Leu Ile Arg Arg Met Arg Gln Leu Ala
1 5 10 15

Leu Leu Ile Ala Asp Lys Asn Gln Ala Ile Gly Leu Ala Lys His Arg
20 25 30

Ala Ala Phe Leu His Leu Arg Leu Lys Lys Ser Leu Leu Gly Arg Phe
 35 40 45

Thr Ala Ser Lys Pro Gly Gly Ala Glu Val Ile Ser Val Trp Ala Asn
 50 55 60

Ala Lys Ala Arg Leu Arg Leu Met Gly Lys Val Trp
 65 70 75

<210> 3027
 <211> 93
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3027

Lys Phe Lys Trp Leu Thr Lys Leu Leu Lys Met Met Arg Arg Lys Lys
 1 5 10 15

Met Ile Leu Met Ala Cys Leu Asn Gln Tyr Arg Ala Met Pro Trp Leu
 20 25 30

Ala Arg Tyr Arg Leu Glu Leu Leu Lys Leu Ala Asp Gly Tyr Phe Asn
 35 40 45

Pro Lys Lys Arg Ala Ala Ser Gln Ala Glu His Lys Arg Ala Asp Pro
 50 55 60

Trp Leu Arg Pro Gly Ala Ala Leu Ala Trp Leu Phe Arg Leu Lys Val
 65 70 75 80

Arg His Leu Ala Val Asn Lys Lys Ala Cys Lys Asn Trp
 85 90

<210> 3028
 <211> 48
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3028

Arg Phe Lys Leu Leu Arg Lys Phe Leu Lys Lys Tyr Gln Arg Ala Asn


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<210> 3029
<211> 81
<212> PRT
<213> Artificial Sequence
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<400> 3029

Arg His Asn Lys Leu Arg Gly Trp Leu Thr Gly Ala Tyr Lys Leu Asn
20 25 30

Arg Leu Val Arg Arg Ala Pro Lys Leu Val Val Arg Ala Ile Tyr Lys
50 55 60

Lys

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<210> 3030
<211> 32
<212> PRT
<213> Artificial Sequence
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<400> 3030

Leu Ile Lys Ile Tyr Lys Lys Leu Trp Lys Ile Leu Arg Arg Cys Arg
1 5 10 15

Leu Glu Lys Gly Phe Ala Leu Pro Gly Lys Ala Ala Glu Leu Ser Ile
 20 25 30

<210> 3031
 <211> 26
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3031

Phe Tyr Arg Trp Met Arg Arg Leu Tyr Arg Lys Ile Arg Arg Gln Leu
 1 5 10 15

Lys Ala Ile Ala Ala His Ala Leu Arg Met
 20 25

<210> 3032
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3032

Lys Leu Lys Phe Ile His Lys Leu Trp Arg Arg Phe Lys Lys His Thr
 1 5 10 15

Cys Ala Trp Lys Lys Ala Ala Val Leu Pro Leu Lys Leu Cys His Val
 20 25 30

Lys Leu Ser Lys Lys Val Ser Glu
 35 40

<210> 3033
 <211> 98
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3033

Lys Trp Arg Leu Leu Lys Arg Phe Ile Arg Leu Met Cys Lys Arg Leu
 1 5 10 15

Leu Arg Pro Leu Arg Ala Trp Trp Asp Arg Met Met Leu Phe Lys Lys
 20 25 30

Arg Lys His Ser Ala Val Trp His Ala Asn Ala His Gln Arg Lys Arg
 35 40 45

Lys Pro Val Arg Leu Lys Arg Tyr Tyr Arg Arg Lys Val Leu Leu Arg
 50 55 60

Phe Leu Ser Phe Ala Val Leu Arg Lys Glu Asn Asn Glu Gly Met Ile
 65 70 75 80

Leu Phe Ala Ala Gln Leu Lys Phe Phe Cys Leu Ser Leu Arg Thr Arg
 85 90 95

Ala Cys

<210> 3034
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3034

Arg Phe Lys Met Leu Arg Arg Ile Leu Lys Phe Leu Gln Arg Leu Arg
 1 5 10 15

Lys Ser Cys Leu Ala Leu Lys Ala Asp Ser Trp Asn
 20 25

<210> 3035
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3035

Leu Ile Arg Leu Met Arg Arg Phe Tyr Arg Leu Phe Asn His Leu Arg
 1 5 10 15

Lys Gln Ala Val Ala Ser Pro Arg Ala

20

25

<210> 3036
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3036

Ile Phe Arg Phe Tyr Gln Arg Leu Leu Arg Arg Met Lys Ser Cys Gln
 1 5 10 15

His Ser Leu Ala Lys Glu Ile Tyr Thr Glu Cys Leu Lys Arg Leu Arg
 20 25 30

Lys Arg Ala Arg Ala Lys Leu Leu
 35 40

<210> 3037
 <211> 70
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3037

Tyr Phe Arg Leu Leu Ser Arg Tyr Leu Lys Met Phe Arg Lys Lys Val
 1 5 10 15

Arg Lys Leu Ala Ala Leu His Ala Leu Ser Leu Ala Lys Ala Ile Lys
 20 25 30

Cys Tyr Phe Leu Leu Ala Asn Cys Arg Val Met Leu Lys Cys Ala Glu
 35 40 45

Ala Thr Lys Gly Ala Ala Lys Pro Lys His Thr Gly Ala Pro Trp Ile
 50 55 60

Arg Leu Val Trp Arg Arg
 65 70

<210> 3038
 <211> 27
 <212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3038

Lys Met Arg Leu Tyr Gln Arg Met Leu Lys Arg Tyr Lys Lys Leu Leu
1 5 10 15

Met Gly Gly Leu Trp Arg Ala Asp Val Leu Ala
20 25

<210> 3039

<211> 59

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3039

Lys Leu Lys Phe Leu Arg Lys Tyr Ile Arg Lys Phe Thr Arg Ala Lys
1 5 10 15

Ser Lys Arg Ala Arg Ala Gln Arg Tyr Trp Ala Thr Phe Leu Asn Arg
20 25 30

Met Arg His Ala Thr Trp Ala Leu Glu Gln Glu Lys Leu Arg Arg Val
35 40 45

Ala Ala Arg Asn Lys Val Lys Leu His Leu Tyr
50 55

<210> 3040

<211> 46

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3040

Phe Leu Lys Leu Phe Lys Lys Tyr Met Arg Arg Trp Arg Arg Arg Gly
1 5 10 15

Trp Arg Tyr Ala Ile Tyr Ala Gly Leu Arg Ala Ala Leu Val Leu Pro
20 25 30

Ile Arg Lys Pro Gln Arg Lys Trp Val Ala Lys His Leu Trp
 35 40 45

<210> 3041
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3041

Met Leu Lys Tyr Phe Gln Lys Trp Leu Arg Arg Phe Lys Lys Thr Ala
 1 5 10 15

Leu Tyr Ala Phe Arg
 20

<210> 3042
 <211> 61
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3042

Leu Phe Arg Leu Leu Arg Arg Leu Phe Arg Arg Phe Lys Arg Gln His
 1 5 10 15

Leu Gln Ala His Tyr Trp Ala Trp Trp Leu Ala Ala Lys Ile Arg Met
 20 25 30

Gly Trp Cys Lys Ala Arg Phe Lys Lys Lys Leu Ala Leu Leu Arg Val
 35 40 45

Arg Glu Arg Cys Ala Ala Tyr Leu Ala Lys His Pro Ala
 50 55 60

<210> 3043
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3043

Arg Leu Arg Leu Trp Arg Arg Leu Trp Lys Leu Trp His Pro Gly Arg
 1 5 10 15

Asn Lys Gln Lys Ala Lys Ala His Lys Ala Leu Asn Ser Cys
 20 25 30

<210> 3044

<211> 39

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3044

Leu Leu Arg Ile Phe Thr Arg Trp Leu Lys Arg Phe Lys Lys Pro Leu
 1 5 10 15

Ala Ala Ala Ala Ala Leu Leu Arg Val Ser His Leu Leu His Met Lys
 20 25 30

Arg Met His Lys Lys Leu Pro
 35

<210> 3045

<211> 54

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3045

Leu Leu Arg Trp Leu Arg Lys Leu Leu Lys Leu Tyr Gln Lys His Gln
 1 5 10 15

Lys Ser Glu Leu Tyr Leu Ser Arg Leu Phe Phe Lys Lys Val Arg Met
 20 25 30

Arg Arg Tyr Leu Gln Gln Glu Lys Arg Trp Gly Leu Pro Ala Arg Arg
 35 40 45

Met Ile Ile Leu Cys Lys
 50

<210> 3046

<211> 50
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3046

Lys Phe Arg Phe Phe Lys Arg Leu Phe Lys Lys Leu Arg Asn Phe Gln
 1 5 10 15

Ala Ala Ala Trp Leu Met Lys Glu Thr Ala Gln Lys Glu Ala Leu Cys
 20 25 30

Lys Leu Lys Asn Cys Leu Ile Lys Ser Ile Trp Leu Lys His Leu Leu
 35 40 45

Arg Ala
 50

<210> 3047
 <211> 39
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3047

Met Trp Arg Leu Trp Ser Lys Leu Leu Arg Lys Phe His Lys Lys Arg
 1 5 10 15

Val Arg Trp Ala Ala Leu Ser Cys Leu Leu Arg Ala Lys Asn Lys Lys
 20 25 30

Ile Tyr Ser Glu Lys His Ala
 35

<210> 3048
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3048

Tyr Leu Lys Met Trp Asn Lys Met Tyr Lys Leu Tyr Lys Arg Arg Arg

1 5 10 15

His Ala Ala Leu Leu
20

<210> 3049
<211> 99
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 3049

Lys Leu Arg Met Ile Cys Lys Leu Leu Arg Phe Leu Arg Gln Met Arg
1 5 10 15

Arg Leu Arg Val Gly Asp Gly Ala Cys Arg Lys Leu Met Leu Leu Gln
20 25 30

Leu Lys Trp Lys Cys Lys Pro Asn Pro Arg Trp Leu Ala Gln Leu Arg
35 40 45

Ala Asn Arg Leu Glu Leu Glu Ala Leu Leu Leu Ala Leu Gly Leu Ile
50 55 60

Leu Arg Leu Glu Arg Arg Phe Asn Lys Cys Trp Leu Lys Ala Ala Val
65 70 75 80

Thr Val Tyr Arg Met Tyr Leu Arg Lys Pro Arg Tyr Leu Arg Arg Arg
85 90 95

His Val Met

<210> 3050
<211> 78
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 3050

Lys Trp Arg Phe Leu Arg Lys Leu Tyr Arg Arg Tyr Arg Lys Pro Ala
1 5 10 15

Arg Tyr Val Lys Asn Leu Ala Ala Phe Ala Thr Arg Arg Lys Arg Arg
 20 25 30

Met Ala Gly Arg Leu Ala Met Phe Tyr Pro Gln Arg Lys Ala Asn Phe
 35 40 45

Pro Gly Arg Arg Gly Ser Ile Ala Ala Ile Arg Ile Ala Lys Glu Arg
 50 55 60

Phe Val Ala Ala Thr Arg Ser Phe Glu Gln Leu Lys Leu Trp
 65 70 75

<210> 3051
 <211> 41
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3051

Leu Met Arg Leu Tyr Lys Arg Ile Tyr Arg Lys Tyr Arg Lys Ala Ala
 1 5 10 15

Ala Lys Ile Val Ala Glu Lys Val Tyr Thr Ser Pro Lys Asp Leu Arg
 20 25 30

Lys Leu Ala Leu Leu Pro Met Ala Ser
 35 40

<210> 3052
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3052

Arg Leu Lys Leu Trp Lys Lys Phe Trp Arg Ile Phe Ser His Asp Lys
 1 5 10 15

Leu His Leu Asp Leu Pro Tyr Leu Arg Thr Ala Ala Arg
 20 25

<210> 3053

<211> 38
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3053

Lys Leu Arg Tyr Phe Arg Arg Leu Leu Arg Leu Phe Cys Lys Ser Pro
 1 5 10 15

Arg Ala Asp Asn Lys Arg Leu Ser Pro Pro Gly Leu Cys Arg Val Gly
 20 25 30

Ser Arg Pro Ala Arg Leu
 35

<210> 3054
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3054

Lys Leu Lys Leu Phe Lys Lys Trp Leu Arg Lys Met Arg Arg Leu Ile
 1 5 10 15

Phe Ala Asp Thr Leu Leu Pro Thr Arg Asp Lys Gln Lys Ala His Ala
 20 25 30

Leu Asn Thr Lys
 35

<210> 3055
 <211> 50
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3055

Lys Tyr Lys Leu Phe Lys Lys Leu Leu Arg Trp Trp Lys Lys Gly Leu
 1 5 10 15

Val Arg Leu Asp Leu Leu Leu Lys Leu Arg Ala Thr Leu Ala Trp Leu

20

25

30

Lys Tyr Ala Met Lys Pro Cys Arg Ser Pro Leu Ala Ala Ala Lys Gln
 35 40 45

Ser Gly
 50

<210> 3056
 <211> 38
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3056

Leu Tyr Lys Phe Leu Ser Lys Phe Trp Arg Leu Tyr Thr Lys Leu His
 1 5 10 15

His Asn Asp Ala Arg Asn Gly Lys Leu Arg Pro Ala Asn Lys Leu Met
 20 25 30

Leu Lys Lys Ala Ala Leu
 35

<210> 3057
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3057

Phe Leu Arg Met Leu Asn Arg Leu Tyr Lys Tyr Ile Arg Ser Lys Trp
 1 5 10 15

Ala Arg Asp Ala Phe Thr Lys Arg Trp Arg Lys Lys Met Leu Ile Ala
 20 25 30

Ala His Lys Ile Met Lys Glu Leu
 35 40

<210> 3058
 <211> 26
 <212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3058

Lys Phe Lys Ile Leu Gln Lys Leu Trp Arg Arg Leu Arg Arg Ala Glu
1 5 10 15

Ala Val Ala Phe Ala Thr Lys Glu Met Leu
20 25

<210> 3059

<211> 78

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3059

Met Phe Lys Ile Ile Asn Lys Leu Tyr Lys Tyr Leu His Gln Ala Cys
1 5 10 15

Lys Pro Leu Arg Leu His Arg Pro Ile Lys Leu Arg Ser Arg Met Ala
20 25 30

Arg Tyr Ser Ala Trp Ala Thr Val Leu Glu Ala Trp Arg Ala Arg Leu
35 40 45

Leu Ile Arg Ser Ala Ala Leu Lys Ala Met Met Met Pro Arg Ala Arg
50 55 60

Pro Lys Gly Arg Arg Arg Arg Arg Gln His Gly Ala Arg Gln
65 70 75

<210> 3060

<211> 45

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3060

Lys Leu Arg Leu Met His Lys Leu Trp Arg Lys Leu Arg Cys His Gly
1 5 10 15

Phe Val Ala Thr Ala His Thr Leu Lys Cys Glu Ala Arg Leu Ala Lys
 20 25 30

Ile Lys Leu Leu Arg Arg Ala Ala Leu Cys Arg Tyr Ala
 35 40 45

<210> 3061

<211> 66

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3061

Phe Phe Lys Trp Leu His Lys Tyr Leu Arg Tyr Phe Arg Arg Leu Lys
 1 5 10 15

Lys Lys Tyr Leu Asp Ala Leu Leu Leu Arg His Asn Lys Arg Ala Trp
 20 25 30

Phe Leu Phe Leu Leu Phe Asn Thr Gly Ile Ala Lys His Ala Phe Leu
 35 40 45

Asn Leu Leu Ala Arg Arg Lys Lys Gln Gly Arg Leu Met Leu Gly Ala
 50 55 60

Gly Gly
 65

<210> 3062

<211> 65

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3062

Leu Leu Lys Phe Tyr Lys Lys Ile Leu Arg Leu Trp His Arg Arg Ala
 1 5 10 15

Met Ala His Val Ile Asp Ala Lys Leu Pro Arg Lys Lys Ala Ile Arg
 20 25 30

Trp Asp Thr Ala Arg Leu Ala Pro Lys Tyr Asp Lys Leu Ala Asn Glu

35

40

45

Leu Lys Ser Lys Ala Thr Arg Thr Leu Glu Ala Thr Leu Arg Ala Lys
 50 55 60

Gly
 65

<210> 3063
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3063

Met Ile Lys Tyr Leu Ser Lys Phe Ile Lys Lys Trp Lys Arg Asn Ala
 1 5 10 15

Lys Ile Ile Ala Lys Ala Ala Ile Asp Ala Arg Leu Leu
 20 25

<210> 3064
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3064

Phe Leu Lys Leu Leu Arg Lys Met Leu Lys Leu Met Arg Lys Ile Gly
 1 5 10 15

Ile Pro Ala Ile Arg Arg
 20

<210> 3065
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3065

Leu Leu Lys Leu Ile Lys Lys Tyr Leu Lys Phe Leu Arg His Asn Thr

1 5 10 15

Lys His Leu Leu Leu Leu Gly Thr Arg Arg Tyr Tyr Ala Gln Arg Val
 20 25 30

Leu Arg Tyr Leu
35

<210>	3066
<211>	43
<212>	PRT
<213>	Artificial Sequence

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<220>  
<223> Computer-generated peptide variant
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<400> 3066

Arg Ile Arg Phe Phe Lys Arg Met Leu Lys Lys Tyr Lys Arg Ala His
1 5 10 15

Asp Ala Arg Asp Tyr Ala Leu Lys Ser Pro Ala Ala Phe Arg Asn Leu
20 25 30

Tyr Phe Tyr Ala Lys Asp Lys Arg Ala Leu Arg
35 40

<210>	3067
<211>	43
<212>	PRT
<213>	Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 3067

Arg Trp Lys Leu Tyr Lys Lys Leu Trp Arg Arg Phe Thr Arg Gln Gly
1 5 10 15

Trp Lys Phe Arg Lys Gln Glu Arg Leu Asn Cys Met Gly Leu Cys Leu
20 25 30

Arg Leu Arg Leu Lys Leu Asn Trp Cys Leu Ala
35 40

$\langle 210 \rangle$	3068
$\langle 211 \rangle$	30
$\langle 212 \rangle$	PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3068

Arg Tyr Arg Leu Leu Lys Lys Phe Met Arg Leu Trp Asn Lys Cys Val
1 5 10 15

Leu Tyr Leu Lys Leu Ala Asn Leu His Lys Ala Glu Ile Lys
20 25 30

<210> 3069

<211> 43

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3069

Met Trp Lys Leu Phe Gln Lys Leu Leu Lys Leu Tyr Arg Arg Arg Lys
1 5 10 15

Leu Met Tyr Met Phe Lys Leu Arg Arg Asp Lys Gln Phe Leu Lys Arg
20 25 30

Leu Trp Ala Leu Ala Arg His Lys Lys Leu Gly
35 40

<210> 3070

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3070

Lys Leu Arg Leu Leu Lys Arg Leu Leu Lys Phe Phe Lys Ser Phe Leu
1 5 10 15

Arg Asn Ala Cys Ala Gly Ala Ala Ala Arg Gln Arg Arg Thr Met Gly
20 25 30

Gln Asp Lys Ala Thr Thr Lys Ile
35 40

<210> 3071
 <211> 45
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3071

Arg Trp Lys Leu Phe Lys Lys Phe Leu Lys Arg Phe Arg Arg Ala Arg
 1 5 10 15

Ser Ile Ala Ala Ala Leu Lys Leu Ala Arg Ala Ile Trp Lys Val Lys
 20 25 30

Trp Val Arg Ala Lys Ala Lys Ser Leu Ser His Ile Phe
 35 40 45

<210> 3072
 <211> 39
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3072

Arg Leu Arg Phe Met Pro Arg Leu Leu Arg Arg Phe Lys Lys Arg Thr
 1 5 10 15

Val Leu Leu Ala Ala Leu Trp Asp Gln Lys Tyr Asn Asp Tyr Lys Pro
 20 25 30

Arg Arg Leu Gln Val Ala Asp
 35

<210> 3073
 <211> 56
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3073

Trp Tyr Arg Trp Leu Arg Lys Leu Trp Lys Arg Leu Arg Lys Gln Leu
 1 5 10 15

Asp Trp Arg Thr Lys Asn Val Trp Phe Lys Leu Ser Ala Ala Ser Ala
 20 25 30

Ala Gly Arg Asp Arg Pro Leu Lys Leu Ala Leu Tyr Ala Cys Trp Tyr
 35 40 45

Arg Lys Lys Met Arg Ala Trp Lys
 50 55

<210> 3074
 <211> 78
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3074

Arg Leu Lys Leu Phe Lys Arg Phe Leu Lys Lys Tyr Lys His Lys Ser
 1 5 10 15

Lys Val Thr Ile Asn Arg Ile Leu Arg Thr Cys Ala Ala Asn Trp Ala
 20 25 30

Ala Lys Ala Arg Arg Lys Arg Gln Pro Ala Cys Leu Glu Met Ser Lys
 35 40 45

Arg Phe Leu Ala Ala Trp Leu Lys Arg Ala Arg Ala Lys Leu Lys Ala
 50 55 60

Met Ile Ala Cys Gly Lys Ala Met Arg Thr Ala Lys Met His
 65 70 75

<210> 3075
 <211> 42
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3075

Lys Leu Arg Phe Tyr Lys Arg Ile Trp Lys Leu Leu Lys Lys Pro Phe
 1 5 10 15

Ala Ser Cys Cys Leu Pro Asn Gln Leu Leu Arg Arg Gln Phe Asn Gln

20

25

30

Ala Asn Lys Ala Arg Ala Ala Cys Ala Leu
 35 40

<210> 3076
 <211> 26
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3076

Lys Leu Arg Trp Phe Lys Lys Trp Phe Arg Leu Phe Gln Arg Leu Asp
 1 5 10 15

Pro Ile Leu Val Ala Ala Ile Leu Lys Lys
 20 25

<210> 3077
 <211> 42
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3077

Arg Tyr Arg Phe Leu Lys Lys Phe Leu Lys Lys Leu Arg Pro Gln Leu
 1 5 10 15

Val Lys Asp Lys Met Lys Trp Leu Cys Asn Ala Lys Lys Leu Lys Ala
 20 25 30

Gly Val Ala Cys Arg Asp Leu Gln Arg Ala
 35 40

<210> 3078
 <211> 68
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3078

Ile Leu Lys Leu Ile Lys Arg Met Phe Lys Phe Leu Cys Asn Arg Lys

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1              5              10              15

Ala Asp Leu Lys Arg Ala Thr Lys Val Leu Arg Cys Lys Ala Leu Pro
      20              25              30

Arg Lys Ala Gln Asp Ser Tyr Arg Leu Ala Trp Ala Trp Ala Arg Ala
      35              40              45

Lys Lys Glu Ala Leu Gln Gln Gln Tyr Ala Leu His Gln Phe Leu Lys
      50              55              60

Leu Arg Gln Tyr
65

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<210>	3079
<211>	43
<212>	PRT
<213>	Artificial Sequence
<220>	
<223>	Computer-generated peptide variant
<400>	3079

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Ile Leu Lys Phe Leu Gln Arg Leu Tyr Lys Arg Leu His His Gly Thr
1          5          10          15

Pro Thr Met Lys Arg Ala Lys Tyr Arg Ala Arg Leu Arg Glu Leu Ala
          20          25          30

Glu Lys Cys Ile Leu Gly Cys Lys Leu Ile Ala
          35          40

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<210>	3080
<211>	32
<212>	PRT
<213>	Artificial Sequence
<220>	
<223>	Computer-generated peptide variant
<400>	3080

Phe Tyr Lys Phe Tyr Arg Lys Met Leu Lys Leu Ile Lys Arg Asn Lys
1 5 10 15

Arg Arg Leu Gly Ala Leu Leu Lys Arg Ala His Tyr Met Asn Gln Ala
20 25 30

<210> 3081
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3081

Trp Leu Lys Met Leu His Lys Phe Phe Lys Arg Leu Lys Arg Ala Leu
 1 5 10 15

Ser Met Cys Arg Pro Leu
 20

<210> 3082
 <211> 90
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3082

Arg Trp Lys Tyr Leu Ser Lys Leu Ile Arg Arg Phe Arg Gln Ile Ala
 1 5 10 15

Gly Leu Val Lys Arg Leu Arg Met Arg Asp Lys Ile Ile Cys Leu Arg
 20 25 30

Asp Tyr Ala Arg Asn Asn Ala Ser Ala Ile Cys Lys Leu Leu Ala Gly
 35 40 45

Leu His Ala Leu Met Ala Ala Met Leu Tyr Gln Ala Ala Arg Ala Arg
 50 55 60

Phe Arg Glu Pro Lys Trp Arg Tyr Gln Arg Asn Ala Gly Leu Leu Ala
 65 70 75 80

Lys Thr Pro Arg Asp Arg Arg Phe Gly Ala
 85 90

<210> 3083
 <211> 81
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3083

Lys	Ile	Lys	Leu	Leu	Lys	Lys	Leu	Leu	Arg	Arg	Ile	Cys	Lys	Ile	Asn
1				5					10					15	

Asn	His	Ala	Lys	Lys	Tyr	Asp	Asn	Phe	Lys	Pro	Thr	Arg	Thr	Leu	Lys
			20					25					30		

Gln	Arg	Leu	Lys	Cys	Met	Lys	Lys	Phe	Asp	Leu	Val	Leu	Ala	Ser	Thr
		35					40					45			

Ala	Met	Cys	Asn	Gly	Met	Ala	Trp	Ala	Met	Gly	His	Gln	Asp	His	Arg
	50					55					60				

Arg	Gly	Ala	Leu	Leu	Arg	Lys	Ala	Ala	Arg	Gln	Leu	Ala	Ala	Arg	Ala
65					70					75					80

Lys

<210> 3084

<211> 63

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3084

Trp	Trp	Arg	Met	Tyr	Lys	Arg	Leu	Leu	Lys	Met	Leu	His	Ser	Arg	Ile
1				5					10					15	

Trp	Gln	Leu	Asn	Ala	Ala	Leu	Arg	Arg	Pro	Ala	Tyr	Ala	Leu	Cys	Lys
			20					25					30		

Arg	Ser	Phe	Ala	Ala	Gly	Lys	Phe	Arg	Leu	Met	Glu	Trp	His	Ala	Glu
		35					40					45			

Lys	Glu	His	Arg	Lys	Met	Arg	Arg	Leu	Lys	Lys	Ala	Gly	Glu	Arg
	50					55					60			

<210> 3085

<211> 50

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3085

Lys Leu Lys Met Phe Ser Arg Tyr Met Arg Arg Phe Arg Thr Arg Pro
1 5 10 15

Leu Arg Leu Leu Pro Leu Gln Leu His Ala Tyr Arg Met Ile Trp Met
20 25 30

Cys Met Arg Lys Ala Lys Leu Pro Arg Ile Ala Ala Leu Lys Asp Lys
35 40 45

Arg Val
50

<210> 3086

<211> 52

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3086

Trp Phe Lys Tyr Met Lys Lys Phe Leu Lys Lys Leu Gln Asn Lys Gly
1 5 10 15

Leu Arg Leu Ile Met Glu Ile Leu Arg Trp Lys Ser Met Ala Lys Gly
20 25 30

Leu Arg Leu Ala Phe Tyr Ile Cys Arg Lys Ala Arg Ala Ser Ala Ala
35 40 45

Ala Thr Ala Trp
50

<210> 3087

<211> 71

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3087

Tyr Trp Arg Phe Phe Ser Arg Ile Trp Arg Arg Leu Arg Pro Cys Arg
 1 5 10 15

Asn Leu Tyr Ala Gly Leu Lys Glu Lys Leu Asn Leu Ala Asn Ala Glu
 20 25 30

Cys Asp Ala Phe Asp Lys Trp Pro Phe Ile Arg Lys Arg Leu Ala Lys
 35 40 45

Arg Lys Ile Lys Ala Ala Lys Leu Lys Arg Leu Asp Glu Arg Phe Asp
 50 55 60

Ala Pro Arg Ala Leu Arg Arg
 65 70

<210> 3088
 <211> 55
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3088

Phe Leu Lys Met Tyr Pro Lys Met Tyr Arg Ile Trp Arg Arg Val Cys
 1 5 10 15

Arg Gln Phe Met Leu Arg Thr Ala Ala Gln Arg Glu Ala Lys Leu Leu
 20 25 30

Ala Pro Ala Arg Asn Arg Tyr Pro Met Ala Ala Leu Ala Leu Trp Lys
 35 40 45

Arg Leu Leu Leu Ala Lys Lys
 50 55

<210> 3089
 <211> 70
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3089

Lys Met Lys Trp Leu Lys Lys Phe Leu Arg Phe Tyr Arg Lys Asn Glu

[illegible]

<210>	3090
<211>	22
<212>	PRT
<213>	Artificial Sequence
<220>	
<223>	Computer-generated peptide variant
<400>	3090

Arg Met Arg Leu Trp Thr Arg Ile Leu Lys Met Tyr Lys Lys Asn Ala
1 5 10 15

Lys Leu Gly Ala Gln Ala
20

<210>	3091
<211>	66
<212>	PRT
<213>	Artificial Sequence
<220>	
<223>	Computer-generated peptide variant
<400>	3091

Arg	Phe	Lys	Phe	Leu	Arg	Arg	Met	Ile	Lys	Leu	Leu	Gln	Pro	Cys	Leu
1				5					10					15	
Arg	Arg	Arg	Leu	Tyr	Gly	Lys	Ala	Arg	Cys	Leu	Cys	His	Lys	Ala	Pro
			20					25					30		
Ile	Lys	Leu	Gly	Leu	Lys	Asp	Arg	Gly	Ala	Asn	Ala	Arg	Lys	Lys	Ala
		35					40					45			

Leu Pro Ala Cys Ala Phe Ser Ala Gln Met Gly Gln Lys His Arg Arg
 50 55 60

Phe Arg
 65

<210> 3092
 <211> 55
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3092

Lys Tyr Lys Leu Met Arg Arg Leu Leu Lys Trp Met Lys Thr Met Lys
 1 5 10 15

Arg Ala Trp Ser Arg Ala Glu Trp Arg Lys Tyr Arg Leu Thr Ala Ala
 20 25 30

Leu His Val Arg Leu Phe Lys Arg Lys Arg Ser Trp Pro Glu Tyr Leu
 35 40 45

Asn Lys Glu Ala Asn Leu Ala
 50 55

<210> 3093
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3093

Phe Phe Arg Leu Phe Lys Lys Phe Tyr Lys Trp Tyr His Lys Leu Leu
 1 5 10 15

Val Ala Lys Lys Ser Glu Arg Leu Met Pro Lys Leu Asp Ala Arg Leu
 20 25 30

<210> 3094
 <211> 49
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3094

Met	Leu	Lys	Phe	Tyr	Arg	Arg	Leu	Ile	Arg	Arg	Leu	Asn	Arg	Glu	Ala
1				5					10					15	

Pro	Arg	Glu	Arg	Ile	Leu	Ala	Glu	Phe	Lys	Glu	Arg	Ala	Trp	Arg	Cys
			20					25					30		

Arg	Arg	Phe	Ala	Ala	Leu	Leu	Cys	Ala	Leu	Asn	Leu	Ser	Lys	Asn	Ala
		35					40					45			

Thr

<210> 3095

<211> 43

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3095

Arg	Tyr	Arg	Leu	Met	Pro	Arg	Trp	Tyr	Lys	Met	Phe	Gln	Thr	Ala	Cys
1				5					10					15	

Leu	Pro	Leu	Leu	Glu	Val	Arg	Thr	Ser	Arg	Arg	Arg	Leu	Leu	Val	Leu
			20					25					30		

Leu	Ala	Leu	Lys	Lys	Arg	Cys	Arg	Thr	Leu	Arg
		35				40				

<210> 3096

<211> 56

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3096

Leu	Phe	Arg	Ile	Phe	Gln	Arg	Leu	Phe	Lys	Arg	Leu	Gln	His	Ser	Arg
1				5					10					15	

Ala	Met	Arg	Phe	Ser	Arg	Arg	Lys	Tyr	Lys	Tyr	His	Arg	Met	Leu	Phe
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

20

25

30

Arg Asp Glu Leu Asn Arg Arg Leu Leu Asp Leu Leu Leu Arg His Val
 35 40 45

Thr Lys Ala Leu Lys Pro Lys Gln
 50 55

<210> 3097

<211> 68

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3097

Lys Ile Lys Trp Phe Lys Lys Ile Phe Arg Tyr Leu Thr Lys His Leu
 1 5 10 15

Arg Leu Leu Lys Trp Leu Lys Arg Val Trp Lys Glu Arg Lys Pro Met
 20 25 30

Leu Phe Asp Leu Ala Lys Ser Arg Ala Ala Asn Gln Tyr Trp Ala Leu
 35 40 45

Arg Ser Gln Gln Lys Ala Ala Ile Arg Leu Arg Ala Tyr Ala Lys Lys
 50 55 60

Ile Lys Tyr Met
 65

<210> 3098

<211> 70

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3098

Trp Leu Lys Phe Leu Ser Arg Leu Leu Lys Lys Met Ser Arg Ala Ala
 1 5 10 15

Ala Asp Met Trp Lys Arg Gln Asn Ser Met Arg Arg Thr Leu Ile Lys
 20 25 30

Tyr Ala Lys Gly Lys Lys Tyr Ser Ala Ile Trp Arg Ala Leu Arg Lys
 35 40 45

Arg Asp Arg Leu Lys Ala Met Trp Leu Cys Phe Leu Arg Ile Lys Ser
 50 55 60

Val Pro Lys Gly Asp Lys
 65 70

<210> 3099
 <211> 83
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3099

Lys Leu Arg Ile Met Lys Arg Leu Met Lys Arg Ile Thr His Ala Lys
 1 5 10 15

Lys Lys Met Arg Ala Leu Val Gln Leu Lys Cys Ile Gln Leu Leu Arg
 20 25 30

Asn Phe Ala Cys Arg Lys Arg Arg Leu Asn Asn Met His Phe Lys Ile
 35 40 45

Asp Arg Pro Ala Ala Arg Ala Pro Leu Pro Gln Asn Arg Ala Leu Ser
 50 55 60

Leu Leu Arg Val Leu Asn Pro Lys Val Gln Lys Arg Gly Trp Leu Lys
 65 70 75 80

Ala Pro Met

<210> 3100
 <211> 86
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3100

Lys Leu Arg Phe Tyr Lys Arg Phe Tyr Lys Ile Leu Lys Pro Thr Arg

Trp Phe Arg Ile Leu Arg Lys Leu Leu Lys Arg Trp Lys Asn Asp Leu
1 5 10 15

<210>	3102
<211>	32
<212>	PRT
<213>	Artificial Sequence
<220>	
<223>	Computer-generated peptide variant
<400>	3102

Arg Arg Leu Leu Phe Arg Gly Leu Ile Glu Cys Ala Lys Lys Tyr Ala
20 25 30

<210> 3103
 <211> 49
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3103

Leu Trp Arg Phe Leu Arg Arg Phe Met Arg Phe Trp Lys Arg Glu Ala
 1 5 10 15

Glu Ala Lys Ala Arg Phe Lys Arg Ala Asp Val Met Ile Lys Ala Lys
 20 25 30

Leu Ile Arg Leu Ser Arg Leu Ala Thr Gln Leu Glu Asn Arg Trp Pro
 35 40 45

Phe

<210> 3104
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3104

Lys Phe Arg Leu Leu Pro Lys Leu Phe Lys Phe Leu Arg Arg Leu Tyr
 1 5 10 15

Leu His Ser Phe Arg Pro Ala Ile Met
 20 25

<210> 3105
 <211> 91
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3105

Lys Met Lys Phe Leu Ser Arg Leu Leu Arg Ile Phe Lys Arg Ser Ala
 1 5 10 15

Pro Gly Ile Arg Trp Asp Asn Ala Arg Asp Glu Arg Arg Ala Leu Lys
 20 25 30

Ala Trp Asn Lys Cys Lys Ala Gln Ala Ala Ala Lys Lys Glu Arg Ala
 35 40 45

Pro Thr Leu Asn Trp Gln Met Ala Ile Ala Trp Leu Lys His Lys Pro
 50 55 60

Leu Ala Leu Met Arg Cys Ser Ala Ala Glu Lys Asp Leu Arg Ala Ala
 65 70 75 80

Ala His Ile Arg Met Tyr Leu Tyr Pro Leu Arg
 85 90

<210> 3106

<211> 77

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3106

Arg Phe Lys Leu Ile Ser Lys Leu Leu Arg Arg Phe Arg Pro Arg Asp
 1 5 10 15

Arg Trp Arg Leu Lys Ala Lys Lys Arg Thr Arg Ala Ala Trp Ala Ala
 20 25 30

Leu Lys Gly Glu Tyr Glu Ala Arg Arg Arg Trp Ser Cys Leu His Ala
 35 40 45

Thr Ala Trp Gln Leu Phe Trp Glu Leu Lys Glu Arg Arg Lys Ile Leu
 50 55 60

Leu Arg Leu Cys Ser Met Arg Ala Lys Asn Asp Arg Lys
 65 70 75

<210> 3107

<211> 58

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3107

Lys Met Lys Phe Leu His Arg Met Trp Lys Ile Leu Lys Ser Asp Arg
 1 5 10 15

Ala Phe Cys Gln Gln Lys Tyr Arg Leu Ala Asp Leu Ala Arg Arg Gln
 20 25 30

Pro Leu Cys Leu Leu Lys Lys Lys Trp Pro Leu Cys Lys Ala Val Ala
 35 40 45

Thr Phe Ala Gly Met Leu Lys Leu Phe Ala
 50 55

<210> 3108

<211> 55

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3108

Lys Leu Arg Phe Ile Lys Arg Leu Tyr Lys Lys Leu Arg Lys Leu Pro
 1 5 10 15

Tyr Lys Arg Lys His Leu Lys Met Tyr Ala Arg Ala His Asn Phe Gly
 20 25 30

Asn Asn Gly Leu Val Cys Leu Lys Leu Lys Phe His Asp Lys Asp Leu
 35 40 45

Met Cys Ala Leu Lys Arg Tyr
 50 55

<210> 3109

<211> 42

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3109

Trp Leu Arg Leu Trp Lys Arg Leu Phe Lys Phe Leu Pro Arg Lys Ala
 1 5 10 15

Ala Lys Lys Lys Lys Leu Leu Arg Ile His Pro Ser Leu Lys Ile Lys
 20 25 30

Arg Ala Tyr Ala His Met Met Asp Asn Ala
 35 40

<210> 3110

<211> 45

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3110

Leu Met Lys Leu Phe Lys Lys Tyr Leu Arg Lys Ile Arg Ser Ala Lys
 1 5 10 15

Leu Ala Phe Phe Asp Ser Met Ala Arg Ala Pro Cys Gln Arg His Arg
 20 25 30

Asn Leu Cys Lys Ala Gly Leu Cys Arg Leu Gly Arg Met
 35 40 45

<210> 3111

<211> 31

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3111

Ile Met Arg Leu Ile Arg Arg Phe Leu Lys Lys Ile Gln Gln Ile Leu
 1 5 10 15

Ile Arg Ala Ala Leu Leu Met Cys Arg Arg Cys Lys Val Lys Ala
 20 25 30

<210> 3112

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3112

Lys Leu Arg Leu Leu Arg Arg Leu Leu Lys Arg Tyr Asn His Ile Lys
 1 5 10 15

Arg Pro Asp Thr Tyr Glu His Ala Ile Phe Ala Arg Gly
 20 25

<210> 3113
 <211> 27
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3113

Leu Leu Lys Phe Met Arg Lys Leu Trp Lys Met Leu His Arg Lys Cys
 1 5 10 15

Leu Ala Ala Gln Ala Val Trp His Ser Arg Arg
 20 25

<210> 3114
 <211> 92
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3114

Met Met Lys Tyr Leu Arg Lys Trp Phe Lys Trp Ile Lys Lys Ala Leu
 1 5 10 15

Ala Leu Leu Ala Glu Lys Pro Ala Asp Arg Asp Ala Gln Arg Ala Ala
 20 25 30

Cys Lys Arg Ala Phe Gln Cys Arg Met Ala Ala Asp Gly Arg Gln Leu
 35 40 45

Gly Trp Thr Glu His Arg Gly Lys Asn Cys Arg Asn Leu Arg Trp Asp
 50 55 60

Gln Lys Ala Leu Asn Arg Gly Cys Met Gly Ala Ala Leu Arg Arg Lys
 65 70 75 80

Arg Leu Ser Pro Lys Trp Leu Lys Asn Leu Leu Ala

85

90

<210> 3115
 <211> 60
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3115

Tyr Leu Arg Trp Leu Lys Arg Leu Phe Arg Phe Ile Lys Cys Ala Leu
 1 5 10 15

Gly Trp Lys Ile His Val Ala Leu Pro Arg Gln Asn Leu Ile Gly Glu
 20 25 30

Glu Ala Arg Gly Lys Leu Ala Leu Thr Leu Tyr Arg Lys Ser Val Asp
 35 40 45

Lys Leu Leu Lys Leu Leu Trp Leu Met Lys His Lys
 50 55 60

<210> 3116
 <211> 80
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3116

Lys Leu Lys Leu Tyr Arg Lys Met Met Arg Arg Ile Lys Arg Arg Leu
 1 5 10 15

Arg Asp Ala Lys Ala Ala Lys Asp Leu Ala Tyr Leu Gly Glu Trp Leu
 20 25 30

Lys Trp Lys Lys Cys Pro Pro Phe Val Ala Phe Gly Ile Ser Gln Asp
 35 40 45

Ala Asn Tyr Lys Ala Leu Gly His Leu Cys Lys Arg Leu Leu Ile Lys
 50 55 60

Phe Pro Lys Arg Leu Lys Arg Leu Ala Leu Asn Ala Met Gln His Ile
 65 70 75 80

<210> 3117
 <211> 45
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3117

Phe Ile Arg Met Tyr Arg Lys Met Leu Arg Lys Ile Asn Arg Lys Leu
 1 5 10 15

Trp Ser Tyr His Lys Ala Thr Arg Trp Ala Phe Leu Leu Asp Ala Arg
 20 25 30

Ala Gln Gly Lys Ala Asp Arg Arg Leu Lys Ala Ala Phe
 35 40 45

<210> 3118
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3118

Arg Met Lys Leu Leu Ser Arg Leu Leu Lys Lys Phe Arg Gln Lys Leu
 1 5 10 15

Leu Met Leu His Asn Ile Arg Asp Lys Pro Ala Ser
 20 25

<210> 3119
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3119

Arg Phe Arg Met Leu Thr Lys Met Leu Arg Leu Trp Arg Arg Cys Arg
 1 5 10 15

Leu Glu Lys Ala Ile Ala Pro Leu Leu Tyr Arg Met Lys Leu Tyr Arg
 20 25 30

Met Lys His Ser
35

<210> 3120
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 3120

Arg Leu Lys Leu Trp Lys Lys Trp Leu Lys Arg Phe Asn His Val Ser
1 5 10 15

Val Leu Leu Ser
20

<210> 3121
<211> 59
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 3121

Phe Leu Arg Leu Ile Thr Arg Trp Ile Lys Leu Phe Pro His Tyr Lys
1 5 10 15

Cys Ala Val Asp Ile Asn Lys Cys Leu Arg Ile Lys Glu Ile Arg Lys
20 25 30

Ile Ala Ala Ala Lys Tyr Arg Leu Cys Arg Leu Arg Ala Arg Leu Leu
35 40 45

Leu Ala His Ala Arg Ile Ser Leu Thr Leu Asn
50 55

<210> 3122
<211> 33
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 3122

Ile Phe Arg Trp Trp Asn Arg Leu Leu Arg Lys Leu Lys Arg Gly Leu
 1 5 10 15

Ala Ser Leu Ala Ala Lys Thr Gly Leu Ala Asp Leu Arg Tyr Lys Asp
 20 25 30

Val

<210> 3123
 <211> 76
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3123

Lys Phe Arg Met Leu Thr Lys Phe Leu Arg Lys Phe Arg Arg Leu Lys
 1 5 10 15

Met Asn Leu Lys Trp Ala Asp Ser Lys Lys Tyr Arg Thr Ala Ala Gly
 20 25 30

Leu Leu Val Lys His Asp Ile Arg Lys His Met Arg His Phe Phe Leu
 35 40 45

Arg Arg Phe Ala Arg Ala Arg Phe Met Tyr Pro Arg Leu Phe Ser Met
 50 55 60

Gly Ala Ala Leu Arg Ala Lys Leu Glu His Arg Asn
 65 70 75

<210> 3124
 <211> 70
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3124

Met Tyr Arg Met Phe Arg Lys Ile Leu Arg Phe Ile Arg Lys Lys Glu
 1 5 10 15

Thr Met Gln Asn Leu Leu Leu Lys Asp Asp Leu Tyr His Lys Cys Arg

Phe Leu Arg Trp Phe Lys Lys Leu Phe Lys Lys Phe Ser Pro Ala Leu
1 5 10 15

<210>	3126
<211>	67
<212>	PRT
<213>	Artificial Sequence
<220>	
<223>	Computer-generated peptide variant
<400>	3126

Pro Gln Leu Lys Pro Thr Phe His Leu Ile Ala Cys Ser Lys Ala Leu
20 25 30

Lys Leu Ala Glu Ala Lys Gly Lys Ala Val Leu Lys Arg Arg Leu Ala
50 55 60

Asn Ala Leu
65

<210> 3127
<211> 96
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 3127

Trp Met Lys Ile Met Lys Arg Leu Phe Lys Arg Leu Gln Cys Lys Leu
1 5 10 15

Met Ala Arg Cys Arg Ile Arg Glu His Thr Arg Lys Ile Arg Cys Ala
20 25 30

Lys Leu Lys Arg Lys Leu Leu Phe Leu His Lys Lys Asn Arg Leu Lys
35 40 45

Ala Pro Ser Trp Cys Lys Arg Thr Ala Leu Ala Gln Gln Leu Leu Trp
50 55 60

Leu Cys Arg Arg Met Phe Cys Glu Tyr Ala Ser Arg Ala Tyr Pro Glu
65 70 75 80

Arg Leu Ala Gln Leu Leu Thr Gly Asp Met Ala Gly Lys Ala Arg Ile
85 90 95

<210> 3128
<211> 88
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 3128

Phe Trp Arg Ile Phe Arg Lys Leu Leu Arg Met Leu His Arg His Val
1 5 10 15

Lys Lys Lys Ala Phe Thr Gln Leu Lys Ser Ala Leu Ala Leu Ile Thr
20 25 30

Leu Cys His Ser Arg Leu Arg Lys Pro Ile Ala Cys Pro Leu Ala Arg

35

40

45

Lys Ala Glu Lys Pro Leu Leu Cys Ala Lys Ala Glu Ser Asp Leu Leu
 50 55 60

Leu Ala Ala Ala Phe Arg His Trp Trp Leu Gly Arg Ile Gly Leu Lys
 65 70 75 80

Tyr Leu Asn Gln Pro Lys Leu Lys
 85

<210> 3129

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3129

Lys Leu Arg Tyr Leu Arg Arg Met Leu Lys Lys Leu Lys Lys Leu His
 1 5 10 15

Ala Trp Met Val Gly Leu Val Ala Arg Lys
 20 25

<210> 3130

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3130

Lys Tyr Arg Leu Leu Lys Arg Leu Phe Arg Lys Trp Lys His Met Leu
 1 5 10 15

Trp Ser Ala Lys Cys Val Lys Leu Lys Leu Phe Ile Gly Asp
 20 25 30

<210> 3131

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3131

Phe Leu Lys Trp Ile Ser Arg Leu Met Arg Leu Leu Arg His Lys Arg
1 5 10 15

Lys Glu Ala Leu His Leu His Pro
20

<210> 3132

<211> 56

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3132

Arg Phe Arg Trp Met Lys Arg Leu Ile Lys Ile Tyr Arg Arg Lys Lys
1 5 10 15

Arg Asn Met Phe Ala Arg Gln Leu Thr Ala Ala Ala Arg Ile Asn Ala
20 25 30

Pro Arg Ala Lys Ala Leu Asn Ala Lys Ala Cys Arg Gly Glu Leu Gly
35 40 45

Leu Leu Thr Ile Asn Ser Ala Ala
50 55

<210> 3133

<211> 58

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3133

Lys Leu Lys Tyr Phe His Arg Leu Leu Lys Arg Leu Lys Lys Leu Gly
1 5 10 15

Arg Ala Val Val Leu Lys His Met Asn Gln His Lys Leu His Thr Cys
20 25 30

Arg Arg Glu Ala Leu Ala Arg Arg Gly Arg Arg Glu Glu Ala Ile Glu
35 40 45

Ala Ala Leu Phe Leu Tyr Ala Ala Pro Arg
 50 55

<210> 3134
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3134

Phe Phe Lys Leu Phe Asn Lys Trp Tyr Lys Arg Leu Lys Arg Leu Arg
 1 5 10 15

Gln Leu Leu Arg Val Leu Cys Ala Ala Glu Phe Tyr
 20 25

<210> 3135
 <211> 41
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3135

Leu Phe Arg Ile Met Ser Arg Leu Leu Arg Phe Leu Lys Gln Ala Gln
 1 5 10 15

Ala Val Leu Thr Pro Lys Leu Ala Lys Val Ala Asp Ala Glu Arg Arg
 20 25 30

Ile Glu Trp Arg Arg Ala Pro Leu Cys
 35 40

<210> 3136
 <211> 65
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3136

Lys Leu Arg Phe Trp Thr Lys Leu Leu Lys Lys Leu Arg Cys Leu Pro
 1 5 10 15

Asn Ala Lys Arg Asp Tyr Leu Leu Ala Lys Trp Leu Asp Ala Arg Lys
 20 25 30

His Gln His Leu Lys Cys Val Met Leu Leu Leu Met His Phe Trp Arg
 35 40 45

His Lys Ile Gly Leu Arg Lys Arg Pro Asn Arg Trp Lys Met Ile Lys
 50 55 60

Asn
 65

<210> 3137
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3137

Phe Leu Lys Leu Leu Arg Lys Met Leu Arg Arg Phe His Gln Ala Asn
 1 5 10 15

Glu Ala Arg Val Cys Lys Val Leu Ala Lys Arg Ala Leu Cys Lys Lys
 20 25 30

Leu Leu Arg Cys Arg Leu Ile Ala
 35 40

<210> 3138
 <211> 42
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3138

Lys Leu Arg Tyr Ile Lys Arg Leu Phe Lys Lys Tyr Gln Cys Leu Lys
 1 5 10 15

Ser Leu Lys Arg Tyr Arg Ala Lys Gly Ser Arg Pro Ala Pro Leu Val
 20 25 30

Ala Asn Asp Arg Ala His Trp Leu Asp Leu

35

40

<210> 3139

<211> 71

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3139

Lys Leu Arg Leu Tyr Lys Lys Phe Phe Arg Ile Tyr Lys Lys Arg Gln
 1 5 10 15

Val Gln Arg Lys Arg Arg His Phe Gly Ala Pro Leu Ala Lys Arg Trp
 20 25 30

Ala Pro Ala Ala Val Pro Leu Arg Leu Leu Ile Ala Arg His Lys Cys
 35 40 45

Ala Gln Leu Thr Ser Leu Asn Val Ser Leu Cys Leu Val His Lys Leu
 50 55 60

Leu Ser Lys Cys Phe Arg Lys
 65 70

<210> 3140

<211> 31

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3140

Lys Leu Arg Leu Leu Cys Lys Ile Leu Arg Arg Leu Thr Thr Met Phe
 1 5 10 15

Cys Lys Ala Asp Ala Met Leu Met Arg Phe Arg Arg Asp Arg Glu
 20 25 30

<210> 3141

<211> 60

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3141

Lys Leu Arg Phe Leu Arg Lys Leu Leu Lys Met Phe Arg Arg Trp Asn
1 5 10 15

Leu Trp Leu Asn Pro Ala Ser Asn Asp Asn Leu His Leu Ala Thr Ala
20 25 30

Arg Ala Arg Lys Gly Leu Arg Met Gly Leu Lys His Ala Lys Ala Leu
35 40 45

Ile Lys Glu Asn Asp Trp Leu Glu Arg Val Asp Ala
50 55 60

<210> 3142

<211> 76

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3142

Lys Met Arg Phe Phe Ser Arg Leu Phe Arg Arg Leu Lys Gln Gln Leu
1 5 10 15

Ala Phe Leu Arg Lys Thr Arg Lys Thr Asp Ala Ala Lys Lys Thr Arg
20 25 30

Arg Lys Leu Arg Glu Leu Val Ala Met Lys Tyr Met Leu Ile Ala Trp
35 40 45

Arg Ala Glu Pro Arg Lys Lys Leu Ala Gly Pro Met Lys Asp Lys Val
50 55 60

Leu Leu Ala Val Thr Leu Arg Val Lys Ala Met Gln
65 70 75

<210> 3143

<211> 96

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3143

Lys Ile Arg Phe Tyr Thr Lys Leu Leu Lys Leu Leu Lys Arg Arg Gly
 1 5 10 15

Thr Ala Lys Ala Ile Leu Tyr Pro Ala His Lys Ser Ile Ser Gly Lys
 20 25 30

Thr Arg His Met Leu Arg Pro Tyr Ser Arg Phe Leu Met Ala Leu Pro
 35 40 45

Arg His Gly Leu Leu Lys Lys Leu Ile Ala Ala Ala Ala Ala Pro Val
 50 55 60

Ala Ala Ile Arg Ala Cys Gly Leu Arg Ala Arg Arg Phe Lys Val Phe
 65 70 75 80

Arg Ile Gln Pro Lys Lys Leu Asp Arg Glu Lys Leu Asp Ala Ile Tyr
 85 90 95

<210> 3144
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3144

Lys Met Arg Leu Ile Arg Arg Leu Leu Arg Met Phe Pro Lys Gln Leu
 1 5 10 15

Ala Ser Ala Pro Ser Ala Arg
 20

<210> 3145
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3145

Lys Leu Arg Phe Leu Ser Arg Trp Leu Lys Arg Tyr Thr Pro Lys Ala
 1 5 10 15

His Cys Ala Lys

20

<210> 3146
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3146

Leu Leu Lys Ile Leu Thr Lys Ile Tyr Arg Phe Trp Arg Gln Ala Tyr
 1 5 10 15

Lys Ala Phe Phe Ala Arg Thr Leu Gln Arg Lys Leu His Ser Gly Lys
 20 25 30

Lys Leu Ala
 35

<210> 3147
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3147

Arg Trp Lys Leu Tyr Lys Lys Leu Leu Lys Met Ile Cys Ser Leu Ser
 1 5 10 15

Phe Ala Gly Ala Leu Lys Cys Arg Arg Arg Leu Cys Glu Glu Arg Thr
 20 25 30

<210> 3148
 <211> 98
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3148

Leu Ile Arg Tyr Phe Thr Lys Leu Leu Arg Arg Met Arg Pro Leu Lys
 1 5 10 15

Arg Ile Lys Leu Lys Phe Lys Arg Arg Ile Gln Arg Arg Leu Leu Phe

20

25

30

Ile Arg Leu Arg Asp Lys Ala Leu Ser Met Leu Arg Met Arg His Ala
 35 40 45

Met Ala Ala Gly Leu His Lys Ile Cys Lys Ile Glu Arg Asp Gly Lys
 50 55 60

Ala Leu Thr Cys Phe Arg Arg Arg Phe Val Asp Ala Lys His Phe Cys
 65 70 75 80

Tyr Leu Leu Ile Ala Ala Arg Leu Lys Asn Leu Arg Ala Val Gln Arg
 85 90 95

Phe Pro

<210> 3149

<211> 58

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3149

Arg Phe Lys Leu Leu Lys Lys Ile Ile Lys Arg Tyr Cys Arg Leu Ala
 1 5 10 15

Pro Val Arg Leu Lys Pro Ala Trp Ala Lys Arg Lys Cys Ala Lys Leu
 20 25 30

Glu Asn Ala Gln Val Ala Cys Lys Thr Phe Ala Pro Lys Asp Arg Leu
 35 40 45

Ser Ala Arg His Gln Gln Asn Arg Ser Ser
 50 55

<210> 3150

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3150

Lys Tyr Arg Leu Phe Arg Arg Phe Leu Lys Met Leu Thr Lys Leu Thr
 1 5 10 15

Lys Phe Arg Asp Trp Arg Leu Ala Asp Leu Trp Leu Glu Lys His Phe
 20 25 30

Leu

<210> 3151
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3151

Leu Tyr Lys Leu Leu Ser Lys Leu Trp Lys Arg Trp Ser Arg Ala Thr
 1 5 10 15

Lys Thr Leu Ala Arg Met Pro Ala Lys Lys Arg Gly
 20 25

<210> 3152
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3152

Trp Leu Lys Leu Met Thr Lys Leu Met Lys Lys Ile Arg Gln Lys Asp
 1 5 10 15

Leu Ala Arg Ala Lys Val Ile Ala
 20

<210> 3153
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3153

Trp Trp Arg Phe Tyr Lys Lys Leu Leu Arg Arg Leu Asn Arg Val His
 1 5 10 15

Met Trp Ala Val Lys Lys Leu Leu Tyr
 20 25

<210> 3154
 <211> 27
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3154

Lys Tyr Arg Ile Tyr Lys Arg Tyr Phe Lys Leu Met Gln Lys Leu Leu
 1 5 10 15

Ala Gln Leu Arg Gly Trp Val Ala Asp Arg Ala
 20 25

<210> 3155
 <211> 45
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3155

Arg Leu Lys Phe Leu Lys Arg Tyr Leu Lys Leu Leu Lys Arg Arg Tyr
 1 5 10 15

Leu Arg Met Lys Ile Ile Lys Arg Lys Arg Val Ile Ala Ala His Cys
 20 25 30

Asp Ala Phe Cys Phe Ser Leu Glu Cys Ala Ala Trp Gln
 35 40 45

<210> 3156
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3156

Arg Leu Lys Phe Phe Gln Lys Phe Leu Arg Lys Leu Asn Arg Ala Ser
 1 5 10 15

His Leu Met Thr Ala
 20

<210> 3157
 <211> 66
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3157

Met Met Arg Phe Leu Cys Lys Tyr Met Lys Arg Met Lys Arg Asp Arg
 1 5 10 15

Arg Ala His Arg Lys Lys Ala Leu Ala Leu Ala Phe Met Tyr Ala Pro
 20 25 30

Lys Thr Ala Gly Gly Arg His Leu Trp Lys Asn His Phe Cys Lys Leu
 35 40 45

Asp Lys Leu Ala Arg Trp Lys Ala Leu Ile Ile Arg Thr Ala Ala Cys
 50 55 60

Ala Pro
 65

<210> 3158
 <211> 98
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3158

Arg Leu Lys Ile Leu Ser Lys Phe Trp Lys Arg Leu Cys Ser Ala Arg
 1 5 10 15

Arg Asp His Arg Gly Lys Gln Arg Lys Leu Ala His Arg Arg Phe Gln
 20 25 30

Gln Ser Leu Leu Leu Arg Tyr Leu Ala Ala Ala Leu Arg Val Lys Ala

35

40

45

Gly Leu Arg Lys Gln Ser Lys Leu Phe Thr Lys Ala Arg His Arg Thr
 50 55 60

Ile Thr Arg Asn Lys Gly Tyr Glu Arg Thr Asp His Arg Ile Arg Arg
 65 70 75 80

His Leu Pro Leu Glu Leu Trp Ala Leu Ile Lys Ile Glu Leu Leu Thr
 85 90 95

Thr Arg

<210> 3159

<211> 66

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3159

Lys Phe Lys Tyr Trp Asn Lys Leu Leu Arg Tyr Leu His Arg Lys Ser
 1 5 10 15

Arg Ala Ala Ile Phe Ile Leu Arg Phe Gln Pro Asn Ser Met Pro Trp
 20 25 30

Asp Leu Ala Thr Leu Leu Arg Glu Cys Ala Lys Ala Lys Ser Arg Arg
 35 40 45

Lys Ala Leu Arg Leu Gln Gln Arg Ala Leu Ala Val Lys Trp Lys Asn
 50 55 60

Leu His
 65

<210> 3160

<211> 48

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3160

Ile Leu Arg Leu Trp Thr Arg Tyr Ile Lys Phe Met Arg Arg Ser Leu
 1 5 10 15

Trp Lys Gly Leu Phe Ala Leu Ala Ala Lys Arg Lys Leu Lys Lys Arg
 20 25 30

Tyr Asn Cys Lys Cys Lys Leu Gly Ser Gln Ala Ala Leu Lys Val Val
 35 40 45

<210> 3161
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3161

Lys Trp Lys Leu Phe Lys Lys Phe Phe Arg Met Leu Gln Ser Arg Leu
 1 5 10 15

Ala Ala Leu Gly
 20

<210> 3162
 <211> 55
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3162

Lys Ile Arg Met Leu Ser Arg Leu Ile Arg Lys Phe Arg Lys Ala Phe
 1 5 10 15

His Ile Leu Arg Ala Arg Asp Leu Ser Ala Lys Ala Met Leu Ala Tyr
 20 25 30

Ala Leu Leu Gln Gln Arg Ser Ala Arg Asn Ile Arg His Gly Phe Lys
 35 40 45

Met Arg Trp Ala Lys Cys Gly
 50 55

<210> 3163

<211> 54
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3163

Arg Ile Lys Leu Phe Asn Lys Leu Ile Lys Phe Leu Lys Lys Leu Gly
 1 5 10 15

Ala Lys Lys Leu Thr Arg Val Lys Val Ala Leu Met Ile Met Leu Ala
 20 25 30

Gln Met Glu Lys Cys Ala Pro Cys Thr Lys Lys Thr Trp Lys Ala His
 35 40 45

Ala Ala Thr Arg Trp Arg
 50

<210> 3164
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3164

Lys Leu Lys Ile Leu Asn Arg Trp Leu Lys Trp Phe Lys Pro Tyr Pro
 1 5 10 15

Ala Ala Lys Arg Val Val Ala Ser Lys Trp Ala Pro Lys
 20 25

<210> 3165
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3165

Met Trp Lys Leu Tyr Arg Arg Ile Met Arg Lys Trp His Asn Leu Ala
 1 5 10 15

Met Trp Asp Lys Ala Leu Cys Arg Arg Leu Leu Ile Lys Lys

20

25

30

<210> 3166
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3166

Tyr Leu Arg Ile Tyr Lys Lys Phe Leu Lys Arg Ile Pro Arg Cys Gly
 1 5 10 15

Gly Thr Pro Cys Lys Ala Leu Lys Ala Arg Ser Ala Arg Ala Ile Leu
 20 25 30

Asp Lys Ala His
 35

<210> 3167
 <211> 47
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3167

Tyr Leu Arg Ile Ile Gln Lys Leu Ile Lys Arg Phe Lys Lys Gln Leu
 1 5 10 15

His Tyr Ala Leu Arg Arg Tyr Arg Leu Lys Arg Lys Ser Asp Val Ser
 20 25 30

Arg Lys Ile Ala Glu Gln Asn Ala Leu Leu Val Ala Tyr Lys Phe
 35 40 45

<210> 3168
 <211> 67
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3168

Lys Phe Lys Leu Ile His Lys Phe Phe Lys Lys Leu His Ser Glu Ile

1								5								10								15
Met	Ala	Lys	Leu	Lys	Asp	Phe	Arg	Ala	Leu	Gln	Ala	Arg	Lys	Leu	Ala									
			20					25					30											
Pro	Tyr	Lys	Leu	Ala	Leu	Phe	Met	Arg	Leu	Tyr	Lys	Met	Leu	Met	Lys									
		35					40					45												
Ala	Trp	Lys	Thr	Asp	Arg	Asn	Arg	Trp	Tyr	Arg	Lys	Trp	Leu	Lys	Thr									
	50					55					60													

Leu Ala Ile
65

<210>	3169
<211>	34
<212>	PRT
<213>	Artificial Sequence
<220>	
<223>	Computer-generated peptide variant
<400>	3169

Lys Tyr Lys Leu Leu Lys Arg Tyr Phe Arg Lys Ile Pro Arg Tyr Ala
1 5 10 15

Glu Trp Ala Glu His Leu Ala Ala Gly Leu Lys Ala Ala Pro Gln Ala
20 25 30

Lys Ser

<210>	3170
<211>	55
<212>	PRT
<213>	Artificial Sequence
<220>	
<223>	Computer-generated peptide variant
<400>	3170

Arg Leu Arg Trp Leu Arg Arg Leu Leu Lys Trp Leu Lys Arg Lys Leu
1 5 10 15

Cys Leu Glu Ala His Arg Trp Asp Ala Phe Arg Lys Lys Gly Leu Asn
20 25 30

Lys Thr Trp Ala Ala Cys Gly Arg Arg Pro Lys Arg Ala His Leu Ala
35 40 45

Trp Pro Met Ala Val Arg Arg
50 55

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<210> 3171
<211> 24
<212> PRT
<213> Artificial Sequence
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<220>
<223> Computer-generated peptide variant

<400> 3171

Phe Tyr Lys Leu Phe His Arg Ile Leu Lys Met Leu Lys Arg Lys Tyr
1 5 10 15

Lys Ala Thr Ala Ser Phe Arg Ala
20

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<210> 3172
<211> 29
<212> PRT
<213> Artificial Sequence
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<220>
<223> Computer-generated peptide variant

<400> 3172

Arg Leu Lys Leu Leu Arg Arg Leu Phe Arg Leu Leu Gln Arg Arg Lys
1 5 10 15

Gln Ile Phe Trp Asn Arg Pro Trp Leu Ser Lys Pro Ala
20 25

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<210> 3173
<211> 49
<212> PRT
<213> Artificial Sequence
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<220>
<223> Computer-generated peptide variant

<400> 3173

Lys Leu Arg Leu Phe Arg Arg Phe Trp Arg Leu Leu Arg Pro Cys Ala
1 5 10 15

Leu Arg Gln Gly Lys Val Arg Gln Leu Ala Ala Tyr Leu Val Met Cys
 20 25 30

Lys Ile Lys Pro Lys Met Arg Ala Arg Ala Leu Asn Gly Arg Glu Lys
 35 40 45

Phe

<210> 3174
 <211> 50
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3174

Lys Ile Lys Leu Phe His Lys Met Leu Arg Arg Met Lys Lys His Leu
 1 5 10 15

Arg Lys Glu Glu Arg Cys Cys Leu Leu Leu Thr Lys Ala Pro His Lys
 20 25 30

Arg Ile Arg Phe Phe Leu Leu Arg Cys Ala Arg His Ala Leu Tyr Leu
 35 40 45

Gln Ala
 50

<210> 3175
 <211> 51
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3175

Lys Phe Arg Leu Phe Lys Arg Leu Leu Arg Phe Trp Arg His Ala Thr
 1 5 10 15

Asp Cys His Cys Asn Gln Leu Leu Ser Arg Tyr Lys Ala Leu Leu Tyr
 20 25 30

Thr Asn Lys Arg Lys Ala Thr Arg Lys Arg Gly Leu Trp Arg Val Lys

35

40

45

Val Leu Arg
50

<210> 3176
<211> 75
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 3176

Arg Ile Arg Met Met Lys Lys Leu Trp Arg Arg Leu Lys Cys His Ser
1 5 10 15

Phe Lys Ala Lys Leu Leu Gly Ile Arg Asn Val Arg Ala Cys Lys Met
20 25 30

Trp Gly Gln Arg Lys Leu Phe Ala Ala Val Ala Lys Asn Thr Asn Trp
35 40 45

Lys Lys Ala Arg Leu Val Gln Leu Lys Leu Leu Asn Arg Gly Ala Met
50 55 60

Lys Ala Leu Phe Lys Arg Gly Asp Phe Pro Lys
65 70 75

<210> 3177
<211> 44
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 3177

Lys Leu Arg Leu Leu Arg Arg Leu Leu Arg Leu Phe Arg Lys Arg His
1 5 10 15

Leu Thr Lys Lys Lys Trp Phe Leu Lys Lys Tyr Arg Arg Met Leu Lys
20 25 30

Leu Lys Lys Leu Ala Leu Ala Pro Arg Asn Trp Leu
35 40

<210> 3178
 <211> 50
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3178

Arg Leu Arg Ile Leu Pro Arg Leu Leu Lys Arg Phe Arg Pro Ile Leu
 1 5 10 15

Leu Asp Asp Tyr Leu Gly Leu Thr Asp Val Pro Arg Lys Gly Lys Ala
 20 25 30

Arg Ala Thr Thr Thr Leu Leu Lys Ala Lys Lys Leu Lys Leu Leu Cys
 35 40 45

Leu Leu
 50

<210> 3179
 <211> 59
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3179

Arg Phe Lys Leu Ile Gln Lys Leu Leu Lys Lys Met Arg Lys Ala Lys
 1 5 10 15

Ala Cys Lys Ala Ala Cys Lys Val Cys Ser Gly Leu Phe Ala Glu Leu
 20 25 30

Lys Ile Leu Gly Trp Tyr Ala Asn Leu Gln Leu Ala Leu Val Gly Leu
 35 40 45

Tyr Lys Arg Leu Gly Lys Arg Met Glu Phe Tyr
 50 55

<210> 3180
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3180

Leu Leu Lys Phe Trp Gln Arg Phe Met Arg Tyr Leu Arg Arg Met Ala
 1 5 10 15

Ser Arg Cys Lys Ala Leu Lys Ala Glu Lys Tyr Cys
 20 25

<210> 3181

<211> 78

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3181

Arg Phe Arg Trp Leu Arg Arg Tyr Ile Lys Leu Leu Arg Ser Asp Pro
 1 5 10 15

Glu Lys Leu Lys Lys Pro Ala Met Trp Glu Arg Cys Gln Cys His Leu
 20 25 30

Leu Arg Arg Asp Ser Leu Ala Lys Arg Pro Met Ile Ser Ser Ala Leu
 35 40 45

Arg Gly Gly Cys Phe Pro Arg Thr Lys Arg Ala Leu Gly Leu His Lys
 50 55 60

Ala Ala Ala Ala Tyr Lys Lys Ala Arg Lys Leu Ala Arg Trp
 65 70 75

<210> 3182

<211> 54

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3182

Leu Ile Arg Leu Leu Ser Arg Leu Leu Lys Arg Phe Arg Arg Arg Leu
 1 5 10 15

Arg Ala Pro Arg Met Asp Asn Gln Leu Asp Asp Trp Leu Met Gly Ile

20

25

30

Gln Arg Glu Arg Ala Leu Met Glu Cys Ala Asn Ile Tyr Lys Leu Ala
 35 40 45

Leu Ala Met Phe Lys Ala
 50

<210> 3183

<211> 89

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3183

Arg Leu Lys Leu Leu His Lys Leu Trp Lys Arg Phe Gln Arg Leu Tyr
 1 5 10 15

Ala Phe Arg Ala Leu Phe Ala Asn His Leu Ala Tyr Lys Asn Tyr Arg
 20 25 30

Ser Ser Arg Glu Glu Lys Asn Ala Arg Ala Arg Gln Leu Leu Leu Arg
 35 40 45

Thr Gln Ala Lys Asp Ala Ala Asp Arg Asp Gln Arg Ala Gly Asp Ala
 50 55 60

Gln Leu Leu Gln Val Phe Lys Lys Cys Ala Arg Ser Glu Ser Thr Leu
 65 70 75 80

Ala Ala Val His Leu Thr Gln Arg Ala
 85

<210> 3184

<211> 65

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3184

Leu Tyr Arg Leu Phe Arg Lys Phe Leu Arg Leu Phe Asn Lys Val Arg
 1 5 10 15

Leu Val Arg Arg Arg Gln Arg Lys Phe Ala Ala Ala Lys Lys Asn Thr
 20 25 30

Ala Met Leu Arg Leu Thr Leu Leu Asn Ile Gln Pro Ile Lys Phe Ala
 35 40 45

Cys Leu Met Ile Ser Tyr Glu Leu Ala Ala Trp Cys Cys Ala Trp Ala
 50 55 60

Lys
 65

<210> 3185
 <211> 37
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3185

Lys Leu Arg Leu Phe Arg Lys Met Tyr Lys Leu Met Arg Thr Phe Ala
 1 5 10 15

Lys Thr Ser Lys Lys Lys Ile Ala His Ala Ala His Ala Pro Ala Ile
 20 25 30

Leu Cys Lys Gly Ala
 35

<210> 3186
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3186

Lys Met Arg Phe Leu Pro Lys Leu Tyr Arg Lys Phe Lys Arg Leu Cys
 1 5 10 15

Leu Ala Leu Met Ser Gln
 20

<210> 3187

<211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3187

Leu Leu Arg Phe Tyr His Arg Phe Leu Lys Leu Met Arg Lys Arg Asp
 1 5 10 15

Lys Ala Thr Glu Lys Ala Asn Arg Ala Lys Asp Cys Phe Asp Gln Phe
 20 25 30

Ile Arg Met Arg Leu Val Arg Leu
 35 40

<210> 3188
 <211> 39
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3188

Lys Ile Lys Leu Phe Gln Arg Leu Leu Arg Leu Met Arg Lys Lys Tyr
 1 5 10 15

Ala Cys Gln Leu Lys His Leu Glu Val Ala Arg Leu Arg Pro Ala Ala
 20 25 30

Leu Ala Thr Trp Arg Val Leu
 35

<210> 3189
 <211> 31
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3189

Leu Met Arg Trp Leu Lys Arg Phe Leu Lys Arg Ile Lys Asn Glu Arg
 1 5 10 15

Tyr Arg Gln Gly Ile Thr Cys Met Leu Lys Ala Leu Lys Leu Leu

20

25

30

<210> 3190

<211> 45

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3190

Leu Tyr Arg Ile Ile Asn Arg Leu Met Arg Arg Leu Asn Cys His Leu
 1 5 10 15

Lys Gln Ile Met Cys Met Leu Leu Leu Arg Arg Asp Ala Arg Ile Lys
 20 25 30

Leu Leu Lys Ala Asn Leu Lys Ala His Arg Trp Glu Tyr
 35 40 45

<210> 3191

<211> 60

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3191

Leu Phe Arg Phe Phe Lys Arg Trp Leu Lys Lys Phe Arg Thr Gln Ile
 1 5 10 15

His Ala Arg Arg Leu Ala Arg Cys Ala Arg Arg Ala Tyr Leu Lys Ala
 20 25 30

Cys Glu Tyr Cys Arg Leu Ser Leu Lys Ala Leu Gly Ala His Ala Met
 35 40 45

Ser Lys Glu Leu Leu Ser Trp Tyr Tyr Leu Lys Arg
 50 55 60

<210> 3192

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3192

Lys Tyr Lys Leu Ile Asn Lys Leu Met Lys Arg Leu Arg Thr Leu His
1 5 10 15

Leu Arg Gly Leu Ala Cys Gly Ala Ala Val Asp Pro Val Ala Arg Arg
20 25 30

Cys

<210> 3193

<211> 82

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3193

Arg Leu Lys Phe Trp Gln Arg Met Leu Arg Arg Leu Cys Lys Cys Tyr
1 5 10 15

Ser Lys Ala Leu Lys Ala Ser Tyr Met Arg Lys Phe Lys Lys Lys Trp
20 25 30

Leu Ala Gly Lys Cys Phe Lys Leu Lys Lys Lys Asn Leu Lys Cys Arg
35 40 45

Leu Ser Glu Leu Arg Cys Cys Trp His Lys Lys Leu Thr Val Arg Leu
50 55 60

Leu Lys His His Arg Arg Ala Leu Leu Ser Val Ala Leu Met Lys Gln
65 70 75 80

Ala Ala

<210> 3194

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3194

Arg Trp Lys Leu Leu His Arg Ile Leu Lys Arg Leu Thr Ser Ala Glu
 1 5 10 15

Gly Ser Arg Phe Leu Arg Trp Pro Arg Tyr Ala Pro Lys Lys Ala Gln
 20 25 30

<210> 3195

<211> 43

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3195

Lys Tyr Lys Trp Leu Arg Lys Tyr Leu Lys Phe Tyr Lys Arg Leu His
 1 5 10 15

Arg Gln Ala Ala Asn Arg Gly Leu Lys Leu Ala Asn Arg Glu Lys Gly
 20 25 30

His Leu Lys Pro Leu Arg Ala Trp Cys Leu Lys
 35 40

<210> 3196

<211> 59

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3196

Arg Met Arg Phe Phe Asn Lys Tyr Trp Arg Lys Leu Arg His Ala Asp
 1 5 10 15

Ile Leu Arg Phe Leu Gly Arg Glu Ala Lys Ser Ala Lys Ala Leu Arg
 20 25 30

Leu Lys Lys Cys Ala Cys Ala Leu Leu Arg Lys Cys Leu Arg Leu Arg
 35 40 45

Asp Gly Gly Leu Thr Ala Glu Leu Ala Glu Thr
 50 55

<210> 3197

<211> 67
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3197

Arg Trp Arg Leu Ile Lys Lys Leu Tyr Lys Leu Trp Lys Lys Met Pro
 1 5 10 15

Ala Gln Leu Lys Ser Arg Asn Phe Met Cys Phe Leu Thr Arg Ala Cys
 20 25 30

Arg Leu Leu Ala Val Ile Met Ala Leu Leu Arg Leu Pro Leu Thr Ala
 35 40 45

Lys Arg Leu Arg Ala Lys Lys Ala Phe Ala Lys Glu Asn Arg Lys Arg
 50 55 60

Tyr Ala Ala
 65

<210> 3198
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3198

Arg Leu Lys Leu Leu Gln Lys Leu Leu Lys Arg Leu Cys Asn Lys Gly
 1 5 10 15

Lys Ala Leu Asp Val
 20

<210> 3199
 <211> 38
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3199

Lys Leu Lys Leu Phe Arg Lys Phe Ile Arg Arg Trp Gln Arg Asn Thr

1 5 10 15

Lys Thr Tyr Ala Ile Arg Asp Leu Leu Ala Gln Asp Leu Thr Ala Trp
20 25 30

Arg Glu Arg Thr Arg Leu
35

<210> 3200
<211> 29
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 3200

Arg Trp Arg Trp Tyr Gln Arg Tyr Leu Lys Leu Ile Arg Arg Ala Ala
1 5 10 15

Ala Tyr Arg Ala Asp Tyr Phe His Cys Arg Ala Met Ala
20 25

<210> 3201
<211> 45
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 3201

Leu Leu Lys Phe Tyr Asn Arg Leu Leu Arg Ile Phe Thr Arg Asp Leu
1 5 10 15

Arg Phe Lys Leu Asp Pro Phe Arg Lys Arg Pro Ala Ala Ala Arg Lys
20 25 30

Thr Leu Gln Gly Asn Leu Arg His Asn Lys Cys Ala Lys
35 40 45

<210> 3202
<211> 51
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 3202

Arg Trp Arg Leu Tyr Arg Lys Ile Leu Arg Arg Tyr Arg Arg Phe Arg
1 5 10 15

Asn Ala Ala Asn Ser Asp Phe Ala Arg Leu Lys Met Ala Gln Gln Arg
20 25 30

Arg Leu Trp Leu Thr Thr Thr Ala Val Ala Arg Ala Gly Arg Thr Gly
35 40 45

Ala Tyr Lys
50

<210> 3203

<211> 31

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3203

Arg Leu Lys Ile Phe Arg Lys Phe Ile Lys Lys Leu His Arg Ala Leu
1 5 10 15

Tyr Leu Ser Ala Glu Leu Trp Gly Arg Arg Val Leu Phe Asn Leu
20 25 30

<210> 3204

<211> 55

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3204

Arg Ile Arg Leu Trp Lys Arg Ile Tyr Lys Leu Phe Thr Pro Cys Arg
1 5 10 15

Lys Ala Gly Lys Asp Ala Asp Lys Phe Trp Lys Lys Ala Asp Ala Lys
20 25 30

Arg Arg Cys Ala Thr Thr Ala Leu Pro Ala Ala Phe Glu Ala Arg Lys
35 40 45

Ser Leu Gly Arg His His Ala
 50 55

<210> 3205
 <211> 37
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3205

Leu Leu Arg Tyr Trp Lys Lys Tyr Leu Arg Lys Tyr Lys Lys Tyr Gly
 1 5 10 15

Arg Trp Arg Ala Leu Arg Ala Met Arg Lys Asp Gln Leu His Ala Ala
 20 25 30

Leu Gly Asp Arg Met
 35

<210> 3206
 <211> 65
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3206

Leu Met Arg Leu Leu Arg Lys Tyr Leu Lys Phe Met Arg Lys Ala Ala
 1 5 10 15

Lys Arg Asn Arg Cys Pro Arg Ile Ala Asp Ala Thr Glu Thr Lys Ile
 20 25 30

Ala Lys Ala Phe Ile Val Arg Thr Ala Val Arg Ala Pro Asn Leu Arg
 35 40 45

Ala Cys Lys Leu Val Cys Glu Met Arg Ala Trp Leu Phe Ala Ser Arg
 50 55 60

Asn
 65

<210> 3207

<211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3207

Ile Leu Lys Met Phe His Arg Trp Phe Arg Arg Ile Arg Pro Ala Arg
 1 5 10 15

Leu Arg Gly Arg Glu Tyr Tyr Val Ala Ala Lys Leu Leu Cys Leu Gly
 20 25 30

Arg Lys

<210> 3208
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3208

Lys Phe Arg Phe Leu Lys Lys Leu Tyr Lys Lys Leu Lys Lys Leu Ala
 1 5 10 15

Ala Ala Met Ala Ala Arg Cys Ser
 20

<210> 3209
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3209

Lys Met Arg Met Tyr Lys Lys Leu Trp Arg Lys Phe Thr Lys Arg Asp
 1 5 10 15

Glu Tyr Leu Ala Leu Arg Arg Leu Glu Leu Thr Gln Asn Ala Met Leu
 20 25 30

Leu Leu

<210> 3210
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3210

Leu Ile Arg Leu Tyr Arg Arg Leu Ile Lys Lys Leu Gln His Met Ala
 1 5 10 15

Arg Leu Ser Cys Lys Gly Cys Ser Leu Ala Lys Leu Leu Phe Lys Ile
 20 25 30

Lys Asp Gln
 35

<210> 3211
 <211> 46
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3211

Phe Leu Arg Leu Leu Arg Lys Leu Phe Lys Lys Leu Lys Arg Glu Ala
 1 5 10 15

Ala Asp Phe Leu Cys Gln Ile Arg Glu Lys Ala Arg Ser Tyr Ile Leu
 20 25 30

Leu Ser Ala Val Leu Arg His Leu Glu Tyr Ala Asn Cys Gly
 35 40 45

<210> 3212
 <211> 72
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3212

Phe Trp Arg Leu Tyr Lys Arg Ile Met Arg Phe Leu Gln Pro Ala Asp

Lys Trp Arg Met Leu Gln Lys Leu Trp Arg Lys Trp Lys Arg Tyr Arg
1 5 10 15

Trp Thr Ala Thr Ala Ala Asn Arg Phe Met His Ala Lys Ala Ala
20 25 30

Arg	Leu	Arg	Phe	Met	Ser	Arg	Tyr	Leu	Arg	Leu	Leu	Lys	Arg	Ala	Ala
1				5					10					15	
Arg	Val	Leu	Leu	Trp	His	Tyr	Arg	Leu	Val	Lys	Ala	Lys	Arg	Phe	Ala
			20					25					30		
Ala	Pro	Ala	Ser	Ala	Asn	Phe	Pro	Leu	Glu	Arg	Cys	Met	Val	Phe	Gln
		35					40					45			

Gly Leu Val Leu Lys Asp Arg
 50 55

<210> 3215
 <211> 38
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3215

Leu Leu Arg Leu Ile Cys Lys Leu Phe Lys Arg Phe Arg Arg Asn Gly
 1 5 10 15

Val Met Val Lys Arg Asn Asp Ala Ala Arg Ala Leu Leu Lys Trp Arg
 20 25 30

Tyr Met Asp Lys Gly Thr
 35

<210> 3216
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3216

Arg Leu Arg Leu Leu Arg Arg Phe Ile Arg Leu Trp Arg Lys Asp Ala
 1 5 10 15

Gly Thr Lys Gly Ala Thr Leu Gln Ala Cys Leu Arg Thr His Leu Arg
 20 25 30

<210> 3217
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3217

Phe Trp Arg Leu Leu Lys Arg Leu Leu Arg Arg Leu Cys Ser Lys Gly
 1 5 10 15

Ala His Ala Lys Cys
20

<210> 3218
<211> 33
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 3218

Arg Leu Lys Trp Met Lys Lys Phe Leu Arg Phe Leu Lys Arg Leu Phe
1 5 10 15

Gln Ala Trp Leu Leu Cys Lys Ser Lys Lys Ala Met Asn Arg Asp Gln
20 25 30

Ala

<210> 3219
<211> 66
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 3219

Lys Phe Lys Tyr Trp Ser Lys Met Ile Arg Leu Trp Arg Gln Ala Pro
1 5 10 15

Arg Leu Ala Arg Met Asn Leu Gly Lys Leu Leu Lys Met Ala Ala Lys
20 25 30

Leu Pro Ser Asp Pro Ala Arg Met Lys Asp Arg Arg Tyr Phe Glu Ala
35 40 45

Cys Arg Asn Lys Arg Tyr Ala Thr Leu Val Glu Lys Arg Arg Lys Leu
50 55 60

Ala Trp
65

<210> 3220

<211> 90
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3220

Leu Tyr Lys Phe Trp Arg Arg Phe Leu Arg Arg Met Lys Cys Leu Trp
 1 5 10 15

Thr Lys Lys Ile Leu Gln Lys Val Leu Ala Leu Arg Leu Leu Ala Asn
 20 25 30

Pro Lys Lys Leu Trp Arg Lys Leu Lys Ala Leu Met Arg Ser Leu His
 35 40 45

Trp Gly Glu Met Thr Lys Pro Lys Asn Ala Leu Ala Leu Tyr Arg Val
 50 55 60

Pro Leu Ala Lys Ser Lys Leu Ser Arg Ala Asp Leu Leu Thr Ala Thr
 65 70 75 80

Lys Ala Leu Arg Trp Lys Arg Ile Ser Leu
 85 90

<210> 3221
 <211> 69
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3221

Lys Phe Lys Tyr Trp Arg Arg Phe Trp Arg Arg Met Arg Lys Lys Ala
 1 5 10 15

Ala Thr Cys Ala Phe Asp Gly Met Leu Lys Met Arg Lys Lys Leu Thr
 20 25 30

Thr Ala Glu Leu Ile Arg Glu Arg Ala Phe Ala Leu Ala Arg Gln Arg
 35 40 45

Lys Arg Phe Arg Asn Lys Glu Ala Asp Ser Leu Gly Trp Lys Thr Leu
 50 55 60

Trp Ala Ala Leu Leu
65

<210> 3222
<211> 36
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 3222

Tyr Phe Arg Leu Met Arg Lys Phe Tyr Lys Lys Leu Lys Gln Ala Ile
1 5 10 15

Phe Lys Pro Leu Ala Leu Trp Lys Asn Cys Pro Ala Ala Val Trp Ser
20 25 30

Leu Arg Arg Arg
35

<210> 3223
<211> 52
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 3223

Leu Leu Arg Phe Phe Ser Arg Met Tyr Lys Lys Leu Lys Lys Asp Ala
1 5 10 15

Met Leu Leu Ala Thr Arg Arg Arg Lys Ala Ile Arg Pro Tyr His Ala
20 25 30

Pro Asn Glu Lys Asn Lys Leu Gln Ser Phe Leu Tyr Cys Leu Ala Lys
35 40 45

Leu Arg Pro Arg
50

<210> 3224
<211> 26
<212> PRT
<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3224

Leu	Trp	Lys	Phe	Leu	Arg	Arg	Phe	Leu	Lys	Trp	Leu	Asn	Thr	Arg	Leu
1				5					10					15	

Glu	Ala	Lys	Met	Glu	Arg	Ile	Ile	Ala	Ala
			20					25	

<210> 3225

<211> 56

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3225

Ile	Leu	Lys	Tyr	Phe	Lys	Arg	Phe	Leu	Lys	Phe	Leu	Lys	Gln	Cys	Trp
1				5					10					15	

Ala	Lys	Gln	Glu	Arg	Pro	Ala	Ala	Ser	Ala	Asp	Phe	Cys	Lys	Ala	Arg
			20					25					30		

Leu	Phe	Met	Cys	Ile	Leu	Ser	Ala	Ser	Lys	Ala	Ala	His	Asn	Arg	Arg
		35					40					45			

Asp	Arg	Ala	Leu	Leu	Lys	Val	Leu
	50					55	

<210> 3226

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3226

Lys	Leu	Lys	Phe	Leu	Arg	Lys	Leu	Leu	Arg	Leu	Leu	Arg	Lys	Thr	Cys
1				5					10					15	

Tyr	Ala	Gly	Asp	Arg	Glu	Leu	Arg	Cys	Gly	Ala
			20					25		

<210> 3227

<211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3227

Arg Met Lys Leu Tyr Arg Arg Ile Leu Arg Leu Leu Pro Arg Val Leu
 1 5 10 15

Ala Arg Ala Thr Ile His Lys Cys Lys Ala Gly Ala Ala Lys Gly Tyr
 20 25 30

Met Leu

<210> 3228
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3228

Lys Phe Lys Phe Tyr Lys Lys Leu Phe Arg Lys Ile Thr Lys Leu Ile
 1 5 10 15

Gln Lys Ala Asp Gln Val Gly Arg Leu Ala Ile Met Ala Arg Ala Arg
 20 25 30

Ala Trp

<210> 3229
 <211> 44
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3229

Lys Trp Lys Ile Leu His Arg Leu Leu Lys Leu Tyr Lys Arg Glu Ile
 1 5 10 15

Gln Arg Trp Ala Leu Trp Lys Lys Leu Ile Arg Gln Cys Tyr Ala Arg

20

25

30

Arg Lys His His Lys Ala Met Gln Phe Leu Val Ala
 35 40

<210> 3230

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3230

Phe Phe Lys Leu Leu Lys Arg Met Tyr Lys Leu Phe Thr Lys Leu Asn
 1 5 10 15

Lys Lys Ser Gly Ala Arg Asn Ala His Leu Val Asp Ala Arg
 20 25 30

<210> 3231

<211> 44

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3231

Ile Leu Arg Phe Tyr Lys Arg Trp Phe Lys Leu Tyr Asn Lys Val Glu
 1 5 10 15

Leu Val Lys Thr Arg Leu Asn Lys Tyr Ala Thr Cys Arg Ala Phe Arg
 20 25 30

Leu Arg Arg Ala Cys Met Leu Arg Ala Phe Leu Arg
 35 40

<210> 3232

<211> 63

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3232

Leu Leu Lys Trp Phe Gln Lys Leu Phe Arg Phe Phe Lys Lys Thr Lys

[illegible]

Lys Leu Lys Leu Phe Thr Lys Trp Tyr Lys Leu Leu Lys Cys Lys Phe
1 5 10 15

Ser His Trp Arg Pro Val His Phe Gly Lys Leu Ala Ile Arg Gly Gln
 20 25 30

Leu Lys Leu Leu Ala Pro Leu Arg
 35 40

<210> 3235

<211> 39

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3235

Arg Ile Lys Met Phe Lys Lys Ile Leu Lys Lys Tyr Gln Lys Glu Pro
 1 5 10 15

Val Lys Thr Leu Leu Arg Ala Lys Cys Leu Val Glu Leu Val Ala His
 20 25 30

Arg Tyr Leu Arg Ala Met Ala
 35

<210> 3236

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3236

Ile Leu Lys Leu Ile Lys Arg Trp Leu Lys Lys Leu Ser Gln Leu Arg
 1 5 10 15

Ala Lys Gly Gly Gln Gln Gln Leu Phe Leu
 20 25

<210> 3237

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3237

Arg Leu Arg Ile Leu Ser Arg Phe Phe Lys Leu Leu Lys Arg Lys Arg
 1 5 10 15

Ala Ala Leu Trp Glu Met Ser Ala Trp Pro
 20 25

<210> 3238

<211> 42

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3238

Lys Ile Arg Phe Leu Lys Arg Phe Leu Lys Met Met Lys Lys Arg Val
 1 5 10 15

Ala Tyr Ala Ala Ala Ser Ile Glu Phe Arg Trp Arg Lys Cys Gln Pro
 20 25 30

Leu Asn Ala Leu Leu Thr Leu Ala Lys Ser
 35 40

<210> 3239

<211> 45

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3239

Arg Phe Lys Met Met Cys Arg Met Leu Lys Trp Met Lys Arg Leu Leu
 1 5 10 15

Leu Ala Ala Leu Cys Trp Lys Lys Cys Gln His Lys Val Asn Leu Lys
 20 25 30

Arg Ile Gly Gly Leu Leu Leu Lys Arg Glu Lys Ser Trp
 35 40 45

<210> 3240

<211> 87

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3240

Tyr	Phe	Arg	Trp	Ile	Lys	Arg	Tyr	Trp	Arg	Arg	Phe	Cys	Ser	Leu	Thr
1				5				10						15	

Leu	Leu	Leu	Arg	Ala	Lys	Asp	Cys	Ala	Val	Leu	Ser	Leu	Arg	Ala	Met
			20					25					30		

Tyr	Ala	Leu	Arg	Pro	His	Lys	Val	Pro	Lys	Val	Trp	Gly	Thr	Glu	Cys
		35					40					45			

Ala	Asp	Val	Lys	Arg	Arg	Asn	Leu	Tyr	Arg	Arg	Ala	Arg	Met	Lys	Asp
	50					55					60				

Arg	Gln	Lys	Phe	Leu	Ala	Arg	Ala	Ala	Ala	Arg	Ala	Pro	Ala	Arg	Ile
65					70					75					80

Asp	Ala	Leu	Pro	Leu	Val	Lys
				85		

<210> 3241

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3241

Lys	Phe	Lys	Tyr	Leu	Arg	Arg	Leu	Met	Lys	Leu	Leu	Lys	Cys	Glu	Leu
1				5				10						15	

His	Leu	Gly	Cys	Lys	Arg	Arg	Arg	Thr	Ser	Phe	Ala	Ala	Asn
		20					25						30

<210> 3242

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3242

Arg	Met	Arg	Leu	Tyr	Lys	Lys	Leu	Trp	Lys	Arg	Trp	Arg	Thr	Ala	Glu
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

1 5 10 15

Ala Thr Tyr Ile Leu
20

<210> 3243
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 3243

Ile Tyr Lys Leu Leu Arg Lys Leu Leu Arg Arg Ile Arg Arg Pro Asp
1 5 10 15

Met Lys Leu Asp Glu Ser Pro Met Leu Leu Lys Asn Arg Thr
20 25 30

<210> 3244
<211> 67
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 3244

Arg Trp Lys Leu Leu Pro Arg Leu Leu Lys Arg Tyr Lys Lys Lys Trp
1 5 10 15

Trp Ala Ala Ala Cys Pro Phe Leu Ala Asp Arg Thr Ala Lys Leu Ser
20 25 30

Leu Trp Lys Leu Phe Thr Met Leu Arg His Asn Arg Leu Lys Gln Lys
35 40 45

Lys Arg Leu Cys Asn Ser His Lys Leu Ser Trp Arg Arg Ala Glu Phe
50 55 60

Leu Lys Gly
65

<210> 3245
<211> 60
<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3245

Leu Leu Lys Phe Phe Lys Lys Met Trp Lys Ile Met Arg Asn Gly Asn
1 5 10 15

Lys Arg Leu Ala Ile Lys Ala Leu Thr Trp Phe Thr Arg Trp Leu Leu
20 25 30

Thr Asp Met Gly Trp Val Leu Lys Gly Ala Ala His Ala Arg Ala Met
35 40 45

Ala Val Ala Leu Arg Lys Lys Leu Leu Phe Arg Met
50 55 60

<210> 3246

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3246

Leu Leu Lys Leu Leu Lys Lys Leu Leu Lys Ile Trp Lys Gln Leu Ile
1 5 10 15

Arg Leu Lys His Lys Trp Asn Tyr Arg Lys Ala Ala Lys Gly
20 25 30

<210> 3247

<211> 59

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3247

Lys Leu Lys Trp Tyr Gln Lys Ile Leu Lys Lys Leu Arg Lys Phe Pro
1 5 10 15

Lys Ala Lys Leu Thr Glu Tyr Lys Val Gly Gln Tyr Ala Arg Met Ile
20 25 30

Gln Arg Leu Lys Ala Ile Ala Lys Ala Ala Arg Leu Lys Pro Lys Ala
 35 40 45

Leu Ala Gly Cys Arg Lys Leu Arg Arg Phe Trp
 50 55

<210> 3248
 <211> 44
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3248

Phe Leu Arg Phe Phe Lys Lys Phe Met Arg Phe Leu Lys Lys Leu Met
 1 5 10 15

Leu Ala Pro Lys Phe His Ala Lys Ala Arg Lys Ile Ala Gly Lys Ala
 20 25 30

Asp Ala Leu Tyr Lys Arg Lys Leu Lys Arg Asp Ala
 35 40

<210> 3249
 <211> 27
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3249

Phe Tyr Lys Ile Tyr Arg Lys Tyr Leu Arg Leu Phe Lys Lys Leu Pro
 1 5 10 15

Lys Ser Ser Leu Leu Asn Ala Arg His Gln Leu
 20 25

<210> 3250
 <211> 60
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3250

Lys Met Lys Leu Leu Cys Arg Leu Leu Arg Phe Ile Gln Lys Tyr Met
 1 5 10 15

Ser Ala Val Phe Ala Lys Ser Leu Met Ala Arg Val Ala Met Tyr Cys
 20 25 30

Thr His Ala Ala Ser Leu Ala Arg Leu Ala Lys Lys Lys Leu Lys Asp
 35 40 45

Glu Gln Ala Cys Lys Arg Met Arg Thr Lys Leu Lys
 50 55 60

<210> 3251

<211> 62

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3251

Arg Leu Arg Met Leu Arg Arg Leu Phe Arg Leu Leu Ser Pro Ile Lys
 1 5 10 15

Ile Arg Glu Ala Tyr Ala Leu Ala Tyr Leu Ala Ala Gln Ala Lys Ala
 20 25 30

Leu Leu Ser Lys Trp Arg Leu Trp Arg Lys Lys Gln Lys Gly Arg Arg
 35 40 45

Ala Asp Tyr Cys Arg Tyr Leu Thr Lys Ile Ala His Ala Val
 50 55 60

<210> 3252

<211> 80

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3252

Leu Leu Lys Ile Leu Lys Arg Met Phe Lys Leu Ile Arg Pro Leu Leu
 1 5 10 15

Gln Gly Lys His Lys Leu Gly Asp Leu Leu Leu Leu Ala Ala Lys Tyr

20

25

30

Ile Leu Ala Asp Lys Ala Val Ser Trp Arg Asp Leu Pro Leu Pro Leu
 35 40 45

Ile Met Lys Lys Ser Asn Arg Lys Leu Asp Trp Leu Phe Leu Asn Phe
 50 55 60

Ile Asn Gly Tyr Gly Lys Lys Lys Arg His Leu Lys Arg Ala Asp Leu
 65 70 75 80

<210> 3253

<211> 48

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3253

Arg Leu Lys Tyr Leu Arg Arg Trp Leu Arg Arg Met Asn Lys Thr Arg
 1 5 10 15

Ala Gly Arg Val Gln Arg Glu Lys Ile Arg Ala Met His Pro Ala Gly
 20 25 30

Ala Val Ala Thr Leu Arg Ala Tyr Ser Leu Arg Cys Ala Asp Leu Asn
 35 40 45

<210> 3254

<211> 39

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3254

Arg Phe Arg Ile Leu Arg Lys Phe Tyr Lys Leu Tyr Lys His Glu Ala
 1 5 10 15

Ala Leu Val Cys Ala Ala Leu Arg Ala Ala Arg Ile Tyr Tyr Lys Leu
 20 25 30

Lys Arg Gln Val Cys Arg Gly
 35

<210> 3255
 <211> 38
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3255

Trp Met Arg Phe Leu His Arg Phe Leu Lys Arg Ile Arg Lys His Met
 1 5 10 15

Ala Ala Cys Arg Lys Ala Leu Gly Trp Tyr Lys Ala Lys Ala Gln Leu
 20 25 30

Ile Lys Lys Pro Thr Glu
 35

<210> 3256
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3256

Lys Leu Lys Phe Tyr Arg Lys Trp Leu Lys Lys Tyr Arg Cys Ala Lys
 1 5 10 15

Arg Glu Asn Ala Leu Ser Met Ala Gly Gly Gly Leu Phe
 20 25

<210> 3257
 <211> 61
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3257

Arg Met Arg Trp Phe Lys Lys Phe Leu Lys Ile Met Lys Lys Lys Gln
 1 5 10 15

Pro Glu Ala Phe Leu Leu Leu Ala Lys Val Leu Cys His Arg Arg Ala
 20 25 30

Asn Lys Met Ala Phe Pro Lys Leu Lys Thr Ser Ala Ser Lys Lys Leu
 35 40 45

Gly Tyr Arg Phe Ala Arg Leu Ala Glu Arg Arg Leu Tyr
 50 55 60

<210> 3258

<211> 69

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3258

Lys Met Lys Phe Met Thr Arg Trp Ile Arg Arg Leu Arg Arg Phe Asn
 1 5 10 15

Arg Pro Arg Ala Glu Lys Leu Cys Leu Lys Thr His Thr Ala Cys Gln
 20 25 30

Ile Leu Ser Asp Pro Arg Gln Phe Lys Ala Leu Thr His Arg Leu Ile
 35 40 45

His Tyr Lys Ala Tyr Lys Leu Ala Leu Leu Leu Arg Ala Arg Leu Leu
 50 55 60

Arg Leu Gly Lys Thr
 65

<210> 3259

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3259

Arg Met Lys Tyr Leu Ser Arg Met Phe Arg Lys Ile Ser Cys Arg Ala
 1 5 10 15

Ala Pro Ala Leu Pro Ala Ser Glu Leu Ala Lys Ala Ile Ala Arg Gln
 20 25 30

<210> 3260

<211> 54
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3260

Lys Ile Arg Phe Phe Cys Lys Leu Leu Arg Lys Tyr Lys Lys Ile Ile
 1 5 10 15

Lys Trp Ile Arg Met Arg Gln Ala Leu Asn Lys Asp Ala Asn Ala Arg
 20 25 30

Ala Pro His Glu Lys Arg Leu Cys Ala Gly Ala Ala Arg Arg Thr Val
 35 40 45

Lys Ala Ile Met Leu Ser
 50

<210> 3261
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3261

Lys Phe Lys Met Leu Thr Lys Leu Ile Lys Lys Leu Lys Lys Ala Leu
 1 5 10 15

Asn Lys Pro Arg Asp Leu Leu Leu Lys Pro Gly Cys Lys Ala Leu Arg
 20 25 30

<210> 3262
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3262

Phe Leu Arg Leu Phe Arg Arg Ile Leu Lys Ile Leu Arg Asn Leu Asp
 1 5 10 15

Leu Lys Gly Leu Ser Pro Arg Asp Arg Lys Ala Leu Lys Lys Asn Leu

20

25

30

<210> 3263

<211> 45

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3263

Tyr Trp Lys Ile Leu Gln Lys Leu Leu Lys Lys Leu Arg Arg Asp Cys
 1 5 10 15

Gln Leu Arg Thr Gln Gly Arg Ala Arg Trp Leu Arg Lys Arg Lys Ala
 20 25 30

Cys Ala Cys Ala Trp Arg Ala Leu Leu Ala Ala Pro Asn
 35 40 45

<210> 3264

<211> 80

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3264

Trp Phe Lys Met Met Lys Lys Leu Leu Lys Tyr Leu Gln Arg Ser Phe
 1 5 10 15

Lys Gln Val Leu Asp Arg Ser Lys Leu Gln Cys Ala Leu Lys Arg Asp
 20 25 30

Ser Lys Leu Lys Asp Leu Gln Leu Ala Cys Ala Ser Ala Lys Gln Lys
 35 40 45

Leu Ala Lys Arg Ala Lys Asn Gln Cys Ser Glu Ala Asn Leu Met Pro
 50 55 60

Ala Arg Met Lys Lys Ala Met Tyr Asp Leu Lys Trp Arg Phe Glu Arg
 65 70 75 80

<210> 3265

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3265

Lys Tyr Lys Tyr Met Thr Arg Leu Ile Arg Leu Tyr Arg Lys Ala Ala
1 5 10 15

Thr Asn Lys Leu
20

<210> 3266

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3266

Lys Tyr Arg Phe Met Lys Lys Leu Leu Lys Leu Leu Ser Pro Arg Phe
1 5 10 15

Ala Lys Leu Leu Lys Leu Thr Leu Cys Asp Pro Arg
20 25

<210> 3267

<211> 65

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3267

Lys Phe Lys Met Phe Gln Arg Tyr Leu Arg Lys Phe Lys Arg Arg Lys
1 5 10 15

Asp Trp Thr Cys Lys Leu Thr Leu Arg Ala Ala Gln Ala Leu Lys Ala
20 25 30

Asn Leu Lys Lys Phe Cys Tyr Trp Pro Leu Trp Ala Lys Leu Phe Gln
35 40 45

Leu Leu Lys Ser Asp Lys Asn Ala Leu Ala Ser Glu Arg Lys Cys Val
50 55 60

Arg
65

<210> 3268
<211> 43
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 3268

Ile Met Arg Phe Ile Arg Lys Phe Leu Lys Arg Tyr Arg Lys Phe Ala
1 5 10 15

Leu Ala Ala Glu Asp Lys Ala Leu Ala Lys Lys Arg Tyr Leu Val Tyr
20 25 30

Lys Asn Ile Arg His Thr Gln Ala Val Ala Gln
35 40

<210> 3269
<211> 34
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 3269

Lys Leu Arg Leu Phe Arg Arg Leu Ile Arg Arg Leu Gln Arg Trp Leu
1 5 10 15

Ala Arg Val Ser Leu Trp Ala Ile Met His His Leu Ala Leu Ala Arg
20 25 30

Arg Arg

<210> 3270
<211> 54
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 3270

Leu Trp Arg Ile Leu Lys Arg Leu Leu Arg Lys Leu Arg Arg Ala Lys
 1 5 10 15

Ala Arg Ala His Asp Arg Arg Phe Arg Gln Trp Ile Tyr Ala Val Phe
 20 25 30

Gln Ser Thr Arg Trp Arg Val Phe Trp Leu Gln Ala Pro Leu Lys His
 35 40 45

Ala Gly Phe Leu His Ala
 50

<210> 3271
 <211> 63
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3271

Met Ile Lys Tyr Leu Pro Lys Tyr Leu Arg Lys Tyr Asn Pro Ala Arg
 1 5 10 15

Thr Gln Leu Arg Trp Glu Trp Ile Ser Cys Cys Asn Arg Ala Cys Ala
 20 25 30

Ala Leu Leu Lys Leu Ala Met Ser Tyr Leu Lys Trp Ala Leu Leu Arg
 35 40 45

Trp Arg Glu Trp Tyr Leu Arg Lys Lys Leu Ala Leu Ile Arg Arg
 50 55 60

<210> 3272
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3272

Leu Leu Arg Phe Leu Ser Lys Leu Leu Lys Tyr Ile His Lys Met Tyr
 1 5 10 15

Arg Leu Lys Ala Lys Met

20

<210> 3273
 <211> 52
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3273

Leu Leu Arg Trp Met Lys Arg Trp Met Arg Ile Leu Arg Arg Leu Tyr
 1 5 10 15

Trp Cys Arg Asn Arg Tyr Lys Arg Lys Lys Arg Gly Lys Lys Ala Val
 20 25 30

Glu Ala Pro Gln Lys Glu Ala Phe Gly Asp Asn Thr Leu Ala Leu Ala
 35 40 45

Ala Thr His Arg
 50

<210> 3274
 <211> 26
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3274

Leu Tyr Lys Trp Leu Gln Lys Phe Leu Arg Lys Ile Lys Lys Gly Ser
 1 5 10 15

Asp Leu Phe Leu Ala Lys Ala Pro Leu Thr
 20 25

<210> 3275
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3275

Arg Leu Lys Leu Phe Pro Arg Trp Leu Arg Lys Met Lys Lys Arg Arg

1 5 10 15

Leu Ala Leu Leu Pro Ala Trp Pro
20

<210> 3276
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 3276

Arg Leu Lys Phe Leu Lys Lys Leu Leu Arg Met Met Asn Lys Asp Ala
1 5 10 15

Lys Cys Ala Ser
20

<210> 3277
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 3277

Lys Tyr Lys Met Leu Lys Lys Phe Tyr Arg Arg Tyr Arg Cys Ala Ala
1 5 10 15

Arg Ile Leu Phe Arg Ala Ala Glu Leu Met Trp Phe
20 25

<210> 3278
<211> 36
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 3278

Arg Phe Lys Leu Phe Arg Arg Ile Ile Lys Leu Phe Pro Asn Tyr Ala
1 5 10 15

Ala Lys His Ala Lys Ala Lys Phe Cys Asn Ala Asp Asp Lys Leu Leu

20

25

30

Ser Arg Lys Leu
35

<210> 3279

<211> 50

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3279

Ile Trp Arg Leu Ile Lys Arg Leu Leu Lys Arg Phe Thr Arg Leu Trp
1 5 10 15

His Asn Gln Tyr Ala Cys Cys Ala Ser Ser Phe Lys Leu Thr Ala Tyr
20 25 30

Ile Ala Ala Cys Leu Arg Leu Trp Asp Ala Ala His Leu Lys Lys Lys
35 40 45

Lys Lys
50

<210> 3280

<211> 37

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3280

Lys Met Lys Tyr Tyr Asn Arg Leu Met Lys Leu Met Thr Thr Gly Ala
1 5 10 15

Leu Trp Arg Lys Ile Phe Ala Cys Leu Leu Arg Ala Gln Arg Arg Leu
20 25 30

Leu Tyr Arg Arg Leu
35

<210> 3281

<211> 78

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3281

Lys Phe Arg Met Ile Lys Arg Leu Leu Lys Phe Leu Lys Arg His Asp
1 5 10 15

Lys Ala Leu Lys Phe His Arg Leu Asn His Asn Ala Pro Val Glu Arg
20 25 30

Trp Ala Ala Leu Thr Leu Ser Lys Met Ser Pro Gly Thr Gly Leu Leu
35 40 45

Lys Gly His Lys Ala Arg Gly Leu Val Thr Leu Glu Leu Lys Val Leu
50 55 60

Arg Leu Arg Cys Leu Trp Trp Lys Ala Lys Arg Leu Ala Leu
65 70 75

<210> 3282

<211> 99

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3282

Arg Tyr Lys Phe Leu Lys Arg Leu Leu Arg Leu Ile Arg Arg Leu Leu
1 5 10 15

Leu Ala Arg Lys Trp Val Leu Arg Val Ser Lys Lys Val Glu Val Ala
20 25 30

Thr Ala Lys His Ala Leu Cys Arg Ile Val Leu Leu Lys Asn Met Cys
35 40 45

Lys Lys Arg Cys Leu Ala Leu Met Asp Ser Gln Lys Ala Arg Leu Cys
50 55 60

Ser Leu Pro Leu Gly Arg Lys Phe Lys Ala Val Pro Asp Ser Pro Lys
65 70 75 80

Leu Lys Arg Arg Ala Gly His Thr Glu Gly Ile Arg Asp Gly Thr Ala

85

90

95

Leu Gly Gln

<210> 3283

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3283

Phe	Leu	Lys	Ile	Leu	Arg	Lys	Tyr	Leu	Lys	Arg	Tyr	Lys	Lys	Tyr	Glu
1				5				10						15	

Cys	Leu	Trp	Lys	Lys	Leu	Ala	Ala	Leu
			20					25

<210> 3284

<211> 100

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3284

Leu	Ile	Lys	Met	Leu	Arg	Lys	Leu	Tyr	Lys	Lys	Leu	Arg	Arg	Asn	Lys
1				5				10						15	

Gln	Lys	Asn	Ile	Ala	Leu	Arg	Thr	His	Arg	His	Ala	Leu	Arg	Ala	His
			20					25					30		

Pro	Pro	Leu	Leu	Lys	Glu	Arg	Lys	Gly	Ala	Arg	Trp	Arg	Leu	Arg	Trp
		35					40				45				

Met	Leu	Ser	Met	Leu	Pro	Leu	Met	Phe	Val	Arg	Leu	Asn	Ala	Trp	Trp
	50					55					60				

Asp	Trp	Ser	Lys	Lys	Arg	Asp	Trp	Ala	Leu	Arg	Lys	Tyr	Leu	Lys	Trp
65					70					75				80	

Met	Asn	Ala	Met	Leu	Met	Ser	Ala	Lys	Lys	Lys	Asn	Trp	His	Gln	Lys
				85					90					95	

Cys Ala Lys Pro
100

<210> 3285
<211> 38
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 3285

Lys Leu Arg Leu Met Cys Arg Leu Phe Lys Arg Leu Thr Cys His Leu
1 5 10 15

Ala Leu Ser Ser Lys Ala Leu Lys Thr Leu Arg Asp Arg Glu Arg Lys
20 25 30

Leu Thr Tyr Asp Thr Lys
35

<210> 3286
<211> 50
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 3286

Lys Leu Arg Tyr Trp Arg Lys Phe Leu Lys Phe Leu Arg Asn Lys Trp
1 5 10 15

Ala His Lys Arg Thr Arg Ala Arg Cys Leu Ala Leu Leu Ala Met Asp
20 25 30

Asn Phe Lys Ala Lys Arg Arg His Pro Pro Tyr Leu Leu Leu Tyr Leu
35 40 45

Tyr Met
50

<210> 3287
<211> 88
<212> PRT
<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3287

Arg Met Lys Phe Phe Asn Arg Phe Leu Arg Lys Tyr His Arg Thr Asn
 1 5 10 15

Ile Asp Arg Thr Arg Leu Val Val Ala Arg Leu Gln Asn Leu Ala Ile
 20 25 30

Gly Tyr Leu Leu Pro Lys Tyr Phe Lys Leu Arg Leu Asn Arg Arg Pro
 35 40 45

Glu Arg Trp Trp Arg Lys Leu Ala Arg Val Gln Ser Leu Leu Leu Ala
 50 55 60

Gly Arg Lys Ala Ile Val Met Ala Leu Ala Gly Lys Leu Arg Leu Arg
 65 70 75 80

Val Leu Val Asn Arg Ile Lys Leu
 85

<210> 3288

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3288

Lys Leu Lys Phe Phe Arg Arg Leu Tyr Lys Leu Trp Asn Arg Cys Ala
 1 5 10 15

Gln Arg Leu Leu Met Leu
 20

<210> 3289

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3289

Lys Leu Lys Ile Phe Gln Arg Leu Phe Arg Leu Phe Arg Pro Arg Phe

1 5 10 15

Arg Val Tyr Ala Leu Ala
20

<210> 3290
<211> 86
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 3290

Lys Leu Lys Leu Phe Pro Arg Leu Tyr Lys Phe Leu Arg Lys Thr Lys
1 5 10 15

Ala Lys Tyr Glu Leu Leu Glu Arg Arg Cys Ala Ala Leu Asp Trp Ser
20 25 30

His Lys Glu Trp Arg Lys Arg Ala Leu Gln Ser Lys Ala Val Tyr Asp
35 40 45

Leu Asn Asn Ala Asp Leu Arg Leu Ala Ile Arg Leu Arg Ala Leu Phe
50 55 60

Gly Ser Arg Cys Gly Ala Lys Leu Cys Leu Tyr Arg Arg Thr Glu Thr
65 70 75 80

Cys Cys Thr Leu Arg Leu
85

<210> 3291
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 3291

Phe Leu Arg Leu Leu Lys Lys Leu Tyr Arg Lys Phe Lys Arg Glu Lys
1 5 10 15

Leu Cys Leu Cys Asn Lys Leu
20

<210> 3292
 <211> 51
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3292

Leu Tyr Arg Trp Tyr Lys Lys Leu Ile Arg Lys Ile Lys Ser Phe Ala
 1 5 10 15

Arg Lys Leu Gly Leu Ala Leu Cys Arg Glu Trp Ala Gln Phe Gly Tyr
 20 25 30

Ala Leu Tyr Arg Arg Leu Arg Arg Lys Ile Arg Ala Tyr Tyr Val Arg
 35 40 45

Asn Leu Leu
 50

<210> 3293
 <211> 74
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3293

Phe Leu Lys Ile Phe Asn Lys Leu Trp Lys Phe Leu Lys Arg Leu Leu
 1 5 10 15

Lys Arg Asp Asp Pro Asp Glu Tyr Met Leu Arg Leu Tyr Phe Ala Ala
 20 25 30

Leu Val Phe Ala Lys Lys Asn Gly Leu Lys Lys His Thr Leu Thr Arg
 35 40 45

Gly Asp Gln Phe Thr Val Lys Ala Lys Ala Arg Val Ala Leu Tyr Arg
 50 55 60

Met Arg Ala Ala Ala Leu Glu Leu Ala Leu
 65 70

<210> 3294

<211> 87
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3294

Phe Leu Lys Tyr Leu Lys Arg Leu Leu Arg Leu Leu Lys Thr Arg Lys
 1 5 10 15

Leu Lys Lys Thr Gly Cys Ala Asp His Arg Cys Ala Ala Lys Tyr Asn
 20 25 30

Arg Ile Ala Thr Arg Gly Ala Thr Lys Ser Asp Ala Lys Arg Ala Arg
 35 40 45

Gly Gln Lys Thr Ser Met Cys Lys Leu Cys Leu Tyr Gln Arg Ala Leu
 50 55 60

Glu Tyr Ile Thr Arg Leu Leu Gln Cys Lys Ala Arg Lys Leu Leu Asn
 65 70 75 80

Leu Leu Ala Ala Leu Ala Lys
 85

<210> 3295
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3295

Lys Trp Lys Leu Phe Arg Arg Phe Leu Arg Arg Ile Lys Asn Cys Leu
 1 5 10 15

Arg Lys Gln Ser Tyr Lys Leu Gln Leu Val Asn Arg Leu Ala Ala Met
 20 25 30

<210> 3296
 <211> 97
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3296

Lys	Tyr	Lys	Met	Leu	Asn	Arg	Leu	Tyr	Arg	Arg	Leu	Arg	Thr	Ala	Gly
1				5					10					15	

Thr	Lys	His	Lys	Ile	Gly	Leu	Lys	Leu	Ala	Cys	Lys	Val	Asp	Lys	Trp
			20					25					30		

Arg	Asn	Ala	Ala	Cys	Leu	Leu	His	Phe	Ile	Leu	Lys	Tyr	Phe	His	Lys
		35					40					45			

Gly	Lys	Phe	Ala	Leu	Met	Ala	Ser	Gln	Ala	Lys	Arg	Gln	Ile	Lys	Leu
	50					55					60				

Lys	Lys	Leu	Lys	Arg	Lys	Arg	Pro	Lys	Val	Ala	Leu	Trp	Asn	His	Glu
65					70					75					80

Arg	Asp	Ala	Ala	Lys	Lys	Leu	Lys	Leu	Lys	Ser	Met	Arg	Met	Phe	Trp
				85					90					95	

Arg

<210> 3297

<211> 63

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3297

Lys	Leu	Arg	Tyr	Phe	Cys	Lys	Tyr	Tyr	Arg	Arg	Leu	Pro	Thr	Arg	Lys
1				5					10					15	

Lys	Gln	Ile	Arg	Ala	Met	Pro	Ala	Phe	Pro	Asp	Arg	Arg	Arg	Cys	Leu
			20					25					30		

Ala	Ile	Leu	Gly	Val	Pro	Asn	Lys	Ala	Trp	Arg	Ala	Lys	Leu	Gln	Lys
		35					40					45			

Lys	Ala	Ala	Gly	Lys	Leu	Glu	Arg	His	Lys	Ala	Ser	Gln	Glu	Ala	
	50					55					60				

<210> 3298

<211> 38
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3298

Arg Ile Arg Phe Tyr Lys Lys Leu Leu Lys Arg Leu Arg Asn Arg Ala
 1 5 10 15

Ile His Lys His Phe Leu Lys Lys Gln Leu Ala Ala Thr Ala Ala Leu
 20 25 30

His Lys Asn Cys Tyr Lys
 35

<210> 3299
 <211> 55
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3299

Ile Leu Arg Leu Met Lys Arg Tyr Phe Lys Phe Tyr Lys Arg Thr Arg
 1 5 10 15

Arg Gln Arg Asp Thr Pro Leu Lys Ala Asp Ala Ala Lys Ala Trp Arg
 20 25 30

Leu Ala Leu Phe Leu Lys Leu Arg Gly Met Tyr Gln Arg Lys Ile Lys
 35 40 45

Gly Arg Pro Cys Gly Ala Leu
 50 55

<210> 3300
 <211> 46
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3300

Leu Trp Arg Ile Met Lys Lys Met Met Arg Lys Tyr Arg Asn Gln Ser


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<210> 3301
<211> 41
<212> PRT
<213> Artificial Sequence
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<400> 3301

Leu Ala Lys Val Lys Ile Leu Val Leu Asp Gln Ala Ala Lys Tyr Arg
20 25 30

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<210> 3302
<211> 36
<212> PRT
<213> Artificial Sequence
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<400> 3302

Ala Ala Arg Cys Glu Ala Lys Asp Arg Lys Leu Arg Lys Ala Leu Ala
20 25 30

<210>	3303
<211>	43
<212>	PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3303

Phe Leu Lys Leu Trp Pro Lys Leu Ile Lys Phe Leu Lys Thr Leu Pro
1 5 10 15

Ser Met Ala Asn Arg Gly Glu Ala Lys Ala Lys Tyr Arg Leu Ser Cys
20 25 30

Arg Gly Leu Ile Ala Lys Glu Lys Leu Leu Ser
35 40

<210> 3304

<211> 45

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3304

Arg Met Arg Trp Leu Pro Arg Leu Trp Lys Lys Leu Arg Lys Trp Leu
1 5 10 15

Leu Cys Met Val Arg Pro Asp Thr Leu Thr Trp Leu His Leu Ala Gly
20 25 30

Ile Ala Ser Ala Leu Lys Cys Ala Thr Arg Leu Arg Lys
35 40 45

<210> 3305

<211> 60

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3305

Phe Phe Arg Leu Leu Cys Arg Met Leu Lys Lys Ile Gln Ser Lys Asn
1 5 10 15

Arg Ser Leu Tyr Leu Arg Ala Arg Ser Lys Ile Leu Leu Gln Ala Ala
20 25 30

Leu Ala Ile Val Gly Lys Tyr Lys Met Ile Lys Ala Pro Lys Pro Ile
 35 40 45

Lys Lys Gly Arg Leu Asp Ile Gln Pro Arg Lys Lys
 50 55 60

<210> 3306

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3306

Leu Tyr Lys Leu Leu Arg Lys Tyr Met Lys Trp Leu Pro Thr Ile His
 1 5 10 15

Leu Arg Lys Lys Tyr Leu
 20

<210> 3307

<211> 72

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3307

Lys Leu Lys Tyr Leu Arg Lys Leu Phe Arg Ile Ile His Arg Gly Arg
 1 5 10 15

Thr Thr Arg Leu Leu Leu Arg Leu Asp Arg Lys His Leu Ala Ala Arg
 20 25 30

Cys Cys Leu Arg Trp Lys Trp Phe Ser Arg Ile His Thr Phe Arg Ala
 35 40 45

Lys Ala Gly Met Lys Leu Gly Glu Leu Gly Leu Ile Ile Leu Cys Leu
 50 55 60

Arg Asn Ala Arg Ile Gly Phe Arg
 65 70

<210> 3308

<211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3308

Leu Leu Arg Leu Tyr Ser Lys Leu Ile Arg Tyr Ile Arg Gln Lys Leu
 1 5 10 15

Arg Pro Lys Val Ala Asp
 20

<210> 3309
 <211> 77
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3309

Arg Tyr Arg Phe Leu Lys Lys Phe Ile Lys Leu Leu Gln Lys Tyr Ala
 1 5 10 15

Leu Arg Asp Ser Arg Lys Lys His Leu Phe Leu Ala Leu Gly Lys Cys
 20 25 30

Val Leu Lys Leu Leu Gln Met His Ala Arg Asp His Ala Lys His Lys
 35 40 45

Thr Ser His Ala Ala Arg Ala His Glu Leu Tyr Lys Ala Arg Asp Ala
 50 55 60

Thr Arg Ala Ile Phe Glu Leu Arg Pro Ala Arg Leu Ala
 65 70 75

<210> 3310
 <211> 59
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3310

Arg Met Lys Trp Leu Ser Arg Leu Phe Lys Leu Ile Lys Thr Arg Leu

Lys Leu Arg Phe Phe Gln Lys Phe Phe Lys Lys Met Lys Lys Ser Ala
1 5 10 15

Met Ala Lys Ala His Leu Leu Ala Asn Lys Ile Lys Ala Ile Ala Lys
20 25 30

Ala Arg Phe Tyr Gln Leu Trp Leu Leu His Asn Lys Lys Lys Tyr Ala
35 40 45

Leu Ala Gly Arg Lys
50

Leu Trp Arg Phe Met Lys Arg Leu Leu Arg Arg Trp Lys Lys Ala Gln
1 5 10 15

Leu Leu Lys Leu Pro Trp Arg Ala Arg Lys Arg Leu Gly Arg Gly Lys
20 25 30

Met His Arg Val Arg Ala Arg Leu Ala Leu Pro Ala Arg Lys Phe Leu
 35 40 45

Arg Asp Leu Gly Leu Arg Asp Leu Ala Lys Glu Lys Gln Ala His Lys
 50 55 60

Ala Ser Arg Glu Lys Lys Pro Lys Gln His
 65 70

<210> 3313
 <211> 65
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3313

Leu Tyr Arg Leu Tyr Lys Lys Phe Leu Lys Arg Met Asn Arg Leu Asn
 1 5 10 15

Lys Leu Ala Ile Leu Arg Gly Met His Gln Leu Leu Arg Val Asn Arg
 20 25 30

Gly Gly Lys Asp Arg Val Arg Leu His Arg Ala Trp Cys Leu Val Arg
 35 40 45

Ala Ile Ala Ala Leu Arg Arg Arg Phe Leu Leu Tyr Leu Trp Lys Arg
 50 55 60

Ala
 65

<210> 3314
 <211> 54
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3314

Arg Leu Lys Leu Leu Lys Arg Tyr Leu Arg Arg Leu Lys Arg Tyr Leu
 1 5 10 15

Thr Gln Asn Thr Thr Met Arg Ala Asn Phe Arg Val Lys Met Leu Leu

25

30

Val Ile Arg Lys Ala Asn Gly His Ala His Leu Leu Lys Lys Leu Asp
35 40 45

Arg Lys Lys Arg Tyr Trp
50

<210> 3315

<211> 57

<212> PRT

<213> Artificial Sequence

 $\langle 220 \rangle$

<223> Computer-generated peptide variant

<400> 3315

Arg Leu Arg Ile Met Lys Arg Leu Tyr Lys Trp Phe Lys Cys Phe Pro
1 5 10 15

Ala His Arg Leu Met Asn Arg Gln Gly Leu Arg Lys Arg Trp Lys Leu
20 25 30

Leu His Phe Arg Leu Lys Arg Ala His Leu Pro Trp Leu Leu Val Glu
35 40 45

Asn Lys Glu Ala Thr Ala Ala Ala Arg
50 55

<210> 3316

<211> 54

<212> PRT

<213> Artificial Sequence

 $\langle 220 \rangle$

<223> Computer-generated peptide variant

<400> 3316

Phe Leu Arg Phe Trp Lys Arg Tyr Ile Arg Lys Leu Asn Gln Pro Gly
1 5 10 15

His Arg Ile Lys Ser Trp Ala Arg Lys Ala Ser Tyr Ser Lys Arg Gly
20 25 30

Arg Lys Leu Ala Arg His Pro Ala Gly Lys Lys Ala Ala Lys Leu Cys
35 40 45

His Gly Ala Ala Arg Ala
50

<210> 3317
<211> 25
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 3317

Lys Phe Arg Met Leu Arg Lys Trp Leu Lys Phe Leu Arg Gln Ala Ala
1 5 10 15

Gln Lys Ala Asn Pro Leu Trp Arg Phe
20 25

<210> 3318
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 3318

Trp Leu Lys Phe Leu Pro Arg Trp Ile Lys Leu Ile Thr Pro Phe Leu
1 5 10 15

Ala His Lys His Gly Arg Arg Leu Gln Leu Arg Lys Arg Leu Ala Thr
20 25 30

Arg Ala Met Lys Ala Ser Trp Arg
35 40

<210> 3319
<211> 90
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 3319

Lys Leu Arg Tyr Leu Lys Lys Leu Ile Lys Arg Leu Ser Lys Ala His
1 5 10 15

Arg Arg Ala Gln Pro Ile Arg Ala Val Arg Ala Trp Tyr His Ser Lys
 20 25 30

His Ala Val Trp Arg Gly Asn Ala Arg Lys Ser Lys Cys Asp Leu Met
 35 40 45

Arg Lys Leu Arg Lys Thr Lys Ala Thr Leu Pro Ile Leu Ile Lys Arg
 50 55 60

Ser Asn Arg Phe Lys Met Ile His Lys Pro Val Leu Arg Leu Leu Gly
 65 70 75 80

Leu Lys Thr Ile Ala Ala Lys Thr Leu Gln
 85 90

<210> 3320
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3320

Lys Trp Lys Phe Trp Lys Lys Trp Ile Lys Trp Leu Gln Thr Ala Gln
 1 5 10 15

Ala Arg Leu Ala Leu Ala Gly Leu Lys Ala Lys Asn Lys Ile Lys Ala
 20 25 30

Val Cys

<210> 3321
 <211> 54
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3321

Arg Leu Lys Leu Tyr Pro Lys Phe Tyr Arg Leu Leu Arg Arg Leu Leu
 1 5 10 15

Lys Leu Ala His Arg Lys Ala Leu Thr Leu Pro Pro Thr Asp His Trp

20

25

30

Lys His Lys Ala Lys Trp Leu Phe Leu Leu Asn Phe Trp Arg Arg Ala
 35 40 45

Met Trp Leu Lys Ile Ala
 50

<210> 3322

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3322

Lys Met Lys Tyr Met Arg Arg Met Phe Lys Lys Leu Arg Arg Ala Asn
 1 5 10 15

Asp Lys Asn Ala Arg Leu Lys Ile Leu Tyr Gly Cys Leu Asp Lys Gln
 20 25 30

Asn Leu Lys Leu Trp Ala Ile Ile
 35 40

<210> 3323

<211> 49

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3323

Lys Phe Lys Leu Leu Arg Arg Phe Phe Arg Lys Met Arg Thr Val Pro
 1 5 10 15

Leu Thr Ala Ala Arg Val Ile Ala Lys Tyr Lys Pro Ala Phe Phe His
 20 25 30

Arg Thr Tyr Ala Trp Lys Lys Lys Ala Arg Arg Leu Leu Leu Ala Arg
 35 40 45

Leu

<210> 3324
 <211> 26
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3324

Tyr Leu Arg Trp Tyr Arg Lys Leu Leu Lys Arg Leu His Lys Leu Leu
 1 5 10 15

Asn Glu Phe Asp Arg Gly Lys Ala Cys Arg
 20 25

<210> 3325
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3325

Leu Phe Lys Leu Ile Arg Lys Trp Trp Arg Arg Leu Lys Arg Asp Leu
 1 5 10 15

Ala Glu Lys Leu Met Arg Leu Tyr
 20

<210> 3326
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3326

Phe Leu Lys Leu Leu Lys Arg Leu Tyr Lys Arg Ile His Lys Leu Gly
 1 5 10 15

Gly Lys Trp Gln Leu Cys Ser Lys Leu Val Gly Phe Leu Met Lys Ile
 20 25 30

Ala Lys Ala
 35

<210> 3327
 <211> 27
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3327

Lys Tyr Arg Leu Leu Cys Arg Leu Leu Lys Leu Trp Lys Cys His Arg
 1 5 10 15

Ala Met Lys Trp Asp Lys Cys Ser Ala Thr Lys
 20 25

<210> 3328
 <211> 75
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3328

Arg Phe Lys Ile Met Lys Lys Tyr Trp Lys Arg Leu Arg Arg Ala Lys
 1 5 10 15

Asn Arg Ser Met Met Ser Met Lys Asn Leu Arg Lys Leu Ala Ala Ala
 20 25 30

Glu Leu Phe Arg Tyr Ala Met Val Arg Ala His Glu Thr Leu Arg Ala
 35 40 45

Lys Ala Ala Phe Gln Cys Arg Val Ala Arg Ala Gln Tyr Ala Arg Ala
 50 55 60

His Asn Met Tyr Leu Gly Lys Gly Thr Arg Ala
 65 70 75

<210> 3329
 <211> 69
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3329

Lys Tyr Arg Tyr Phe Arg Arg Leu Leu Lys Arg Trp Asn Arg Ala Thr
 1 5 10 15

Asp Lys Ala Ala Arg Trp Arg Phe Thr Trp Cys Ile Lys Ala Lys His
 20 25 30

Val Ala Trp Leu Lys Ala Trp Leu Gly Val Leu Ala Leu Phe Ala Cys
 35 40 45

Lys Glu Arg Arg Leu Leu Asn Asp Met Asp Cys Ala Glu Tyr Leu Tyr
 50 55 60

Arg Arg Trp Lys Ala
 65

<210> 3330
 <211> 38
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3330

Lys Ile Arg Phe Tyr Arg Lys Ile Leu Arg Leu Met Pro Lys Cys Ala
 1 5 10 15

Ala Thr Cys Glu Leu Leu Lys Pro Arg Ala Lys Val Ala Val Gln Ala
 20 25 30

Leu Arg Lys Arg Asn Cys
 35

<210> 3331
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3331

Phe Leu Arg Phe Leu Lys Arg Met Leu Arg Phe Leu Cys Lys Thr Trp
 1 5 10 15

Lys Ala Asn Pro Ala Leu

20

<210> 3332
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3332

Trp Ile Arg Phe Leu Cys Arg Ile Tyr Lys Leu Leu Arg Thr Ala Leu
 1 5 10 15

Ile Asp Leu Lys
 20

<210> 3333
 <211> 74
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3333

Arg Phe Arg Met Leu Asn Lys Phe Leu Arg Arg Phe His Pro Ala Leu
 1 5 10 15

Thr Asp Arg Lys Ala Lys Lys Met Cys Phe Ala Ala Pro Thr Met His
 20 25 30

Arg Arg Arg Leu Ala Ala Arg Leu Lys Glu Asn Phe Val Lys Tyr Asp
 35 40 45

Leu Lys His Arg Leu Gln Gly Arg Lys Glu Leu Asn Val Ala Cys Leu
 50 55 60

Ala Lys Thr Arg Lys Val Ala Met Asn Arg
 65 70

<210> 3334
 <211> 51
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3334

Lys Met Lys Leu Leu Arg Lys Leu Phe Arg Lys Phe Ser Arg Leu Ala
 1 5 10 15

Ala Leu Gln Ile Arg Pro Arg Leu Leu Arg Trp Trp Asn Lys Trp Arg
 20 25 30

Pro Leu Trp Ala Leu Gly Leu Pro Asp Pro Lys Met His Arg Ile Arg
 35 40 45

Asn Tyr Arg
 50

<210> 3335

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3335

Lys Trp Lys Ile Tyr His Lys Ile Leu Lys Arg Leu Arg Asn Ala Leu
 1 5 10 15

Trp Ile Val Leu Leu Lys
 20

<210> 3336

<211> 66

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3336

Arg Phe Arg Ile Phe Gln Arg Leu Leu Arg Leu Leu His Thr Ala Gly
 1 5 10 15

Lys Ser Val Gln Ala Leu Pro Arg Thr Leu Leu Arg Leu Thr Gly Tyr
 20 25 30

Ala Leu Ala Lys Lys Arg Gln Pro Gln Arg Leu Lys Leu Arg Met Ala
 35 40 45

His Ala Arg Leu Met Val Ala Val Leu Ile Lys Leu Lys Asn Phe Lys
 50 55 60

Tyr Glu
 65

<210> 3337
 <211> 67
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3337

Lys Tyr Lys Leu Phe Lys Lys Phe Phe Lys Lys Leu Asn Arg Arg Ala
 1 5 10 15

Gln Val Arg Ala Lys Leu Lys Lys Ile Tyr Leu Ser Ala Leu Ala Glu
 20 25 30

Arg Gln Met Leu Gln Arg Asn Gln Trp Ala Ala Leu Leu Ala Tyr Arg
 35 40 45

Leu Lys Lys Glu His Ser Lys Lys Tyr Phe Pro Pro Arg Asp Met Thr
 50 55 60

Val Lys Lys
 65

<210> 3338
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3338

Arg Ile Lys Leu Leu Lys Lys Leu Leu Lys Arg Leu Arg Pro Ile Ala
 1 5 10 15

Lys Tyr Lys Gly Leu Trp Pro Ala Asp Trp Leu Arg Asp Ala Gln Leu
 20 25 30

Ile Ala Asp Ala

35

<210> 3339

<211> 50

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3339

Arg Met Lys Trp Tyr Gln Lys Tyr Leu Lys Phe Leu Lys Arg Glu Ile
 1 5 10 15

Leu Lys Lys His Arg Leu Ile Met Lys Arg Ala Ala Trp Ala Ala Ala
 20 25 30

Ala Ile Arg Trp Asn Lys Ala Trp Lys Ile Leu Trp Cys Leu Asn Arg
 35 40 45

Asp Arg
 50

<210> 3340

<211> 49

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3340

Lys Trp Lys Ile Leu Arg Arg Leu Leu Lys Lys Trp Lys Asn Lys Ala
 1 5 10 15

Pro Ala Ala Gly Pro His Ala Thr Trp Tyr His Tyr Ala Lys Gln Tyr
 20 25 30

Leu Arg Trp Arg Trp Arg Lys Ala Asp Trp Lys Lys Trp Gly His Ala
 35 40 45

Leu

<210> 3341

<211> 56

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3341

Phe Trp Arg Met Phe Gln Lys Leu Leu Arg Leu Leu Pro Lys Arg Ala
1 5 10 15

Ala Arg Val Gln Leu Ala His Arg Lys Asp Met Ala Thr Lys Lys Met
20 25 30

Gln Ala Asn Lys Leu Met Arg Ala Gly Arg Lys Phe Thr Leu Lys Asp
35 40 45

Leu Leu Arg Ile Lys Ile Tyr Met
50 55

<210> 3342

<211> 42

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3342

Lys Ile Arg Phe Ile Lys Lys Met Tyr Lys Lys Leu Asn Cys Leu Val
1 5 10 15

Ala Ala Ala Ala Ala Arg Arg Ala Arg Ala Ala Ala Asp Ala Arg Met
20 25 30

Cys Pro Asn Lys Ala Lys Glu Arg Arg Leu
35 40

<210> 3343

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3343

Arg Leu Arg Met Leu Pro Arg Trp Phe Lys Lys Leu Lys Lys Gly Lys
1 5 10 15

Thr Gln Leu Ile Thr Arg Ala Lys Leu Lys Ala Ala Asn Ala Ile Arg
 20 25 30

Cys Cys

<210> 3344
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3344

Lys Trp Lys Tyr Tyr Pro Arg Phe Leu Lys Tyr Met Arg Lys Ile Arg
 1 5 10 15

Ala Gly Ala Pro Lys Leu Arg Ile Arg Thr Asn Leu Leu Ala Arg Ser
 20 25 30

Ala

<210> 3345
 <211> 67
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3345

Leu Phe Arg Leu Ile Arg Lys Phe Met Arg Lys Tyr Arg Arg Val Glu
 1 5 10 15

Asp Arg Phe Phe Leu Arg Lys Arg Leu His Leu Trp Leu Leu Leu Arg
 20 25 30

Trp Val Asp Trp Leu Ser Lys Arg Val Leu Ala Ser Met Met Gly Lys
 35 40 45

Ile Asp Arg Ala Leu Phe Gly Arg Ala Glu Lys Tyr Arg Met Leu Leu
 50 55 60

Leu Ala His

65

<210> 3346
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3346

Arg Trp Arg Tyr Met Lys Lys Leu Leu Lys Phe Leu Lys Thr Ala Trp
 1 5 10 15

Thr Cys Lys Ala Asn
 20

<210> 3347
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3347

Lys Leu Lys Phe Met Arg Lys Tyr Leu Arg Trp Leu Lys Arg Ala Asn
 1 5 10 15

Ala Tyr Leu Lys Ile Pro Ser Ala Lys Cys Lys Leu Phe Thr Glu Leu
 20 25 30

<210> 3348
 <211> 54
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3348

Lys Trp Lys Leu Leu Asn Lys Met Phe Arg Ile Phe Lys Lys Ala Leu
 1 5 10 15

Ala Ala Arg Lys Leu Leu Leu Ala Gly Gly Asp Gln Lys Tyr Leu Thr
 20 25 30

Pro Ala Arg Leu Val Leu Ile Gln Lys Ser Cys His Gln Asn Lys Leu

35

40

45

His Ala Ala Arg Asp Arg
50

<210> 3349
<211> 59
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 3349

Lys Phe Lys Leu Phe Lys Lys Phe Ile Arg Leu Met Lys Lys Ala Ala
1 5 10 15

Arg Glu Thr Trp Asn His Ala Ala His Ala Thr Arg Phe Leu Arg Tyr
20 25 30

Ala Tyr Leu Lys Leu Lys Leu Lys Ala Ile Ser Leu Lys Lys Val His
35 40 45

Ala Ala Thr Arg Ala Lys Lys Trp Asp Ile Gln
50 55

<210> 3350
<211> 31
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 3350

Leu Tyr Lys Ile Leu Arg Arg Leu Leu Lys Leu Leu Arg Lys Lys Ile
1 5 10 15

Met Phe Arg Gly His Gly Phe Gly Val Lys Ala Ile Cys Leu Arg
20 25 30

<210> 3351
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 3351

Tyr Trp Lys Trp Leu His Arg Phe Leu Lys Arg Ile Arg Thr Leu Asn
 1 5 10 15

Lys Arg Val Ala Arg Glu Arg Leu His Lys Leu Tyr Leu Gln Leu Pro
 20 25 30

Arg Phe Leu Phe Lys Met Asp Ala
 35 40

<210> 3352

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3352

Lys Leu Lys Phe Met Arg Lys Phe Ile Arg Met Phe Arg Gln Lys Ala
 1 5 10 15

Ala Ala Trp Leu Trp Ala
 20

<210> 3353

<211> 69

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3353

Arg Leu Lys Trp Leu Thr Lys Leu Leu Lys Arg Tyr Lys Lys Ala Thr
 1 5 10 15

Thr Lys Gln Met Arg Arg Lys Tyr Tyr Arg Ala Phe Gln Arg Lys Glu
 20 25 30

Arg Ala Cys Arg Cys Leu Thr Gln Gln Asp Thr Leu Asn Leu Pro Cys
 35 40 45

Pro Trp Ala Arg Lys Ala Ile Leu Gln Lys Ala Ala Ala Val Arg Lys
 50 55 60

His Ser Cys Tyr Arg
65

<210> 3354
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 3354

Arg Leu Arg Phe Ile His Lys Trp Phe Arg Arg Leu Arg Asn Gly Leu
1 5 10 15

Lys Ala Phe Ala Leu Leu Arg
20

<210> 3355
<211> 41
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 3355

Arg Phe Lys Leu Leu Asn Lys Leu Tyr Arg Arg Trp Arg Arg Ala Lys
1 5 10 15

Leu Met Gly Leu Arg Leu Leu Leu Arg Leu His Tyr Leu Phe His Gln
20 25 30

Lys Asn Leu Lys Leu Met Arg Arg Leu
35 40

<210> 3356
<211> 72
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 3356

Lys Leu Arg Phe Phe Arg Lys Phe Ile Arg Met Leu Pro Lys Thr Lys
1 5 10 15

Asp Arg Arg Leu Tyr Ala Pro Ala Glu Arg Leu Thr Leu His Leu Arg
 20 25 30

Arg Asn Leu Arg Ala Arg Arg Met Ile Met Lys Leu Lys Leu Gly Ala
 35 40 45

Leu Cys Ile Pro Gly Cys Thr Leu Lys Leu Ala Ile Arg Cys Arg Arg
 50 55 60

Lys Lys Ala Ser Asn Arg Asp Trp
 65 70

<210> 3357
 <211> 47
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3357

Phe Phe Arg Leu Ile Arg Lys Tyr Met Arg Tyr Leu Arg Ser Gln Arg
 1 5 10 15

Ser Gln Tyr Asn Ala Ala Arg Gly Arg Leu Ala Pro Leu Leu Lys Cys
 20 25 30

Leu Lys Trp Phe Thr Ala Val Val Leu Thr Ala Leu Arg Leu Ala
 35 40 45

<210> 3358
 <211> 44
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3358

Arg Leu Lys Met Leu Arg Lys Phe Phe Arg Tyr Leu Lys Arg Lys Leu
 1 5 10 15

Lys Leu Ala Ile Arg Gly Gly Glu Arg Asn Asp His Ala Ala Lys Leu
 20 25 30

Asp Ala Pro Val Gln Cys Asn Ala Thr Tyr Arg Leu

35

40

<210> 3359

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3359

Leu Ile Arg Leu Ile Lys Arg Leu Leu Lys Arg Trp Ser Ser Ser Arg
 1 5 10 15

Leu Leu Cys Lys Arg Thr Thr Val Ala Val Ser Gln Ala Phe Arg Leu
 20 25 30

Leu Lys Arg Lys Lys Asp Pro Ala
 35 40

<210> 3360

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3360

Leu Trp Lys Met Leu Arg Arg Leu Leu Arg Lys Leu Asn Lys Ile Leu
 1 5 10 15

Ala Glu Lys Arg Arg
 20

<210> 3361

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3361

Leu Met Lys Leu Leu Lys Arg Ile Phe Arg Lys Trp Arg Arg Gln Val
 1 5 10 15

Cys Trp Ala Ala Ala Gly Leu Lys Ser Cys Met Lys Ala His Arg Ala

20

25

30

Asp Gly Ala Leu
35

<210> 3362
<211> 53
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 3362

Lys Phe Lys Tyr Ile Lys Lys Leu Trp Lys Arg Trp Lys Lys Thr Ala
1 5 10 15

Arg Thr Lys Lys Ser Leu Phe Lys Ile Gly Ala Leu Phe Thr Leu Lys
20 25 30

Tyr Gly Leu Ala Met Thr Ala Lys Lys Asn Arg Lys Leu Ala Leu Ala
35 40 45

Ser Gly Phe Ala Trp
50

<210> 3363
<211> 44
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 3363

Trp Leu Arg Leu Trp Pro Lys Leu Leu Lys Arg Leu Lys Lys Cys Trp
1 5 10 15

Arg Leu Arg Leu Ala Ala Lys Met His Arg Lys Phe Ala Cys Lys Ile
20 25 30

Glu Arg Met His Ser Pro Lys Ala Leu Phe Ser Tyr
35 40

<210> 3364
<211> 38
<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3364

Lys Phe Lys Leu Ile Lys Arg Leu Leu Arg Arg Tyr Arg Cys Ala Leu
1 5 10 15

Gln Asp Leu Leu Asp Lys Trp Ala Lys Arg Ile Arg Tyr Ala Tyr Cys
20 25 30

Phe Gln Glu Met Arg Gln
35

<210> 3365

<211> 97

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3365

Arg Trp Lys Leu Phe Lys Lys Leu Tyr Arg Lys Phe Pro Lys Leu Ile
1 5 10 15

Ala Arg Ala Ser Lys Glu Ser Pro Asp Ala Glu Thr Val Ala Ala Phe
20 25 30

Gln Leu Ala Thr Val Met Phe Lys Gln Ala Ala Asp Trp Ala Leu Lys
35 40 45

Pro Asn Lys Asn Leu Leu Arg Thr Arg Leu Ala Ala Ala Asn Trp
50 55 60

Cys Leu Lys Arg Asn Asn His Phe Ala Leu Tyr Asn Leu Lys Lys Asp
65 70 75 80

Arg Lys Arg Arg Ser Lys Ala Pro Leu Gln Asn Lys Ala Lys Arg Ser
85 90 95

Asn

<210> 3366

<211> 37
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3366

Lys Leu Arg Ile Leu Lys Lys Met Met Lys Trp Leu Gln Thr Leu Ala
 1 5 10 15

Pro Ile Pro Ser Lys Ala Leu Arg Lys Ser Leu Lys Val Lys Arg Leu
 20 25 30

Lys Leu Asp Asn Phe
 35

<210> 3367
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3367

Lys Phe Arg Leu Phe Thr Arg Phe Leu Lys Phe Leu Arg Lys Ala Pro
 1 5 10 15

Asp Ala Lys Asn Arg Gln Gly Gly Ala
 20 25

<210> 3368
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3368

Arg Trp Lys Leu Leu Lys Arg Leu Phe Lys Arg Leu His Lys Phe Ala
 1 5 10 15

Thr Ala Ala Ala Val Leu Arg Trp Met Arg Leu Lys Pro Arg Leu Trp
 20 25 30

Trp Thr Val

35

<210> 3369

<211> 83

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3369

Arg Phe Lys Phe Leu Lys Lys Leu Trp Arg Phe Tyr Lys Thr Glu Thr
 1 5 10 15

Ser Ala His Ala Val Ala Ala Met Cys Met Leu Tyr Leu Arg Lys Gln
 20 25 30

Lys Gln Leu Trp Phe Ala Lys His Asp Leu Leu Leu Leu Leu Ser Lys
 35 40 45

Pro Phe Phe Leu Gly Leu Trp Asp Leu Ala Met Leu Leu Tyr Ala Arg
 50 55 60

Lys Trp Lys Arg Leu Gly Lys Val Ala Ala Leu Gln Arg Ala Lys Lys
 65 70 75 80

Met Asn Phe

<210> 3370

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3370

Arg Tyr Arg Trp Phe Arg Arg Phe Leu Lys Lys Phe Arg Arg Ala Met
 1 5 10 15

Leu Asn Lys Phe Arg Val Leu Ser Val Ala Arg Thr Leu Ala Leu Glu
 20 25 30

<210> 3371

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3371

Ile Phe Lys Tyr Met Lys Lys Trp Leu Lys Leu Ile Thr His Lys Tyr
1 5 10 15

Leu Lys Asp Ser Ala Gly Arg Ala Leu Lys Ala Ala Arg Val Lys Ala
20 25 30

<210> 3372

<211> 56

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3372

Lys Leu Arg Tyr Phe Arg Lys Ile Phe Lys Leu Ile Arg Lys Pro Gln
1 5 10 15

Ala Leu Ala Leu Lys Ala Ala Lys Lys Tyr Leu Asp Lys Val Gln Arg
20 25 30

Arg Ala Met Trp Arg Gln Thr Leu Arg Ala Phe Trp Gly Val Lys Ala
35 40 45

Phe Ala Asn Thr Lys Lys Cys Ala
50 55

<210> 3373

<211> 69

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3373

Leu Leu Lys Leu Leu Arg Arg Trp Trp Lys Trp Met Arg Arg Ile Ala
1 5 10 15

Arg His Leu Gly Cys Val Cys Leu Leu Gly Arg Lys Asn Gln Lys Arg
20 25 30

Val Gln Leu Pro Tyr Asn Tyr Val Lys Met Thr Lys Ala Ala Ala Leu
 35 40 45

Ser Met Arg Lys Leu Arg Thr Pro Thr Ala Lys Val Leu Ala Glu Asp
 50 55 60

Pro Ala Ala Arg Ala
 65

<210> 3374
 <211> 27
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3374

Arg Tyr Arg Leu Tyr Asn Arg Phe Ile Arg Leu Leu Lys Lys Lys Phe
 1 5 10 15

Ser Gln His Ala Arg Ala Glu Leu Ala Gln Met
 20 25

<210> 3375
 <211> 66
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3375

Lys Met Arg Phe Phe Gln Arg Phe Trp Lys Arg Tyr Arg Lys Leu Leu
 1 5 10 15

Pro Ala Tyr Ile Lys Arg Leu Trp Ala Thr Lys Gly Asp Leu Val Ile
 20 25 30

Leu Asn Arg Arg Leu Arg Glu Arg Arg Arg Leu Ala Gln Leu His Thr
 35 40 45

Ala Ser Leu Ser Leu Ala Ser Lys Ile Arg Pro Lys Ser Phe Arg Ala
 50 55 60

Phe Ala

65

<210> 3376

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3376

Arg	Phe	Arg	Ile	Phe	Arg	Lys	Trp	Leu	Lys	Ile	Leu	Lys	Lys	Cys	Ala
1				5				10						15	

Val	Leu	Gln	Gly	Lys	Phe	Ile	Tyr	Thr	Arg	Asp	Ala	Ala	Leu	Leu	Arg
			20					25					30		

Arg Gly

<210> 3377

<211> 72

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3377

Leu	Ile	Lys	Phe	Trp	Asn	Lys	Trp	Leu	Lys	Lys	Tyr	Lys	Thr	Lys	Leu
1				5				10						15	

Ser	Ala	Asn	Ala	Gly	Arg	Glu	Asn	Lys	Lys	Met	Leu	Leu	Met	Met	Phe
			20					25					30		

Ala	Asn	Ala	Leu	Gln	Leu	Arg	Leu	Lys	Ser	Lys	Lys	Leu	Phe	Leu	Leu
			35				40					45			

Cys	Phe	Ala	Leu	Ile	His	Val	Arg	Leu	Arg	Ala	Cys	Arg	Trp	Arg	Ala
	50					55					60				

Asp	Arg	Arg	Lys	Cys	Arg	Ile	Glu
65				70			

<210> 3378

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3378

Arg Leu Arg Leu Leu Thr Lys Met Leu Lys Arg Ile Asn Arg Ala Glu
1 5 10 15

Lys Ala His Cys Val Ile Trp
20

<210> 3379

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3379

Lys Leu Arg Phe Tyr Gln Lys Leu Met Arg Arg Leu Lys Arg Ala Arg
1 5 10 15

Lys Ala Leu Thr Leu Ala Ala Arg Lys Arg Leu
20 25

<210> 3380

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3380

Lys Phe Arg Ile Phe Ser Arg Leu Leu Arg Leu Leu Gln Ser Trp Pro
1 5 10 15

Arg Ile Phe Leu Ala Ala Ala Lys Tyr His Gly Arg Leu Trp Lys Leu
20 25 30

Asp Lys Ala Asn
35

<210> 3381

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3381

Phe Leu Lys Phe Leu Arg Arg Met Leu Arg Lys Tyr Pro Lys Ala His
1 5 10 15

Glu Gln Lys Leu
20

<210> 3382

<211> 85

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3382

Phe Ile Lys Trp Phe Lys Lys Leu Trp Lys Lys Leu Thr Arg Cys Trp
1 5 10 15

Arg Ala Leu Ala Cys Ser Gly Arg Trp Glu Thr Phe Trp Lys Arg Val
20 25 30

Lys Lys Ala Leu Tyr Ala Ala Arg Leu Tyr Tyr Met Ala Arg Val Leu
35 40 45

Pro Ala Leu Cys Ala Arg Gly Tyr Leu Lys Thr Arg Gly Met Asp Ala
50 55 60

Lys Arg Arg Tyr Ser Thr Arg Asp Leu Tyr Arg Lys Trp Ala Leu Lys
65 70 75 80

Val Leu Leu Trp Leu
85

<210> 3383

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3383

Leu Leu Lys Tyr Ile Thr Arg Leu Leu Lys Lys Trp His Lys Glu Ala
 1 5 10 15

Asn Cys Lys Lys
 20

<210> 3384
 <211> 41
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3384

Met Leu Lys Tyr Tyr Ser Lys Phe Leu Arg Arg Leu Arg Lys His Pro
 1 5 10 15

Leu Lys Lys Ala Phe Val Lys Leu Ala Glu Pro Ala Lys Gln Val Gly
 20 25 30

Tyr Ala Ala Phe Pro Leu Leu Arg Ile
 35 40

<210> 3385
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3385

Lys Phe Lys Leu Trp Lys Lys Leu Leu Arg Trp Phe Ser Thr Arg Gly
 1 5 10 15

Ala Gln Leu Arg
 20

<210> 3386
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3386

Phe Met Arg Trp Trp Gln Arg Leu Met Lys Lys Tyr Arg Arg Gln Leu
 1 5 10 15

Lys Ala Ile Gln Ala Leu Leu Asn Ala His Ala Arg Leu
 20 25

<210> 3387
 <211> 41
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3387

Tyr Leu Lys Tyr Phe Lys Arg Phe Tyr Arg Lys Ile Thr Cys Met Arg
 1 5 10 15

His Gly Lys Ala Ala Arg Ala Val Leu Tyr Ser Ala Arg Arg Ala Ala
 20 25 30

Ala Ser Leu Ser Ala Ser Ala Val Lys
 35 40

<210> 3388
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3388

Lys Leu Lys Met Phe Arg Arg Leu Phe Lys Met Phe Gln Arg His His
 1 5 10 15

Leu Lys Gln Asp Lys Ala Ser Ala Leu
 20 25

<210> 3389
 <211> 66
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3389

Ile Phe Lys Tyr Met Ser Lys Met Leu Lys Lys Met Ser Arg Thr Trp
 1 5 10 15

Phe Leu Leu Ser Gly Pro Leu Arg His Lys Asn Trp Leu Leu Arg Leu
 20 25 30

Ala Arg Arg Lys Ala Glu Leu Ala Leu Arg Gln Asn Arg Gly Cys Gln
 35 40 45

Leu Ile Ala His Pro Leu Lys Leu Arg Ala Arg Ala Lys Ala Ile Arg
 50 55 60

Lys Ala
 65

<210> 3390
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3390

Phe Phe Lys Ile Phe His Arg Phe Leu Arg Leu Leu Arg Lys Arg Gly
 1 5 10 15

Ser Arg Leu Tyr Asn Leu Ala
 20

<210> 3391
 <211> 46
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3391

Arg Leu Arg Trp Tyr Gln Lys Trp Leu Lys Ile Phe His Arg Leu Pro
 1 5 10 15

Asn Gln Lys Met His Ala Lys Lys Leu Lys Phe Ile Ala Ala Ala Ser
 20 25 30

Asn Ala Gln Leu Leu Lys His Arg Arg Leu Ile Lys Arg Lys

35

40

45

<210> 3392

<211> 96

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3392

Lys Phe Arg Ile Leu Thr Arg Leu Leu Arg Arg Trp Lys Arg Gly Gly
 1 5 10 15

Arg Asn Lys His Ala Gly Arg Glu Tyr Arg Ala Pro Arg Lys Arg Ala
 20 25 30

Leu Lys Phe Gly Ala Trp Cys Tyr Lys Gly Leu Lys Gln Leu Leu Leu
 35 40 45

Ala Leu Gln Leu Leu Phe His Leu Thr Leu Gly Ile Leu Glu Arg Arg
 50 55 60

Glu Arg Arg Arg Lys Lys Leu Cys His Leu Ser Arg Asp Arg Lys Ala
 65 70 75 80

Gln Asp His Arg Gln Glu Lys Met Asp Val Val Ile Leu Asn Asp Arg
 85 90 95

<210> 3393

<211> 37

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3393

Leu Phe Lys Met Tyr Lys Lys Phe Tyr Lys Arg Tyr Arg Arg Met Arg
 1 5 10 15

Ala Tyr Phe Val Pro Ala Ala Cys Trp Lys Arg Leu Leu Leu Lys Leu
 20 25 30

Asn Ala Ala Leu Thr
 35

<210> 3394
 <211> 41
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3394

Phe Tyr Lys Ile Trp Arg Arg Ile Trp Lys Phe Leu Lys Arg Ala Phe
 1 5 10 15

Leu Lys Glu Ala Tyr Ala Ala Ala Lys Leu Gly Ala Cys Ile His Lys
 20 25 30

Lys Asn Leu Ile Pro Arg Ala Met Lys
 35 40

<210> 3395
 <211> 46
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3395

Ile Leu Arg Leu Tyr Thr Arg Leu Leu Lys Trp Leu Arg Ser Ala Arg
 1 5 10 15

Lys Arg Leu Leu Ala Arg Leu Leu Lys Met Thr Cys Lys Gly Ala Ala
 20 25 30

Lys Ser Lys Lys Ala Asp Asn Leu Ile Lys Pro Trp Ala Tyr
 35 40 45

<210> 3396
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3396

Arg Leu Arg Ile Phe Arg Arg Leu Ile Arg Lys Phe Cys Lys Arg Thr
 1 5 10 15

Leu Lys Leu Ala Thr Lys Ala Arg Leu Ala Ala Trp Glu Cys Leu Ala
 20 25 30

<210> 3397
 <211> 70
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3397

Leu Met Arg Ile Tyr Arg Lys Phe Leu Arg Leu Leu His Lys Trp Gln
 1 5 10 15

Phe Arg Leu Glu Cys Ala Arg Lys Arg Cys Lys Ala Lys Arg Phe Ile
 20 25 30

Ala Asp Cys Asp Tyr Leu Pro Ala Tyr Arg Ala Ala Ile Arg Ala Ala
 35 40 45

Glu Ala Lys Lys Ala Phe Leu Ala Leu Lys Leu Glu Ile Lys Glu Lys
 50 55 60

Leu Tyr Trp Phe Glu Ala
 65 70

<210> 3398
 <211> 71
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3398

Lys Leu Lys Phe Ile Gln Arg Ile Leu Lys Arg Phe Lys Lys Leu Lys
 1 5 10 15

Tyr Thr Trp Ala Arg Gly Leu Thr Thr Leu Ile Arg Ala Cys Asp Lys
 20 25 30

Lys Ser Leu Leu Ala Arg Ala Asp His Phe Ala Gly Ala Pro Lys Lys
 35 40 45

Asp Lys Ala Asn Ala Asp Met Trp Ile Leu Arg Phe His Arg Lys Arg

50

55

60

Lys Arg Met Ala Leu Ala Leu
65 70

<210> 3399

<211> 71

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3399

Leu Leu Arg Leu Leu Lys Lys Phe Leu Lys Lys Leu Arg Arg Thr Arg
1 5 10 15

Leu Leu Met Leu Ile Val Arg Leu Val Leu Ala Leu Arg His Arg Arg
20 25 30

Leu Arg Asn Val Ala Trp Lys Asp Trp Lys Ala Lys Lys His Cys Ser
35 40 45

His Ser Leu Lys Cys Asp Asn Lys Glu Pro Arg Glu Asn Leu Lys Lys
50 55 60

Leu Asn Leu Ser Ser Lys Cys
65 70

<210> 3400

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3400

Lys Trp Lys Leu Leu Asn Lys Phe Met Arg Leu Tyr Arg Ser Trp Ser
1 5 10 15

Ala Leu Pro Ala Lys Arg Ala Asp Trp Arg
20 25

<210> 3401

<211> 50

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3401

Phe Leu Arg Leu Phe Pro Arg Tyr Leu Arg Arg Phe His Lys Ala Tyr
1 5 10 15

Ala His Cys Ala Arg Leu Lys Ala Trp Ile Ala Ala Met Ala Leu Arg
20 25 30

Thr Glu Lys Leu Arg Leu Arg Leu Thr Arg Ala Met Arg Arg Lys Arg
35 40 45

Arg Gln
50

<210> 3402

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3402

Leu Phe Arg Leu Ile Lys Lys Tyr Leu Arg Arg Trp Asn Thr Ala Ile
1 5 10 15

Ala Lys Lys Arg Gln Gly Arg Tyr Arg Leu Thr Ala Gly Ala Leu Leu
20 25 30

<210> 3403

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3403

Leu Leu Arg Phe Met Ser Lys Met Ile Arg Lys Trp Lys Arg Arg Leu
1 5 10 15

Ala Tyr Ile Trp Leu Lys His Ala Cys Lys Ala Arg His Gly
20 25 30

<210> 3404
 <211> 56
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3404

Lys Met Arg Met Met Thr Arg Leu Trp Lys Trp Leu His Arg Ser Lys
 1 5 10 15

Ala Arg Arg Arg Phe Ser Lys Tyr Leu Arg Ala Lys Ala Lys Arg Ser
 20 25 30

Arg Asp Ala Leu Ala Ser Ala Asn Ser Ala Leu Ala Asn Asn Arg Glu
 35 40 45

Met Ala Leu Asp His Leu Ala Val
 50 55

<210> 3405
 <211> 56
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3405

Leu Leu Lys Ile Met Lys Lys Ile Met Arg Leu Leu His Arg Ser Met
 1 5 10 15

Lys Ile Lys Gln Ala Tyr Ala Phe Val Trp Ala Tyr Ala Tyr Ala Thr
 20 25 30

Met His Lys Ala Arg Arg Met Lys Lys Pro Ile Leu Ala Glu Lys His
 35 40 45

Arg Lys Gln Leu Ala Arg Leu Gln
 50 55

<210> 3406
 <211> 62
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3406

Lys	Leu	Lys	Phe	Met	Arg	Arg	Leu	Phe	Lys	Arg	Phe	Arg	Pro	Cys	Ala
1				5					10					15	

Leu	Ile	Tyr	Leu	Asn	Leu	Lys	Arg	Arg	Ala	Ala	Leu	Tyr	Asp	Trp	Ser
			20					25					30		

Arg	Gly	Ala	Ala	Lys	Phe	Leu	Trp	Leu	Pro	Leu	Trp	Lys	Lys	Val	Arg
		35					40					45			

Pro	Met	Cys	Trp	Arg	Ile	Arg	Asp	Lys	Ala	Leu	Thr	Leu	Gly
	50					55					60		

<210> 3407

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3407

Leu	Tyr	Arg	Leu	Leu	Thr	Lys	Tyr	Ile	Arg	Arg	Ile	Gln	Pro	Met	Thr
1				5					10					15	

Ala	Arg	Tyr	Leu	Lys	Leu	Arg	Arg	Lys	Lys	Ala	Ala
			20					25			

<210> 3408

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3408

Trp	Trp	Arg	Leu	Phe	Ser	Lys	Ile	Ile	Arg	Lys	Leu	Cys	Lys	Pro	Arg
1				5					10					15	

Glu	Leu	Ala	Ala	Glu	Ala	Ser	Gln	Lys	Lys	Ala	Cys	Arg
			20					25				

<210> 3409

<211> 81
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3409

Phe Trp Lys Met Ile Arg Lys Trp Phe Arg Arg Tyr Gln Lys Leu Arg
 1 5 10 15

Cys Ala Cys Leu Arg Lys His Ile Met Ala Val Tyr Arg Ala Arg Arg
 20 25 30

Gln Arg Leu Gly Ala Arg Ala Lys Pro Gln Met Met Lys Leu Cys Lys
 35 40 45

Phe Ala Tyr Ser Leu Ala Leu Ser Arg Leu Ala Phe Ala Gly Asp Ala
 50 55 60

Gln Lys Phe Leu Ala Ile Lys Ala Met Ala Arg Arg Trp Leu Arg Arg
 65 70 75 80

Asn

<210> 3410
 <211> 69
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3410

Leu Leu Arg Phe Ile Lys Lys Leu Tyr Arg Lys Leu Arg Arg Leu Met
 1 5 10 15

Lys Pro Trp Met His Ile Lys Ser Ile Leu Ile Leu Lys Asp Ala Pro
 20 25 30

Leu Ala His Leu Arg Arg Val Leu Lys Trp Lys Gly Ala Asn Ala Lys
 35 40 45

Cys His Lys Lys Arg Gln Met Arg Arg Cys Pro Ala Gly Asn Asp Ala
 50 55 60

Thr Ala Cys Leu Leu
65

<210> 3411
<211> 33
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 3411

Lys Leu Lys Ile Phe Arg Arg Trp Tyr Lys Arg Leu Gln Lys Ala Leu
1 5 10 15

Leu Leu Gly Asp Arg Ala Asn Arg Lys Arg Leu Arg Arg Leu Leu Trp
20 25 30

Pro

<210> 3412
<211> 47
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 3412

Trp Phe Lys Met Tyr Thr Arg Tyr Leu Lys Lys Met Lys Lys Gly Leu
1 5 10 15

Gly Asn Ala Ala Ala Glu Ser Leu Lys Thr Ala Gln Arg Asp Lys Ile
20 25 30

Leu Ala Phe His Lys Arg Gln Lys Leu Lys Ala Glu Leu Arg Pro
35 40 45

<210> 3413
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 3413

Leu Phe Arg Phe Leu His Arg Phe Met Arg Arg Phe His Lys Leu Leu
 1 5 10 15

Cys Ala Val Lys Lys Met Ala Leu Lys Asn Ser Phe Arg Lys Ala Asp
 20 25 30

Leu Ala Arg Ser Pro Leu Ala
 35

<210> 3414
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3414

Trp Leu Lys Tyr Leu Gln Lys Trp Leu Lys Arg Phe Thr Arg Gly Cys
 1 5 10 15

Arg Tyr Ala Pro Arg Ala Ala Leu Ser Ala Lys Ala Met His Ala Ile
 20 25 30

<210> 3415
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3415

Leu Ile Arg Met Phe Arg Arg Tyr Leu Arg Met Leu Arg Gln Asn Arg
 1 5 10 15

Ala Asn Arg His Leu
 20

<210> 3416
 <211> 59
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3416

Arg Phe Lys Trp Ile Arg Arg Phe Met Arg Met Trp Arg Lys Asp Arg
 1 5 10 15

Lys Leu Lys Leu Gln Asn Tyr Tyr Ala Gln Gly His Asn Arg Leu Arg
 20 25 30

Trp Arg Lys Ala Leu Arg Leu Ser Ala Leu Gly Asn Trp Lys Ala Glu
 35 40 45

Leu Lys Trp Ala Lys Leu Met Leu Arg Leu Lys
 50 55

<210> 3417
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3417

Ile Leu Lys Ile Phe Pro Lys Leu Phe Lys Lys Leu Lys Pro Cys Leu
 1 5 10 15

Leu Ala Lys Arg
 20

<210> 3418
 <211> 53
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3418

Arg Ile Lys Ile Ile Lys Lys Trp Leu Lys Lys Ile Asn Arg Arg Pro
 1 5 10 15

Leu Leu Val Gln Ala Asp Asn Arg Pro Ile Phe Met Leu Trp Lys Ala
 20 25 30

Leu Trp Leu Asn Pro Lys Leu Arg Thr Ala Ala Trp Met Leu Lys Leu
 35 40 45

Leu Arg Arg Lys Lys

50

<210> 3419
 <211> 55
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3419

Arg Leu Arg Met Leu Gln Lys Met Leu Lys Arg Trp Ser Pro Leu Leu
 1 5 10 15

Pro Leu Glu Lys Ser Ser Lys Arg Lys Ala Arg Ala Ala Leu Lys Arg
 20 25 30

Ala Lys Ser Ser Ser Arg Lys Asp Trp Gly Ala His Pro Leu Arg Leu
 35 40 45

Lys Ala His Lys Thr His Glu
 50 55

<210> 3420
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3420

Lys Tyr Lys Phe Phe Arg Arg Ile Leu Arg Leu Met Lys Arg His Ile
 1 5 10 15

Ala Ser Leu Leu
 20

<210> 3421
 <211> 39
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3421

Trp Met Lys Trp Met Lys Arg Met Leu Lys Arg Leu Gln Cys Gln Ala

1 5 10 15

Thr Lys Arg Leu Ala Leu Ala Thr Leu Asn Arg Arg Leu Met Leu Lys
20 25 30

Lys Ala His Pro Gly Ser Asp
35

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<210> 3422
<211> 72
<212> PRT
<213> Artificial Sequence
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<220>
<223> Computer-generated peptide variant

<400> 3422

Ile Trp Lys Leu Leu Lys Arg Trp Leu Arg Arg Leu Thr Lys Leu Pro
1 5 10 15

Asn Asn Pro Arg Lys Arg Arg Lys Asn Asn Leu Arg Gln Lys Pro Arg
20 25 30

Arg Lys Leu Tyr Ala Ile Leu Lys Leu Leu Lys Lys Trp Val Asn Pro
35 40 45

Ala Ala Lys His Met Lys Gln Arg Ala Asp Asn Glu Lys Cys Gly Lys
50 55 60

Ala Phe Tyr Gly Ala Ala Ile Tyr
65 70

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<210> 3423
<211> 20
<212> PRT
<213> Artificial Sequence
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<220>
<223> Computer-generated peptide variant

<400> 3423

Phe Leu Arg Tyr Leu Thr Arg Leu Tyr Lys Lys Leu Thr Asn Ala Arg
1 5 10 15

Ser Lys Thr Leu
20

<210> 3424
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3424

Arg Met Arg Leu Met Cys Lys Leu Trp Lys Met Trp Asn Arg Ala Arg
 1 5 10 15

Leu Ile Ala Trp Ala Ser Lys Gly Arg
 20 25

<210> 3425
 <211> 75
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3425

Trp Tyr Lys Phe Leu Thr Arg Tyr Leu Lys Trp Leu Arg Arg Cys Lys
 1 5 10 15

Leu Gly Arg Glu Arg Lys Ser Gly Thr Tyr Lys Asn Trp Ala Cys Leu
 20 25 30

Arg Arg Arg Glu Lys Ser Thr Pro Asn Leu Tyr Tyr Leu Ser Ala Thr
 35 40 45

Ala Gln Ala Ala Leu Ala Lys Arg Ala Lys Thr Ala Lys Arg Arg Ala
 50 55 60

Asp Ala Ala Gly Pro Arg Ala Trp Pro Ala Arg
 65 70 75

<210> 3426
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3426

Lys Ile Lys Leu Leu Gln Lys Phe Leu Lys Phe Phe Cys Pro Thr Ser
 1 5 10 15

Lys Ser Ala Asn Ala Lys Ala Leu Lys Val Arg Met Arg
 20 25

<210> 3427
 <211> 67
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3427

Lys Leu Arg Leu Leu Lys Lys Tyr Tyr Arg Ile Ile Arg Lys Leu Lys
 1 5 10 15

Leu Lys Ser Lys Arg Glu Phe Lys Ala Val Leu Arg Arg Ile Leu Gln
 20 25 30

Ala Leu Asp Phe Ala Pro Ala Leu Pro Trp Ala Thr Arg Asp Lys Leu
 35 40 45

Asn Leu Lys Cys Tyr Asp Met Gln Cys Tyr Asn Pro Arg Arg Ile Ala
 50 55 60

Val Arg Leu
 65

<210> 3428
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3428

Leu Phe Lys Trp Met Thr Lys Leu Ile Arg Lys Ile Cys Lys Ala Arg
 1 5 10 15

Asp Leu Asp Arg Ala Lys Asn Leu
 20

<210> 3429

<211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3429

Arg Leu Arg Leu Tyr Lys Arg Tyr Phe Arg Lys Phe Arg Gln Ser Thr
 1 5 10 15

Phe Pro His Lys Ile Ala Leu Leu Met Gln Ile Lys Arg Ala Lys Ala
 20 25 30

Leu Leu Arg
 35

<210> 3430
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3430

Lys Met Arg Met Leu Gln Arg Tyr Ile Lys Leu Trp Arg Arg Ala Ala
 1 5 10 15

Leu Ala Lys Glu Cys Arg Glu His Leu Ala Arg Arg Trp Met
 20 25 30

<210> 3431
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3431

Arg Leu Arg Met Met Cys Lys Leu Leu Arg Lys Tyr Arg Lys Phe Lys
 1 5 10 15

Leu Lys Leu Trp His Arg Ala His Asn Leu His Leu Leu Lys Gln Leu
 20 25 30

Glu Trp Leu Arg Ala Asp Gln Gln

35

40

<210> 3432

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3432

Leu Ile Lys Ile Leu Arg Lys Met Leu Arg Tyr Phe Lys Pro Arg Leu
 1 5 10 15

Ser Val Ile Ala Leu Lys Cys Lys Leu
 20 25

<210> 3433

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3433

Leu Ile Lys Leu Tyr Thr Lys Leu Leu Lys Tyr Leu Cys Lys Arg Ala
 1 5 10 15

Ala Ser Glu Tyr Asp Val Lys Leu Arg Tyr Leu
 20 25

<210> 3434

<211> 43

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3434

Leu Tyr Arg Trp Phe Lys Arg Phe Ile Lys Phe Leu Lys Arg Asn Asn
 1 5 10 15

Leu Ala Arg Leu Asn Tyr Met Ser Lys Arg Phe Leu Ala Arg Met Cys
 20 25 30

Cys Ala Ala Lys Pro Cys Ala Pro Ala Lys Lys

35

40

<210> 3435

<211> 43

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3435

Arg Leu Lys Leu Phe Arg Lys Trp Ile Lys Lys Phe Lys Ser Ala Ala
 1 5 10 15

Met Leu Asp Val Lys Ala Met Arg Ile Leu Val Glu Arg Thr Leu Asn
 20 25 30

Leu Arg Lys Leu Met Ser Thr Leu Leu Gly Tyr
 35 40

<210> 3436

<211> 46

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3436

Arg Leu Lys Phe Trp Cys Lys Leu Leu Arg Lys Phe Lys Lys Phe Ile
 1 5 10 15

Pro Gly Ala Pro Leu Leu Gln Ala Asn Leu Lys Tyr Leu Ala Trp Arg
 20 25 30

Lys Lys Met Leu Arg Lys His Ser Gly Asp Leu Ala Trp Glu
 35 40 45

<210> 3437

<211> 53

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3437

Lys Leu Lys Leu Leu Pro Arg Leu Leu Arg Lys Ile Lys Lys Leu Lys

1 5 10 15

Arg Asn Leu Val Pro Asp Trp Ala Leu Val Gly Ser Ala Ile Ala Ala
20 25 30

Thr Met Lys Met Arg Arg Leu Leu Lys Thr Leu Lys Trp Asn Ser Leu
35 40 45

Lys Val Leu Leu Pro
50

<210> 3438
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3438

Lys Tyr Arg Ile Phe Ser Arg Leu Ile Lys Arg Leu Arg Thr Ala Ile
1 5 10 15

Ala Ala Met Arg
20

<210> 3439
 <211> 37
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3439

Phe Trp Arg Leu Leu Arg Arg Leu Leu Arg Trp Phe Arg Lys Leu Pro
1 5 10 15

Lys Arg Lys Lys Leu Leu Lys Asn Ala Asn Glu Gly His Cys Ala Glu
20 25 30

Leu His Lys Ile Val
35

<210> 3440
 <211> 33
 <212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3440

Leu Leu Lys Leu Phe Lys Arg Leu Leu Arg Arg Trp Asn Lys Gln Arg
1 5 10 15

Phe Lys Ala Leu Tyr Ala Phe Lys Met His His Gly His Leu Leu Ala
20 25 30

Ile

<210> 3441

<211> 43

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3441

Phe Ile Lys Phe Leu Arg Lys Met Trp Arg Lys Phe Lys Lys Tyr Gly
1 5 10 15

Glu Lys Leu Leu Leu Gln Tyr Lys Arg Ile Lys Leu Lys Ala Thr Ala
20 25 30

Lys Lys Gly Asn Ala Leu Trp Leu Ala Ala Ala
35 40

<210> 3442

<211> 100

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3442

Arg Leu Arg Leu Tyr Ser Arg Leu Leu Lys Arg Leu Pro Lys Arg Asp
1 5 10 15

Thr Trp Leu Leu Cys Arg Leu Leu Leu Glu Asn Leu Val Arg Lys Gln
20 25 30

Ala Trp Lys Met Glu Leu Leu Thr Phe Ile Lys Cys Glu Ala Glu Arg
 35 40 45

Ser Val Glu Asn Arg Arg Ala Gln Asn Ala Leu Cys Asn Glu Lys Leu
 50 55 60

Arg Ile Lys Tyr Thr Lys Lys Met Ala His Ser Cys Leu Arg Leu Gln
 65 70 75 80

Trp Ala Gln Gln Glu Asn Asp Val Leu Arg Arg Arg Asn Ala Leu Ala
 85 90 95

Arg Leu Arg Leu
 100

<210> 3443
 <211> 66
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3443

Lys Tyr Lys Met Phe Asn Lys Ile Phe Arg Ile Met Lys Lys Ala Asn
 1 5 10 15

Leu Lys Trp Pro Leu Leu Ala Leu Ala Lys Met Glu Leu Ala Phe Lys
 20 25 30

Lys Ala Gln Arg Pro Arg Met Pro Lys Lys Tyr Arg Arg Asp Leu Leu
 35 40 45

Asp Ser Arg Asn Ile Arg Leu Tyr Asn Ala Lys Cys Leu Ala Trp His
 50 55 60

Arg Lys
 65

<210> 3444
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3444

Arg Phe Arg Tyr Met His Lys Leu Leu Lys Arg Tyr Pro His Lys Lys
1 5 10 15

Asp Thr Lys Ala Glu Ala Ser Cys Leu Lys Ala His Arg Leu Ala Phe
20 25 30

<210> 3445

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3445

Arg Ile Lys Tyr Met Arg Lys Met Tyr Arg Leu Leu Lys Thr Arg Val
1 5 10 15

Leu Ile Leu Lys Thr Ala Arg Cys Ala Leu Ala Arg Val
20 25

<210> 3446

<211> 74

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3446

Lys Phe Arg Tyr Met Lys Lys Leu Trp Arg Lys Phe Lys Arg Trp Thr
1 5 10 15

Leu Arg Leu Gly Val Arg Ala Lys Tyr Arg Lys Arg Tyr Val Val Lys
20 25 30

Cys Trp Leu Lys Met Arg Tyr Asp Glu Cys Val Pro Leu Lys Leu Ala
35 40 45

Leu Ala Lys Ala Ser Leu Arg Ala Gln Ser Ile Arg Lys Trp Ser Asn
50 55 60

Ala Ser Asn Cys Thr Lys Leu Leu Ala Arg
65 70

<210> 3447
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3447

Leu Met Lys Met Met Arg Lys Leu Ile Arg Arg Leu Cys Arg Arg Leu
 1 5 10 15

Arg Lys Lys Ala Ala Trp Gly Asp Ala Leu Val Gly Ser Asp Arg Ser
 20 25 30

Leu

<210> 3448
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3448

Leu Leu Arg Leu Leu Asn Lys Leu Trp Arg Tyr Leu His Arg Leu Thr
 1 5 10 15

Arg His Leu Thr Cys Arg Lys
 20

<210> 3449
 <211> 70
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3449

Met Leu Lys Met Ile Arg Arg Leu Tyr Arg Tyr Phe Arg Pro Thr Met
 1 5 10 15

Lys Phe Leu Arg Leu Ser Lys Ala Leu Arg Ser Arg Ile Arg Lys Arg
 20 25 30

Leu Gly Ile Glu Gly Phe Arg Arg Trp Lys Ala Lys Asn Leu Leu Leu
 35 40 45

Ala Lys Arg Glu Gly Lys Ala Ala Ile Leu Trp Leu Asn Lys Ala Leu
 50 55 60

Thr Asn Pro Trp Phe Glu
 65 70

<210> 3450
 <211> 52
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3450

Leu Phe Lys Phe Met Lys Arg Leu Leu Arg Lys Leu Gln Thr Asp Ala
 1 5 10 15

Leu Leu Pro Ala Glu Ser Ala Lys Gly Asn Lys Met Ala Arg Val Leu
 20 25 30

Val Ala Lys Ala Ala Met Trp Glu Arg Leu Ser Thr Phe Leu Leu Phe
 35 40 45

Arg Thr Lys Phe
 50

<210> 3451
 <211> 71
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3451

Arg Leu Lys Leu Leu His Arg Phe Phe Lys Ile Tyr Lys Arg Ala Lys
 1 5 10 15

Asn Asp Asn His Lys Cys Tyr Arg Ala Glu Leu Glu Asn Asp His Gly
 20 25 30

Ala Leu Arg Arg Leu Phe Arg Arg Arg Leu Leu Ala Ser Lys Lys Tyr

35

40

45

Ala Leu Ala Cys Leu Phe Lys Leu Arg Ala Gly Lys His Val Gly Leu
 50 55 60

Tyr His Lys Arg Phe Ile Phe
 65 70

<210> 3452

<211> 68

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3452

Arg Leu Lys Leu Leu Ser Arg Leu Tyr Lys Leu Trp Lys Gln Pro Leu
 1 5 10 15

Ala Lys Lys Pro Lys Leu Ala Trp Val Gln Pro Ala Trp Leu Phe Phe
 20 25 30

Trp Lys Leu Lys Leu His Ala Asp Asp Gln Lys Leu Lys Val Phe Leu
 35 40 45

Gly Ile Ser Lys Gly Asn Tyr Ala Cys Lys Met Arg Arg Gln Arg Lys
 50 55 60

Lys Leu Ala Pro
 65

<210> 3453

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3453

Trp Phe Arg Tyr Leu Arg Arg Tyr Leu Lys Lys Leu Lys Thr Ser Leu
 1 5 10 15

Met Gln Lys Leu Arg Val Ile Leu
 20

<210> 3454
 <211> 27
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3454

Lys Leu Arg Trp Met Arg Arg Leu Phe Arg Leu Tyr Arg Gln Leu His
 1 5 10 15

Leu Ile Ala Gly Gly Asn Trp Leu Glu Arg Ala
 20 25

<210> 3455
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3455

Arg Leu Arg Leu Leu Lys Arg Phe Tyr Lys Ile Met Arg Arg His Asn
 1 5 10 15

Asp Ile Thr Ser Ala Lys Leu Ala Ile Ser Lys Leu Glu Met Leu Lys
 20 25 30

His Ala

<210> 3456
 <211> 88
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3456

Arg Ile Arg Phe Tyr Thr Lys Phe Trp Arg Arg Phe Thr Cys Leu Ala
 1 5 10 15

Lys Asn Trp Lys Gln Arg Leu Leu Leu Ala Leu Arg Ala Pro Gln Lys
 20 25 30

Gln Met Ala Cys Lys Cys Arg Arg Lys Ala Glu Lys Lys Arg Asn Ile
 35 40 45

Ser Ala Leu Gln Leu Pro Ala Arg Ile Gly Cys Arg Leu Arg Lys Ala
 50 55 60

Cys Ala Asp Lys Val Phe Lys Leu Ile Tyr Ile Ala Arg Asn Leu Ile
 65 70 75 80

Glu Gln Asp Ala Arg Lys Lys Lys
 85

<210> 3457
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3457

Leu Ile Lys Leu Leu Asn Lys Met Trp Lys Tyr Leu Gln Arg Lys Lys
 1 5 10 15

Ala Arg Cys Val Asn Ile Leu
 20

<210> 3458
 <211> 26
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3458

Leu Met Arg Phe Leu Lys Lys Leu Leu Lys Arg Met Asn Arg Ala Ala
 1 5 10 15

Leu Asn Arg Leu Asn Leu Gly Met Lys Tyr
 20 25

<210> 3459
 <211> 78
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3459

Leu	Tyr	Arg	Leu	Leu	Arg	Arg	Ile	Ile	Arg	Arg	Trp	Arg	Lys	Arg	Gly
1			5					10					15		

Ala	Cys	Ala	Leu	Gln	Lys	Arg	Leu	Ser	Leu	Val	Lys	Lys	Leu	Lys	Thr
			20				25						30		

Trp	Ala	Ser	Ile	Glu	Ala	Val	Ala	Leu	Ala	Ala	Ala	Arg	Lys	Val	Met
		35					40					45			

Leu	Gln	His	Gln	Arg	Lys	Phe	Ala	Ala	Ile	Lys	Ser	Phe	Glu	Val	Cys
	50					55					60				

Ala	Lys	Thr	Cys	Lys	Asn	Ser	Ile	Val	Met	Leu	Asn	Lys	Arg
65					70					75			

<210> 3460

<211> 45

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3460

Arg	Phe	Lys	Leu	Trp	Asn	Lys	Met	Ile	Lys	Phe	Ile	Asn	Lys	Lys	Arg
1			5					10					15		

Pro	Ala	Lys	Phe	Lys	Arg	Leu	Ala	Leu	Cys	Val	Cys	Arg	Pro	Thr	Ala
			20				25						30		

Ala	Gln	Phe	Leu	Leu	Ala	Ile	Leu	Ala	Ala	Glu	Arg	Cys
		35				40						45

<210> 3461

<211> 92

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3461

Arg	Ile	Arg	Leu	Ile	Arg	Lys	Trp	Leu	Lys	Arg	Met	Thr	Lys	Arg	Gln
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

Arg	Ile	Arg	Leu	Tyr	Gln	Arg	Leu	Phe	Lys	Lys	Trp	Cys	His	Ala	Pro
1				5					10					15	
Asn	Gly	Lys	Arg	Asn	Gly	Thr	Lys	Lys	Cys	Lys	Leu	Ala	Trp	Leu	Arg
			20					25					30		
Met	Ala	Leu	Lys	Pro	Gln	Lys	Gln	Lys	Thr	Leu	Leu	Leu			
		35					40					45			

Lys Leu Arg Leu Leu Arg Lys Leu Phe Lys Trp Phe His Lys Val Ile
1 5 10 15

Arg Leu Val Ala Trp Lys Asn Gln Arg Ile Tyr Lys Ala Met Ala Ser
20 25 30

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<210> 3464
<211> 29
<212> PRT
<213> Artificial Sequence
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<220>
<223> Computer-generated peptide variant

<400> 3464

Ile Leu Lys Phe Leu Cys Lys Leu Phe Lys Met Tyr Arg Gln Gly Gln
1 5 10 15

Thr Pro Lys Arg Cys Lys Ala Gln Lys Leu Lys Ala Leu
20 25

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<210> 3465
<211> 34
<212> PRT
<213> Artificial Sequence
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<220>
<223> Computer-generated peptide variant

<400> 3465

Tyr Met Arg Leu Leu Arg Lys Leu Phe Arg Lys Leu Asn Lys Val Val
1 5 10 15

Leu Lys Pro Cys Arg Leu Ala Trp Leu His Ala His Arg Gly Lys Phe
20 25 30

Trp Asn

```
<210> 3466
<211> 21
<212> PRT
<213> Artificial Sequence
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<220>
<223> Computer-generated peptide variant

<400> 3466

Lys Leu Arg Leu Trp Lys Lys Leu Leu Lys Arg Phe Cys Pro Asn Leu
1 5 10 15

Thr Trp Arg Leu Arg
20

<210> 3467
<211> 66
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 3467

Lys Phe Lys Phe Trp Lys Lys Trp Leu Arg Lys Leu Lys Arg Lys Arg
1 5 10 15

Leu Ala Cys Lys Thr Ala Ala His Met Ala Lys Leu Arg Gln Cys Glu
20 25 30

Pro Pro Trp Gly Ser Arg Pro Ala Arg Ile Glu Glu Phe Asn Val Arg
35 40 45

Asn Lys Glu Leu Trp Leu Leu Leu Leu Ile Arg Leu Asn Leu Arg
50 55 60

Ala Leu
65

<210> 3468
<211> 79
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 3468

Lys Tyr Arg Phe Leu Lys Arg Leu Leu Arg Leu Phe Ser Lys Leu His
1 5 10 15

Ile Thr Val Thr Leu Ala Arg Asn Arg Pro Lys Val Met Leu His His
20 25 30

Ala Gln Phe Lys Lys Glu Lys Thr Asp Glu Lys Gln Leu Trp Glu Arg
35 40 45

Ala Ala Thr Lys Val His Asn Leu Leu Gly Arg Gly Cys Ser Ala Ile

50

55

60

Ala Lys Lys Lys Lys Ala Gly Leu Lys Glu Lys Leu Ala Lys Ala
 65 70 75

<210> 3469

<211> 51

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3469

Lys Leu Lys Leu Leu Arg Lys Leu Leu Arg Leu Ile Ser Lys Thr Asn
 1 5 10 15

Lys Met Met Arg Glu Leu Leu Thr Phe Ala Arg Arg Ala Lys Arg Leu
 20 25 30

Tyr Lys Cys Trp Leu Met Gln Cys Ile Tyr Lys Arg Asn Arg Gln Met
 35 40 45

Lys Phe Gln
 50

<210> 3470

<211> 56

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3470

Leu Leu Lys Trp Tyr Cys Lys Phe Trp Lys Phe Phe Arg Cys Asn Arg
 1 5 10 15

Arg Pro Lys Leu Leu Ala Ile His Gln Lys Leu Asn Leu Asn Ala Lys
 20 25 30

Ala Leu Ile Lys Ala Leu Ala Arg Arg His Ala Ile Met Leu Lys His
 35 40 45

Leu Lys Lys Asn Lys Ala Pro Phe
 50 55

<210> 3471
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3471

Phe Leu Arg Leu Leu Arg Arg Leu Tyr Arg Ile Trp Lys Arg Tyr Leu
 1 5 10 15

Ala Val Asn Arg Leu Lys Leu Trp Arg Ser Ser Cys Leu Ala Trp Ala
 20 25 30

<210> 3472
 <211> 55
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3472

Trp Phe Arg Leu Leu Lys Arg Leu Ile Lys Arg Ile Arg Pro Trp Arg
 1 5 10 15

Tyr Lys Ala Arg Ala Ile Arg Ala Thr Ala Lys Ala Lys Lys Leu Lys
 20 25 30

Leu Glu Leu Val Lys Gln Arg Cys Asp Leu Arg Arg Leu Leu Leu Gln
 35 40 45

Lys Phe Cys Ile Arg Pro Leu
 50 55

<210> 3473
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3473

Leu Ile Lys Ile Leu Lys Arg Leu Trp Lys Arg Leu Arg Pro Met His
 1 5 10 15

Leu Ala Lys Ala Leu Ile
20

<210> 3474
<211> 22
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 3474

Phe Leu Arg Leu Trp Lys Lys Leu Met Arg Arg Leu Arg Ser Arg Lys
1 5 10 15

Ala Gln Ala Ala Ala Tyr
20

<210> 3475
<211> 99
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 3475

Arg Met Arg Phe Met Lys Arg Ile Tyr Arg Lys Trp Arg Arg Ala Leu
1 5 10 15

Leu Leu Lys Gln Ala Ala Ala Arg Arg Lys Asp Lys Leu Phe Arg Asn
20 25 30

Lys Ser Lys Arg Phe Lys Met Val Asn Leu Arg Asn Thr Phe Leu Pro
35 40 45

Arg Arg Ala Thr Gln Lys Tyr Asn Ala Met Leu Val Pro Thr Arg Lys
50 55 60

Lys His His Cys Lys Ala Asn Met Leu Arg Leu Ala Ala Leu Lys Gln
65 70 75 80

Arg His Glu Pro Trp Ala Ala Lys Arg Leu Leu Cys Leu Arg Gly Lys
85 90 95

Ala Ile His

<210> 3476
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3476

Lys Tyr Lys Leu Phe Gln Lys Phe Leu Arg Phe Leu Arg Ser Cys Leu
 1 5 10 15

Arg Leu Ile Ser Leu Asn Leu
 20

<210> 3477
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3477

Lys Leu Arg Leu Leu Ser Lys Phe Tyr Arg Leu Met Ser Lys Arg Gln
 1 5 10 15

Leu Arg Leu Pro Leu His Lys Trp Phe Asp Ile Leu Leu His Leu Arg
 20 25 30

Ala Arg Lys Lys
 35

<210> 3478
 <211> 44
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3478

Lys Leu Arg Tyr Phe Arg Arg Trp Met Arg Met Ile His Arg Arg Ala
 1 5 10 15

Ala Phe Arg Lys Asp Lys Cys Val Phe Thr Ala Ala Leu Pro Leu Leu

20

25

30

Lys Glu Ala Met Tyr Lys Ala Leu Asn His Leu Lys
 35 40

<210> 3479

<211> 86

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3479

Arg Met Arg Leu Trp Gln Lys Tyr Tyr Lys Tyr Phe Arg Pro Ala Lys
 1 5 10 15

Lys Arg Lys Glu Arg Thr Gly Lys Arg Lys Asn Ala Thr Ser Lys Ala
 20 25 30

Glu Gln Ala Lys Phe Thr Ala Met Pro Leu Arg Leu Lys Leu Leu Arg
 35 40 45

Ala Leu Trp Glu Cys Leu Leu Cys Arg Leu Val Cys Pro Tyr Arg Gly
 50 55 60

Ala Arg Arg Lys Ile Tyr Gly Gly Lys Asn Arg Arg Gln Thr Ala Glu
 65 70 75 80

Ala Ala Arg Ala Ala Leu
 85

<210> 3480

<211> 58

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3480

Arg Phe Lys Met Leu Cys Arg Tyr Leu Arg Ile Met Arg Asn Ala Cys
 1 5 10 15

Gly Gly Asp Trp Lys Leu Val Ala Ala Arg Met Arg Asp Ala Ala Phe
 20 25 30

Lys Gln Leu Asn Arg Arg Met Lys His Leu Gln Glu Leu Ala Gly Val
 35 40 45

Arg Asp Arg Lys Lys Ala Lys Leu Lys Val
 50 55

<210> 3481
 <211> 41
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3481

Lys Ile Arg Met Leu Lys Lys Trp Leu Lys Lys Leu Lys Arg Ala Leu
 1 5 10 15

Ala Gln Phe Lys Ser Pro Gly Glu Asn Arg Trp Arg Cys Cys Arg Ala
 20 25 30

Pro Lys Leu His Cys Leu Ala Ala Thr
 35 40

<210> 3482
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3482

Leu Tyr Arg Leu Phe Pro Arg Tyr Leu Lys Lys Leu Arg His Phe Thr
 1 5 10 15

Ile Lys Asp Arg Asn Arg Leu Leu Leu
 20 25

<210> 3483
 <211> 38
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3483

Lys Met Lys Phe Trp Cys Lys Leu Ile Lys Phe Leu Arg Arg Leu His
 1 5 10 15

Leu Arg Lys Trp Asn Ala Tyr Gly Leu Glu Lys Leu Glu Lys Val Ala
 20 25 30

Asp Ala Pro Leu Leu Gln
 35

<210> 3484
 <211> 65
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3484

Ile Tyr Lys Leu Leu Asn Arg Leu Leu Arg Lys Trp Cys Lys Arg Thr
 1 5 10 15

Ile His Ala Asp Lys Asp Ala Leu Ala Gln Leu Ser Leu Ala Arg Ala
 20 25 30

Ala Lys Arg Arg Gly Met Ala Ala Arg Ala Leu Glu Leu Thr Asp Ala
 35 40 45

Lys Arg Gln Thr Asn Pro Tyr Gln Asn Asp Gln Ala Lys Arg Leu His
 50 55 60

Gly
 65

<210> 3485
 <211> 37
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3485

Arg Met Arg Leu Leu Lys Arg Trp Trp Arg Lys Leu Arg Arg Tyr Lys
 1 5 10 15

Ala Ala Arg Ser Ala Glu Ala Pro Arg Glu Ser Arg Met Lys Ile Ala

20

25

30

Gly Leu Asp Leu Gln
35

<210> 3486
<211> 34
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 3486

Lys Leu Arg Phe Phe Lys Arg Leu Leu Lys Arg Tyr Gln Arg Val Phe
1 5 10 15

Arg Ala Trp Lys Leu Thr Ala Asp Gln Ala Pro Arg Arg Leu Asp Ala
20 25 30

Lys Leu

<210> 3487
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 3487

Trp Ile Lys Ile Leu Asn Arg Ile Phe Arg Arg Leu Lys Pro Ala Tyr
1 5 10 15

Arg Cys Ala Ala
20

<210> 3488
<211> 42
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 3488

Phe Ile Arg Leu Phe Arg Lys Ile Leu Lys Phe Leu Lys Lys Lys Ala

1 5 10 15

Leu Leu Lys Phe Arg Asp Ala Arg Gln Asp Arg Pro Cys Ala Gly Ser
20 25 30

Arg Arg Ala Pro Glu Ile Lys Ala Pro Leu
35 40

<210>	3489
<211>	26
<212>	PRT
<213>	Artificial Sequence

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<220>  
<223> Computer-generated peptide variant
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<400> 3489

Lys Leu Arg Leu Met Lys Lys Leu Leu Arg Arg Phe Pro Arg Leu Ala
1 5 10 15

Cys Cys Arg Tyr Leu Pro Ala Cys Asn Asn
20 25

<210>	3490
<211>	48
<212>	PRT
<213>	Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 3490

Lys Tyr Lys Met Ile Lys Lys Tyr Leu Lys Trp Ile Thr Gln Ala Leu
1 5 10 15

Ser Lys Lys Ala Arg Thr Arg Arg Cys Arg Met Arg Leu Ala Cys Leu
20 25 30

Pro Arg Glu Leu Ala Thr Leu Ala Arg Val His Ala Asp Thr Met Leu
35 40 45

<210>	3491
<211>	64
<212>	PRT
<213>	Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 3491

Lys Leu Arg Leu Tyr Asn Lys Phe Leu Lys Lys Phe Lys Lys Thr Ala
1 5 10 15

Lys Leu Cys Leu Asp Cys Arg Leu His Asn Lys Ser His Lys Leu Ile
20 25 30

Ala Leu Lys Met Arg Ala Phe Lys Asn Lys Gly Ala Tyr Lys Arg Ala
35 40 45

Cys Lys Leu Ser Phe Gly Ala Trp Leu Tyr Tyr Arg Leu Ile Leu Asp
50 55 60

<210> 3492

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3492

Tyr Leu Lys Leu Leu Lys Arg Leu Tyr Arg Arg Trp Cys Arg His Lys
1 5 10 15

Trp Cys Leu Thr Asn Leu
20

<210> 3493

<211> 50

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3493

Lys Leu Lys Trp Met Pro Arg Leu Leu Arg Lys Phe Asn Lys Leu Asp
1 5 10 15

Asp Ala Gln Arg Arg Arg Leu Ser Cys Leu Leu Ser Lys Lys Leu Thr
20 25 30

Met Ala Arg Asp His His His Met Leu His Arg Gln Arg Leu Arg Leu
35 40 45

Tyr Ala
50

<210> 3494
<211> 42
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 3494

Ile Phe Arg Leu Ile Thr Lys Leu Phe Lys Lys Phe Arg Lys Ile Arg
1 5 10 15

Arg Pro Lys Gln Pro Arg Lys Arg Leu Leu Gly Ala Gly Leu Cys Ala
20 25 30

Ala Ile Ala Thr His Gln Ala Arg Leu Glu
35 40

<210> 3495
<211> 54
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 3495

Lys Phe Arg Tyr Phe Pro Arg Phe Tyr Arg Leu Leu Arg Asn Lys Ile
1 5 10 15

Glu Leu Ala Lys Lys Leu Tyr Lys Ala Lys Ala Arg Leu Leu Arg Met
20 25 30

Leu Asp Cys Val Ile Tyr Cys Glu Lys Gly His Lys Asp Ala Lys Gln
35 40 45

Ser Arg Ala Arg Leu Trp
50

<210> 3496
<211> 41
<212> PRT
<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3496

Arg Tyr Lys Ile Leu Arg Arg Leu Phe Lys Leu Met Lys Arg Ala Leu
 1 5 10 15

Leu Glu Asn Arg Arg Ile Ile Cys Lys Asp Phe His Ala Cys Ala Ala
 20 25 30

Ser Asn Ala Ala Gln Ala Met Met Arg
 35 40

<210> 3497

<211> 50

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3497

Lys Phe Arg Phe Met Lys Lys Leu Phe Lys Arg Tyr Cys Arg Ala Arg
 1 5 10 15

Leu His Leu Lys Arg Lys Lys Gly Ala Gly Gln Ala His Leu Lys Tyr
 20 25 30

Pro Leu Val Ser Arg Ile Val Arg Trp Arg Tyr Leu Ala Lys Ala Met
 35 40 45

Leu Ala
 50

<210> 3498

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3498

Arg Leu Lys Ile Tyr Lys Arg Ile Leu Lys Phe Leu Cys Cys Cys Glu
 1 5 10 15

Asn Leu Leu Asn Ala Arg Lys

20

<210> 3499
 <211> 41
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3499

Lys Tyr Arg Leu Ile Lys Arg Trp Tyr Lys Arg Leu Lys Pro Ala Lys
 1 5 10 15

Asn Lys Leu Phe Lys Glu Ala Phe Ala Arg Pro Trp Arg Lys Ala Ala
 20 25 30

His Ala Arg Leu Ala Ala Asn Leu Thr
 35 40

<210> 3500
 <211> 41
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3500

Leu Leu Arg Tyr Leu Arg Arg Leu Tyr Lys Met Trp Cys Cys Leu Lys
 1 5 10 15

Arg Ala Arg Ala Arg Lys Ala Leu Thr Ala Ala Tyr Lys Tyr Ser Arg
 20 25 30

Gln Val Val Val Trp Leu Tyr Lys Ala
 35 40

<210> 3501
 <211> 89
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3501

Arg Tyr Lys Tyr Leu Cys Arg Leu Phe Arg Tyr Leu Lys Cys Ala Gly

<210>	3502
<211>	52
<212>	PRT
<213>	Artificial Sequence
<220>	
<223>	Computer-generated peptide variant
<400>	3502

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Arg Phe Lys Trp Leu Arg Lys Leu Trp Arg Leu Leu Arg Arg Glu Pro
1      5      10      15
Lys Ile Gln Tyr Pro Leu Ile Ala Ile Lys Lys Arg Cys His His Leu
20      25      30
Tyr Glu Ala Lys His Glu Leu Ala Leu Ser Asn Ala Arg Trp Lys Cys
35      40      45
Ala Ala Leu Val
50

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<210>	3503
<211>	36
<212>	PRT
<213>	Artificial Sequence
<220>	
<223>	Computer-generated peptide variant
<400>	3503

Ile Trp Lys Leu Tyr Thr Lys Met Leu Lys Lys Tyr His Lys Tyr Cys
 1 5 10 15

Ala Leu Lys Cys Val Ala Leu His Arg Trp Arg Lys Ala Lys Trp Ala
 20 25 30

Arg Val Leu Pro
 35

<210> 3504
 <211> 65
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3504

Lys Leu Lys Phe Ile Pro Lys Tyr Leu Lys Tyr Tyr Pro Arg Ala His
 1 5 10 15

Pro Val Lys Glu Asn Ala Val Arg Tyr Arg Ala Leu Lys Leu Tyr Ser
 20 25 30

Leu Met Gly Gln Phe Arg Leu Lys Ala Lys Trp Leu Phe Leu Gln Ala
 35 40 45

Lys Arg His Arg Lys Lys Val Ala Arg Leu Ala Arg Ala His Leu Leu
 50 55 60

Cys
 65

<210> 3505
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3505

Lys Phe Lys Tyr Leu Lys Arg Tyr Leu Arg Arg Leu Pro His Ala Ala
 1 5 10 15

Leu Asp Gly Ala Ala Gly

20

<210> 3506
 <211> 44
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3506

Lys Met Lys Leu Phe Lys Lys Trp Tyr Lys Arg Leu Gln Arg Cys Ala
 1 5 10 15

Lys Gly Gly Lys Ala Lys Lys Ile Phe Ala Ile Ala Phe Tyr Ser Ala
 20 25 30

Met Ala Leu Ala Lys Ile Glu Arg Leu Arg Thr Ala
 35 40

<210> 3507
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3507

Lys Leu Arg Leu Phe Lys Arg Leu Leu Arg Tyr Leu Lys Cys Asn Ala
 1 5 10 15

Thr Ala Met Gly Arg Thr
 20

<210> 3508
 <211> 38
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3508

Phe Leu Lys Met Phe Lys Arg Leu Ile Arg Lys Phe Ser Gln Leu Arg
 1 5 10 15

Tyr Leu Leu Ala Arg Ala Ala Glu Gly Leu Ala Met Ala Ser Arg Met

20

25

30

Val Leu Arg Gln Arg Lys
35

<210> 3509

<211> 100

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3509

Leu Leu Arg Phe Tyr Thr Arg Phe Met Arg Arg Leu Arg Ser Glu Lys
1 5 10 15

Leu Gln Gly Phe Ile Glu Arg Phe Phe Ala Arg Ala Lys Leu Asn Ala
20 25 30

Ser Leu Ile His Lys Arg Glu Val Asp Ala Ala Gly Gln Ala Thr Cys
35 40 45

His Trp Glu Leu Leu Arg Leu Arg Lys Lys Lys Arg Lys Val Arg Ala
50 55 60

Cys Lys Ile Ala Lys Arg Arg Arg Asn Lys Ala Leu Leu Asp Asn Glu
65 70 75 80

Leu Cys Leu Ala Leu Leu Leu Arg Tyr Glu Ala Leu Glu Met Lys Glu
85 90 95

Cys Ala Ala Lys
100

<210> 3510

<211> 50

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3510

Phe Leu Lys Trp Leu Pro Arg Leu Leu Arg Lys Leu Arg Lys Asn Thr
1 5 10 15

Ala Arg Lys Leu Thr Ala Leu Asp Arg Lys Lys Phe Gln Leu Arg Arg
 20 25 30

Glu Leu Arg Ser Cys Arg Arg Ala Gln Val Trp Glu Ala Ile Glu Asp
 35 40 45

Phe Thr
 50

<210> 3511
 <211> 44
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3511

Arg Trp Lys Phe Leu Arg Lys Tyr Tyr Arg Trp Trp Lys Cys Gly Thr
 1 5 10 15

Ala Trp Gln Ser Val Arg Ala Lys Tyr Tyr Met Cys Gln Leu Ala Leu
 20 25 30

Lys Lys Ala Lys Ala Arg Lys Leu Lys Ala Tyr Ala
 35 40

<210> 3512
 <211> 86
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3512

Trp Leu Arg Phe Leu Lys Lys Ile Leu Arg Leu Leu Pro Cys Arg Lys
 1 5 10 15

Glu Leu Tyr Phe Lys Arg Arg Ala Pro Phe Leu Arg His Ile Ala Ile
 20 25 30

Arg Gln Met Ala Ala Ala Pro Gly Leu Leu Lys Lys Ala Ala Leu Leu
 35 40 45

Arg Met Arg Arg Cys Trp Pro Ala Leu Arg Arg Lys Trp Ala Glu Cys

50 55 60

Ala Ala Ile Leu Gln Lys Arg Ser Val His Phe Asp Tyr Lys Gln Val
65 70 75 80

Leu His Leu Lys Gly Lys
85

<210>	3513
<211>	60
<212>	PRT
<213>	Artificial Sequence

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<220>
<223> Computer-generated peptide variant
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<400> 3513

Lys Phe Arg Leu Leu Pro Arg Tyr Leu Arg Trp Tyr Arg Ser Arg Ala
1 5 10 15

Arg Tyr Ala Leu Glu Gly Tyr Leu Arg Gly Lys Leu Met Lys Arg Arg
20 25 30

Phe Arg Lys His Leu Phe Lys Gln Lys Ala Lys Val Ile Val Leu Leu
35 40 45

Met Met Ala Leu Leu Leu Met Ala Glu Val Glu Ser
50 55 60

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<210> 3514
<211> 30
<212> PRT
<213> Artificial Sequence
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<220>
<223> Computer-generated peptide variant

<400> 3514

Arg Ile Lys Met Leu Thr Lys Phe Leu Arg Trp Met Lys Arg Tyr Leu
1 5 10 15

Met Ala Pro Lys Arg Leu Leu Val Asp Arg Leu His Leu Lys
20 25 30

$\langle 210 \rangle$	3515
$\langle 211 \rangle$	38
$\langle 212 \rangle$	PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3515

Lys Met Arg Leu Tyr Lys Lys Leu Leu Arg Ile Tyr Lys Thr Phe Lys
1 5 10 15

Phe Met Thr Leu Arg Gly Ala Cys Ala Asn Arg Leu Ala Ser Lys Leu
20 25 30

Asn Asn Asn Cys Leu Lys
35

<210> 3516

<211> 64

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3516

Arg Leu Lys Met Leu Thr Lys Ile Phe Arg Lys Leu His Gln Lys Tyr
1 5 10 15

Arg Ser Lys Arg Arg Ala Leu Ala Lys Phe Cys Ala Leu Ala Arg Trp
20 25 30

Phe Lys Arg Leu Arg Leu Arg His Phe Ala Gln Arg Arg Gln Ser Thr
35 40 45

Leu Asp Arg Glu Ala Phe Trp Ile Val Lys Ser Arg Gly Cys Ile Leu
50 55 60

<210> 3517

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3517

Arg Met Lys Leu Phe Gln Arg Tyr Leu Arg Lys Phe Pro Asn Arg Leu
1 5 10 15

Leu Asn Ala Cys Lys Gln Gln Arg Ala Gly Leu Asp Glu Leu Leu Arg
 20 25 30

Ala Lys Lys
 35

<210> 3518

<211> 77

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3518

Arg Tyr Arg Trp Phe Pro Arg Tyr Ile Lys Leu Leu Lys Lys Leu Asp
 1 5 10 15

Arg Ala Arg Pro Ala Cys Asp Tyr Lys Lys Ser Cys Lys Leu Leu Gly
 20 25 30

Lys Lys Ser Pro Val Ala Arg Trp Thr Lys Ala Ile Lys Leu Val Tyr
 35 40 45

Leu Lys Gly Met Arg Arg Leu Ala Lys Leu Leu His Pro Arg Cys Ala
 50 55 60

Lys Leu Leu Ala Lys Leu Gln Ala Ala Pro Val His Ala
 65 70 75

<210> 3519

<211> 42

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3519

Arg Ile Lys Leu Leu Lys Lys Leu Ile Lys Lys Leu Gln Lys Met Ser
 1 5 10 15

Ala Tyr Arg Arg Arg Gln Ala Leu Arg Ile Ile Leu Arg Ala Val Ala
 20 25 30

Ala Leu Ile Arg Leu Leu Pro Lys Asn Gly

35

40

<210> 3520

<211> 94

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3520

Lys Leu Arg Phe Phe Arg Lys Met Leu Lys Lys Leu Lys Thr His Phe
 1 5 10 15

Leu Val Arg Glu Cys Arg Lys Glu Arg Ala Ile Arg Leu Arg Gln Asn
 20 25 30

Asn Phe Leu Thr Arg Ala Ala Cys Arg Gly Ala Ser Lys Lys Asn Phe
 35 40 45

Ala Arg Phe Trp Asp Lys Arg Ala Ala Arg Gln Leu Ala Arg Thr Gly
 50 55 60

Ser Arg Leu Thr Lys Ala Thr Leu Asn Leu Phe Ala Ala Gln Leu Glu
 65 70 75 80

Cys Ser Arg Pro Asp Lys Leu Arg Glu Gln Lys Val Ala Ile
 85 90

<210> 3521

<211> 37

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3521

Lys Tyr Arg Leu Tyr Lys Arg Tyr Leu Arg Arg Leu Arg Lys Leu Leu
 1 5 10 15

His Arg Arg Gln Lys Phe Leu Met Leu Leu Phe Asp Glu Asn Ala Trp
 20 25 30

Tyr Ala Ser Leu Gly
 35

<210> 3522
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3522

Arg Ile Lys Ile Leu His Lys Leu Trp Arg Arg Trp His Lys Met Leu
 1 5 10 15

Leu Leu Ser Val Asp Asn Arg Pro Leu Ala Ala Ile Lys Gln Leu Ala
 20 25 30

Arg

<210> 3523
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3523

Arg Leu Lys Met Met Gln Arg Trp Leu Arg Arg Leu Asn Gln Lys Ala
 1 5 10 15

Ala Leu Phe Asp His Leu Leu Val Lys Ser Asp Gln Arg
 20 25

<210> 3524
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3524

Leu Leu Arg Leu Met Asn Arg Phe Trp Arg Arg Phe Arg Arg Ala Leu
 1 5 10 15

Leu Ala Ala Arg Arg Pro Gly
 20

<210> 3525
 <211> 69
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3525

Arg Met Lys Leu Trp Lys Lys Leu Tyr Arg Phe Phe Lys Gln Leu Glu
 1 5 10 15

Met Pro Ala Leu Ser Lys Lys Arg Ala Leu Leu Ala Lys Met Cys Phe
 20 25 30

Arg Lys Met Leu Arg Tyr Cys Leu Asp Gln His Ala Leu Phe Leu His
 35 40 45

Lys Arg Asn Met Thr Leu Asn Asp Arg Leu Phe Leu Lys Leu Trp Thr
 50 55 60

Lys Ala Arg Thr Trp
 65

<210> 3526
 <211> 56
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3526

Lys Leu Lys Tyr Tyr Lys Lys Phe Leu Arg Arg Tyr Cys His Arg Lys
 1 5 10 15

Leu Phe Arg Trp Leu Thr Ser Leu Arg Arg Ala Ala Arg Lys Ala Leu
 20 25 30

Leu Asn Tyr His Gln Val Cys Gln Leu Leu Lys Lys Lys Lys Met Met
 35 40 45

Ala Thr Trp Lys Asn His Cys Leu
 50 55

<210> 3527

<211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3527

Arg Phe Arg Met Trp Arg Lys Leu Leu Arg Arg Trp Ser Pro Leu Lys
 1 5 10 15

Ala Val Ile His Ala Ala Leu Arg Tyr Val Ser Ala Arg Ala Cys Arg
 20 25 30

<210> 3528
 <211> 82
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3528

Lys Leu Arg Phe Phe Gln Lys Ile Met Lys Arg Tyr Gln Ser Arg Leu
 1 5 10 15

Arg Leu Glu Ala Val Lys Asn Ala Val Ile Arg Pro Gly Leu Met Arg
 20 25 30

Tyr Arg Asp Leu Arg Arg Leu Leu Ala Phe Tyr Leu Lys Arg Tyr Leu
 35 40 45

Lys Arg Ser Asn Ile Leu Trp Leu Lys Val Met Ala Ala Ser Ile Arg
 50 55 60

Arg Ala Ile Lys His Arg Arg Thr Pro Leu Ser Leu Asn Arg Lys Leu
 65 70 75 80

Ala Ile

<210> 3529
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3529

Lys	Leu	Arg	Phe	Phe	Arg	Arg	Phe	Phe	Lys	Leu	Tyr	Lys	His	Phe	His
1				5					10					15	

Ala	Ala	Lys	Ala	Lys	Gly	Ile	Ala	Lys	Val	Asp	Leu	Leu	Asp	Leu	Gly
			20					25					30		

Leu

<210> 3530

<211> 78

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3530

Arg	Phe	Lys	Ile	Tyr	Gln	Lys	Leu	Ile	Arg	Arg	Ile	Lys	Thr	Leu	Ala
1				5				10						15	

Val	Leu	Ala	Ala	Ala	Arg	Thr	Ala	Ile	Asn	Ala	Ala	Val	Leu	Cys	Arg
			20					25					30		

Ala	Leu	Lys	Thr	Lys	Ala	Lys	Arg	Lys	Ala	Ala	Phe	Ile	Arg	Leu	Ala
		35					40					45			

Asn	Pro	Met	Lys	Leu	Asn	Met	Ser	His	Lys	Ile	Ala	Met	Lys	Trp	Pro
	50					55					60				

Val	Met	Ala	Leu	Arg	Met	Arg	Lys	Ala	Gly	His	Arg	Gln	Arg
65					70					75			

<210> 3531

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3531

Arg	Leu	Lys	Tyr	Trp	Lys	Lys	Leu	Trp	Lys	Lys	Leu	Arg	Arg	Trp	Gly
1			5					10						15	

Gly Arg Lys Pro Leu Leu Cys Tyr Thr Leu Gly Tyr Tyr Cys Ala Ala
 20 25 30

Lys Asp

<210> 3532

<211> 73

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3532

Phe Trp Arg Leu Leu Arg Arg Leu Met Arg Lys Leu Lys Gln Lys Ser
 1 5 10 15

His Ala Lys Arg Ile Gln Leu Arg Ala His Lys Ile Lys Arg Pro Ile
 20 25 30

Lys Leu Lys Ala Gly Trp Pro Arg Phe Met Lys Asp Lys Met Phe Ala
 35 40 45

Lys Trp Ala Asp Gln Ile Leu Ile Asn Ala Ile Val Gln Lys Ala Tyr
 50 55 60

Ala Ala Ala Ala Asn Ala Asp Ala Lys
 65 70

<210> 3533

<211> 97

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3533

Lys Leu Arg Ile Leu Arg Arg Phe Phe Lys Lys Tyr Lys Thr Val Ala
 1 5 10 15

Ala Lys Ser Met Lys Leu Cys Trp Ala Ala Ala Trp Asp Ala Arg Ser
 20 25 30

Pro Ala Ala Asp Lys Glu Ala Leu Asn Thr Leu Asp Cys Lys Ala Ala

35 40 45
 Thr Asn His Ile Glu Leu Ser Asn Gln His Ala Arg Lys Met Phe Leu
 50 55 60
 Gly Ile Glu Arg Leu Glu Ser Arg Lys Ala Ala Arg Leu Leu Arg Arg
 65 70 75 80
 Leu Ala Thr Trp Leu Trp Leu Pro Arg Asp Lys Arg Gln Arg Lys Lys
 85 90 95

Leu

<210> 3534
 <211> 27
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3534

Leu Phe Lys Phe Trp Arg Lys Leu Leu Arg Arg Ile Gln Lys Ala Ala
 1 5 10 15

Ala Leu Phe Lys Asp Gly Arg Asp Ala Tyr Gln
 20 25

<210> 3535
 <211> 66
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3535

Arg Met Arg Met Leu Arg Lys Leu Phe Arg Lys Ile Lys Pro Lys Tyr
 1 5 10 15

Cys Arg Arg Gly Ala Glu Ala Ala Tyr Leu Lys Met Arg His Ile Leu
 20 25 30

Tyr Lys Arg Pro Glu Thr Cys Val Leu Arg Ile Arg Arg Trp Lys Lys
 35 40 45

Val Met Met Arg Leu Pro Gly Ala Lys Cys Lys Leu Ala Ala Val Leu
 50 55 60

Leu Ala
 65

<210> 3536
 <211> 44
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3536

Lys Met Arg Phe Tyr Arg Arg Leu Tyr Lys Lys Phe Arg Asn His Asn
 1 5 10 15

Ala Ala Ala Arg Leu Thr Arg His Pro Ala Asn Glu Thr Gln Gln Glu
 20 25 30

Arg Phe Ala Gly Lys Arg Lys Leu Leu Leu Arg Leu
 35 40

<210> 3537
 <211> 98
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3537

Arg Met Arg Phe Trp Lys Arg Leu Leu Arg Ile Ile Arg Lys Ala Lys
 1 5 10 15

Ala Lys Ala Lys Gln His Asn Arg Lys Ala Asp Val His Ala Tyr Lys
 20 25 30

Lys Pro Asn Gly Tyr Ala Ala Trp Arg Asn Val Lys Glu Arg Arg Ala
 35 40 45

Ala Ala Ala Val Gly Arg Cys Asp His His Thr Pro Leu Ala Val Leu
 50 55 60

Tyr Pro Val Phe Glu Lys Arg Val Ile Ala Trp Ala Leu Ile Arg Pro

<210>	3538
<211>	32
<212>	PRT
<213>	Artificial Sequence
<220>	
<223>	Computer-generated peptide variant
<400>	3538

Met His Thr Arg Thr Leu His Arg Leu Ala Leu Asp Ala Asp Tyr Leu
20 25 30

<210>	3539
<211>	56
<212>	PRT
<213>	Artificial Sequence
<220>	
<223>	Computer-generated peptide variant
<400>	3539

Gln Lys Lys Met Ala Thr Lys Val Ala Leu Val Ala Leu Gln Leu Leu
20 25 30

Ala Ile Val Arg Pro Leu Trp Pro Lys Cys Lys Lys Arg Thr Lys Arg
35 40 45

<210>	3540
<211>	74
<212>	PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3540

Arg Met Lys Leu Phe Arg Arg Phe Ile Arg Ile Leu Ser Arg Phe Thr
1 5 10 15

Ala Arg Ala Arg Gln His Arg Val Asn Leu Arg Arg Leu Lys Pro Leu
20 25 30

Leu Leu Arg Tyr Lys Cys His Ala Leu Ser Pro Val Met Leu Lys Ala
35 40 45

Cys Leu Ala Leu Met Met Trp Lys Lys Leu Met Pro His Lys Tyr Arg
50 55 60

Lys Leu Met Ala Arg Lys Arg Asn Lys Ile
65 70

<210> 3541

<211> 96

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3541

Arg Trp Arg Trp Phe Arg Lys Ile Phe Lys Arg Trp Lys Arg Ser Leu
1 5 10 15

Arg Arg Trp Asp Ala Ala Lys Trp Ala Lys Ser Leu Trp Ala Arg Tyr
20 25 30

Ala Lys Pro Arg Ala Leu Ile Trp His Met Arg Pro His Ala Lys Tyr
35 40 45

Leu His Gly Ala Arg Lys Arg Arg Gly Phe Lys Arg Asn Ala Ser Arg
50 55 60

Lys Met Ile Lys Leu Met Met Lys Ala Arg Leu Lys Asp Glu Asn Ala
65 70 75 80

Leu Glu Ala Asp Tyr Lys Pro Ala Ile His Lys Leu Ser Ile Ala Asp

85

90

95

<210> 3542
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3542

Arg Leu Lys Tyr Tyr Arg Lys Phe Leu Lys Tyr Leu Cys Lys Leu Arg
 1 5 10 15

His Ala Pro Lys Lys Arg Leu Asn Ala Lys Lys Ile Arg Met Ala Ala
 20 25 30

Leu Trp Val Trp
 35

<210> 3543
 <211> 27
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3543

Arg Met Arg Leu Leu Cys Lys Leu Met Lys Lys Leu Arg Ser Ala Lys
 1 5 10 15

Leu Met Trp Trp Arg Asp Leu Leu Arg Lys Leu
 20 25

<210> 3544
 <211> 31
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3544

Lys Leu Lys Tyr Phe Arg Lys Met Leu Arg Lys Trp Thr Arg Trp Glu
 1 5 10 15

Lys Leu Leu Phe Arg Ala Ala Ala Glu Val Asp Ala Ala Ala Ile

20

25

30

<210> 3545

<211> 41

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3545

Lys Leu Arg Phe Leu Arg Lys Leu Phe Lys Lys Phe Arg Lys Arg Ala
 1 5 10 15

Ala Arg Arg Ala Ser Lys Pro Val Ala Ala Leu Gly Thr Leu Arg Arg
 20 25 30

Ala Pro Leu His His Leu Ala Arg Ala
 35 40

<210> 3546

<211> 92

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3546

Trp Leu Lys Phe Phe Arg Lys Phe Phe Arg Arg Phe Arg Ser Ala Ala
 1 5 10 15

Ile Thr Asn Gln Arg Ala Leu Ala Ala Tyr Gly Leu Ala Val Ala Asn
 20 25 30

Arg Pro Ser Lys Val Glu Pro Ser Lys Lys Lys Ala Lys Lys Cys Arg
 35 40 45

Ile Trp Lys Ala Ala Ala Lys Ala Lys Ile Asp Lys Cys Ala Gln Cys
 50 55 60

Ala Lys Arg Met Lys Lys Leu Glu Trp Lys Ala Lys Leu Val Ala Lys
 65 70 75 80

His Lys Lys Gln Leu Leu Cys Gly Ala Lys Lys Ile
 85 90

<210> 3547
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3547

Lys Leu Arg Phe Trp Pro Arg Phe Leu Lys Leu Phe Lys Lys Ala Val
 1 5 10 15

Phe Lys Leu Ile Ala Ala Lys Val Ala Lys Leu Arg Arg Glu Leu His
 20 25 30

Met Gly

<210> 3548
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3548

Arg Leu Lys Ile Phe Pro Lys Leu Leu Lys Arg Leu Thr Arg Ala Pro
 1 5 10 15

Thr Lys Thr Ala Thr Trp Lys
 20

<210> 3549
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3549

Ile Leu Arg Leu Leu Lys Lys Phe Met Lys Lys Leu Arg Ser Pro Ile
 1 5 10 15

Cys Ala Cys Glu Pro Ala Ala Ala Met Ser His Lys Lys Lys Leu Ala
 20 25 30

<210> 3550
 <211> 70
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3550

Met Leu Arg Leu Leu Arg Lys Leu Phe Lys Arg Ile Lys Lys Ala Arg
 1 5 10 15

Trp His Trp Gly Ser Trp Lys Arg Glu Lys Ala Gln Leu Leu Arg Leu
 20 25 30

Pro Arg Ala Lys Leu Leu Phe Ala Val Thr Glu Trp Val Leu Trp Lys
 35 40 45

Ser Arg Gly Val Asn Arg Arg Ser Leu Gly Ala Ala Val Arg Gln Trp
 50 55 60

Tyr Lys Cys Arg Pro Ala
 65 70

<210> 3551
 <211> 89
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3551

Arg Phe Arg Trp Ile Arg Arg Tyr Tyr Lys Arg Met Arg Arg Arg Arg
 1 5 10 15

Tyr Arg Leu Arg Met Lys Trp Lys Phe Ala Leu Ser Arg Met Ala Asp
 20 25 30

Leu Glu Ala Arg Cys Tyr Leu Trp Lys Ser Lys Pro Gln Leu Tyr His
 35 40 45

His Gln Asp Leu Tyr Arg Arg Leu Ile Arg Thr Leu Lys Lys Leu Phe
 50 55 60

Ala Trp Lys Ile Val Lys Ala Leu Ser Cys Leu Gln Ile Leu Ala Ser

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3554

Arg Leu Lys Phe Leu Arg Arg Phe Tyr Lys Lys Met Arg Lys Ala Arg
1 5 10 15

Ala Met Arg Cys Pro Lys Val Ala Lys Leu Leu Cys Lys Gln Arg Ala
20 25 30

Ala Asn Leu Ser Leu Gln Gly Ile Ser Ser Lys Asp Val Leu Lys Ile
35 40 45

Lys Leu
50

<210> 3555

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3555

Lys Tyr Arg Leu Leu Arg Arg Phe Leu Lys Leu Phe Pro Cys Leu Thr
1 5 10 15

Gly Arg Lys Ser Glu
20

<210> 3556

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3556

Leu Tyr Arg Ile Leu Arg Lys Leu Leu Lys Arg Met Thr Thr Ala Thr
1 5 10 15

Tyr Lys Ala Val
20

<210> 3557
 <211> 27
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3557

Phe Leu Arg Tyr Trp Arg Arg Trp Met Arg Leu Phe Arg Lys Tyr Ala
 1 5 10 15

Arg His Thr Leu Leu Val Thr Ala Thr Lys Leu
 20 25

<210> 3558
 <211> 50
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3558

Arg Leu Arg Phe Phe Arg Lys Trp Phe Arg Lys Phe His Ser Ala Ile
 1 5 10 15

Leu Leu Ala Leu Leu Val Lys Val Val Asn Arg Ala Leu Met Arg Arg
 20 25 30

Ile Arg Ala Ala Ser Leu Phe Arg Glu Phe Asp Ala Phe His Ala Leu
 35 40 45

Arg Met
 50

<210> 3559
 <211> 92
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3559

Tyr Phe Lys Tyr Leu Thr Arg Phe Leu Lys Tyr Trp Asn Arg Arg Gly
 1 5 10 15

Ile His Lys Ala Trp Ala Leu Ala Pro Lys Ala Leu Glu Lys Ala Lys
 20 25 30

His Asn Val Ser Leu Glu Lys Lys Leu Arg Leu Arg Leu Thr Arg Lys
 35 40 45

Val Ser Leu Ala Leu Trp Arg His Phe Ala Val Arg Ala Ile Ala Lys
 50 55 60

Ala Arg Ala Ser Leu Ala Leu Leu Glu Asp Leu Pro Ile Phe Arg Tyr
 65 70 75 80

Ala Ile His Ser Tyr Trp Lys Lys Arg Lys Lys Lys
 85 90

<210> 3560
 <211> 47
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3560

Arg Leu Arg Leu Trp Arg Lys Met Met Arg Leu Leu Pro Lys Lys Ala
 1 5 10 15

Arg His Cys Phe Gly Leu Glu Arg Lys Met Glu Gln Ile Ala Asn Ala
 20 25 30

Lys Ile Ala Met Cys Lys Gly Leu Ala Ala Arg Ile Ala Lys Asn
 35 40 45

<210> 3561
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3561

Ile Phe Lys Trp Met Arg Arg Leu Phe Lys Lys Tyr Thr Arg Gln Leu
 1 5 10 15

Arg Leu Ala Leu Cys

20

<210> 3562
 <211> 51
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3562

Leu Trp Arg Phe Trp Arg Arg Leu Trp Arg Arg Leu Arg Lys Arg Ile
 1 5 10 15

Met Ala Leu Pro Ala Glu Ala Lys Tyr Arg Arg Phe Glu Arg Leu Cys
 20 25 30

His Thr Cys Ala Glu Arg Arg Leu Arg Thr Asn Arg Lys Val Val Leu
 35 40 45

Tyr Ala Val
 50

<210> 3563
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3563

Leu Tyr Lys Phe Tyr Cys Lys Leu Leu Lys Leu Leu Arg Lys Lys Ala
 1 5 10 15

Leu Phe Ala Ser Lys Arg Gln Phe Leu Gly Ser Arg
 20 25

<210> 3564
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3564

Leu Trp Arg Met Tyr Lys Lys Leu Ile Lys Arg Leu Arg Gln Arg Met

1 5 10 15

Gln Ala Leu Arg Ala
20

<210> 3565
<211> 95
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 3565

Lys Tyr Arg Ile Leu Lys Arg Leu Ile Arg Leu Met Arg Arg Asn Ala
1 5 10 15

Asn Met Arg Asp Lys Ala Arg Thr Lys Thr Met Arg Lys Leu Arg Met
20 25 30

Ala Thr Phe Leu Arg Gly Leu Trp Trp Ala Pro Arg Met Lys Gly Ala
35 40 45

Leu Leu Phe Thr Ser Ala Arg Arg Leu His Thr Asp Ala Trp Glu Trp
50 55 60

Ser Ala Leu Asp Arg Glu Ala Arg Leu His Lys Gly Phe Arg Lys Lys
65 70 75 80

Ala Thr Asn Leu Trp Ser Ala Ala Leu Ala Cys Arg Asn Arg Lys
85 90 95

<210> 3566
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 3566

Leu Phe Arg Leu Leu Cys Arg Trp Trp Lys Lys Phe Lys Lys Ala Ala
1 5 10 15

Ala Phe Ile Gly Arg Ala Lys Ser Gln Lys Arg Asn Leu Ala Glu Ala
20 25 30

Lys Gly Gly Trp Lys Lys Lys Val
 35 40

<210> 3567
 <211> 21
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Computer-generated peptide variant

 <400> 3567

Tyr Met Arg Leu Ile Thr Arg Leu Ile Lys Lys Leu Arg Lys Trp Leu
 1 5 10 15

Ala Asn Ala Pro Gln
 20

<210> 3568
 <211> 66
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Computer-generated peptide variant

 <400> 3568

Leu Leu Arg Trp Leu Lys Arg Trp Tyr Lys Lys Trp Pro Ser Arg Val
 1 5 10 15

Lys Pro Asn Arg Ile Lys Gln Ala Ala Arg Ala Lys Lys Arg His Val
 20 25 30

Ala Thr Ser Thr Ile Arg Lys Pro Met His Ala Lys Cys Arg Glu Ala
 35 40 45

Arg Phe Trp Gly Arg Ala Leu Thr Leu Asp Gln Leu Trp Arg Arg Ala
 50 55 60

Ala Ala
 65

<210> 3569
 <211> 95
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3569

Trp	Leu	Arg	Met	Phe	Lys	Arg	Phe	Met	Lys	Phe	Met	Lys	Gln	Ala	Phe
1				5					10					15	

Ala	Ile	Val	Leu	Glu	Lys	Ala	Trp	Asn	Arg	Glu	Lys	Leu	Ala	Leu	Glu
			20					25					30		

Arg	Lys	Trp	Leu	Lys	Ala	Arg	Asp	Lys	Lys	Arg	Pro	Ala	Arg	Gly	Arg
		35					40					45			

Glu	Glu	Leu	Lys	Lys	Arg	Leu	Val	Cys	Ala	Arg	Val	Thr	Asp	Ala	Arg
	50					55					60				

Met	Leu	Asn	Cys	Glu	Lys	Leu	Gln	Ala	His	Leu	Ala	Leu	Leu	Asn	Ala
65					70					75				80	

Ala	Ala	Gly	Phe	Leu	Phe	Lys	Leu	Ala	Tyr	Leu	Met	Ala	Lys	Ala
				85					90					95

<210> 3570

<211> 52

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3570

Lys	Leu	Lys	Tyr	Met	Lys	Arg	Trp	Tyr	Arg	Arg	Phe	Lys	His	Cys	Arg
1				5					10					15	

Leu	Ile	Arg	Arg	Ala	Pro	Lys	Cys	Leu	Leu	Thr	Lys	Leu	Ile	Ala	Ala
			20					25					30		

Leu	Arg	Lys	Cys	Ala	Leu	Arg	His	Ala	Lys	Cys	Ala	Leu	Cys	Ala	Ala
		35					40					45			

Lys	Arg	Leu	Leu
		50	

<210> 3571

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3571

Leu Trp Arg Ile Phe Gln Arg Met Tyr Arg Lys Phe Asn Arg Leu Phe
1 5 10 15

Leu Leu Ala Lys Asp Leu Pro Lys Leu
20 25

<210> 3572

<211> 69

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3572

Phe Leu Lys Phe Tyr Arg Arg Trp Met Arg Met Leu Lys Arg Glu His
1 5 10 15

Ser Leu Arg Cys His Lys Gln Lys Lys Ser Tyr Tyr Ser Leu Ser Lys
20 25 30

Arg Asp Lys Tyr Lys Arg Ala Arg Met Leu Ala Ala Lys Leu Lys Leu
35 40 45

Ala Lys Ser Cys Arg Arg Tyr Pro Arg Leu Asp Ile Phe Gln Thr Leu
50 55 60

Leu Phe Leu Thr Leu
65

<210> 3573

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3573

Arg Met Lys Leu Leu Lys Lys Leu Tyr Arg Trp Trp Lys Lys Met Arg
1 5 10 15

Cys Leu Ala Ala Leu Gln Ala Ala Arg Gly Thr Lys Leu
 20 25

<210> 3574
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3574

Arg Met Arg Leu Phe Ser Lys Phe Phe Arg Arg Leu Lys Gln Leu Arg
 1 5 10 15

Trp Pro Ile Leu Asn Phe Ala Ala Leu
 20 25

<210> 3575
 <211> 77
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3575

Met Leu Lys Trp Leu Asn Arg Phe Leu Arg Leu Phe Arg Arg Lys Ala
 1 5 10 15

Lys Gly Val Lys Gly Lys Arg Thr Leu Ala Met Lys Ile His Met Arg
 20 25 30

Ala Ala Glu Leu Arg Met Arg Asp Phe Tyr Ile Lys Pro Pro Leu His
 35 40 45

Arg Arg Gly Lys Asp Ile Leu Met Gly Arg Ala His Ala Arg Ala Lys
 50 55 60

Arg Met Leu His His Ala Lys Ile Ala Arg Ala Ser His
 65 70 75

<210> 3576
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3576

Leu Trp Lys Tyr Met Thr Arg Ile Leu Lys Leu Tyr Arg Asn Tyr Arg
 1 5 10 15

Ile Tyr Tyr His Ile Lys Lys Ala Asp Asp Leu Lys Leu Ala Lys His
 20 25 30

Ala Ser Lys Lys Leu Arg Ala Thr
 35 40

<210> 3577

<211> 46

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3577

Met Trp Lys Tyr Ile Lys Lys Phe Tyr Lys Lys Tyr Asn Arg Ala Leu
 1 5 10 15

Ala Lys Leu Lys Pro Arg Ala Lys Val Met Gln Ala Thr Arg Phe Leu
 20 25 30

Leu Ala Lys Lys Tyr Thr Phe Ala Arg Leu Ala Leu Thr Gly
 35 40 45

<210> 3578

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3578

Arg Leu Lys Leu Ile Arg Lys Met Leu Arg Lys Ile Lys His Arg Thr
 1 5 10 15

Ser Gln Ala Cys Ala Gly Ala Ala
 20

<210> 3579

<211> 63
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3579

Arg Leu Arg Trp Leu Arg Arg Phe Ile Arg Lys Met Arg Asn Ala Arg
 1 5 10 15

Val His Leu Lys Leu Pro Asp Lys Asn Lys Arg Gly Leu Arg Ala Ala
 20 25 30

Lys Leu Tyr Met Tyr Arg Tyr Ala Leu Asp Ser Ala Lys Ile Val Asp
 35 40 45

Ser Phe Ala Ala Trp Ser Cys Arg Phe Leu Ala Asp Leu Lys Ala
 50 55 60

<210> 3580
 <211> 43
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3580

Arg Leu Lys Phe Ile Ser Arg Phe Phe Lys Lys Leu Cys Lys Lys Met
 1 5 10 15

Ala Leu Ala Gln Ala Leu Tyr Lys Ala Pro Arg Arg Phe Arg Thr Ala
 20 25 30

Val Ile Ala Cys Ala Asp Ala Lys Val Leu Leu
 35 40

<210> 3581
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3581

Arg Leu Lys Leu Leu Cys Arg Leu Phe Arg Arg Leu Arg Arg Arg Gln

1 5 10 15

Asn Ala Asn Ile Val Asn
20

<210> 3582
<211> 60
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 3582

Ile Leu Arg Leu Trp Lys Lys Ile Phe Lys Leu Leu Lys Arg Arg Asn
1 5 10 15

Leu Gln Arg Cys Leu Lys His Cys Thr Arg Ala Arg Arg Leu Val Gly
20 25 30

Met Phe His Leu Glu Asp Ala Cys Ala Gly Lys Ala Trp Lys Lys Ala
35 40 45

Cys Ser Arg Lys Gln Asn Leu Pro Ala Tyr Ala Ala
50 55 60

<210> 3583
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 3583

Leu Leu Lys Trp Leu Lys Arg Trp Leu Lys Leu Leu Arg Lys Asn Gly
1 5 10 15

Tyr Asp Trp Trp Met Lys Ala Leu Arg Gly Pro Thr Arg Leu Ala Asn
20 25 30

Lys Arg Ser Gln Lys Lys Ala Met
35 40

<210> 3584
<211> 30
<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3584

Lys Trp Arg Met Phe Arg Arg Leu Met Arg Leu Leu Lys Thr Leu Asn
1 5 10 15

Lys Ala Arg Asp His Thr Leu Ala Met Ala Gly Ile Arg Arg
20 25 30

<210> 3585

<211> 47

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3585

Ile Phe Arg Leu Leu Arg Lys Leu Leu Lys Arg Tyr Arg Gln Leu Lys
1 5 10 15

Arg Ser Glu Gln Thr Gly Arg Arg Lys Asp Trp Phe Phe Phe Leu Ala
20 25 30

Arg Gln Leu Ala Leu Thr Asn Arg Val Val Lys Leu Asp Leu Leu
35 40 45

<210> 3586

<211> 56

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3586

Arg Tyr Arg Phe Leu Cys Lys Ile Leu Lys Leu Met Cys His Thr Glu
1 5 10 15

Gly Lys Ala Ile Arg Cys Arg Arg Ala Cys Arg Ala Ala Leu Leu His
20 25 30

Lys Val His Arg Lys Arg Ala Thr Leu Met Arg Lys Glu Lys Lys Leu
35 40 45

Ile Asp Arg Leu Cys Leu Leu Lys
 50 55

<210> 3587
 <211> 27
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3587

Met Ile Lys Phe Trp Lys Lys Tyr Leu Arg Phe Leu Lys Gln Leu Phe
 1 5 10 15

Arg Ala Asn His Leu Lys Arg Leu Arg Ala Gly
 20 25

<210> 3588
 <211> 52
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3588

Leu Ile Arg Met Met Arg Arg Leu Leu Lys Lys Leu Arg Arg Asn Pro
 1 5 10 15

Asp Met Lys Ala Gln Tyr Ala Leu Lys Arg Val Leu Lys Leu Leu Ala
 20 25 30

Ala Pro Ser His Asp Lys Asn His Ser Ala Leu Arg Leu Phe Val Arg
 35 40 45

Arg Arg Glu Cys
 50

<210> 3589
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3589

Arg Leu Arg Phe Tyr Lys Arg Trp Trp Lys Ile Leu His Lys Trp Cys
 1 5 10 15

Ala Lys Ser Met Leu Arg Arg Ala Ala Ala Asp Val
 20 25

<210> 3590
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3590

Leu Tyr Lys Ile Tyr Arg Lys Met Leu Lys Ile Ile Asn Ser Ala Trp
 1 5 10 15

Arg Arg Ile Leu Asn Leu Lys Leu Arg
 20 25

<210> 3591
 <211> 100
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3591

Lys Leu Arg Tyr Leu Arg Arg Leu Leu Lys Arg Tyr Asn Lys Asn Arg
 1 5 10 15

Cys Arg Lys Ala Leu Leu Leu Leu Arg Pro Phe His Ala Met Lys Leu
 20 25 30

Gln Asn Val Leu Arg His Tyr Ala Glu Leu Arg Ser Tyr Ala Met Phe
 35 40 45

Ala Gln Gly Ala Leu Lys Gln Gly Ala Ala Leu Glu Lys Pro Arg Pro
 50 55 60

Asn Ser Ala Lys Lys Arg Lys Phe Arg Ala Thr Ser Leu Glu Ala Pro
 65 70 75 80

His Lys Ser His Pro Ala Leu Pro Arg Arg Arg Leu Leu Arg Val Ile

85

90

95

Asp Tyr Ala Gln
100

<210> 3592
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 3592

Leu Ile Lys Leu Leu Arg Arg Leu Leu Lys Lys Phe Pro Lys Ala Glu
1 5 10 15

Ala Ile Ala Arg Ala Lys Ser Arg Gln Arg Asn Ala Trp Leu Arg Asn
20 25 30

His Cys Asp
35

<210> 3593
<211> 22
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 3593

Arg Phe Arg Met Phe Lys Lys Phe Trp Lys Leu Phe Arg Lys Thr Lys
1 5 10 15

Pro Leu Ala Leu Ala Ala
20

<210> 3594
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 3594

Tyr Trp Lys Leu Met Lys Lys Leu Ile Lys Leu Phe Arg Arg Ile Ala

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3597

Arg	Leu	Arg	Phe	Leu	Arg	Arg	Tyr	Leu	Arg	Phe	Leu	Lys	Arg	Lys	Asn
1				5				10						15	

Leu	Thr	Ala	Cys	Arg	Gln	Phe	Pro	Leu	Gln	Ser
			20					25		

<210> 3598

<211> 72

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3598

Arg	Phe	Lys	Tyr	Ile	Lys	Arg	Tyr	Leu	Lys	Leu	Trp	Arg	Thr	Thr	Arg
1				5				10						15	

Thr	Lys	Met	Arg	Lys	Glu	Gln	Ala	Val	Val	Leu	Val	Val	Arg	Lys	Tyr
			20					25					30		

Ala	Lys	Leu	Lys	Leu	Lys	Tyr	Val	Leu	Leu	Arg	Gln	Ala	Ala	Trp	Leu
		35					40					45			

Thr	Ser	Lys	Arg	Lys	Glu	Arg	Leu	Ala	Ile	Leu	Leu	Tyr	Leu	Ala	Arg
	50					55					60				

Leu	Gln	Arg	Val	Asp	Phe	Lys	Ala
65					70		

<210> 3599

<211> 60

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3599

Trp	Phe	Arg	Leu	Phe	Pro	Lys	Ile	Phe	Arg	Arg	Leu	Lys	Thr	Cys	Ala
1				5				10						15	

Ile Arg Leu Val Gln Asp Arg Ala His Asn Tyr Phe Asp Arg Asn Ile
 20 25 30

Lys Lys Ala Leu Arg Ala Ala Arg Ile Leu Asn Arg Lys Arg Leu Ala
 35 40 45

Thr Trp Thr Lys Leu Gln Lys Arg Pro Leu Ala Phe
 50 55 60

<210> 3600

<211> 55

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3600

Leu Phe Lys Phe Phe Asn Lys Tyr Phe Arg Leu Met Ser Lys Asn Ala
 1 5 10 15

Arg Arg Arg Asp Gly Leu Trp Ala Trp Arg Leu Glu Gln Arg Ala Leu
 20 25 30

Phe Ala Val Leu Ala Ala Arg Arg Lys Gln Leu Arg Ser Ala Ile Lys
 35 40 45

Ala Leu Thr His Leu Arg Lys
 50 55

<210> 3601

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3601

Tyr Leu Lys Leu Ile Arg Arg Phe Leu Lys Lys Met Arg Asn Ser Gln
 1 5 10 15

Arg Arg Arg Ala Arg Trp Ala Arg Leu Leu Ser Asn Lys Ala Phe Ala
 20 25 30

Ala

<210> 3602
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3602

Leu Tyr Lys Trp Leu Thr Arg Phe Ile Arg Leu Leu Asn Arg Arg Trp
 1 5 10 15

Lys Ala His Met Arg
 20

<210> 3603
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3603

Lys Phe Lys Ile Ile Lys Arg Leu Phe Arg Phe Leu Lys Gln Cys Ala
 1 5 10 15

Lys Leu Leu Lys Ala Gln Thr Ala Thr Cys Leu Ser
 20 25

<210> 3604
 <211> 64
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3604

Phe Ile Lys Phe Tyr Lys Arg Leu Ile Lys Met Phe Lys Arg Lys Glu
 1 5 10 15

Arg Gly Leu His Cys Pro Asn Ala Ala Leu Ala Lys Glu Ala Pro His
 20 25 30

Leu Cys Val Pro Lys Lys Asn Tyr Ala Ala His Leu Cys Lys Ser Arg

35

40

45

Phe Ala Arg Ile Lys Leu Arg Leu Leu Met Ala Arg Arg Ala Asn Leu
 50 55 60

<210> 3605

<211> 58

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3605

Arg Leu Arg Tyr Leu Lys Arg Phe Phe Arg Phe Leu His Lys Phe Leu
 1 5 10 15

Pro Val Ser Lys Lys Glu Leu Arg Leu Arg Val Arg Gln Asp Phe Ala
 20 25 30

Ala Cys Ala Ile Leu His Lys Tyr Leu Arg Cys Leu Ala Asn Arg Ala
 35 40 45

Arg Thr Pro Arg Glu Leu Arg Arg Phe Ala
 50 55

<210> 3606

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3606

Arg Ile Arg Leu Phe Thr Lys Leu Leu Lys Lys Tyr Lys Gln Phe Asp
 1 5 10 15

Phe Gly Ala Thr Ser Ile Val Lys Ala Arg Arg Lys Leu Ala Leu Ala
 20 25 30

Lys Leu Val
 35

<210> 3607

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3607

Leu Met Arg Trp Leu Lys Lys Leu Phe Arg Trp Phe His Arg Lys Tyr
1 5 10 15

Ala Leu Lys Leu Val Lys Arg Leu
20

<210> 3608

<211> 45

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3608

Phe Leu Lys Leu Leu His Arg Phe Trp Lys Lys Met Gln Gln Leu Lys
1 5 10 15

Ala Lys Glu Lys Ala Phe Met Asn Trp Cys Lys His Ala Ala Asp Ala
20 25 30

Leu Ala Ile Lys Cys Arg Met Asp Ala Arg Leu Gly Lys
35 40 45

<210> 3609

<211> 59

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3609

Leu Trp Arg Trp Leu Cys Lys Leu Phe Arg Arg Phe Lys Lys Leu Gln
1 5 10 15

Ile Val Cys Leu Ala Arg Glu Cys Lys Gln Cys Gly Gly Leu Leu Lys
20 25 30

Ala Gln Lys Ser Thr Leu Met Ala Lys Leu Arg Glu His Arg Ala Gly
35 40 45

Asp Leu Lys Leu Ala Lys Phe Leu Trp Lys Met
 50 55

<210> 3610
 <211> 39
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3610

Phe Trp Arg Leu Leu Lys Arg Phe Phe Lys Leu Phe Asn Arg Arg Leu
 1 5 10 15

Ala Arg Ile Ala Gln Ile Gln Tyr Leu Tyr His His Leu Ala Arg Pro
 20 25 30

Arg Leu Leu Leu Ala Cys Arg
 35

<210> 3611
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3611

Leu Leu Arg Leu Met Lys Lys Leu Phe Lys Phe Leu Thr Pro Arg Ala
 1 5 10 15

Arg Tyr Val Cys
 20

<210> 3612
 <211> 70
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3612

Lys Leu Arg Phe Leu Arg Arg Leu Leu Lys Lys Ile Arg Asn Ala Leu
 1 5 10 15

Ala Val Ala Asp Thr Arg Gly Arg His Gly Ala Gly Ser Lys Ala Lys
 20 25 30

Arg Ala Asn Arg Asp Leu Lys Leu Arg Pro Lys Leu Pro Thr Asp Trp
 35 40 45

Lys Asp Leu Met Arg Asn Cys Ala Arg Asn Arg Leu Ala Leu Lys Cys
 50 55 60

Lys Gly Ala Cys Asn Ala
 65 70

<210> 3613
 <211> 69
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3613

Trp Met Arg Leu Tyr Arg Lys Met Trp Arg Arg Leu Lys Cys Lys Gly
 1 5 10 15

Lys Pro Ala Ala Ala Gly Lys Phe Arg Ala Thr Lys Gly Asn Ala Arg
 20 25 30

Ala Ala Arg Lys Cys Gln Leu Leu His Cys Met Lys Leu Pro Asp Lys
 35 40 45

Ala Gly Cys Ile Arg Asp Lys Glu Tyr Val Lys Leu Arg Ala Arg Leu
 50 55 60

Met Ala Arg His Thr
 65

<210> 3614
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3614

Lys Met Arg Leu Phe Gln Arg Leu Ile Arg Leu Trp His Gln Arg Leu

<210>	3615
<211>	95
<212>	PRT
<213>	Artificial Sequence
<220>	
<223>	Computer-generated peptide variant
<400>	3615

Arg Gln Arg Arg Met Pro Leu Thr Arg Ala Leu Leu Trp Phe Lys Met
20 25 30

Ala Ile Gln Arg Trp His Lys Leu His Asn Lys Ser Asn Asp Leu Asn
35 40 45

Ala Asn Lys Gly Leu Leu Ala Asp Ala Cys Lys Asn Arg Leu Leu Leu
50 55 60

Ile His Val His Lys Arg Arg Lys Thr His Phe Leu Leu Lys Leu Asp
65 70 75 80

Ala Tyr Leu Ala Ala Ser Tyr Ala Met Cys Ala Ala Asp Ala Phe
85 90 95

<210>	3616
<211>	30
<212>	PRT
<213>	Artificial Sequence
<220>	
<223>	Computer-generated peptide variant
<400>	3616

Arg Leu Arg Phe Phe Arg Lys Leu Leu Lys Leu Ile Thr Arg Tyr Glu
1 5 10 15

Arg Lys Ala Asp Ala Ala His Glu Met Ala Phe Lys Ile Lys
 20 25 30

<210> 3617
 <211> 45
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3617

Arg Leu Lys Leu Ile Arg Lys Ile Tyr Lys Leu Ile Lys Lys Lys Cys
 1 5 10 15

Phe Lys Ser Lys Leu Gln Leu Ala Arg Leu Arg Leu Pro Arg His Leu
 20 25 30

Leu Leu Gly Ala Leu Lys Glu Met Leu Ile Arg Met Arg
 35 40 45

<210> 3618
 <211> 61
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3618

Phe Leu Arg Leu Leu Gln Lys Ile Ile Arg Leu Leu Cys Lys Ile Asn
 1 5 10 15

Leu Ala Lys Leu Arg Gln Phe Lys Ala Phe Ile Val Tyr Tyr Glu Arg
 20 25 30

Arg Ala Glu Ala Arg Arg Leu Asn Glu Met Met Lys His Arg Lys Leu
 35 40 45

Val Ala Gly Ala Leu Arg Cys Cys Phe Ala Pro Arg Lys
 50 55 60

<210> 3619
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3619

Arg	Leu	Arg	Leu	Met	Lys	Lys	Leu	Met	Lys	Leu	Met	Arg	Asn	His	Lys
1				5					10					15	

His	Phe	Val	Leu	Arg	His	Leu	Ala
			20				

<210> 3620

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3620

Phe	Leu	Lys	Leu	Leu	Arg	Lys	Met	Leu	Lys	Lys	Tyr	Cys	Asn	Gly	Ser
1				5					10					15	

Glu	Lys	Lys	Leu	Ala	Ser
			20		

<210> 3621

<211> 47

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3621

Lys	Trp	Arg	Phe	Met	Arg	Arg	Ile	Tyr	Lys	Lys	Met	Arg	Lys	Ala	Leu
1				5					10					15	

Gly	Lys	Arg	Arg	Lys	Leu	Lys	Ala	Lys	Ala	Ala	Leu	Cys	Arg	Leu	Arg
			20				25						30		

Ala	Phe	Met	Val	Cys	Lys	Ala	Ala	Leu	Ala	Leu	Tyr	Glu	Lys	Ser
		35					40					45		

<210> 3622

<211> 85

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3622

Ile	Phe	Lys	Leu	Leu	Pro	Lys	Leu	Met	Arg	Arg	Leu	Asn	Ser	Pro	Ala
1				5					10					15	

Leu	His	Arg	Ala	Arg	Glu	Ala	Trp	Leu	Asn	Ala	His	Asp	Lys	Ala	Arg
			20					25					30		

Ser	Asp	Arg	Arg	Met	Phe	Leu	Lys	Ala	Tyr	Thr	Trp	Asp	Phe	Tyr	Arg
		35					40					45			

Phe	Pro	Ala	Ala	Phe	Ala	Leu	Leu	Tyr	Lys	Arg	Lys	Ala	Lys	Arg	Arg
	50					55					60				

Asn	Gly	Val	Cys	Leu	Leu	His	Ala	Phe	Arg	Ala	Arg	Arg	Ala	Phe	Thr
65						70			75						80

Met	Lys	Gln	Tyr	Arg
				85

<210> 3623

<211> 41

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3623

Leu	Leu	Arg	Tyr	Phe	Lys	Lys	Met	Tyr	Lys	Arg	Trp	Lys	Thr	Arg	Lys
1				5					10					15	

Gly	Gln	Ala	Asn	Pro	Leu	Leu	Arg	Gly	Leu	Ala	Val	Trp	Lys	Ala	Arg
			20					25					30		

Ala	Ile	Ile	Leu	Ile	Met	Arg	Arg	Gly
			35				40	

<210> 3624

<211> 43

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3624

Arg Ile Arg Trp Leu Arg Arg Tyr Leu Lys Phe Tyr Pro Thr Arg Ala
1 5 10 15

Leu Ala Leu Ala Leu Asn Lys Lys Arg Arg Trp Gly Arg Leu Tyr Asp
20 25 30

Ala Arg Phe Ile Ala Arg Leu Ala Met Leu Asn
35 40

<210> 3625

<211> 73

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3625

Leu Leu Arg Leu Ile Gln Arg Leu Leu Arg Lys Trp Cys Arg Phe Asn
1 5 10 15

Val Ala Asn Asn Phe Ala Ser Lys Trp Arg Leu Met Ser Ala Gln Arg
20 25 30

Val Leu Ala Ala Asp Arg Asn Lys Lys Leu His Phe Trp Ser Leu Tyr
35 40 45

Lys Lys Arg Arg Arg Leu Leu His Leu Val Val Arg Leu Pro Gly Lys
50 55 60

His Ala Ala Arg Ala Lys Glu Val Met
65 70

<210> 3626

<211> 67

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3626

Lys Leu Arg Ile Ile Lys Lys Ile Leu Lys Arg Leu Thr Lys Ala Ser
1 5 10 15

Gln Lys Arg Leu Pro Ala Leu Asn Asp Arg Arg Leu Gln Leu Lys Arg
 20 25 30

Leu Leu Leu Met Gly Ala Cys Ser Ile Arg Trp Asp Glu Leu Leu Leu
 35 40 45

Asn Arg Arg Glu Lys Ser Ala His Asp Tyr His Leu Ala His His Glu
 50 55 60

Ala Ala Lys
 65

<210> 3627
 <211> 43
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3627

Lys Leu Lys Leu Met Lys Arg Tyr Trp Lys Leu Leu Arg Arg Ala Ala
 1 5 10 15

Ala Ala Gln Lys Tyr Asn Val Gly Cys Leu Phe Asn Ala Cys Ile Leu
 20 25 30

Ser Arg Lys Gln Lys Arg Lys Glu Lys Trp Asp
 35 40

<210> 3628
 <211> 61
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3628

Lys Tyr Arg Met Phe Arg Lys Met Phe Lys Lys Phe Arg Asn Leu Ala
 1 5 10 15

Lys Thr Ala Lys Ala Leu Arg Lys Arg Leu Trp Arg Gly Ala Arg Gly
 20 25 30

Cys Gln Gln Leu Lys Tyr Leu Asn Asn Ala Ala Lys Ala Glu Trp Lys

35

40

45

Lys Gly Gly Tyr Leu Ala Ala Glu Glu Thr Val Arg Leu
 50 55 60

<210> 3629

<211> 53

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3629

Tyr Tyr Lys Leu Leu Cys Lys Leu Met Arg Arg Leu Lys Arg Tyr Arg
 1 5 10 15

Val Lys Leu Trp Arg Arg Gln Ala Lys Ala Ala Arg Lys Asp Met Ala
 20 25 30

Arg Ile Arg Ser Ala Ala Leu Ala Ala Ala Leu Lys Ile Leu Arg Glu
 35 40 45

Lys Leu Ile Glu Thr
 50

<210> 3630

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3630

Leu Leu Arg Met Phe His Lys Ile Ile Lys Ile Leu His Cys Arg Gln
 1 5 10 15

Arg Leu Ala Ala
 20

<210> 3631

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3631

Trp Phe Lys Ile Met Thr Lys Leu Leu Lys Arg Leu Lys Pro Lys His
1 5 10 15

Val Ala Ala Gln
20

<210> 3632

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3632

Phe Trp Lys Tyr Leu Lys Lys Ile Leu Arg Lys Leu Thr Arg Ala Trp
1 5 10 15

Arg Leu Tyr Thr Cys Arg Leu Ala
20

<210> 3633

<211> 51

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3633

Tyr Phe Arg Trp Met Lys Arg Leu Ile Lys Leu Leu Arg Arg Ala Arg
1 5 10 15

His Lys Arg Asp Lys Lys His Met Ser Asn Lys Ser Ala Met Phe Leu
20 25 30

Arg Ala His Ala Arg Leu Lys Cys Thr Tyr Lys Arg Leu Ile Phe Met
35 40 45

Leu Gln Ala
50

<210> 3634

<211> 81

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3634

Arg Trp Arg Ile Leu Arg Arg Trp Met Arg Lys Met His His Ser Leu
1 5 10 15

Lys Tyr His Arg Leu Lys Ala Val Ala Ala Asp Lys Asn Gly Ile Ala
20 25 30

Ala Thr Lys Leu Thr Ala Gly Ser Arg Ala His Lys Lys Val Thr Ala
35 40 45

Arg Trp Pro Arg Leu Lys Cys Arg Leu Asn Arg Lys Arg Leu Ile Leu
50 55 60

Leu Leu Ala Leu Lys Ala Ala Ser Leu Glu Ala Ala Leu Ala Asp Ala
65 70 75 80

Thr

<210> 3635

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3635

Arg Leu Arg Ile Met Arg Lys Tyr Tyr Arg Lys Met Pro Asn Gln Arg
1 5 10 15

Leu Ser Ala Ala Ala Phe Arg Ala Ala Ala Met Ile Thr Trp Arg Leu
20 25 30

Arg

<210> 3636

<211> 42

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3636

Arg Met Arg Leu Leu Asn Lys Tyr Leu Arg Leu Trp Lys Lys Arg Gln
 1 5 10 15

Leu Asp Lys Leu Ser Arg Lys Val Leu Leu Met Glu Tyr Lys Leu Leu
 20 25 30

Glu Ile Ala Tyr Lys Ile Arg Ala Tyr Ala
 35 40

<210> 3637

<211> 52

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3637

Lys Phe Arg Ile Leu Cys Arg Trp Leu Lys Lys Leu Arg His Ala Asn
 1 5 10 15

Phe Lys Ala Val Cys Lys Arg Lys Ala Ala Cys His Leu Leu Leu Ala
 20 25 30

Lys Tyr Asp Leu Ala Ala Ala Arg Arg Lys Arg Ala Lys His Lys His
 35 40 45

Leu Val Asn Lys
 50

<210> 3638

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3638

Arg Phe Arg Trp Leu Cys Arg Phe Met Lys Phe Phe Asn Ser Ala Ala
 1 5 10 15

Ala Gln Arg Phe Ala Ala Ala Ala Lys Leu Lys

20

25

<210> 3639
 <211> 38
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3639

Leu Trp Arg Ile Ile Arg Arg Phe Ile Lys Arg Phe Arg His Lys Lys
 1 5 10 15

Glu Arg Ser Leu Pro Arg Pro Cys Ser Ala Lys Leu Leu Glu Val Gly
 20 25 30

Ala Pro Lys Leu Ala Leu
 35

<210> 3640
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3640

Lys Trp Arg Leu Leu Lys Arg Leu Leu Arg Lys Phe Gln Ser Asn Arg
 1 5 10 15

Gln Lys Asn Leu Ala Cys Gly Lys Met Ser Cys His Gly Lys Leu Leu
 20 25 30

<210> 3641
 <211> 45
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3641

Phe Leu Arg Met Tyr Arg Arg Phe Trp Arg Lys Leu Arg Arg Lys Leu
 1 5 10 15

Ala Leu Ser Glu Lys Thr Gln Pro Leu Arg Ile Tyr Glu Ser Ala Cys

20

25

30

Lys Asp Ala Asp Ala His Ser Trp Leu Ala Lys Ala Leu
 35 40 45

<210> 3642

<211> 70

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3642

Arg Tyr Lys Leu Ile Lys Lys Leu Leu Arg Lys Ile Arg Pro Leu Thr
 1 5 10 15

Lys Arg Leu Leu Lys Arg His Met Gly Trp Ile Ala Leu Thr Ala Arg
 20 25 30

Ser Ala Leu Met Ala Ile Asp Asn Arg Arg Pro Gly Ala Leu Gln Leu
 35 40 45

Ala Tyr Pro Lys Leu Lys Gln Met Arg Ala Arg Gly Pro Leu Asp Lys
 50 55 60

Trp Pro Lys Ala Tyr Tyr
 65 70

<210> 3643

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3643

Ile Leu Arg Leu Leu Lys Lys Trp Tyr Lys Trp Leu Arg Lys Asp Glu
 1 5 10 15

Pro Tyr Leu Ala Leu Lys Arg Lys Asp Tyr Arg Ala Val Lys Lys Ser
 20 25 30

Ala Ile Leu
 35

<210> 3644
 <211> 59
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3644

Lys Trp Arg Phe Ile Gln Arg Tyr Phe Lys Leu Phe His Lys Leu Ala
 1 5 10 15

Gln Gln Trp Pro Arg Cys Leu Ala Asn Leu Met Thr Lys Leu Ile Leu
 20 25 30

Leu Leu Met Tyr Lys Ala Tyr Lys Ala Leu Arg Leu Arg Lys Arg Asp
 35 40 45

Pro Pro Tyr Arg Ala Arg Ala Met Lys Lys Glu
 50 55

<210> 3645
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3645

Lys Tyr Arg Tyr Trp Gln Lys Phe Phe Lys Tyr Leu Lys Lys Pro Lys
 1 5 10 15

Pro Ala Leu Ala Ile Leu Lys Ala Leu Lys Ile Arg Leu Gln Arg Asp
 20 25 30

Gly Phe

<210> 3646
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3646

Tyr Ile Lys Tyr Leu Arg Lys Trp Ile Lys Met Leu Ser Asn Leu Arg
 1 5 10 15

Lys Leu Leu Phe Arg
 20

<210> 3647
 <211> 27
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3647

Met Tyr Lys Phe Tyr Lys Lys Phe Leu Arg Leu Leu Arg Lys Leu Thr
 1 5 10 15

Ile His Ala Lys Asp Ser Arg Gln Lys Ala Leu
 20 25

<210> 3648
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3648

Arg Met Arg Phe Trp Arg Arg Ile Tyr Arg Arg Ile Asn Pro Arg Ala
 1 5 10 15

Tyr Asn Pro Lys Ala Ala Leu Leu Leu Lys Ala Lys Leu Phe Asp Phe
 20 25 30

Arg Trp Thr Ala
 35

<210> 3649
 <211> 37
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3649

Leu Ile Arg Phe Phe Lys Arg Trp Leu Arg Phe Phe Lys Arg Arg Asp
 1 5 10 15

Leu Trp Leu Ala Leu Leu Ile Arg Gly Cys Met Thr Lys Gln Leu Asp
 20 25 30

Ala Asp Arg Lys Ala
 35

<210> 3650
 <211> 75
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3650

Lys Phe Arg Trp Ile Lys Arg Met Met Lys Arg Leu His Lys His Leu
 1 5 10 15

Leu Ser Ala Ala Lys Ala Leu Ala Arg Met His Asp Ile Ala Val Ala
 20 25 30

Trp Thr Leu Lys Lys Gln Ala Lys Arg Phe Ile Lys Ser Ala Leu Ala
 35 40 45

Leu Glu Gly His Asp Lys Val Ala Ala Ala Lys Thr Lys Leu Arg Tyr
 50 55 60

Phe Met Lys Lys Asn Lys Ser Pro Arg Cys Ala
 65 70 75

<210> 3651
 <211> 37
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3651

Arg Leu Arg Ile Phe Arg Lys Ile Phe Lys Lys Ile Arg Asn Leu Cys
 1 5 10 15

Gln Arg Lys His Ala Met Leu Leu Glu Lys Gly Ala Asn Lys Cys Ala

20

25

30

Phe Leu Glu Leu Lys
35

<210> 3652
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 3652

Lys Leu Lys Leu Leu Ser Lys Phe Leu Arg Ile Tyr Cys Pro Gly Leu
1 5 10 15

Asn Lys Arg Lys
20

<210> 3653
<211> 69
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 3653

Trp Tyr Lys Phe Met Arg Arg Leu Ile Arg Arg Phe Lys Arg Arg Arg
1 5 10 15

Gln Ala Lys Cys Trp Lys Ile Met Ile Lys Ala Thr Leu Val Ala Ala
20 25 30

Lys Arg Lys Met Thr Phe Trp Arg Pro Leu Ala Leu Arg Ala Lys Tyr
35 40 45

Ala Arg Arg Asn Cys Leu Glu Leu Leu Ser Phe Ala Leu Pro Pro Glu
50 55 60

Ser His Leu Arg Lys
65

<210> 3654
<211> 22
<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3654

Lys Phe Arg Ile Ile Lys Lys Leu Trp Lys Phe Leu Arg Lys Gln Leu
1 5 10 15

Leu Lys Ala Ala Phe Thr
20

<210> 3655

<211> 70

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3655

Lys Phe Lys Met Leu Arg Lys Leu Leu Arg Phe Trp Lys Ser Trp Lys
1 5 10 15

Lys Lys Phe Trp Pro Ala Trp Leu Ala Ile Ser Phe Lys Tyr Ala Ala
20 25 30

Asp Lys Lys Lys Asn Cys Ala Ala Thr Asp Tyr Cys Arg Arg Gly Leu
35 40 45

Val Arg Arg Lys Leu Leu His Arg Leu Ala Gly Leu Lys Leu Ala Arg
50 55 60

Val Arg Ala Ser Gln Leu
65 70

<210> 3656

<211> 64

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3656

Leu Tyr Lys Tyr Trp Arg Lys Leu Leu Lys Leu Phe Pro Lys Ala Trp
1 5 10 15

Pro Arg Ala Ala Ala Gln Arg Ser Val Lys Ile Arg Ser Arg Ala Arg
 20 25 30

Leu Ser Gly Pro Lys Ala Arg Leu Ala Met Ser Leu Val Leu Ala Lys
 35 40 45

Cys Asn His Lys His Lys Trp Asn Leu Ile Arg Leu Arg Lys Ile Lys
 50 55 60

<210> 3657
 <211> 80
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3657

Leu Leu Arg Leu Leu Lys Lys Ile Trp Lys Tyr Leu Ser Asn Asn Lys
 1 5 10 15

Met Ala Leu Trp Ser Ala Gln Pro Tyr Ala Ala Arg Thr Leu Gln Val
 20 25 30

Leu Arg Val Arg Pro Cys Lys Lys Ala Met Cys Ala Arg Ser Arg Met
 35 40 45

Lys Glu Ala Arg Ile Cys Arg His Arg Leu Lys Arg Leu Phe Asn Arg
 50 55 60

Phe Thr Trp Ala Leu Ala Leu Pro Lys Arg Gly Leu Arg Asp Leu Arg
 65 70 75 80

<210> 3658
 <211> 53
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3658

Lys Ile Lys Leu Met Gln Arg Leu Ile Arg Lys Phe Lys Arg Lys Leu
 1 5 10 15

Asp Ala Ser Leu Lys Trp Trp Arg Leu Glu Arg Leu Ala Asn Ala Ala

25

30

Met Phe Lys Arg Ser Lys Leu His Lys Met Trp Ala Pro Leu Tyr Leu
35 40 45

Arg Lys Thr Gln Trp
50

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<210> 3659
<211> 60
<212> PRT
<213> Artificial Sequence
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<220>
<223> Computer-generated peptide variant

<400> 3659

Lys Phe Arg Trp Phe Pro Lys Trp Trp Arg Arg Met Lys Cys Gln Asn
1 5 10 15

Lys Ala Arg Lys Leu Lys Leu Glu Arg Glu Phe Met Arg Leu Leu Gly
20 25 30

Thr Glu Arg His Ser Leu Asp Arg Leu Lys Arg Leu Ala Ala Leu Glu
35 40 45

Ala Lys Ala Val Leu Thr Arg Asp Arg His Cys Asn
50 55 60

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<210> 3660
<211> 57
<212> PRT
<213> Artificial Sequence
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<220>
<223> Computer-generated peptide variant

<400> 3660

Phe Tyr Lys Met Leu Lys Arg Leu Phe Lys Phe Phe Asn Cys Ala Ile
1 5 10 15

Pro Ile Ile Arg Met Arg Ser Val Arg Tyr Leu Ala Asp Ala Ala Ala
20 25 30

Leu Lys Gly Ala Ala Leu Ala Ala Asn Gly Arg Lys Ala Lys Lys Leu
35 40 45

Glu Leu Asp Tyr Lys Lys Asp Ala Lys
 50 55

<210> 3661
 <211> 37
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3661

Arg Phe Lys Met Trp Thr Arg Phe Leu Arg Arg Trp Lys Arg Ala Ala
 1 5 10 15

Leu Pro Lys Lys Leu Leu Trp Leu Phe Arg Tyr Ala Gly Ala Arg Leu
 20 25 30

Asn Ala Asn Met Arg
 35

<210> 3662
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3662

Arg Trp Arg Tyr Leu Gln Arg Tyr Phe Arg Leu Phe Lys Lys Phe Met
 1 5 10 15

Gln Trp Ala Asn Ala Leu Lys Lys Lys Trp Gln Arg Lys Phe Leu Arg
 20 25 30

Lys Gln Leu Leu Leu Pro Phe Val
 35 40

<210> 3663
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3663

Lys Trp Lys Leu Met Arg Lys Met Tyr Lys Arg Ile His Pro Leu Trp
 1 5 10 15

Leu Ala Gly Lys Ala Leu His Phe Arg Leu Ala Pro
 20 25

<210> 3664
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3664

Arg Leu Arg Tyr Leu Asn Lys Trp Ile Arg Arg Ile Arg Arg Leu Leu
 1 5 10 15

Ala Met Lys Arg Ala Ala Leu Gly Lys Tyr Ala Thr Asn Arg Arg Leu
 20 25 30

Glu

<210> 3665
 <211> 50
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3665

Lys Phe Arg Tyr Leu Lys Lys Leu Leu Lys Lys Ile Arg Pro Leu Arg
 1 5 10 15

Leu Arg Ala Ala Ala Asn Lys Gly Thr Phe Phe Met Ala Arg Arg Ser
 20 25 30

Leu Ala Gln Ser Ala His Ala Ser Lys Pro His Trp Ala Leu Ala Trp
 35 40 45

Glu Leu
 50

<210> 3666

<211> 55
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3666

Leu Leu Arg Phe Leu Pro Arg Met Trp Lys Trp Met Arg Gln Ala Val
 1 5 10 15

Arg Gln Ala Ala Thr Lys Arg Met Lys Leu Leu Ala Arg Thr Ala Ala
 20 25 30

Leu Ala Arg Arg Asp Cys Pro Arg Arg Trp Lys Gly Glu Arg Phe Glu
 35 40 45

Ser Lys Arg Tyr Ala Ala Ile
 50 55

<210> 3667
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3667

Leu Leu Arg Tyr Phe Thr Arg Leu Leu Arg Lys Leu Gln Lys Lys Glu
 1 5 10 15

Arg Ser His Ile Cys Ala Ser Gln Ala Ala Pro Lys
 20 25

<210> 3668
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3668

Arg Phe Arg Leu Leu Gln Lys Leu Met Arg Leu Phe Arg Arg Lys Lys
 1 5 10 15

Ala Pro Pro Leu Lys Gly Gly Leu Asn Thr Lys Glu Ala Val Leu Arg

20

25

30

Ile Arg Asn Ala Glu Leu Glu Cys
 35 40

<210> 3669

<211> 45

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3669

Leu Trp Arg Phe Ile Arg Lys Leu Phe Arg Ile Leu Lys Pro Met Arg
 1 5 10 15

Arg Leu Ser Ala Arg Arg Glu Lys Phe Leu His Asn Ala Leu Tyr Ile
 20 25 30

Phe Arg Ser Arg Gly Met Ala Trp Tyr Leu Arg Ala Lys
 35 40 45

<210> 3670

<211> 63

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3670

Arg Leu Lys Phe Leu His Lys Ile Trp Arg Lys Leu Gln Arg His Met
 1 5 10 15

Arg Ala Gln Arg Ala Lys His Leu Arg Met Pro Ala Lys Gly His Leu
 20 25 30

Lys Lys Gly Ser Leu Gly Asn Leu Arg Pro Ala Arg Pro Leu Met Ala
 35 40 45

His Leu Ser Lys Arg Arg Phe His Asp Tyr Met Lys Ala Pro Arg
 50 55 60

<210> 3671

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3671

Arg	Tyr	Lys	Phe	Phe	Gln	Lys	Ile	Leu	Arg	Leu	Leu	Asn	Lys	Ile	Gly
1				5				10						15	

Glu	Ala	Ala	Tyr	Ala	Asn	Ile	Tyr	Asp	Arg	Lys	Ala	Met	Arg	Ala	Leu
			20				25					30			

Arg	Ala	Lys	Cys
			35

<210> 3672

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3672

Leu	Trp	Lys	Leu	Phe	Arg	Arg	Trp	Trp	Arg	Trp	Leu	Lys	Thr	Ser	Lys
1				5				10						15	

Ala	Ala	Tyr	Leu	Phe	Lys	Asp	Arg	Ala
			20				25	

<210> 3673

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3673

Lys	Leu	Arg	Leu	Leu	His	Lys	Tyr	Leu	Lys	Arg	Phe	Ser	Thr	Lys	Glu
1				5				10						15	

Arg	Ala	Asn	Glu	Gln	Asn	Lys	Ala	Arg	Phe	Leu
			20				25			

<210> 3674

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3674

Trp Phe Arg Tyr Phe Arg Arg Leu Leu Arg Lys Leu Lys Arg Asn Met
1 5 10 15

Arg Val Ala Ala Thr Ala Leu Ser Phe
20 25

<210> 3675

<211> 55

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3675

Leu Phe Lys Ile Met Arg Arg Ile Met Arg Lys Tyr Arg Pro Arg Leu
1 5 10 15

Lys Tyr Val Leu Glu Glu Ala Trp Leu Leu Trp Cys Lys Gln Glu Lys
20 25 30

His Arg Trp Leu Gly Met Leu Leu Ala Leu Met Phe Lys Arg Arg Arg
35 40 45

Pro Arg Ala Arg Arg Ala Gln
50 55

<210> 3676

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3676

Arg Tyr Lys Met Leu Ser Lys Ile Leu Arg Lys Trp Thr Lys Leu Phe
1 5 10 15

Ala Glu Ala Trp Arg Leu Arg Met Phe Arg Glu Leu Leu Ala
20 25 30

<210> 3677
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3677

Lys Leu Lys Leu Met Lys Lys Tyr Phe Lys Leu Leu Cys Gln Gln Ile
 1 5 10 15

Ala Arg Thr Tyr Ser Ala Leu
 20

<210> 3678
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3678

Lys Leu Lys Phe Trp Cys Arg Leu Tyr Lys Met Tyr Arg Arg Ala Arg
 1 5 10 15

Pro Trp Leu Lys Ala Ala
 20

<210> 3679
 <211> 45
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3679

Lys Leu Lys Ile Leu Lys Arg Leu Leu Arg Lys Tyr Ser Ser Ala Ala
 1 5 10 15

Trp Ala Gln Phe Arg Asn Ala Asn Asn Ala Lys Gln Leu Lys His Asp
 20 25 30

Arg Ser Pro Ala Leu Ser Tyr Lys Cys Gly Arg Met Arg
 35 40 45

<210> 3680
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3680

Lys Leu Arg Tyr Ile Arg Arg Phe Leu Lys Leu Phe Arg Lys Ile Ala
 1 5 10 15

Ala Pro Val Ala Lys Ile Cys Asn Lys Ala Arg Cys Met Ala
 20 25 30

<210> 3681
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3681

Arg Ile Lys Leu Trp Arg Arg Phe Leu Arg Phe Leu Thr Lys Tyr Leu
 1 5 10 15

Cys Lys Lys Leu Ala Ala Leu Ala
 20

<210> 3682
 <211> 45
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3682

Lys Phe Lys Leu Trp Arg Lys Leu Leu Lys Phe Trp Pro Thr Val Asp
 1 5 10 15

Arg Leu Ala Arg His Lys His Ala Phe Leu Glu Arg Gly Lys Phe Phe
 20 25 30

Tyr Ser Ile Asp Arg Arg Met Leu Leu Arg Leu Leu Arg
 35 40 45

<210> 3683
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3683

Lys Leu Lys Phe Phe His Arg Leu Leu Arg Arg Leu Arg Cys Ile Ala
 1 5 10 15

Asp Lys Phe Trp Ala Thr Val Leu Pro
 20 25

<210> 3684
 <211> 27
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3684

Ile Leu Arg Tyr Phe Arg Lys Leu Leu Arg Ile Phe Lys Lys Met Pro
 1 5 10 15

Ala Leu Ser Glu Arg His Tyr Leu Leu Glu Lys
 20 25

<210> 3685
 <211> 64
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3685

Met Leu Lys Trp Tyr Asn Arg Leu Met Arg Leu Met His Arg Leu Arg
 1 5 10 15

Ala Lys Ala His Ala Arg Lys Met Val Lys Arg Arg Ala Met His Glu
 20 25 30

Arg Lys Leu Lys Trp Lys Ala Lys Pro Asp Trp Ala Ser Arg Ala Asp
 35 40 45

Lys Phe Gly Leu Ala Ala Cys Lys Lys Tyr Thr Leu Ile Val Lys Ser
 50 55 60

<210> 3686
 <211> 38
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3686

Lys Ile Lys Leu Tyr Thr Lys Phe Phe Lys Ile Leu Arg Arg Met Leu
 1 5 10 15

Phe Leu Leu Glu Lys Ser Thr Thr Lys Met Ala Lys Lys Leu Ala Tyr
 20 25 30

Ala Asn Ser Leu Ala Arg
 35

<210> 3687
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3687

Leu Trp Arg Met Leu Lys Arg Leu Phe Lys Lys Phe Lys Lys Met Ala
 1 5 10 15

Asn Ala Gln Ala Leu Arg Ser Lys Leu Arg His Ser Phe
 20 25

<210> 3688
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3688

Arg Phe Arg Trp Leu Arg Lys Phe Phe Arg Arg Leu Asn Arg Leu Ala
 1 5 10 15

Met Arg Arg Leu Ala Ala
20

<210> 3689
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 3689

Arg Phe Arg Ile Leu Arg Lys Met Tyr Arg Ile Leu Ser Lys Leu Leu
1 5 10 15

Thr Lys Leu Thr Gly Asp Arg Leu Cys Gly Leu Ile Arg Lys
20 25 30

<210> 3690
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 3690

Ile Leu Arg Leu Phe Asn Arg Leu Phe Lys Leu Trp Lys Asn Arg Arg
1 5 10 15

Ala Arg Leu Asp Leu Leu His Ser Cys Gln Trp
20 25

<210> 3691
<211> 63
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 3691

Lys Ile Arg Trp Ile Pro Lys Leu Ile Lys Tyr Leu Cys Lys Ala Gln
1 5 10 15

Lys Asp Lys Arg Thr Gly Ile Leu Lys Arg Ala Glu Gly Arg Ser Arg
20 25 30

His Val Cys Asp Ala Leu Leu Gln Lys Arg Gly Met Ala Lys Gln Ala
 35 40 45

Lys Leu Ala Ala Leu Trp Trp Ala Arg Ala Lys Pro Ile Glu Lys
 50 55 60

<210> 3692

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3692

Arg Ile Arg Leu Leu Arg Arg Phe Met Arg Lys Leu Thr Arg Ala Val
 1 5 10 15

Arg Leu Ala Thr Thr Leu Arg Ala Asn
 20 25

<210> 3693

<211> 42

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3693

Tyr Met Lys Leu Tyr Arg Arg Leu Ile Lys Arg Ile Gln Lys Glu Arg
 1 5 10 15

Gln Leu Arg Leu Met His Gln Gly Ala Lys Arg Asn Ala Leu Ser Ala
 20 25 30

Lys Ala Gln Gly Ala Leu Arg Lys Trp Glu
 35 40

<210> 3694

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3694

Lys Leu Lys Met Leu Lys Lys Leu Leu Lys Tyr Phe Thr Thr Leu Ile
 1 5 10 15

Tyr Lys Arg Arg Thr Ala Ala Tyr Asn Met Ala Ala Asn His Glu Leu
 20 25 30

Leu Trp

<210> 3695
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3695

Lys Leu Arg Ile Leu Ser Arg Leu Ile Arg Arg Trp Thr Gln Lys Tyr
 1 5 10 15

Arg Val Ala Gln Ala Leu Ser Ala Phe Ala Trp Phe Ala
 20 25

<210> 3696
 <211> 60
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3696

Leu Phe Arg Trp Phe Lys Lys Met Leu Arg Arg Trp Arg Arg Val Leu
 1 5 10 15

Ile Ala Arg Ala Pro Ala Leu Ser Gly Arg Arg Tyr Phe Arg Pro Met
 20 25 30

Lys Lys Arg His Thr Gln Ala Met His Lys Arg Leu Leu Gln Asn Lys
 35 40 45

Glu Lys Leu Ala Ala Ser Ala Asn Trp Asp Leu Arg
 50 55 60

<210> 3697

<211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3697

Phe Tyr Lys Phe Leu Asn Lys Leu Leu Lys Leu Leu Arg Arg Lys Ala
 1 5 10 15

Lys Gly Tyr Thr Gly Ala Thr Gln Ala Trp Lys Ala Ser Ala Trp Ala
 20 25 30

Ser Ile Leu Lys
 35

<210> 3698
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3698

Lys Leu Arg Leu Phe Asn Arg Phe Phe Arg Tyr Leu Asn Arg Leu Ala
 1 5 10 15

Arg Arg Leu Asn Lys
 20

<210> 3699
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3699

Lys Ile Lys Phe Leu Lys Lys Leu Phe Arg Phe Ile Lys Ser Phe Arg
 1 5 10 15

Leu Phe Tyr Glu Ala Arg Lys Met His Ala Ala Ala
 20 25

<210> 3700

<211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3700

Phe Leu Arg Phe Met Arg Arg Leu Ile Arg Arg Tyr Lys Ser Ala Arg
 1 5 10 15

Leu Ala Leu Ser Thr Arg Tyr Leu Ala Glu Thr His Val Lys
 20 25 30

<210> 3701
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3701

Ile Leu Lys Tyr Phe His Lys Phe Ile Lys Lys Leu Lys Lys Trp Ala
 1 5 10 15

Leu Ala Leu Arg Lys Lys Phe Arg Ala Gln Leu Ala Leu Gln
 20 25 30

<210> 3702
 <211> 38
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3702

Arg Leu Arg Phe Leu Pro Arg Leu Leu Lys Arg Met Thr Lys Ser Trp
 1 5 10 15

Cys Pro Ala Arg Arg Leu Thr Arg Thr Ala His Ala Thr Glu Leu Ala
 20 25 30

Leu Ala Leu Asp Arg Pro
 35

<210> 3703

<211> 70
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3703

Arg Ile Lys Leu Leu Arg Lys Leu Phe Lys Lys Phe Asn Thr Arg Leu
 1 5 10 15

Arg Leu Trp Leu Gln Cys Arg Lys Ser Leu Ala Lys Lys Leu Ser Trp
 20 25 30

Leu Arg Cys Ala Lys Val Lys Arg Gln Ala Arg Leu Phe Ala Leu Pro
 35 40 45

Cys Val Tyr Asp Lys Glu Ser Arg Glu Glu Ile Met Pro Leu Ala Met
 50 55 60

Ala Val Lys Tyr Gly Lys
 65 70

<210> 3704
 <211> 75
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3704

Lys Ile Arg Met Tyr Arg Lys Phe Leu Arg Lys Tyr Arg Pro Tyr Val
 1 5 10 15

Ile Ala Ala Arg Phe Tyr Ala Ala Leu Tyr Ile Leu Leu Ser Leu Arg
 20 25 30

Asp Leu Thr Ala Leu Ala Leu Arg Ala Met Leu Thr Ala Thr Lys Glu
 35 40 45

Asn Arg Trp Arg Arg Ala Leu Leu Phe Asp Tyr Arg Ile Tyr Phe Phe
 50 55 60

Leu Lys Pro Glu Ala Lys Leu Leu Arg Leu Arg
 65 70 75

<210> 3705
 <211> 61
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3705

Tyr Phe Lys Trp Leu Gln Lys Tyr Tyr Lys Lys Leu Cys Lys Arg Leu
 1 5 10 15

Leu Leu Ala Ala Lys Trp Leu Lys Asp Asp His Ala Ala Leu His Gly
 20 25 30

Arg Arg Lys Leu Lys Arg Lys Trp Tyr Trp Ile Leu His Glu Leu Ala
 35 40 45

Tyr Leu Arg Met Lys Arg Thr Ile Leu Gly Ala Arg Ile
 50 55 60

<210> 3706
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3706

Arg Leu Lys Leu Leu Lys Lys Ile Leu Lys Lys Phe Arg Gln Cys Val
 1 5 10 15

Leu Ala Ile Pro Asp Leu Arg Lys Gln Trp Phe Ile Arg Cys Ala Thr
 20 25 30

Gly Lys

<210> 3707
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3707

Leu Leu Arg Ile Ile Asn Arg Leu Trp Arg Arg Leu Arg Gln Ala Arg
 1 5 10 15

Thr Ala Trp Phe Pro
 20

<210> 3708
 <211> 38
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3708

Leu Leu Arg Phe Trp Gln Lys Leu Ile Arg Arg Leu Lys Lys Ser Ala
 1 5 10 15

Glu Gln Lys Leu Cys Tyr Asn Ala Trp Arg Cys Ala Leu Leu Phe Thr
 20 25 30

Lys Glu Lys Ser Lys Asn
 35

<210> 3709
 <211> 78
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3709

Phe Leu Arg Ile Leu Arg Arg Ile Leu Lys Phe Leu Asn Arg Ala Lys
 1 5 10 15

Trp Ala Leu Arg Leu Met Trp His Arg Ser Ala Ala Lys Thr Phe Arg
 20 25 30

Tyr Pro Lys Asn Arg Arg Gly Asn Lys Leu Phe Gln Gly Leu Glu Met
 35 40 45

Lys Ala Lys Trp Gly Ala Pro Arg Arg Lys Ala Arg Met Asp Ala Lys
 50 55 60

Asp Ile Arg Ala Ser Arg Ala Ala His Cys Phe Leu Ala Val

<211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3713

Tyr Phe Arg Leu Leu Cys Lys Ile Trp Lys Lys Leu Gln Lys Ala Gln
 1 5 10 15

Lys Arg Tyr Ala Ile Leu Asp
 20

<210> 3714
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3714

Lys Leu Arg Leu Leu Lys Lys Phe Trp Lys Met Leu Arg Lys Leu Tyr
 1 5 10 15

Ala Lys Ala Asn Gln Ala
 20

<210> 3715
 <211> 64
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3715

Met Trp Lys Leu Phe Arg Lys Ile Leu Arg Arg Ile Lys Cys Ala Phe
 1 5 10 15

Ala Thr Leu Arg Arg Arg Lys Ser Ala Met Glu Ala Ala Ser Ala Pro
 20 25 30

Arg Asn Leu Phe Gln Ser Ala Tyr His Glu Pro Thr Ala Arg Cys Ala
 35 40 45

Gly Pro Lys Leu Met Arg Trp Ala Leu Leu Arg Leu Ile Lys Arg Leu

50

55

60

<210> 3716

<211> 77

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3716

Lys Tyr Lys Leu Leu Arg Arg Ile Phe Lys Leu Trp Arg Arg Pro Lys
 1 5 10 15

Lys Trp Ile Leu Arg Arg Met Arg Trp Lys Leu Ile Ala Met His Lys
 20 25 30

Gly Leu Leu Ala Lys Gln Leu Trp Leu Met Met Gly Glu Asn Arg Tyr
 35 40 45

Leu Ala Ser Glu Gly His Ala Ala Ile Leu Pro Ala Ser Lys Lys Ala
 50 55 60

Asn Leu Leu Arg Tyr Glu Asn Leu Arg His Leu Leu Gln
 65 70 75

<210> 3717

<211> 77

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3717

Leu Leu Arg Leu Leu Thr Lys Met Phe Arg Arg Leu Lys His Gln Ala
 1 5 10 15

Ile Lys Leu Leu Val Leu Met Asn Met Glu Cys Lys Thr Ile Gly Arg
 20 25 30

Val Val Lys Lys Lys Leu Lys Arg Lys Ile Leu Cys Leu Met Thr Ala
 35 40 45

Glu Leu Arg Leu Phe Ala Gly Lys Glu Phe Lys Tyr Lys Tyr Pro Phe
 50 55 60

Ala Lys Ala Leu Trp Arg Lys Glu Ala Gly Leu Arg Phe
 65 70 75

<210> 3718
 <211> 37
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3718

Tyr Leu Lys Phe Trp Arg Lys Ile Phe Arg Leu Trp Pro Lys Met Leu
 1 5 10 15

Lys Lys Arg Lys Arg Leu His Ala Leu Lys Ala Gly Trp Thr Leu Trp
 20 25 30

Ser Leu Tyr Lys Ala
 35

<210> 3719
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3719

Arg Leu Lys Ile Phe Arg Arg Trp Trp Arg Trp Tyr Arg His Arg Ala
 1 5 10 15

Ser Ala Gly Leu His Leu Ala
 20

<210> 3720
 <211> 56
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3720

Leu Met Arg Ile Phe Arg Lys Phe Leu Arg Lys Leu Arg Lys Gln Lys
 1 5 10 15

Ala Leu Lys Gly Leu Arg Arg Trp Leu Tyr Ala Met Glu Lys Phe Ala
 20 25 30

Phe Arg Gln Ala Met Met Gly Lys Met Lys Arg Glu Leu Leu Asp Tyr
 35 40 45

Leu Thr Leu His Gly Tyr Gly Lys
 50 55

<210> 3721
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3721

Ile Leu Lys Trp Trp Lys Lys Leu Ile Lys Trp Ile Lys Thr Leu Arg
 1 5 10 15

Lys His Leu Val Arg Cys His Tyr Ala Asp Arg Lys Leu Ala Asp Ala
 20 25 30

<210> 3722
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3722

Arg Met Lys Phe Leu Asn Arg Leu Leu Arg Leu Ile Pro Lys Cys Leu
 1 5 10 15

His Ala Trp Leu Asn Arg Cys
 20

<210> 3723
 <211> 27
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3723

Arg Leu Arg Leu Tyr Asn Arg Tyr Tyr Arg Lys Ile Arg Thr Arg Arg
 1 5 10 15

Ser Ala Gln Leu Ala Ala Lys Gln Glu Ile Leu
 20 25

<210> 3724

<211> 38

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3724

Lys Trp Lys Tyr Leu Arg Arg Phe Phe Arg Lys Phe Ser Pro Arg Ser
 1 5 10 15

Lys Leu Tyr Gly Lys Arg Ala Leu Lys Leu Lys Ala Pro Cys Asp Ala
 20 25 30

Lys Leu Ala Leu Glu Cys
 35

<210> 3725

<211> 46

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3725

Lys Tyr Arg Phe Leu Arg Lys Tyr Trp Arg Arg Leu His Pro Leu Thr
 1 5 10 15

Lys Arg Leu Met Phe Glu Leu Gln Gln Arg Ala Cys Leu Cys Ala Lys
 20 25 30

Lys Cys Leu Val Ala Asn Lys Ala Leu His Arg Arg Gln Gly
 35 40 45

<210> 3726

<211> 53

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3726

Arg	Leu	Lys	Leu	Leu	Arg	Arg	Leu	Leu	Arg	Lys	Leu	Lys	Thr	Asn	Pro
1				5					10					15	

His	Trp	Tyr	Leu	Lys	Lys	Arg	Trp	Gln	Tyr	Pro	His	Arg	Lys	Ser	Phe
			20					25					30		

Val	Phe	Leu	Ala	Thr	Lys	Ser	Leu	Arg	Pro	Arg	Arg	Lys	Thr	Ala	Lys
		35					40					45			

Ala	Leu	Leu	Ala	Lys
				50

<210> 3727

<211> 44

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3727

Leu	Trp	Arg	Leu	Tyr	Pro	Lys	Leu	Leu	Arg	Arg	Met	Lys	Arg	Trp	Ala
1				5					10					15	

Ala	Asn	His	Lys	Ala	Ala	Leu	Trp	Ala	Tyr	Pro	Lys	Pro	Cys	Ala	Glu
			20					25					30		

Leu	Pro	Met	Pro	Val	Ser	Arg	Arg	Asp	Lys	Ala	Ala
		35					40				

<210> 3728

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3728

Leu	Phe	Lys	Leu	Trp	Thr	Arg	Phe	Leu	Arg	Lys	Phe	Gln	Arg	Leu	Ala
1				5					10					15	

Ala	His	Arg	Cys	Ala	Phe	Met
-----	-----	-----	-----	-----	-----	-----

20

<210> 3729
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3729

Leu Leu Lys Leu Met Arg Arg Ile Leu Lys Arg Met Asn Lys Gly Arg
 1 5 10 15

Ile Ser Thr Ala Phe
 20

<210> 3730
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3730

Tyr Leu Arg Ile Phe Lys Lys Met Ile Lys Leu Tyr Thr Lys Leu Ala
 1 5 10 15

Asn Lys Gln Leu Lys Leu Asp
 20

<210> 3731
 <211> 44
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3731

Phe Leu Lys Met Leu Gln Lys Leu Leu Lys Arg Leu Arg Arg Glu Arg
 1 5 10 15

Ile Ile Trp Val Gly Ala Ser Ala Leu Leu Trp Arg Ile Asp Ala Phe
 20 25 30

Gly Arg Leu Ala Lys His Gly Thr Lys Arg Leu Leu

35

40

<210> 3732

<211> 56

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3732

Leu Ile Arg Leu Leu Gln Lys Trp Met Arg Lys Leu Lys His Arg Tyr
 1 5 10 15

Lys Tyr Ala Lys Glu Leu Arg Leu Lys Lys Leu Pro Glu Ala Gly Trp
 20 25 30

Asn Lys Ala Leu Trp Met Thr Ile Ala Leu His Arg Gly Lys Ser Ile
 35 40 45

Thr Ala Lys Gln Asp Lys Glu Leu
 50 55

<210> 3733

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3733

Leu Trp Arg Leu Leu Lys Arg Leu Leu Arg Phe Met Lys Cys Cys Arg
 1 5 10 15

Leu Asp Lys Ala Lys Ala Leu Lys Arg Ala Ser Gln Gly Arg Phe Lys
 20 25 30

Glu Lys Ile
 35

<210> 3734

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3734

Leu Phe Lys Phe Leu Cys Lys Tyr Met Lys Arg Leu His Lys Tyr Lys
1 5 10 15

Leu Thr Leu Lys Leu Phe
20

<210> 3735

<211> 57

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3735

Lys Phe Arg Leu Leu Arg Arg Met Leu Arg Leu Phe Arg Lys Ala Ala
1 5 10 15

Gly Asn Ile Arg Asp Arg Tyr Lys Asn Ser Leu Ile Pro Lys Asn Ala
20 25 30

Lys Cys Arg Arg Glu Ser Asn Glu Asp Cys Arg Cys Leu Leu Leu Ala
35 40 45

Lys Leu Arg Tyr Ala Leu Phe Arg Ala
50 55

<210> 3736

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3736

Lys Leu Lys Ile Trp Arg Arg Leu Leu Arg Trp Ile Arg Gln Ala Phe
1 5 10 15

Trp Arg Ala Leu Gly Ala Thr
20

<210> 3737

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3737

Leu Met Lys Phe Phe Lys Arg Phe Leu Arg Tyr Ile Lys Arg Ala Arg
1 5 10 15

Ala Ala Leu Met
20

<210> 3738

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3738

Tyr Leu Arg Leu Leu Thr Lys Ile Tyr Arg Arg Ile Cys Arg Lys Arg
1 5 10 15

Lys Arg Leu Ala Gly Lys Leu Lys Pro Leu Gly Ala Met Met His Leu
20 25 30

Lys Ala Leu Leu
35

<210> 3739

<211> 52

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3739

Leu Leu Lys Leu Trp His Arg Leu Leu Arg Lys Phe Lys Lys Lys Leu
1 5 10 15

Ile Arg Leu Asp Arg Arg His Ala Ala Ala Arg Leu Asp Lys Leu Ala
20 25 30

Lys Lys Lys Arg Asp Trp Trp His Leu Leu Ala Lys Arg Thr Lys Pro
35 40 45

Ile Lys Lys Asp
50

<210> 3740
<211> 61
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 3740

Arg Leu Arg Tyr Trp Lys Lys Phe Leu Lys Lys Leu Lys Arg Arg Ala
1 5 10 15

Leu Thr Arg Ala Lys Ala Arg Arg Val Arg Glu His Asn Tyr Phe Pro
20 25 30

Ala Lys Lys Thr Leu Pro Lys Glu Tyr Thr Leu Ser Thr Arg Asn Ala
35 40 45

Leu Leu Met Met Arg Lys Leu Leu Ala Leu Gly Phe Asn
50 55 60

<210> 3741
<211> 58
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 3741

Phe Leu Lys Leu Trp Cys Arg Phe Ile Arg Arg Tyr Arg Lys Leu Glu
1 5 10 15

Glu Asn Arg Ala Leu Pro Leu Ser Thr Thr Lys Ala Lys Gln Ser Arg
20 25 30

Tyr Ala Lys Glu Lys Ala Arg Pro Lys Asp Ala Lys Trp Ala Tyr Phe
35 40 45

Val Lys Asn Lys Leu Ala Thr Tyr Ala Ala
50 55

<210> 3742

<211> 96
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3742

Arg Phe Arg Phe Ile Lys Arg Met Leu Lys Leu Leu Arg Lys Lys Arg
 1 5 10 15

Lys Leu Glu Leu Met Leu Lys Val Asp Cys Lys Ala Lys Lys Ser Lys
 20 25 30

Cys Lys Arg Met Ala Ala Ala Val His Ala Leu Gly Arg Pro Ala Glu
 35 40 45

Arg Cys Ala Gly Thr Ser Leu Gln Leu Arg Lys Arg Lys Trp Ala Trp
 50 55 60

Arg Pro Ala Val Leu Lys Ala Lys Arg Arg Lys Arg Lys Met Ala Asp
 65 70 75 80

Arg Leu Tyr His Glu Pro Pro Leu Asn Ala Arg Arg Leu Leu Asn Glu
 85 90 95

<210> 3743
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3743

Leu Met Lys Phe Leu His Arg Leu Ile Arg Arg Leu Lys Lys Met Arg
 1 5 10 15

Gly Gly Ala Gln Ile Ala Pro Leu Ala Asp Ala Gln
 20 25

<210> 3744
 <211> 69
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3744

Lys Leu Arg Phe Leu Lys Lys Phe Leu Arg Trp Leu Lys Lys Ser Arg
1 5 10 15

Leu Leu Ala Ala Glu Leu Asn Ala Asn Leu Ser Lys Asp Lys Met Gly
20 25 30

Ala Lys Leu Phe Lys Gly Arg Leu Gly Cys Lys Asn Arg Ala Lys Ile
35 40 45

Lys Gly Tyr Val Arg Met Asn Gly Lys Leu Ala Lys Lys Gly Gln Gln
50 55 60

Tyr Ala Lys Cys Glu
65

<210> 3745

<211> 57

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3745

Arg Phe Arg Leu Leu Pro Lys Ile Leu Arg Lys Phe Lys Gln Phe Arg
1 5 10 15

Tyr Lys Met Arg Ala Leu Arg Arg Arg Leu Cys Cys Lys His Leu Ala
20 25 30

Arg Arg Trp Ala Leu Leu Val Asp Lys Thr Ala Leu Arg Gly Ala Trp
35 40 45

Met Phe Lys Ile Gln Leu Lys Val Lys
50 55

<210> 3746

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3746

Trp Leu Lys Leu Leu Asn Arg Met Phe Lys Arg Leu Arg Arg Gly Leu
 1 5 10 15

Ser Leu Arg Ala Leu Asn Arg Leu Pro Asn Ile
 20 25

<210> 3747
 <211> 58
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3747

Arg Phe Lys Leu Leu Gln Arg Trp Phe Lys Arg Trp Lys Arg Leu Cys
 1 5 10 15

Ala Lys Ala Arg Ala Thr Pro Ser Ala Val Ala Arg Leu Ile Thr Cys
 20 25 30

Ala Val Ile Ser Leu Ala Leu Arg Glu Val Glu Leu Arg Ala Leu Arg
 35 40 45

Met Arg His Lys Leu Cys Phe Arg Trp Leu
 50 55

<210> 3748
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3748

Tyr Met Lys Leu Leu Arg Arg Tyr Leu Arg Arg Ile Lys Lys Ala His
 1 5 10 15

Ala Leu Leu Pro Arg Met Leu Lys Arg His Met Ala Leu Glu Ala Arg
 20 25 30

Ala Ile

<210> 3749

<211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3749

Arg Leu Lys Ile Met Lys Arg Met Leu Arg Arg Tyr Gln Arg Leu Gln
 1 5 10 15

Arg Trp Ala Met Gln Trp Leu Leu Phe
 20 25

<210> 3750
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3750

Lys Leu Lys Leu Leu Gln Lys Ile Trp Lys Leu Tyr Arg Arg His Gly
 1 5 10 15

Lys Gly Ala Ile Ala Lys Met Arg Lys Ile Val Ala Tyr His
 20 25 30

<210> 3751
 <211> 26
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3751

Lys Trp Lys Ile Phe Lys Lys Phe Leu Arg Arg Leu Lys Lys Leu Phe
 1 5 10 15

Lys Leu Pro Cys Leu Asn Leu Thr Leu Leu
 20 25

<210> 3752
 <211> 54
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3752

Arg	Leu	Arg	Met	Trp	Arg	Arg	Tyr	Leu	Lys	Lys	Tyr	Lys	Arg	Gln	Lys
1				5					10					15	

His	Ala	Trp	Glu	Ile	Lys	Arg	Ala	Leu	Arg	His	Lys	Arg	Leu	Ser	Val
			20					25					30		

Pro	Leu	Leu	Arg	Asn	Ala	Arg	Asn	Ala	Leu	Glu	Arg	Thr	Ala	Leu	Leu
			35				40					45			

Lys	Tyr	Trp	His	Arg	Tyr
					50

<210> 3753

<211> 45

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3753

Phe	Leu	Arg	Leu	Leu	Arg	Lys	Leu	Tyr	Lys	Trp	Phe	Asn	Arg	Ile	Leu
1				5					10					15	

Lys	Met	Ser	Leu	Gly	Arg	Thr	Ile	Gln	Ala	Ala	Arg	Arg	Ala	Ala	Ala
			20					25					30		

Lys	Ala	Ser	Tyr	Gln	Ser	Met	Leu	Ala	Leu	Arg	Pro	Lys
			35				40					45

<210> 3754

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3754

Leu	Ile	Arg	Met	Ile	Gln	Arg	Trp	Leu	Lys	Lys	Phe	Arg	Ser	Ala	Ala
1				5					10					15	

Ala	Val	Ala	Met
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20

<210> 3755
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3755

Tyr Ile Lys Leu Phe Cys Arg Leu Leu Lys Arg Leu Arg Lys Glu Leu
 1 5 10 15

Leu Ser Thr Ala Leu Trp
 20

<210> 3756
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3756

Met Met Lys Phe Leu Lys Arg Trp Leu Arg Lys Trp Thr Arg Ala Leu
 1 5 10 15

Gln Arg Lys Ala Ala Gln Leu His Cys Arg Ser Met Leu
 20 25

<210> 3757
 <211> 64
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3757

Lys Ile Arg Leu Leu His Arg Leu Tyr Arg Lys Met Cys Pro Pro Leu
 1 5 10 15

Cys Arg Lys Lys Lys Leu Arg Glu Ala Lys Leu Arg Gln Lys Leu Ala
 20 25 30

Arg Leu Ser Leu Gln Lys Ser Phe Leu Leu Ile Leu Leu Thr Gly Tyr

35

40

45

Ala Leu Ala Cys Asp Ala Cys Asn Ser Phe Tyr Asp Lys Gly Asp Arg
 50 55 60

<210> 3758

<211> 58

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3758

Leu Leu Lys Phe Ile Thr Lys Leu Leu Lys Lys Leu Asn Ser Leu Ala
 1 5 10 15

Arg Arg Arg Ile Trp Pro Cys Arg Lys Tyr Thr Thr Tyr Gly His Gln
 20 25 30

Leu Asn Ala Arg Ala Ile Leu Arg Ala Glu Ala Arg Asp Leu Val Thr
 35 40 45

Asp Asp Lys Leu Lys Val Arg Arg Ala Glu
 50 55

<210> 3759

<211> 43

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3759

Arg Phe Arg Leu Phe Lys Lys Leu Leu Lys Ile Leu Arg Gln Glu Thr
 1 5 10 15

Gly Leu Leu Leu Arg Arg Leu Val His Phe Leu Ala Asn Asp Ala Tyr
 20 25 30

Lys Tyr Phe Arg Val Gln Val Trp Leu Lys Leu
 35 40

<210> 3760

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3760

Arg	Trp	Lys	Phe	Phe	Lys	Arg	Trp	Leu	Arg	Arg	Phe	Lys	Asn	Ala	Ala
1				5				10						15	

Cys	Val	Ala	Val	Arg	Thr	Pro	Leu	Met	Met	Val	Lys	Ala	Lys	Asn	Arg
			20				25						30		

Leu	Leu	Leu	Lys
			35

<210> 3761

<211> 69

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3761

Lys	Phe	Lys	Phe	Phe	Arg	Lys	Phe	Met	Lys	Leu	Leu	Asn	Arg	Lys	Arg
1				5				10						15	

Arg	Arg	Cys	Cys	Phe	Trp	Ser	Asp	Phe	Leu	Lys	Leu	Leu	Phe	Leu	Lys
			20				25						30		

Met	Ile	Gly	Leu	Arg	Arg	Ala	Lys	Asn	Leu	Leu	Ala	Tyr	Cys	Leu	Arg
		35				40					45				

Lys	Gly	Trp	Ala	Ala	Arg	Arg	Leu	Arg	Arg	Phe	Asp	Ser	Tyr	Gln	Asn
	50					55					60				

Leu	Lys	Ser	Trp	Gln
65				

<210> 3762

<211> 37

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3762

Leu Phe Lys Phe Leu Arg Arg Leu Leu Arg Lys Leu Cys Arg His Cys
 1 5 10 15

Ile Lys Lys Lys Arg His Arg Ala Asp Trp Trp Lys Ala Ala Ala Trp
 20 25 30

Lys Asn Pro His Leu
 35

<210> 3763
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3763

Arg Ile Arg Leu Leu His Arg Trp Ile Lys Phe Leu His Gln Arg Gly
 1 5 10 15

Leu Lys Tyr Leu Leu
 20

<210> 3764
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3764

Leu Tyr Arg Phe Met His Arg Leu Ile Arg Arg Phe Pro Lys Lys Thr
 1 5 10 15

Lys Ala Asn Cys Leu Leu Ala Leu
 20

<210> 3765
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3765

Lys Leu Lys Leu Leu Ser Arg Leu Leu Lys Phe Phe Lys Arg Ala Arg
 1 5 10 15

Arg Lys Ala Leu Arg Leu Thr Pro Lys Pro Arg Pro Gly Asp Ile Leu
 20 25 30

<210> 3766

<211> 46

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3766

Lys Leu Lys Leu Phe Arg Arg Phe Leu Arg Phe Leu Lys Arg Trp Arg
 1 5 10 15

Ala Gln Arg Phe Cys Leu Arg Lys Ala Gly Trp Asn Arg Pro Leu Lys
 20 25 30

Ile Ala Pro Ser Tyr Lys Ser Leu Lys Ala Lys His Asn Ala
 35 40 45

<210> 3767

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3767

Ile Ile Arg Trp Leu Lys Lys Tyr Phe Lys Lys Leu Lys Arg Thr Ala
 1 5 10 15

Ala Leu Val Leu Arg
 20

<210> 3768

<211> 61

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3768

Met Trp Arg Tyr Leu Lys Arg Trp Leu Arg Lys Ile Lys Gln Ala Ser
 1 5 10 15

Lys Lys Ala Cys Val Ala Thr Trp Lys Asp Tyr Tyr Phe Arg Leu Leu
 20 25 30

Asp Gly Ile Ala Arg Lys Arg Lys Phe Ser Val Lys Leu Ala Leu Gly
 35 40 45

Ser Ala Ala Val Pro Arg Leu Leu Lys Lys Lys Val Leu
 50 55 60

<210> 3769

<211> 60

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3769

Phe Ile Arg Leu Met Arg Arg Phe Tyr Arg Lys Leu His Arg Lys Glu
 1 5 10 15

Met Gln Leu Val Pro Asn Ala Arg Leu Tyr Arg Arg Phe Leu Lys Lys
 20 25 30

His Arg Leu Lys Thr Gly Ala His Ala Ala Met Lys Ser Leu Cys Ala
 35 40 45

Val Met Glu Trp Lys Ala Arg Leu Asp Lys Ala Leu
 50 55 60

<210> 3770

<211> 80

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3770

Arg Leu Arg Leu Ile Lys Arg Leu Leu Lys Phe Phe Gln Pro Ala Ile
 1 5 10 15

Tyr Ala Arg Ile Leu Lys Pro Tyr Met Phe Trp Arg Arg Cys Trp Phe

20

25

30

Leu Ser Leu Ala Thr Lys Ala Ala Leu Phe Asn Gly Asn Lys Ser Leu
 35 40 45

Lys Ala Asn Asp Leu Lys Lys Trp Lys Arg Tyr Leu Lys Lys Ala Val
 50 55 60

Cys Leu Ala His Lys Leu Gln Lys Ala Tyr Ala Ile Glu Ala Trp Ala
 65 70 75 80

<210> 3771

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3771

Phe Met Arg Leu Phe Lys Arg Leu Leu Arg Phe Trp Arg Arg Asn Leu
 1 5 10 15

Thr Ala Ile Leu Cys Lys Met Ala Leu Arg Pro Arg Ser Leu His Leu
 20 25 30

<210> 3772

<211> 47

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3772

Lys Trp Arg Met Met Gln Arg Tyr Leu Lys Lys Tyr Lys Lys Ala Trp
 1 5 10 15

Leu Leu Gln Gly Asn Leu Ala Asp Arg Lys Leu Ala Val Ala Leu Pro
 20 25 30

Gln Lys Ala Lys Asn Ala Asp Arg Trp Asp Cys Gly Arg Val Arg
 35 40 45

<210> 3773

<211> 97

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3773

Met Ile Lys Tyr Phe Arg Arg Leu Leu Lys Lys Ile Arg Lys His Lys
1 5 10 15

Thr Lys Arg Val Leu Glu Leu Arg His Ala Leu Met Thr His Glu Asn
20 25 30

Lys Leu Thr Phe Leu Tyr Met His Leu Lys Lys Gln Gln Val Thr Tyr
35 40 45

His Gln Ala Phe Ile Lys Arg Lys Ala Ala Pro Pro Lys Leu Lys Leu
50 55 60

Lys Leu Gly Ala Lys Lys Pro Ile Pro Lys Lys Leu Ala Arg Leu Arg
65 70 75 80

Thr Arg Ala Leu Arg Asn Pro Lys Leu Arg Leu Pro Trp Gly His Ser
85 90 95

Ala

<210> 3774

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3774

Trp Leu Arg Leu Ile Lys Arg Ile Phe Arg Phe Leu Arg Arg Arg Asp
1 5 10 15

Leu Leu Tyr Ala Asp
20

<210> 3775

<211> 75

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3775

Arg	Leu	Arg	Tyr	Trp	Arg	Arg	Leu	Leu	Arg	Met	Leu	Cys	Ser	Leu	Trp
1				5					10					15	

Lys	Leu	Arg	Leu	Ser	Thr	Val	Val	Met	Ala	Leu	Lys	Arg	Glu	Arg	Arg
			20					25					30		

Lys	Val	Ala	Asn	Arg	Leu	Leu	Ser	Glu	Ala	Leu	Glu	Arg	Leu	Cys	Lys
		35					40					45			

Tyr	Glu	Asp	Lys	Arg	Gln	Ala	Lys	His	Leu	Ser	Lys	Leu	Pro	Met	His
	50					55					60				

Lys	Ala	Gln	Lys	Met	Leu	Lys	Arg	Gln	Asn	Leu
65					70					75

<210> 3776

<211> 45

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3776

Leu	Leu	Lys	Leu	Phe	Lys	Arg	Leu	Met	Arg	Phe	Phe	Arg	Lys	Lys	Ala
1				5					10					15	

Ser	Asn	Arg	Trp	Lys	Cys	Trp	Thr	Asn	Arg	Gln	Ala	Phe	Gly	Trp	Leu
			20					25					30		

Met	Arg	Tyr	Lys	Leu	His	Ala	Leu	Leu	Lys	Thr	Arg	Tyr
		35					40					45

<210> 3777

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3777

Ile	Tyr	Arg	Tyr	Leu	Lys	Arg	Ile	Leu	Lys	Tyr	Phe	Lys	Cys	Asn	Ala
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

1 5 10 15

His Pro Arg Thr Ile Arg Lys Ala Leu Met Ser Leu Ser Arg Ala Ala
 20 25 30

Ala Tyr Ala Ala
 35

<210> 3778
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3778

Lys Ile Arg Leu Phe Lys Lys Tyr Leu Arg Phe Leu Gln Arg Asp Ala
 1 5 10 15

Asn Val Val Leu Ala Arg Asp
 20

<210> 3779
 <211> 26
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3779

Lys Phe Lys Phe Ile Arg Arg Met Phe Lys Leu Met Lys Asn Arg Leu
 1 5 10 15

Tyr Leu Pro Ala Lys Ala Thr Leu Ala Ala
 20 25

<210> 3780
 <211> 52
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3780

Lys Phe Arg Leu Phe Arg Lys Ile Met Lys Arg Met Arg Arg Leu Ala

1 5 10 15

Arg Thr Lys Pro His Leu Ala Ala Leu Lys Met Glu Asp Arg Leu Ala
20 25 30

Val Arg Val Arg Lys Met Gln Lys Cys Tyr Leu Leu Leu Gln Asp Arg
35 40 45

Met Pro Ile Val
50

<210> 3781
 <211> 77
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3781

Leu Tyr Lys Phe Phe Asn Arg Trp Trp Arg Ile Leu Lys Ser Lys Leu
1 5 10 15

Arg Met Thr Arg Arg Gln Ala Cys Ala Val Ala Leu Ile Met Thr Ala
20 25 30

Trp Glu Gln Leu Ile His Lys Lys Ala Ala Phe Lys Leu Arg Pro Lys
35 40 45

Val Asp Leu Ala Tyr Met Ala Tyr Ala Trp Ala Ala Phe Ala Arg Leu
50 55 60

Asn Arg Lys Met Ala Ser Arg Leu Asn Arg Arg Ala Arg
65 70 75

<210> 3782
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3782

Leu Trp Lys Leu Trp Lys Arg Leu Tyr Arg Leu Leu Gln Ser Asn Cys
1 5 10 15

Cys Pro Asn Lys Arg Val Leu Tyr Arg Lys Leu Lys Ala
 20 25

<210> 3783
 <211> 52
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3783

Met Ile Arg Leu Phe Lys Lys Leu Leu Lys Met Tyr Lys Asn Lys Glu
 1 5 10 15

Ala Ala Ala Lys Asp Arg Tyr Lys Arg Ala Ser Arg Ala Glu Gly Ala
 20 25 30

Ser Ala Leu His Ala Met Leu Cys Cys Lys Leu Arg Lys Gln Ala Leu
 35 40 45

Lys Trp Arg Ala
 50

<210> 3784
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3784

Leu Leu Lys Phe Phe Arg Lys Phe Leu Lys Arg Phe Lys Pro Asp Arg
 1 5 10 15

Arg Thr Gln Arg Lys Phe His Leu Asp Ile Phe Leu Ser Leu Leu Leu
 20 25 30

<210> 3785
 <211> 73
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3785

Arg Ile Arg Leu Leu Lys Arg Phe Leu Arg Arg Leu Asn Arg Tyr Ala
 1 5 10 15

Leu Val Asp Ala Val Asp Leu Met Ala Glu Lys Ala Lys Ala Ala Leu
 20 25 30

Thr Leu Lys Ala Met Asp Leu Lys Arg Phe Pro Ala Val Leu Ser Pro
 35 40 45

Phe Ala Tyr Ser Arg Gln Leu Lys Phe Lys Ser Ser Ile Lys Met Ile
 50 55 60

Asn Lys Ala Ala Lys Glu Ile Ser Leu
 65 70

<210> 3786

<211> 77

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3786

Lys Leu Lys Tyr Leu Arg Lys Phe Leu Lys Arg Met Ser His Lys Arg
 1 5 10 15

Arg Phe Gly Lys Met Ala Gly Gly Gly Gln Ala Leu Asp Ala Met Lys
 20 25 30

Ala Gly Lys Ala Val Leu Val Lys Ser Ala Cys Ile Arg Ala Leu Trp
 35 40 45

Asp Lys Cys Ala Ser Arg Lys Gly Ala Ala Cys Leu Lys Ala Phe Arg
 50 55 60

Lys Lys Arg Leu Gln Arg Glu Ile Ile Lys Ile Leu His
 65 70 75

<210> 3787

<211> 49

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3787

Trp Ile Lys Ile Leu Lys Arg Phe Leu Arg Lys Met Asn Lys Leu Pro
 1 5 10 15

Arg Leu Cys Lys Thr Gly Lys Met Lys Lys Ala Leu Leu Lys Tyr Asn
 20 25 30

Cys Ala Tyr Leu Lys Ser Gln Leu Gly Leu Ala Ser Tyr Arg Ala Ala
 35 40 45

Ile

<210> 3788

<211> 95

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3788

Leu Phe Lys Phe Phe Arg Arg Met Met Arg Lys Tyr Gln Arg Arg Thr
 1 5 10 15

Lys Ser Ala Ala Cys Gln Ala Thr Leu Lys Lys Arg Val Tyr Lys Lys
 20 25 30

Arg Leu Leu Lys Leu Gly Thr Thr Asn Ala Gln Glu His Lys Trp Ala
 35 40 45

Leu Ser His Arg Ala Ala Leu Met Ser Ala Pro His Thr Asn Trp Ala
 50 55 60

Arg Lys Phe Ala Cys Lys Lys Lys Gly Leu Leu Lys Met Lys Arg Ala
 65 70 75 80

Glu Ala Thr Leu Arg Ala Arg Trp Met Asp Phe Gln Leu Lys Lys
 85 90 95

<210> 3789

<211> 61

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3789

Arg	Trp	Arg	Trp	Tyr	Lys	Arg	Ile	Trp	Arg	Trp	Leu	Lys	Lys	Arg	Val
1				5				10						15	

Arg	Arg	Met	Leu	Leu	Ala	Ala	Ser	Ser	Gln	Ala	Ala	Ile	Phe	Leu	Leu
			20					25					30		

Tyr	Ala	Leu	Val	Tyr	Pro	Arg	Arg	Arg	Lys	Asn	Leu	Cys	Leu	Trp	Leu
		35					40					45			

Ala	Lys	Ser	Arg	Lys	Asp	Met	Leu	Arg	Lys	Lys	Arg	Tyr
	50					55					60	

<210> 3790

<211> 83

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3790

Arg	Ile	Arg	Tyr	Trp	Lys	Lys	Phe	Met	Arg	Lys	Met	Asn	Lys	Ser	Ala
1				5					10					15	

Leu	Gln	Gln	Arg	Ala	Arg	Ile	Leu	Asp	Ala	Cys	Cys	Arg	Leu	Lys	Pro
			20					25					30		

Glu	Thr	Ala	Glu	Asp	Arg	Ala	Leu	Ile	Arg	Gln	Trp	Ala	Thr	Tyr	Pro
		35					40				45				

Leu	Trp	Arg	Tyr	Leu	Ser	Ala	Arg	Arg	Leu	Arg	Lys	Leu	Cys	Lys	Asn
	50					55					60				

Leu	Arg	Ala	Arg	Asp	Ala	Arg	Lys	Lys	Thr	Leu	Ile	Arg	Thr	Lys	Asn
65					70					75					80

Leu Asn Thr

<210> 3791

<211> 55

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3791

Lys Met Arg Leu Ile Gln Lys Trp Leu Lys Arg Leu Cys Arg Trp Trp
1 5 10 15

Leu Val Ile Leu Lys Arg Leu Thr Leu Gln Arg Ala Ala Ala Lys Leu
20 25 30

Leu Lys Ile Ala Asp Cys Tyr Leu Ala Val Lys Leu Ser Ser Lys Asp
35 40 45

Tyr Arg Asp Gly Lys Leu Ile
50 55

<210> 3792

<211> 39

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3792

Ile Leu Lys Leu Trp Arg Lys Met Ile Lys Arg Leu Arg Lys Arg Arg
1 5 10 15

Lys Gln Arg Ala Phe Leu Lys Leu Arg Ala Leu Leu Glu Leu Arg Ala
20 25 30

Asn Met Ala Val Ser His Gly
35

<210> 3793

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3793

Leu Leu Arg Phe Leu Lys Lys Ile Phe Lys Phe Leu Pro Thr Ala Asn
1 5 10 15

Ile Asp Arg Phe Ile Lys Lys Met Ala Leu Arg
 20 25

<210> 3794
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3794

Arg Phe Lys Leu Phe His Arg Leu Leu Lys Arg Leu Pro Arg Glu Gln
 1 5 10 15

Arg Gly Arg Val Lys His Arg Asn Arg Leu Thr Ser Ser Gln His Leu
 20 25 30

Ala Asn Arg Ala Tyr Tyr Leu Lys
 35 40

<210> 3795
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3795

Leu Phe Lys Trp Phe Arg Arg Leu Leu Lys Phe Ile Lys Arg Leu Ala
 1 5 10 15

Ala Asp Asn Arg Ala Gly Tyr Gln Lys Val Ala Arg Ser Thr Lys Lys
 20 25 30

Val Arg Cys Ala
 35

<210> 3796
 <211> 47
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3796

Arg Leu Lys Ile Ile Arg Arg Met Leu Lys Arg Leu Arg Pro Lys Leu
 1 5 10 15

Trp Lys Gly Lys Val Arg Met Ser Arg Met Trp Ile Lys Leu Gly Ala
 20 25 30

Val Leu Leu Leu Pro Lys Glu Ala Glu Trp Leu Leu Leu Ala His
 35 40 45

<210> 3797
 <211> 37
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3797

Leu Met Arg Trp Ile Lys Arg Leu Leu Lys Phe Leu Arg Lys Lys Arg
 1 5 10 15

Lys Ser Met Gly Leu Arg Ala Tyr Val Glu Lys Ala Leu Gln Gln Lys
 20 25 30

Gly Leu Val Leu Gln
 35

<210> 3798
 <211> 84
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3798

Leu Leu Arg Trp Leu Arg Lys Leu Tyr Arg Trp Ile Lys Thr Ser Leu
 1 5 10 15

Arg Lys Arg Arg Thr Arg Ser Ser Tyr Arg Glu Leu Ala Thr Val Gly
 20 25 30

Glu Cys Ala Leu Phe Ala Ala Arg Val Lys Ala Ala Ile Leu Asp Arg
 35 40 45

Ile Arg Arg Ser Asp Ile Ala Val Glu Ile Gln Ala Ser Ala Phe Cys

50

55

60

Glu Tyr Asn Arg Ala Ala Pro Lys Trp Leu Cys Leu Ala Arg Leu Lys
 65 70 75 80

Lys Leu Ala Leu

<210> 3799

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3799

Arg Tyr Arg Trp Leu Arg Arg Phe Phe Arg Lys Leu Pro Pro Gly Leu
 1 5 10 15

Lys Arg Gly Leu Asp Glu Ala Ala Ala Arg Ile Lys Ala Asn Gln Arg
 20 25 30

His Thr

<210> 3800

<211> 93

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3800

Ile Ile Arg Leu Leu Arg Lys Phe Trp Lys Arg Met Lys Thr Asp Ala
 1 5 10 15

Arg Ala Leu Arg Ala Ser Leu Tyr His Asn Arg Asn Asp Leu Gln Leu
 20 25 30

Arg Ala Ala Leu Leu Ala Phe Leu Ala Thr Arg Lys Arg Glu Arg Lys
 35 40 45

Leu Gly Asn Ala Thr Pro Arg Val Leu Leu His Pro Arg Gly Asn Cys
 50 55 60

Arg Leu Leu Met Ser Gln Phe Lys Ser Ala Asn Cys Leu Lys Arg Ala
 65 70 75 80

Leu Lys Ile Gln Met Pro Leu Arg Arg Glu Val Ala Lys
 85 90

<210> 3801
 <211> 61
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3801

Lys Leu Arg Leu Ile Lys Lys Leu Phe Lys Arg Phe Gln Lys Gly Lys
 1 5 10 15

Val Ala Leu Met Lys Trp Ala Thr Trp Ala Thr Ala Ala Phe Arg Met
 20 25 30

Tyr Cys His Leu Leu Asn Thr Ala Arg Trp Arg Trp Lys Thr Leu Ala
 35 40 45

Arg Trp Glu Lys Leu Ile Pro Ile Lys Tyr Arg Arg Arg
 50 55 60

<210> 3802
 <211> 70
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3802

Lys Tyr Lys Phe Ile Pro Arg Phe Trp Arg Tyr Trp Lys Lys Val Pro
 1 5 10 15

Gly Ala Arg Asn Glu Leu Lys Tyr Lys Lys Phe Met Leu Ala Lys Val
 20 25 30

Arg Lys Lys Leu Arg Lys Arg Pro Leu Leu Ala Ile Met Arg Thr Ala
 35 40 45

Arg Ala Ala Ser Arg Trp Pro Phe Asn Ala Asp Leu Leu Asn Ala Lys

50

55

60

Pro Trp Arg Ala Arg Pro
65 70

<210> 3803
<211> 73
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 3803

Arg Ile Lys Tyr Met Arg Arg Trp Leu Lys Phe Met His Arg Lys Tyr
1 5 10 15

Ala Lys Val Asn Gly Lys Leu Lys Lys Glu Phe Asp Arg Gln Trp Cys
20 25 30

Arg Lys Ala Leu Asn Ala Phe Ala Tyr Leu Lys Arg Pro Val Leu Glu
35 40 45

Phe Glu Leu Arg Pro Trp Arg Arg Gln Ala Met Leu Ala Arg Lys Lys
50 55 60

Ala Tyr Ala Gln Arg Ala Arg Leu Ala
65 70

<210> 3804
<211> 26
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 3804

Arg Tyr Arg Leu Phe His Arg Leu Leu Lys Ile Tyr Lys Arg Leu Met
1 5 10 15

Leu Trp Ala Ser Ala Ile Lys Ala Leu Arg
20 25

<210> 3805
<211> 40
<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3805

Lys Ile Arg Ile Leu Pro Lys Leu Trp Arg Phe Leu Pro Lys Arg Leu
1 5 10 15

Ala Asn Gln Arg Lys Arg Trp Asn Ala Leu Trp Arg Met Leu Asn Leu
20 25 30

Tyr Gln Ala Leu Asn Tyr Leu Gln
35 40

<210> 3806

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3806

Lys Leu Arg Met Phe Thr Arg Phe Leu Arg Leu Tyr His Lys Trp Ala
1 5 10 15

Arg Lys Val Tyr Lys Asn Ala Asp Leu Asp Gly Ala Asp Arg Arg Ala
20 25 30

Lys Leu Arg
35

<210> 3807

<211> 43

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3807

Leu Leu Lys Leu Leu Arg Lys Leu Met Lys Lys Phe Gln Arg Lys Glu
1 5 10 15

Gln His Glu Ala Arg Ala Val Gly Trp Leu Leu Ala Lys Tyr Leu Thr
20 25 30

Arg Arg Glu Phe Arg Pro Arg Pro Trp Lys Trp
35 40

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<210> 3808
<211> 21
<212> PRT
<213> Artificial Sequence
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<220>
<223> Computer-generated peptide variant

<400> 3808

Arg Leu Arg Tyr Met Arg Arg Trp Trp Arg Leu Leu Arg His Leu Val
1 5 10 15

Asp Leu Trp Pro Ala
20

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<210> 3809
<211> 29
<212> PRT
<213> Artificial Sequence
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<220>
<223> Computer-generated peptide variant

<400> 3809

Lys Trp Lys Leu Trp Pro Lys Leu Tyr Lys Met Leu Arg Arg Leu His
1 5 10 15

Ala Lys Glu Lys Leu Leu Phe Leu Gly Arg Cys Leu Met
20 25

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<210> 3810
<211> 40
<212> PRT
<213> Artificial Sequence
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<220>
<223> Computer-generated peptide variant

<400> 3810

Met Trp Arg Leu Phe Lys Lys Leu Phe Lys Tyr Phe Arg Thr Gly Leu
1 5 10 15

Ala Arg Leu Ala Ala Leu Leu Lys Leu Asp Cys Ala Leu Glu Leu Cys
20 25 30

Thr Asp His Ile Lys Ile Tyr Lys
 35 40

<210> 3811
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3811

Arg Leu Lys Trp Tyr Pro Arg Leu Leu Arg Leu Leu Asn Asn Lys Ala
 1 5 10 15

Arg Tyr Asp Gln Ala Ile
 20

<210> 3812
 <211> 91
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3812

Lys Phe Arg Tyr Tyr Ser Lys Phe Trp Lys Arg Ile Arg Thr Lys Trp
 1 5 10 15

Glu Lys Ser Lys Glu Thr Leu Cys Tyr Arg Arg Ala Lys Arg Phe His
 20 25 30

Arg Asn Tyr Ala Ala Lys Gln Arg Lys Leu Ala Glu Pro Val Leu Arg
 35 40 45

Val Leu Ala Leu Leu Gln Arg Lys Leu Arg Lys Leu Ile Leu Tyr Leu
 50 55 60

Leu Asp Arg Arg Arg Lys Leu Leu Ser Ala Arg Lys Ile Arg Arg Gln
 65 70 75 80

Leu Ala Glu Asp Gln Lys Gln Trp Ala Trp Leu
 85 90

<210> 3813

<211> 82
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3813

Met Leu Arg Phe Ile Cys Arg Phe Ile Lys Arg Met Arg Pro Val Lys
 1 5 10 15

Leu Leu Phe Thr Pro Cys Leu Arg Ala Val Glu Ala Ala Ala Asn Arg
 20 25 30

Asn Leu Ala Leu Arg Ala Lys Phe Arg Arg Leu Ala Arg Gln Val Ala
 35 40 45

Ala Asn Leu Phe Arg Gly Arg Leu Arg Asp Trp Tyr Asn Lys Leu Gly
 50 55 60

Arg Tyr Leu Val Leu Ala Ser Lys Leu Ile Gln Arg Pro Ser Leu Leu
 65 70 75 80

Met Leu

<210> 3814
 <211> 60
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3814

Arg Leu Lys Leu Met Ser Lys Trp Ile Lys Arg Leu Arg Lys Leu Pro
 1 5 10 15

Trp Cys Arg Gly Tyr Ala Arg Leu Lys Leu Phe Val Gln Tyr Leu Ala
 20 25 30

Phe Lys Glu Trp Arg Arg His Tyr Tyr Ala Arg Arg Phe Ala Ala Ala
 35 40 45

Gly Thr Ala Lys Trp Thr Leu Leu Leu Phe Lys Ser
 50 55 60

<210> 3815
 <211> 95
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3815

Arg Ile Lys Leu Leu Arg Arg Ile Leu Lys Phe Ile Asn Arg Arg Gln
 1 5 10 15

His Lys Ala Arg Arg Ala Lys Thr Asp Lys Asp Arg Ala Cys Val Lys
 20 25 30

Trp Ala Val Ala Lys Lys Tyr Leu Ala Gln Ala Ala Arg Cys Ala Arg
 35 40 45

Gln Lys Ala Ala Glu Met Leu Cys Leu Gly Leu Leu Ala Cys Thr Tyr
 50 55 60

Lys Trp Val Ala Arg Leu Phe Val Asp Asp Lys Ala Leu Leu Trp Tyr
 65 70 75 80

Tyr His Ile Leu Val Gly Ala Ser Leu Arg Arg Lys Ile Leu Lys
 85 90 95

<210> 3816
 <211> 45
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3816

Tyr Phe Arg Ile Met Gln Lys Tyr Leu Lys Lys Phe Lys Cys Tyr Arg
 1 5 10 15

Arg Ala Arg Thr Met Lys Lys His Ala Lys Leu Lys Thr Phe Gly Leu
 20 25 30

Lys Ala Ala Leu Tyr Cys Ser Lys Thr Leu Arg Leu Ala
 35 40 45

<210> 3817

<211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3817

Arg Leu Arg Leu Phe Thr Arg Leu Leu Arg Lys Met Gln Arg Tyr Cys
 1 5 10 15

Lys Ala Asp Leu Lys Leu Ala Ala Arg Asp Cys Gln
 20 25

<210> 3818
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3818

Lys Leu Lys Leu Ile Ser Lys Trp Leu Lys Arg Trp Lys Arg Ala Leu
 1 5 10 15

Gln Tyr Leu Tyr Cys
 20

<210> 3819
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3819

Arg Leu Lys Phe Phe Asn Lys Leu Leu Arg Lys Ile Arg Lys Leu Trp
 1 5 10 15

Ala Ala Val Val
 20

<210> 3820
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3820

Leu	Phe	Arg	Leu	Trp	Lys	Arg	Trp	Leu	Arg	Lys	Leu	Lys	Lys	Val	Arg
1				5					10					15	

Leu	Tyr	Ala	Leu	His	Ala	Ser	Lys
			20				

<210> 3821

<211> 45

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3821

Met	Leu	Arg	Leu	Ile	Arg	Arg	Leu	Trp	Lys	Ile	Phe	Cys	Arg	Arg	Lys
1				5					10					15	

Lys	Phe	Phe	Thr	Thr	Leu	Arg	Leu	Ala	Pro	Met	Arg	Ala	Lys	Glu	Met
			20					25					30		

Thr	Leu	Leu	Ala	Phe	Leu	Lys	Ala	Glu	Gln	Leu	Met	Lys
			35				40				45	

<210> 3822

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3822

Leu	Phe	Arg	Leu	Trp	Arg	Lys	Leu	Ile	Arg	Met	Leu	Lys	Pro	Lys	Ala
1				5					10					15	

Leu	Gln	Lys	Thr	Thr	His	Lys	Ile
			20				

<210> 3823

<211> 38

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3823

Met	Tyr	Arg	Leu	Phe	Thr	Lys	Trp	Leu	Lys	Arg	Tyr	Asn	Pro	Glu	Lys
1				5					10					15	

Leu	Val	Tyr	Lys	Lys	Lys	His	Leu	Pro	Ala	Leu	Gly	Met	Ala	Glu	Leu
			20					25					30		

Leu	Leu	Ala	Gly	Arg	Leu
					35

<210> 3824

<211> 56

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3824

Trp	Leu	Arg	Leu	Met	Thr	Lys	Leu	Phe	Arg	Lys	Tyr	Lys	Lys	His	Arg
1				5					10					15	

Pro	Lys	Leu	Leu	Leu	Arg	Thr	Leu	Lys	Gln	Trp	Leu	Ala	Ala	His	Ile
			20					25					30		

Lys	Leu	Lys	Ala	His	Tyr	Leu	Phe	Glu	Ala	Arg	Lys	Lys	Thr	Tyr	Lys
		35					40					45			

Leu	Ala	Lys	Ala	Thr	Arg	Lys	His
	50					55	

<210> 3825

<211> 95

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3825

Arg	Leu	Arg	Met	Leu	Ser	Arg	Met	Ile	Arg	Tyr	Leu	Lys	Arg	Lys	Ala
1				5					10					15	

Leu	Pro	Tyr	Gln	Met	Leu	Arg	Tyr	Arg	Ile	Arg	Lys	Arg	Leu	Glu	Leu
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

20

25

30

Trp Gly Cys Phe Arg Ala Met Gly Trp Asn Ala Lys Arg Val Cys Lys
 35 40 45

Arg Leu Trp Lys Leu Ala Leu Arg Met Lys Asn His Lys Phe Ala Lys
 50 55 60

Tyr Met Lys Arg Pro Gln Leu Thr Ala Ile Arg Pro Ser Ala Thr Pro
 65 70 75 80

Phe Asn Lys Arg Lys Leu Thr Leu Ala Ala Lys Ala Ile Lys Ile
 85 90 95

<210> 3826

<211> 78

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3826

Arg Tyr Arg Phe Tyr Lys Arg Leu Phe Arg Lys Phe Lys Cys Leu Arg
 1 5 10 15

Cys Leu Asp His Val Asp Tyr Cys Tyr Ala Met Ile Ala Lys Lys Ala
 20 25 30

Leu Leu Thr Arg Arg Leu Ala Tyr Ala Arg Ser Thr Arg Cys Ala Leu
 35 40 45

Ala Ile Val Lys Lys Arg Leu Leu Gln Met Arg Arg Asp Ser Leu Arg
 50 55 60

Asn Lys Ala Thr Asp Asp Met Glu Cys Lys Leu Lys Ala Glu
 65 70 75

<210> 3827

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3827

Phe Leu Lys Tyr Leu Lys Lys Leu Leu Arg Lys Phe Ser Asn Ala Leu
 1 5 10 15

Ala Ala Lys Ser Arg Lys
 20

<210> 3828
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3828

Tyr Phe Arg Trp Phe Cys Lys Phe Ile Arg Arg Tyr Gln Arg Ala Glu
 1 5 10 15

Val Lys Asn Arg Ala Lys Leu Leu Leu Tyr Leu Gln Leu Ala Arg Val
 20 25 30

Leu Arg Thr Leu
 35

<210> 3829
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3829

Tyr Trp Arg Leu Phe Thr Lys Leu Phe Arg Arg Leu Lys His Ala Ala
 1 5 10 15

Pro Ala Lys Lys Lys Arg Arg Ala Met Arg Leu Lys Ile Phe Cys Arg
 20 25 30

Leu Glu Arg Leu Asp Asp Ala Thr
 35 40

<210> 3830
 <211> 93
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3830

Lys Leu Lys Leu Tyr Arg Arg Trp Tyr Lys Arg Met Lys Lys Ala Leu
 1 5 10 15

Lys Pro Ala His Val Ala Ile Glu Ala Arg Arg Lys Trp Arg Leu Ser
 20 25 30

Lys Arg Arg Leu Arg Tyr Asp Tyr Asn Ala Ala Ser Ala Ala Tyr Met
 35 40 45

Lys Ala Arg Ser Ala Glu Ala Ala Leu Pro Lys Lys Ser Thr Ala Glu
 50 55 60

Lys Cys Ala Leu Trp Lys Met Glu Arg Leu Trp Pro Leu Phe Leu Arg
 65 70 75 80

Arg Leu Leu Thr Ala Tyr Asn Lys Leu Gly Asn Asp Lys
 85 90

<210> 3831

<211> 47

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3831

Ile Phe Lys Phe Met Lys Arg Ile Tyr Lys Arg Phe Pro Arg Ala Leu
 1 5 10 15

Ala Leu Leu Met Gly Ala Arg Arg Lys Trp Met Asn Trp Asn Ala Ala
 20 25 30

Leu Ile Arg Ala Gly Leu Leu Lys Lys Lys Trp Cys Trp Lys Arg
 35 40 45

<210> 3832

<211> 37

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3832

Arg Leu Arg Leu Met Pro Arg Leu Leu Lys Phe Leu Arg Lys Ala Glu
 1 5 10 15

Ala Phe Pro Lys Leu Lys Ile Lys Glu Arg Leu Lys Cys Gly Pro Pro
 20 25 30

Thr Gly Ala Phe Lys
 35

<210> 3833

<211> 56

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3833

Arg Leu Arg Leu Trp Lys Lys Leu Leu Arg Lys Ile Ser Lys Arg Leu
 1 5 10 15

His Lys Ile Lys Trp Asp Ser Ala Leu Pro Gly Ala Gly Lys Ala Trp
 20 25 30

Leu Arg Arg Arg Trp Lys Leu Lys Ala Tyr Asn Leu Phe Arg Lys Lys
 35 40 45

Ala Ala Lys His Gln Lys Ser Leu
 50 55

<210> 3834

<211> 37

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3834

Arg Leu Lys Met Trp Arg Arg Leu Leu Arg Lys Leu Arg Gln Ala Lys
 1 5 10 15

Ala Ala Ala Ala Ala Gln Lys Lys Leu Ala Asn Arg Arg Ala Leu Gln
 20 25 30

Ile Leu Ser Leu Lys
35

<210> 3835
<211> 24
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 3835

Lys Ile Lys Phe Leu Gln Arg Trp Leu Arg Met Tyr Pro Arg Leu Ala
1 5 10 15

Leu Arg Tyr Leu Arg His Ala Asn
20

<210> 3836
<211> 77
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 3836

Arg Ile Arg Leu Trp Gln Lys Leu Met Arg Lys Leu Lys Arg Ala Lys
1 5 10 15

Pro Arg Asn Ile Arg Phe Ile His His Ala Ala His Ala His Cys Ala
20 25 30

Arg Asn Gln Gln Ala Leu Thr Arg Asn His Lys Thr Leu Ala Ile Arg
35 40 45

Leu His Arg Arg Lys Arg Tyr Ala Arg Arg Tyr Ala Tyr Tyr Lys Leu
50 55 60

Arg Arg Arg Ala Thr Met Lys Trp Ala Leu Trp Lys Pro
65 70 75

<210> 3837
<211> 74
<212> PRT
<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3837

Lys Phe Arg Met Phe Lys Lys Phe Phe Arg Arg Leu Cys His Lys Arg
 1 5 10 15

Arg Ala Leu Ala Leu Ser Cys Gln Lys Lys Arg Leu Leu Lys His Ala
 20 25 30

Tyr Gln Cys Ile Cys Phe Trp Glu Arg Trp Asn Ala Leu Ala Glu Leu
 35 40 45

Gln Pro Thr Ala Lys Leu Asn Leu Leu Arg Leu Arg Lys Arg Ile Ala
 50 55 60

Leu Ser Val Glu Asn Leu Arg Pro Leu Arg
 65 70

<210> 3838

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3838

Arg Leu Arg Met Ile Lys Arg Leu Leu Lys Lys Phe Lys Asn Leu Val
 1 5 10 15

Glu Ile Val Gln Ile Asp Leu Ala Arg Leu Trp Gln Val Lys Arg Ala
 20 25 30

Ala Ala Trp
 35

<210> 3839

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3839

Lys Ile Arg Phe Phe Arg Arg Tyr Leu Arg Leu Leu Arg Asn Ile Leu

1 5 10 15

Phe Thr Ala Arg
20

<210> 3840
<211> 56
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 3840

Lys Leu Arg Leu Leu Lys Arg Phe Ile Lys Lys Leu Lys His Arg Ala
1 5 10 15

Ala Glu Arg Ser Gly Phe Cys Ile Arg Ala Arg Ala Gln Tyr Arg His
20 25 30

Lys Lys Leu Cys Arg His Pro Phe Val Arg Asp Cys Val Leu Ile Lys
35 40 45

Leu Ala Ile Ala Leu Thr Met Cys
50 55

<210> 3841
<211> 67
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 3841

Lys Met Arg Leu Leu Arg Lys Phe Met Arg Arg Ile Lys Arg Ile Phe
1 5 10 15

Leu Arg Leu Arg His Lys Cys Gln Leu Ala Leu Phe Asp Thr Ala Asn
20 25 30

Leu Leu Pro Arg Arg Gln Val Gln Ala Ala Ala Met Gly Thr Tyr Lys
35 40 45

Arg Leu Arg Ala Cys Ser Ala Lys Gln Leu Arg Leu Cys Phe Tyr Cys
50 55 60

Lys Arg Lys
65

<210> 3842
<211> 69
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 3842

Arg Leu Arg Ile Phe Cys Lys Leu Met Arg Leu Trp Lys Arg Tyr Val
1 5 10 15

Tyr Asp Leu Ala Arg Val Arg Trp Arg Lys Tyr Cys Leu Tyr Arg Arg
20 25 30

Arg Lys Cys Asn Arg Pro Glu Thr Ala Ser Tyr Asn Ala Leu Leu Leu
35 40 45

Lys Gln Lys Lys Leu Lys Ala Gln Leu Pro Ser Cys Leu Leu Ser Leu
50 55 60

Lys Leu Cys Ala Asp
65

<210> 3843
<211> 24
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 3843

Tyr Trp Lys Phe Leu Lys Arg Phe Tyr Lys Leu Met Pro Arg Arg Ala
1 5 10 15

Ala Ala Asn Gln Lys Lys Thr Leu
20

<210> 3844
<211> 72
<212> PRT
<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3844

Lys Trp Arg Phe Ile Arg Arg Leu Ile Lys Leu Leu Cys Cys Lys Lys
 1 5 10 15

Trp Arg Leu Gln Pro Ile Leu Leu Leu Gln Gly Val Lys Ala Thr Lys
 20 25 30

Tyr Lys Arg Pro Leu Glu Leu Phe Lys Pro Ser Arg Ala Leu Leu Arg
 35 40 45

Cys Arg Ala Cys Ala Phe Leu Asp Glu Ile Thr Arg Ala Val Ala Leu
 50 55 60

Gly Ala Arg Cys Arg Lys Lys Phe
 65 70

<210> 3845

<211> 54

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3845

Leu Trp Arg Leu Leu Gln Lys Trp Trp Lys Met Phe Arg Asn Leu Arg
 1 5 10 15

Phe Leu Asn Val Ala Ser Arg Arg Arg Ala Phe Pro Gln Arg Lys Phe
 20 25 30

Phe Lys Leu Asn Arg Ala Leu Leu Phe Ala Ala Ala Asn Ala Val Cys
 35 40 45

Trp Arg Ala Arg Leu Tyr
 50

<210> 3846

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3846

Arg Phe Lys Leu Met Lys Arg Ile Met Lys Lys Leu Gln Arg Leu Tyr
1 5 10 15

Lys Asn Ala Arg Lys Ala Tyr Ala Asp Met Lys Ala Ile Leu
20 25 30

<210> 3847

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3847

Arg Phe Lys Phe Leu Asn Arg Tyr Leu Lys Lys Met Gln Pro Cys Leu
1 5 10 15

Leu Gly Phe Asn Ala Leu Lys Leu Lys Asp Ala Tyr Ala Asp Leu Arg
20 25 30

<210> 3848

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3848

Lys Leu Lys Tyr Leu Pro Arg Trp Leu Arg Leu Met Lys Arg Thr Leu
1 5 10 15

Ala Val Trp Cys Lys Gly Arg
20

<210> 3849

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3849

Met Leu Lys Leu Ile Cys Arg Leu Phe Lys Arg Leu Lys Ser Ala Thr

<210>	3850
<211>	52
<212>	PRT
<213>	Artificial Sequence
<220>	
<223>	Computer-generated peptide variant
<400>	3850

Arg Arg Lys Arg Ala His Ala Lys Leu Gln Val Ala Ala Ile Ala Pro
20 25 30

His Ala Lys Trp Lys Leu Leu His Gln Ala Glu Arg Ala Met Lys Lys
35 40 45

Cys Thr Ala Trp
50

<210>	3851
<211>	37
<212>	PRT
<213>	Artificial Sequence
<220>	
<223>	Computer-generated peptide variant
<400>	3851

Arg Met Lys Leu Leu Arg Lys Phe Ile Arg Lys Leu Arg Lys Arg Arg
1 5 10 15

Leu Ile Ala Gln Glu Gly Arg Ala Leu Ala Arg Lys Leu Asp Leu Ala
20 25 30

Ala Met Leu Tyr Leu
35

<210> 3852
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3852

Phe Ile Arg Trp Leu Arg Arg Phe Leu Arg Leu Leu Arg Asn Cys Ala
 1 5 10 15

Tyr Leu His Leu Thr Gly Ala Gln Arg
 20 25

<210> 3853
 <211> 91
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3853

Leu Met Arg Leu Leu Lys Arg Tyr Leu Lys Ile Leu Thr Arg Arg His
 1 5 10 15

Gly His Asn Gln Leu Ile Lys Ala Ser Arg Leu Trp Ala Leu Ala Asn
 20 25 30

Thr Ile Lys Ala Cys Ala Ile Thr Phe Arg Cys Leu Glu Trp Leu Lys
 35 40 45

Leu Ile Tyr Glu Gly Ala Leu Arg Ala Leu Arg Gln Glu Arg Arg Lys
 50 55 60

Ala Arg Lys Arg Leu Lys Asp Tyr Leu Gly Ala Arg Gly Val Phe Leu
 65 70 75 80

Ala Cys Leu Gly Ser Leu Asp Arg Ala Cys Trp
 85 90

<210> 3854
 <211> 31
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3854

Met	Ile	Arg	Met	Phe	Asn	Arg	Leu	Tyr	Lys	Lys	Leu	Arg	Lys	Lys	Leu
1				5					10					15	

Ala	Val	Leu	Arg	Ala	Arg	Lys	Met	Ala	Lys	Cys	Phe	Glu	Ala	Gln
			20					25					30	

<210> 3855

<211> 60

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3855

Arg	Ile	Arg	Phe	Leu	Thr	Lys	Leu	Phe	Arg	Arg	Phe	Arg	Gln	Lys	Phe
1				5					10					15	

Leu	Leu	Trp	Met	Leu	Asn	Lys	Lys	Lys	Val	Ile	Ala	Lys	Tyr	Lys	Lys
			20					25					30		

Ala	Glu	Thr	His	Leu	Glu	Asp	Ala	Ala	Ser	Ile	Val	Lys	Lys	Thr	Val
			35				40					45			

Leu	Arg	Leu	Leu	Ser	Lys	Leu	Gly	Leu	Ala	Ser	Trp
	50					55					60

<210> 3856

<211> 37

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3856

Arg	Leu	Arg	Leu	Ile	Pro	Arg	Phe	Ile	Arg	Lys	Leu	His	Asn	Arg	Glu
1				5					10					15	

His	Ile	Thr	Phe	Arg	Arg	Cys	Ala	Lys	Asp	Ala	Tyr	Arg	Asn	Ala	Lys
			20					25					30		

Leu	Ala	Thr	Arg	Ala
-----	-----	-----	-----	-----

35

<210> 3857
 <211> 47
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3857

Lys Leu Lys Trp Leu Arg Arg Trp Tyr Arg Lys Phe Thr His Leu Ala
 1 5 10 15

Thr Ala Cys Lys Val Leu Lys Gly His Thr Phe Arg Arg Asp Phe Ala
 20 25 30

Leu Ala Pro Leu Lys Trp Lys Ala Leu Lys Arg Gly Met Leu Val
 35 40 45

<210> 3858
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3858

Lys Leu Arg Leu Trp Lys Lys Phe Leu Arg Leu Phe Asn His Lys Leu
 1 5 10 15

Ile Ala Lys Leu Arg Pro
 20

<210> 3859
 <211> 47
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3859

Ile Leu Arg Leu Met His Lys Leu Leu Arg Met Leu Thr Arg Phe Arg
 1 5 10 15

Phe Arg Ala Met Gln Ala Thr Lys Arg Arg Arg Lys Ala Gln Asp Cys

20

25

30

Cys Lys Tyr Ala Ala Leu Gly Leu Asn Leu Trp Met Leu Gly Leu
 35 40 45

<210> 3860

<211> 70

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3860

Leu Trp Arg Met Leu Lys Arg Ile Leu Lys Leu Phe Arg Lys Ala Val
 1 5 10 15

Ala Leu Val Trp Lys Gly Leu Arg Lys Ala Leu Asp Leu Met Lys Arg
 20 25 30

Lys Arg Ser Arg Pro Ser Ala Pro Arg Leu Phe His Glu Asn Lys Leu
 35 40 45

Trp Leu Leu Arg Ala His Cys Ala Ala Trp Trp Phe Phe Arg Arg Tyr
 50 55 60

Lys Lys Asp Val Thr Gly
 65 70

<210> 3861

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3861

Trp Leu Lys Trp Phe Cys Arg Phe Leu Arg Lys Met His Arg Phe Ala
 1 5 10 15

Ala Asn Phe Ala Arg Ala Lys Leu Phe
 20 25

<210> 3862

<211> 42

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3862

Met Tyr Arg Ile Met Lys Lys Leu Met Arg Met Ile Lys His Leu Tyr
1 5 10 15

Gly Ala Lys Arg Leu Leu Ala Met Lys Ile Leu Leu Arg Phe Trp Arg
20 25 30

Leu Pro Met Tyr His Arg Arg Ala Arg Arg
35 40

<210> 3863

<211> 80

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3863

Lys Met Arg Met Leu Lys Arg Ile Trp Arg Lys Leu Arg Gln Phe Tyr
1 5 10 15

Ala Met Gly Glu Gly Asn Asp Arg Cys Ser Lys Asp Gly Ala Leu Leu
20 25 30

Leu Asp Ala Leu Leu Arg Ala Thr Trp Lys Trp Val Leu Ser Glu Lys
35 40 45

Asn Ala Glu Arg Ala Ser Cys Arg His Arg Phe Asn Leu Ala Leu Pro
50 55 60

Lys Lys Arg Lys Lys Ala Leu Leu Arg Ile Ala Arg Asn Asp Arg Arg
65 70 75 80

<210> 3864

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3864

Leu Trp Lys Met Tyr His Lys Phe Leu Arg Ile Leu Lys Lys Ala Ser
 1 5 10 15

Val Ser Lys Lys Ala
 20

<210> 3865
 <211> 49
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3865

Trp Leu Lys Leu Leu Ser Lys Trp Tyr Arg Arg Leu Arg Arg Gln Arg
 1 5 10 15

Arg His Leu Phe Leu Arg Ala Ala His Asp Leu Val Ser Gly Cys Asp
 20 25 30

Ala Arg Leu Ala Arg Asp Arg Asp Gln Ser His Val Leu Met Ala Arg
 35 40 45

Ala

<210> 3866
 <211> 94
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3866

Lys Leu Lys Met Trp His Arg Phe Ile Lys Phe Leu Lys Lys Lys Ala
 1 5 10 15

Asp Lys Leu Met Pro Trp Met Lys Lys Phe Lys Lys Ala Ile Ser Ala
 20 25 30

His Glu Ala Trp Tyr Tyr Ala Asp Leu Arg Leu Lys Lys Ala His Gly
 35 40 45

Lys Met Ile Ala Leu Ala Leu Lys Cys Glu Gln Leu Glu Gln Leu Ala

50

55

60

Leu Asp Met Tyr Cys Asp Ala Ala Thr Ala Lys Leu Ala Asn Pro Lys
 65 70 75 80

Phe Arg Ala Ala Arg Cys Leu Ile Ile Leu Glu Arg Leu Lys
 85 90

<210> 3867

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3867

Arg Phe Arg Trp Leu Arg Arg Ile Trp Lys Leu Phe Lys Arg Ala Leu
 1 5 10 15

Trp Phe Pro Lys Gln Lys Ala Lys Pro Lys His Arg Leu Leu Ala Thr
 20 25 30

Ala

<210> 3868

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3868

Arg Phe Arg Leu Phe Thr Arg Trp Leu Lys Leu Phe Lys Pro Ala Ala
 1 5 10 15

His Leu Ser Leu Arg Ala His Met
 20

<210> 3869

<211> 42

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3869

Lys Leu Arg Met Trp Arg Lys Met Phe Lys Lys Phe Arg Asn Ala Met
1 5 10 15

Leu Lys Gly Leu Gln Lys Trp Met Ala Lys Ile Phe Leu Lys Gln Lys
20 25 30

Tyr Arg Gly Leu Gln Ala His Leu Leu Arg
35 40

<210> 3870

<211> 43

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3870

Arg Trp Arg Leu Phe Lys Lys Phe Leu Lys Leu Leu His Lys Lys Thr
1 5 10 15

Ala Leu Ile Leu Pro Arg Leu Ala Trp Phe Lys Glu Cys Leu Met Lys
20 25 30

Ala Lys Trp Leu Arg Arg Lys Val Arg Gly Thr
35 40

<210> 3871

<211> 41

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3871

Lys Tyr Lys Trp Leu His Lys Tyr Ile Arg Lys Phe Lys Lys Trp Arg
1 5 10 15

Ala His Ala Lys Ala Pro Leu Arg Ala Glu Leu Ala Gly Leu Arg Cys
20 25 30

Gly Leu Lys Arg Ile Lys Cys Ala Thr
35 40

<210> 3872
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3872

Arg Met Arg Met Leu Arg Arg Phe Phe Arg Leu Leu Gln Arg Asn Asp
 1 5 10 15

Tyr Lys Met Ala Gly Arg Leu Arg Ala Thr Tyr Leu
 20 25

<210> 3873
 <211> 85
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3873

Lys Ile Arg Phe Ile Thr Lys Trp Leu Arg Arg Phe Ser Arg Gly Arg
 1 5 10 15

His Arg Leu Lys Arg Ile Ser Asp Phe Ala Arg Ala Asn Arg Lys Lys
 20 25 30

Ile Leu Ser Ala Phe Leu Lys Arg Arg Lys Cys Leu Arg Tyr Lys Phe
 35 40 45

Gln Asn Leu Thr Trp Ala Asp Ala Arg Pro Arg Pro Leu Val Ala Gly
 50 55 60

Leu Arg Pro Asp Leu Leu Arg Arg Leu Arg Leu Glu Arg Phe His Pro
 65 70 75 80

Ala Arg Pro Ala Leu
 85

<210> 3874
 <211> 57
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3874

Tyr Leu Arg Leu Leu Lys Arg Leu Met Arg Lys Leu Arg Gln Gln Arg
 1 5 10 15

Arg Ala Lys His Leu Glu Asn Phe His Ala His Arg Leu Trp Ala Ala
 20 25 30

Ala Arg Leu Arg Phe Leu Leu Lys His Gly Arg Ala Thr Gln Asn Leu
 35 40 45

Met Pro Asn Ala Ala Tyr Gly Gly Gln
 50 55

<210> 3875

<211> 38

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3875

Arg Leu Lys Met Met Arg Lys Leu Leu Arg Arg Met His Lys Ala Arg
 1 5 10 15

Pro Pro His His Ala Lys Ala Trp Trp Ala Gln Leu Lys Trp Ile Arg
 20 25 30

Ile Leu Pro Cys Leu Leu
 35

<210> 3876

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3876

Lys Trp Arg Trp Ile Lys Lys Ile Tyr Lys Arg Ile His Ser Lys Trp
 1 5 10 15

Pro Pro Ala Leu Leu His Ala Ala Ile Ala Cys Asn Leu Gly Lys Arg

20

25

30

Lys Ala Trp Asn Ala Lys Lys Lys
 35 40

<210> 3877

<211> 38

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3877

Lys Met Arg Leu Trp Gln Arg Leu Ile Lys Lys Trp Lys Thr Leu Ala
 1 5 10 15

Ala Asn His Val Leu Tyr Lys Lys Leu Trp Val Ala Asp Arg Leu Arg
 20 25 30

Ala Cys Tyr Asn Ala Tyr
 35

<210> 3878

<211> 46

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3878

Met Leu Lys Leu Phe Arg Lys Leu Met Arg Phe Phe Ser Lys Thr Asp
 1 5 10 15

Leu Gly Lys Met Lys Ala Arg Ala Arg Thr Lys His Leu Leu Leu Thr
 20 25 30

Lys Thr Ser Arg Ala Leu Gly Val Leu Ala Tyr Met His Leu
 35 40 45

<210> 3879

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3879

Lys Leu Arg Leu Ile Lys Arg Trp Leu Arg Leu Ile Pro Lys Val Lys
1 5 10 15

Ala Asp Trp Ile Met Met Gln Arg Ala
20 25

<210> 3880

<211> 31

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3880

Phe Leu Arg Ile Leu Pro Arg Met Met Arg Lys Leu Arg Arg Val Arg
1 5 10 15

Arg Lys Ala Tyr Glu Ala Arg Leu Asn Ala Leu Met Phe Ile Phe
20 25 30

<210> 3881

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3881

Leu Tyr Arg Leu Phe Lys Arg Leu Trp Lys Lys Phe Arg Arg Leu Ala
1 5 10 15

Leu Ala Ser Ile Leu Lys Pro Met Pro Cys Leu Arg Ala Lys Asn Ala
20 25 30

Ser Ser

<210> 3882

<211> 91

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3882

Arg Met Arg Phe Leu Arg Arg Met Phe Lys Lys Tyr Cys Gln Arg Arg
1 5 10 15

Arg Leu His Asn Lys Arg Pro Trp Phe Lys Lys Val Ser Glu Arg Ser
20 25 30

Ala Lys Pro Cys Leu Ala Trp Pro Met Lys Ala Ile Leu His Leu Lys
35 40 45

Arg Lys Asp Leu Leu Leu Ser Leu Gly Arg Ile Gly Glu Arg Leu Leu
50 55 60

Ala Thr Trp Ala Leu Trp Arg Pro Glu Asp Lys Lys Lys Asp Lys Leu
65 70 75 80

Lys Thr Lys Asp Leu Arg Asp Leu Arg Thr Ala
85 90

<210> 3883

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3883

Arg Leu Lys Tyr Tyr Lys Arg Phe Met Lys Leu Tyr Pro Ser Phe Ile
1 5 10 15

Gln Thr Asn Arg Trp Leu Lys Lys Ala Leu Arg Tyr Lys Leu Leu Ala
20 25 30

Lys Trp

<210> 3884

<211> 87

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3884

Leu Phe Lys Phe Leu Arg Arg Tyr Tyr Arg Arg Leu Arg Asn Tyr Leu
 1 5 10 15

Met Gln Ala Lys Leu Arg Asp Lys Cys Val Lys Thr Leu Lys Arg Arg
 20 25 30

Cys Pro Ser Ile Gln Lys Cys Asp Gly Arg Ala Val Arg Lys Leu Leu
 35 40 45

Leu Ala Ala Trp Val Met Leu Tyr Phe Lys Ala Leu Val Ser Asn Leu
 50 55 60

Ala Tyr Arg Lys His Leu Arg His Ala Arg Leu Ser Leu Phe Val Gly
 65 70 75 80

Asn Leu His Tyr Ala Leu Lys
 85

<210> 3885

<211> 45

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3885

Arg Leu Arg Leu Phe Arg Arg Leu Trp Arg Met Leu Gln Arg Ala Asp
 1 5 10 15

Trp Pro Ala Pro Gly Ala Arg Asp Leu Phe Lys Arg Gln Trp His Ala
 20 25 30

Ala Met Ser Leu Lys Pro Ala Lys Leu Leu Lys Met Leu
 35 40 45

<210> 3886

<211> 37

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3886

Arg Leu Arg Ile Tyr Arg Arg Leu Met Arg Arg Leu Arg Ser Val Ala

1 5 10 15

Glu Leu Arg Thr Arg Leu Asn Leu Asp Ala Ile Lys Arg Lys Ser Met
20 25 30

Ala Tyr Gln Ile Pro
35

<210> 3887
<211> 56
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 3887

Phe Ile Arg Leu Trp Pro Lys Leu Leu Lys Lys Leu Arg Lys Leu Leu
1 5 10 15

Ser Arg Lys Leu Lys Arg Leu Ala Ala Gln Ala Lys Tyr Lys Lys Cys
20 25 30

Asn Met Thr Lys Asn Asn Leu Met Pro Phe Ala Asp Trp His Pro Arg
35 40 45

Gln Ile Arg Glu His Ala Phe Leu
50 55

<210> 3888
<211> 78
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 3888

Lys Tyr Arg Phe Trp Arg Lys Phe Leu Lys Leu Leu Pro Lys Leu Arg
1 5 10 15

Arg Ser Glu Ala Trp Lys Ala Leu Arg Arg Cys Lys Met Leu Asp Arg
20 25 30

Gly Arg Leu Ile Thr Lys Cys Lys Ala Lys Ala Val Glu Ala Ala Tyr
35 40 45

Ile Tyr Cys Asp Lys Arg Ala Cys Thr Val His Pro Ala Leu Pro His
 50 55 60

Asp Leu Val Leu Met Arg Leu Leu Thr Leu Val Lys Trp Arg
 65 70 75

<210> 3889
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3889

Leu Trp Arg Phe Leu Arg Lys Met Tyr Arg Lys Leu Pro Gln Leu Cys
 1 5 10 15

Ala Ala Lys Arg Tyr Lys Arg Arg Phe Asp Leu Lys Ser Ala
 20 25 30

<210> 3890
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3890

Lys Ile Lys Ile Tyr Arg Arg Met Phe Arg Tyr Leu Gln Pro Ala Ile
 1 5 10 15

Leu Lys Arg Ala His Leu Phe Asn Arg Ala Gln Ala Ala
 20 25

<210> 3891
 <211> 83
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3891

Arg Ile Arg Leu Met Arg Lys Met Ile Arg Arg Trp Arg Thr Ala His
 1 5 10 15

Cys Leu Ser Asp Met Leu Gln Arg Ala Arg Met Ala Ala Asp Ala Ile
 20 25 30

Ala Ile His Lys His Lys Gln Arg Gln Gly Gln Glu Arg Leu Val Arg
 35 40 45

Gln Ala Lys Leu Arg Cys Trp His Ala Lys Arg Glu Lys Lys Ala Ala
 50 55 60

Pro Leu Glu Ala Arg Lys Ala Thr Gly Phe Tyr Met Arg Arg Ala Leu
 65 70 75 80

Ala Gly Ala

<210> 3892
 <211> 43
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3892

Lys Leu Lys Phe Ile Lys Arg Leu Phe Lys Arg Met Lys Cys Leu Leu
 1 5 10 15

Leu Phe Arg Arg Ile Phe Val Cys Leu Lys Ala Gly Gln Trp Leu Arg
 20 25 30

Met Arg Ala His Tyr Cys Lys Glu Phe Lys Ala
 35 40

<210> 3893
 <211> 26
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3893

Leu Leu Lys Phe Leu Ser Lys Phe Phe Arg Leu Ile Lys Lys Lys Lys
 1 5 10 15

Ala Arg Lys Leu Ala Asn Ala Trp Ala Asn

20

25

<210> 3894
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3894

Lys Trp Arg Phe Leu Thr Lys Phe Leu Lys Leu Leu Arg Asn Val Lys
 1 5 10 15

Lys Arg Gln Thr Leu Leu Ile Lys Ala Leu Leu Leu Arg Gln Arg Thr
 20 25 30

<210> 3895
 <211> 46
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3895

Met Ile Arg Ile Trp Lys Arg Trp Leu Arg Leu Leu Lys Lys Arg Asn
 1 5 10 15

Arg Phe Lys Gly Ser Met Ala Met Ala Phe Arg Ile Asp Leu Lys Pro
 20 25 30

Leu Gly Leu Glu Ala Phe Lys Arg Leu Ala Lys Ser Arg Tyr
 35 40 45

<210> 3896
 <211> 91
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3896

Met Trp Lys Tyr Phe Asn Arg Met Met Lys Leu Leu Arg Lys Ala Glu
 1 5 10 15

Ala Ile Leu Ala Val Lys Lys Lys Thr Ile Arg Gln Arg Ser Gln Leu

20

25

30

Arg Lys Leu Leu Ile Lys Arg Pro Thr Leu Ser Ala Arg Arg Arg His
 35 40 45

Lys Lys Met Leu Arg Ser Met Asn Lys Arg Met Trp Ile Ile Lys Leu
 50 55 60

Leu Gly Pro Lys Ala Trp Lys Leu Arg Tyr Gly Pro Val Thr Val Leu
 65 70 75 80

Leu Ala Ala Lys Lys Ala Cys Ala Asn Arg Lys
 85 90

<210> 3897

<211> 47

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3897

Arg Leu Arg Ile Tyr Gln Lys Phe Ile Arg Arg Tyr His Arg Pro Cys
 1 5 10 15

Cys Leu Pro Trp Gln Ala Ala Thr Arg Leu Gln Lys Arg Asp Lys Tyr
 20 25 30

Leu Thr Glu Ala Ile Lys Arg Leu Leu Lys Leu Ala Leu Lys Gly
 35 40 45

<210> 3898

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3898

Phe Ile Arg Leu Leu Arg Lys Phe Leu Lys Arg Leu Arg Pro Ile Ala
 1 5 10 15

Arg Ala Pro His Pro Gly
 20

<210> 3899
 <211> 42
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3899

Leu Trp Arg Phe Leu Cys Lys Trp Leu Lys Met Met His Lys Gln Arg
 1 5 10 15

Cys Arg Lys Val Leu Asp Trp Lys Lys Cys Leu Ala Arg Ala Met Asn
 20 25 30

Arg Arg Ala Ala Phe Arg Ala Arg Leu Leu
 35 40

<210> 3900
 <211> 81
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3900

Lys Trp Arg Leu Leu Arg Arg Leu Leu Arg Arg Trp Lys Arg Ala Val
 1 5 10 15

Glu Lys Lys Glu Arg Ala Asn Asn Ala Ile Ala Ile His Phe Ala Ala
 20 25 30

Tyr Ala Trp Arg Gly Arg Arg Met Ala Tyr Lys Tyr Val Arg Gln Val
 35 40 45

Pro Val Asn Leu Thr Leu Pro Lys Leu Ala Ala Arg Leu Ala Ala Lys
 50 55 60

Leu Lys Arg Arg Gln Ser Cys Trp Lys Trp Glu Leu His Ile Arg Ala
 65 70 75 80

Arg

<210> 3901

<211> 43
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3901

Lys Met Arg Phe Phe Lys Arg Ile Tyr Lys Phe Leu Lys Lys Pro Ser
 1 5 10 15

Phe Glu Thr Asp Arg Val Ile Leu Arg Leu Arg Leu Arg Leu Ala Ala
 20 25 30

Lys Asp Leu Ala Ala Ala Ala Arg Leu Asn His
 35 40

<210> 3902
 <211> 58
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3902

Lys Phe Arg Met Leu Lys Lys Met Trp Lys Lys Ile Lys Thr Ser Met
 1 5 10 15

Cys Glu Arg Gly Leu Asn Cys Ala Pro Arg Leu Cys Ala Tyr Ile His
 20 25 30

Arg Lys Gln Ala Asn Arg Tyr Arg Pro Ala Leu Arg Ala Met Ala Arg
 35 40 45

Ala Ser Lys Ala Leu Ala Leu Asp Met Leu
 50 55

<210> 3903
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3903

Leu Leu Lys Phe Leu Lys Lys Leu Leu Arg Lys Ile Lys Lys Cys Ala

1 5 10 15

Phe Arg Leu Ala Ser
20

<210> 3904
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 3904

Lys Phe Arg Ile Leu Lys Arg Leu Leu Lys Arg Leu Lys Arg Glu Met
1 5 10 15

Gly Pro Cys Trp Ala Leu Arg Ser His Trp Val Asn Ala Leu Arg Asn
20 25 30

<210> 3905
<211> 81
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 3905

Leu Leu Lys Trp Leu Lys Arg Phe Phe Lys Leu Phe Cys Arg Ala Leu
1 5 10 15

Ala Arg Thr Leu Ala Met Cys Trp Arg Trp Asp Phe Asn Phe Ala Arg
20 25 30

Leu Gln His Tyr Gln Glu Ala Arg Arg Thr Phe Val Ala Ser Lys Arg
35 40 45

Ile His Tyr Ala Lys Gly Leu Arg Arg Lys Arg Trp Lys Asp Ile Trp
50 55 60

Ala Lys Leu Leu Arg Glu Tyr Lys Lys Leu Arg Ile Ala Leu Lys Leu
65 70 75 80

Lys

<210> 3906
 <211> 87
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3906

Phe Phe Lys Tyr Phe Lys Lys Leu Tyr Arg Lys Ile Gln Lys Arg Arg
 1 5 10 15

Gly Arg Trp Lys Tyr Leu Lys Arg Val Ala Lys Leu Lys Arg Ala Leu
 20 25 30

Gln Leu Leu Lys Val Lys Arg Gln Tyr His Val Tyr Asp Leu Val Ala
 35 40 45

Gln Arg Arg Ile Ala Ala Lys Val Leu Tyr Val Arg Ser Leu Leu Leu
 50 55 60

Lys Arg Asp Leu Phe Ile Thr Cys Ser Gly Pro Leu Arg Ile Glu Arg
 65 70 75 80

Gln Asp Lys Val Leu Lys Ala
 85

<210> 3907
 <211> 44
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3907

Leu Leu Lys Leu Tyr Pro Lys Leu Leu Lys Lys Tyr Arg Lys Gln His
 1 5 10 15

Arg Arg Leu Ile Glu Leu Lys Leu Ala Leu Ala Ile Arg Ser Ala Ala
 20 25 30

Lys Leu Arg Trp Ala Phe Cys Cys His Ile Cys Cys
 35 40

<210> 3908

<211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3908

Arg Tyr Arg Leu Leu His Arg Phe Trp Arg Lys Trp Arg Thr Leu Asn
 1 5 10 15

Ala Pro Val Leu
 20

<210> 3909
 <211> 48
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3909

Ile Phe Lys Met Leu Lys Lys Met Leu Arg Leu Met Pro Arg Leu Leu
 1 5 10 15

Arg Leu Pro His Ala Arg Met Ala Gly Trp Thr Thr Met Lys Cys Arg
 20 25 30

Lys Cys Gln Gly Lys Arg Arg Arg Leu Leu Tyr Lys Cys Ala Leu Phe
 35 40 45

<210> 3910
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3910

Lys Ile Lys Met Trp Lys Lys Leu Leu Arg Arg Tyr His Thr Ala Phe
 1 5 10 15

Ser Val Leu Ala Leu Arg Ser Leu
 20

<210> 3911

<211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3911

Lys Phe Lys Leu Phe Arg Lys Met Leu Lys Leu Leu Pro Lys Phe Ala
 1 5 10 15

Glu Lys Ser Lys Ala Ala
 20

<210> 3912
 <211> 72
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3912

Ile Trp Lys Phe Phe Lys Arg Phe Phe Lys Arg Leu His Asn Lys Tyr
 1 5 10 15

Ala Lys Thr Asn Arg Leu Lys Leu Ala Leu Gly Phe Pro Ala Arg Leu
 20 25 30

Glu Leu Lys Lys Leu Lys Ala Leu Ala Arg Gly Asp His Arg Met Lys
 35 40 45

His Arg Ala Ala Arg Pro Met Lys Lys Phe Ala Arg Arg Lys Ala Ala
 50 55 60

Leu Asp Leu Cys Lys Met Leu Arg
 65 70

<210> 3913
 <211> 60
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3913

Arg Leu Lys Phe Met Thr Lys Leu Tyr Arg Lys Leu Lys Lys Lys Gln

1 5 10 15

Asn Phe Arg Ala Gly Trp Lys Cys Phe Lys Ile Leu Leu Lys Asp Trp
20 25 30

Gln Arg Ala Ala Ile His Leu Arg Gly Leu Arg Met Ser Lys Arg Gln
35 40 45

Arg Leu Ser Leu Arg Val Leu His Arg Val Thr Leu
50 55 60

<210> 3914
<211> 75
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 3914

Phe Tyr Arg Trp Leu Lys Lys Met Leu Lys Ile Trp Arg Cys His Ala
1 5 10 15

Cys Leu Ser Ala Arg Met Asn Glu Lys Leu Leu Ala Gln Tyr Asp Leu
20 25 30

Lys Lys Lys Thr Thr Ala Lys Arg Val Lys Lys Ala Arg Lys Lys His
35 40 45

Leu Ser Lys Leu Pro Ala Arg Lys Gln Lys Ala Pro Pro His Met Ser
50 55 60

Leu Arg Tyr Leu Ala Lys Cys Ile His Leu Arg
65 70 75

<210> 3915
<211> 41
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 3915

Leu Trp Arg Leu Leu Arg Lys Trp Phe Arg Arg Leu Arg Pro Lys Lys
1 5 10 15

Trp Arg His Asn Leu Met Tyr Ala Leu Arg Ala Cys His Met Lys Gly
 20 25 30

Cys Arg Glu Tyr Leu Lys Ala Arg Leu
 35 40

<210> 3916

<211> 66

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3916

Arg Leu Lys Phe Met His Arg Ile Leu Lys Lys Leu Arg Ser Ile Gln
 1 5 10 15

Lys Leu Gly Pro Asn Ala Cys Leu Glu Leu Trp Leu Trp Ile Ala Ala
 20 25 30

Leu Ala Ala Arg Leu Arg Ser Asn Asp Lys Gln Arg Ser Leu Arg Arg
 35 40 45

Ser Pro Ala Met Leu Glu Arg Arg Ala Lys His Phe Lys Lys Arg Asp
 50 55 60

Leu Leu
 65

<210> 3917

<211> 54

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3917

Lys Leu Lys Phe Leu His Lys Leu Leu Arg Arg Tyr Lys Thr Gln Pro
 1 5 10 15

Ala Met Lys Arg Asp Leu Cys Leu Thr Arg Arg Asn His Lys Ala Asn
 20 25 30

Lys Asn Asp Ala Ala Leu Glu Val Ala Ala Thr Cys Gln Val Arg Leu

35

40

45

Arg Leu Leu Ile Leu Phe
50

<210> 3918
<211> 24
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 3918

Arg Leu Arg Leu Met Cys Arg Leu Trp Lys Leu Tyr Arg Thr Leu Phe
1 5 10 15

Ala Arg Gln Met Arg Asn Lys Leu
20

<210> 3919
<211> 36
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 3919

Leu Leu Arg Leu Trp Arg Arg Ile Trp Arg Ile Ile Arg Lys Glu Ala
1 5 10 15

Leu Val Arg Cys Ala Glu Pro Lys Leu Pro Leu Phe Leu Trp Ala Gly
20 25 30

Leu Arg Thr Lys
35

<210> 3920
<211> 44
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 3920

Trp Leu Arg Ile Leu Arg Arg Phe Met Lys Trp Leu Lys Arg Trp Ala

1 5 10 15

Ala Asn Arg Ile Val Leu Glu His Ile Lys Arg Phe Arg Gln Leu Leu
 20 25 30

Ala Ala Arg Ala Met Trp Gln Arg Leu Val Lys Glu
 35 40

<210> 3921
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3921

Leu Phe Lys Leu Leu Lys Lys Phe Met Lys Arg Met Lys Asn Lys Trp
 1 5 10 15

Leu Ala Ala Leu
 20

<210> 3922
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3922

Leu Leu Lys Tyr Trp Asn Arg Leu Trp Arg Leu Leu Gln Lys Ala Leu
 1 5 10 15

Cys Leu Asp Gly Leu Lys Arg Leu Arg Ala Asp Arg Met Leu Arg Cys
 20 25 30

Arg Ser

<210> 3923
 <211> 85
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3923

Lys Tyr Lys Phe Leu Ser Lys Tyr Phe Lys Lys Trp Lys Gln Lys Leu
 1 5 10 15

Lys Ala Asp Thr Ala Thr Phe Met Asn Arg Arg Val Trp Glu Arg Leu
 20 25 30

Lys Asp Thr Glu Arg Leu Phe Ala Trp Tyr Asn Glu His Ala Arg Thr
 35 40 45

Lys Ala Ala Leu Arg Asp Gly Ala Ala Ala Lys Lys Arg Ala Cys Ala
 50 55 60

Lys Leu Leu Asp Lys Ala Val Lys Arg Glu Met Ala Asn Ala Val Ala
 65 70 75 80

Met Thr Ala Lys Ile
 85

<210> 3924

<211> 43

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3924

Arg Leu Arg Trp Phe Lys Lys Leu Leu Lys Arg Phe His Lys Leu Leu
 1 5 10 15

Leu Leu Asn Ala Ala Tyr Lys Ala Lys Leu Ala Tyr Arg Asp Leu Asn
 20 25 30

Arg Ala Gly Arg Met Ala Asn Thr Ser Gln Val
 35 40

<210> 3925

<211> 53

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3925

Arg Leu Lys Leu Ile Arg Arg Met Phe Lys Lys Tyr Gln Arg Lys Trp
 1 5 10 15

Arg Gly Leu Arg Arg Leu Arg Thr Ala Leu Pro Val Leu Leu Arg Ala
 20 25 30

Thr Val Phe Arg Leu Lys Gln Leu Ala Pro Leu Lys Leu Pro Lys Ala
 35 40 45

Phe Arg Asn Lys Asp
 50

<210> 3926
 <211> 49
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3926

Met Ile Lys Ile Tyr Arg Arg Leu Leu Arg Lys Leu Arg Asn Leu Lys
 1 5 10 15

Asp Ile Lys Arg Asn Gly Thr Arg Ser Glu Cys Ala Ser Leu Arg Ala
 20 25 30

Ala Phe Leu Lys Arg Leu Gly Thr Phe Glu Leu Leu Val Pro Gln Arg
 35 40 45

Arg

<210> 3927
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3927

Arg Ile Lys Phe Leu Thr Lys Leu Tyr Arg Leu Leu Asn His Val Ala
 1 5 10 15

Lys Leu Gly Leu Lys Leu Met Ala Arg Arg Pro Asn Ile Arg Leu Val

20

25

30

<210> 3928

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3928

Leu Tyr Arg Met Leu Lys Arg Tyr Leu Lys Arg Leu Arg Arg Leu Trp
 1 5 10 15

Arg Thr Phe Ala Ile Leu Tyr
 20

<210> 3929

<211> 44

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3929

Leu Leu Arg Leu Phe Lys Lys Phe Tyr Lys Met Met Lys Asn Lys Asn
 1 5 10 15

Pro Leu Met Leu Cys Leu Phe Arg Ala Lys Leu Phe Lys Leu Arg Arg
 20 25 30

Leu Val Lys Asn Lys Leu Ile Thr Met Lys Ser Gly
 35 40

<210> 3930

<211> 43

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3930

Arg Ile Arg Leu Ile Lys Lys Phe Leu Arg Lys Leu Arg Pro Cys Lys
 1 5 10 15

Gly Asn Thr Ala Ala Cys Lys Ser Val Val Lys Arg Leu Pro Asp Ala

20

25

30

Ala Glu Leu Leu Phe Gly Leu Lys Trp Glu Ala
 35 40

<210> 3931
 <211> 41
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3931

Arg Phe Lys Trp Leu Pro Lys Trp Phe Lys Leu Leu Lys His Ala Tyr
 1 5 10 15

Leu Leu Pro Leu Thr Lys Trp Leu Tyr Ala Lys Leu Arg Thr Leu Ile
 20 25 30

Leu Tyr Arg Arg Trp Lys Tyr Lys Gly
 35 40

<210> 3932
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3932

Arg Leu Lys Phe Leu Asn Arg Tyr Met Lys Arg Tyr Asn Arg Cys Tyr
 1 5 10 15

Ala Gly Leu Leu Ala Met Ala Ala Trp Arg Ile Arg Arg Pro Arg Asp
 20 25 30

Lys

<210> 3933
 <211> 59
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3933

Leu Trp Arg Trp Met Ser Arg Phe Phe Arg Lys Met Arg Lys Phe His
 1 5 10 15

Arg Pro Asp Ala Ala Thr Asn Asp Ala Arg His Tyr Ala Ala Ala Ser
 20 25 30

Gln Leu Lys Ala Tyr Leu Asp Lys Gln Ala Leu Arg Lys Pro Cys Arg
 35 40 45

Tyr Cys Arg Lys Lys Ile Ala Ala Ala Ala Ala
 50 55

<210> 3934

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3934

Tyr Trp Arg Trp Leu His Lys Tyr Ile Lys Leu Leu Lys Ser Arg Ile
 1 5 10 15

Arg Cys Leu Ile Tyr Ile Ile Leu Ala Ala Ala Lys His Gly Arg Arg
 20 25 30

Lys Lys Leu Gly Ala Asn Met Ala
 35 40

<210> 3935

<211> 50

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3935

Lys Phe Lys Ile Phe Asn Lys Leu Ile Lys Leu Met Arg Arg Leu Ala
 1 5 10 15

Pro Arg Leu Phe Leu Ile Trp Arg Met Lys Ala Gly Pro Gly Asn Asn
 20 25 30

Arg Val Ala Ala Leu Leu Phe Lys Lys His Arg Arg Gln Leu Glu Ala
 35 40 45

Arg Phe
 50

<210> 3936
 <211> 62
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3936

Leu Phe Lys Leu Phe Ser Lys Met Leu Arg Lys Tyr Lys Lys Lys Val
 1 5 10 15

Lys Ala Lys Gln Leu Phe Asp Arg Ile Ala Arg Arg Phe Ser Leu Glu
 20 25 30

Leu Leu Tyr Phe Cys Leu Ala Tyr Lys Trp His Leu Ala Leu Arg Val
 35 40 45

Ala Tyr Arg Lys Lys Cys Leu Met Asp Thr Leu Ser His Lys
 50 55 60

<210> 3937
 <211> 55
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3937

Lys Leu Arg Phe Phe Lys Lys Tyr Leu Lys Leu Ile Arg Gln Phe Lys
 1 5 10 15

Gln Ile Lys Ser Ala Asn Met Lys Met Cys Arg Lys Arg Ala His Cys
 20 25 30

Arg Leu Tyr Asn Ala Ala Asp Val Leu Ala Ala Ala Gly Arg Ala Lys
 35 40 45

Lys Ala Ala Glu Lys Arg Lys

50

55

<210> 3938

<211> 50

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3938

Arg Trp Arg Trp Met Lys Lys Met Ile Arg Trp Leu Lys Arg Leu Lys
 1 5 10 15

Ala Ala Arg Lys Ile Met Leu Cys Cys Arg Cys Asp Arg His Ser Arg
 20 25 30

Ile Met Leu Leu Leu Lys Ala Val Lys Lys Ser His Leu Ala His Leu
 35 40 45

Ala Lys
 50

<210> 3939

<211> 81

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3939

Arg Phe Lys Leu Leu Pro Lys Phe Leu Lys Arg Ile Asn Lys Trp Thr
 1 5 10 15

Arg Arg Gln Ala Cys Arg Trp Gln Ala Cys Arg Arg Trp Arg Ala Leu
 20 25 30

Ala Ala Leu Lys Tyr Ala Arg Cys Arg Asn Thr Ala Gly Ser Met Tyr
 35 40 45

Ala Ala Glu Gln Leu Leu Lys Val Leu Cys Ser Arg Phe Arg Leu Arg
 50 55 60

Arg Lys Arg Met Lys Val Lys Leu Asp Phe Arg Lys Leu Cys Ser Ala
 65 70 75 80

Thr

<210> 3940
 <211> 71
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3940

Ile Leu Arg Phe Ile Lys Lys Leu Leu Lys Arg Ile Arg Arg Glu Lys
 1 5 10 15

Thr Val Phe Ala Lys Ala Lys Arg Leu Gly Arg Leu Lys Asp Ile Cys
 20 25 30

Asp Lys Ala Lys Gln Cys Leu Thr Thr Glu Leu Lys Lys Ala Ile Gln
 35 40 45

Ala Arg Gly Arg Trp Arg His Ala Thr Ala Asn Trp Trp Ala Pro Leu
 50 55 60

Glu Ala Leu Arg Phe Cys Leu
 65 70

<210> 3941
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3941

Trp Leu Arg Phe Phe Arg Lys Tyr Tyr Arg Leu Trp Arg Thr Leu Arg
 1 5 10 15

Ala Arg Leu Lys Trp Val Arg Ala Leu Gln Ala Gly Leu Val Ala Thr
 20 25 30

<210> 3942
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3942

Lys Leu Lys Met Leu Lys Lys Leu Met Arg Lys Leu Lys Gln Gln Leu
 1 5 10 15

Cys Phe Leu Leu His
 20

<210> 3943

<211> 83

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3943

Lys Phe Lys Leu Leu Thr Arg Tyr Leu Lys Leu Trp Lys Arg Arg Lys
 1 5 10 15

Ala Arg Met Gln Arg Leu Asn Arg Asn Met Lys Ala Thr Ala Ser Gln
 20 25 30

Arg Lys Ala Ala Lys Arg Arg Ala Lys Ile Gly Phe Thr Leu Trp Ala
 35 40 45

Gln Met Val Trp Arg Ser Ala Lys Leu Leu Leu Ser Leu His Ala Thr
 50 55 60

Val Leu Ser Glu Glu Leu Gln Ala Tyr Met Leu Arg Lys Thr Gly Leu
 65 70 75 80

Lys Asn Met

<210> 3944

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3944

Leu Leu Lys Ile Leu Arg Lys Leu Tyr Arg Met Met Lys Pro Leu Ala

1 5 10 15

Ala Lys Arg Thr Ser Trp Lys Ser Trp Leu Val Met Thr Leu Ile Asn
20 25 30

Arg Arg Ala
35

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<210> 3945
<211> 20
<212> PRT
<213> Artificial Sequence
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<220>  
<223> Computer-generated peptide variant
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<400> 3945

Trp Phe Arg Phe Leu Lys Lys Trp Leu Arg Leu Phe Lys Thr Ala Pro
1 5 10 15

Gly Lys Lys Leu
20

<210>	3946
<211>	72
<212>	PRT
<213>	Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 3946

Arg Trp Arg Phe Tyr Arg Lys Leu Leu Lys Lys Leu Asn Ser Ala Leu
1 5 10 15

Asn Gly Trp Asp Leu Gln Arg Leu Ala Val Val Leu Leu Leu Trp Leu
20 25 30

Arg Lys Asn Ala Leu Arg Phe Ser Lys Pro Val Cys Lys Ser Leu Asn
35 40 45

Asp Lys Thr Leu His Arg Arg Leu Phe Asn Ala Ala Lys Ala Lys Arg
50 55 60

Cys Tyr Arg Lys Met Lys Lys Glu
65 70

<210> 3947
 <211> 49
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3947

Arg Trp Arg Ile Met Lys Arg Met Leu Arg Met Met Gln Arg Ile Asp
 1 5 10 15

Lys Val Glu Asn Leu Cys Ile Leu Arg Arg Phe Leu Lys His Trp Ala
 20 25 30

Arg Lys Ala Ala Ala Leu Arg Pro Leu Lys Met Ser Leu Tyr Gly Ala
 35 40 45

Leu

<210> 3948
 <211> 39
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3948

Lys Leu Lys Phe Leu Lys Arg Leu Ile Lys Arg Phe Lys Lys Met Thr
 1 5 10 15

Arg Leu Gly Arg Asp Ala Lys Thr Leu Tyr Cys Glu Lys Leu Ala Ala
 20 25 30

Val Lys Lys Ala Ala Ala Val
 35

<210> 3949
 <211> 54
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3949

Arg Tyr Arg Ile Met Lys Lys Trp Phe Arg Trp Phe Arg Arg Arg Ala
 1 5 10 15

His Ser Leu Ala Ala Ala Leu Asn Lys Arg Leu Gln Ile Phe Lys Arg
 20 25 30

Arg Thr Ala Arg Lys Ser Val Lys Ala Asp Asn Ala Glu Cys Leu Leu
 35 40 45

Lys Lys Glu Gln Leu Tyr
 50

<210> 3950
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3950

Arg Phe Arg Leu Met Gln Arg Ile Leu Lys Leu Leu Cys Arg Ala Trp
 1 5 10 15

Arg His Cys Lys Ala Gly Leu Leu Asn Phe Leu Asn
 20 25

<210> 3951
 <211> 56
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3951

Trp Phe Arg Tyr Met Ser Arg Phe Phe Arg Ile Phe Asn Thr Arg Lys
 1 5 10 15

Lys Ala Lys Leu Ser Leu Arg Lys Leu Lys Arg Ala Ala Lys Ala Lys
 20 25 30

Ser Trp Leu Phe Leu Ser Arg Met Arg Lys Val Leu Ala Arg Tyr Trp
 35 40 45

Ile Pro Ala Glu Glu Gly Arg Leu

50

55

<210> 3952

<211> 67

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3952

Lys Trp Arg Phe Ile Gln Lys Leu Leu Arg Leu Met Lys Cys Glu Arg
 1 5 10 15

Lys Ala Asn Leu Ala Glu Lys Trp Arg Gln Trp Gln Arg Pro Lys Leu
 20 25 30

Tyr Arg Leu Lys Trp Leu Ala Lys Ser Asp His Lys Leu Lys Trp Lys
 35 40 45

Phe Glu Trp Lys Leu Cys Leu Ala Cys Arg Tyr Met Arg Ser Ile Ala
 50 55 60

Ser Ala Ala
 65

<210> 3953

<211> 48

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3953

Lys Phe Lys Leu Leu Lys Arg Trp Tyr Lys Arg Leu Arg Asn Leu Thr
 1 5 10 15

Leu Leu Lys Asn Ala Lys Ala Lys Lys Lys Val Lys Thr Cys Arg Leu
 20 25 30

Ala Arg Val Leu Glu Val His Trp Asn Ala Glu Phe Ser Ser Ile Tyr
 35 40 45

<210> 3954

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3954

Arg Tyr Arg Ile Tyr Arg Arg Leu Leu Arg Met Leu Lys Lys Lys Leu
1 5 10 15

Cys Asp Cys Asp Arg Ala Arg Ala Leu Leu Asn Ala
20 25

<210> 3955

<211> 50

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3955

Arg Phe Arg Phe Met Cys Lys Phe Leu Arg Ile Phe Arg Arg Ala Leu
1 5 10 15

Gly Pro Gly Ala Arg Arg Phe Arg Phe Asp Trp Lys Leu Ala Ala Leu
20 25 30

Ala Thr Leu Ile His Leu Lys Ala Cys Arg Phe Arg Trp Asn Lys Arg
35 40 45

Lys Ala
50

<210> 3956

<211> 60

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3956

Arg Leu Lys Ile Leu Arg Arg Phe Tyr Lys Leu Leu Cys Ser Glu Pro
1 5 10 15

Tyr Lys Leu Met Trp Glu Thr Lys Leu Lys Tyr Tyr Lys Arg Ala Leu
20 25 30

Val Arg Arg Ala Ala Leu Val Ala Met Leu Ala His Phe Ala Ser Lys
 35 40 45

Leu Lys Asn Asn Leu Met Ala Pro Lys Gly Ile Tyr
 50 55 60

<210> 3957

<211> 69

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3957

Lys Ile Arg Leu Trp Arg Arg Tyr Leu Arg Leu Leu Asn Arg Ala His
 1 5 10 15

Ala Leu Arg Arg Leu Phe Lys Thr Thr Lys Leu Ala Val Ser Lys Ala
 20 25 30

Ala Ser Lys Asp Leu Lys Ile Lys Ala Ile Arg Arg Asp Glu Val Lys
 35 40 45

Lys Cys Leu Ala Leu Trp Pro Lys Phe Gly Glu Arg Lys Ile Pro Ala
 50 55 60

Leu Met Ala Leu Phe
 65

<210> 3958

<211> 81

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3958

Arg Met Lys Leu Leu Lys Lys Tyr Phe Lys Lys Phe Cys Arg Trp Leu
 1 5 10 15

Ala Leu Arg Ala Gly Ile Arg Leu Lys Ser Lys Ala Pro Gln His Ser
 20 25 30

Lys Thr Pro Ser Lys Val Trp Asp Leu Ala Cys Arg Asp Ala Arg Glu

35

40

45

Trp Leu Asp Leu Leu Lys Asn Arg Leu Arg Asp Arg His Arg Asp Lys
 50 55 60

Ala His Phe Ala Arg Leu Arg Lys Gln Arg Leu Ile Phe Cys Thr Leu
 65 70 75 80

Asp

<210> 3959

<211> 52

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3959

Lys Phe Arg Met Phe Arg Lys Leu Met Arg Lys Leu Asn Asn Ile Gln
 1 5 10 15

Ala Ala Leu Arg Tyr Ala Ala Thr Arg Ser Lys Trp Ala Leu Ala Arg
 20 25 30

Tyr Leu Ser Ala Ser Lys Ser Phe Arg Asn Lys Ile Lys Leu Met Arg
 35 40 45

Lys Ala Ser Trp
 50

<210> 3960

<211> 60

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3960

Arg Leu Arg Met Phe Arg Arg Tyr Leu Lys Arg Leu Arg Lys Cys His
 1 5 10 15

Pro Lys Gly Thr Asp Lys Pro Leu Tyr Thr Trp Ile Ile Arg Lys Ala
 20 25 30

Ser Asn Lys His Pro Leu Asp Ala Leu Ile Lys Lys Arg Ala Met Lys
 35 40 45

Ser Gln Phe Ile Leu Lys Arg Leu Leu Lys Leu Ala
 50 55 60

<210> 3961
 <211> 46
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3961

Lys Met Lys Phe Leu Arg Lys Trp Phe Arg Leu Leu Lys Lys Gly Asp
 1 5 10 15

Arg Ala Arg Trp Ala Leu Lys Ser Cys Ile Tyr Val Leu Ala Ala Arg
 20 25 30

Thr Ala Ser Arg Lys Asp Trp Lys Leu Thr Lys Asn Ala Met
 35 40 45

<210> 3962
 <211> 54
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3962

Met Phe Lys Phe Ile Lys Lys Trp Ile Lys Lys Tyr Asn Lys Leu Leu
 1 5 10 15

Tyr Cys Phe Arg Leu Ala Ala Leu Ala Ile Leu Arg Ser Gly Phe Ala
 20 25 30

Val Ser Val Ala Arg Leu Ser Lys Asp Lys Leu Arg Arg Lys Cys Leu
 35 40 45

Pro Val Ala Leu Leu Leu
 50

<210> 3963

<211> 69
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3963

Leu Tyr Arg Phe Leu Arg Lys Ile Leu Lys Trp Phe Arg Ser Ala Cys
 1 5 10 15

Met Lys Leu Arg Lys Arg Lys Gly Gln Leu His Val Leu Ser Lys Leu
 20 25 30

Ala Trp His Ile Phe Lys Lys Asp Gly Asn Leu Arg Leu Thr Thr Leu
 35 40 45

Trp Leu Arg Val Leu Ala Val Arg Thr Arg Lys Leu Lys Ile Ala Cys
 50 55 60

Leu Lys Val Trp Lys
 65

<210> 3964
 <211> 87
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3964

Leu Leu Lys Leu Leu Pro Lys Tyr Leu Lys Phe Met Thr Arg Ala Leu
 1 5 10 15

Leu Arg Lys Arg Lys Ser His Leu Arg Val Arg Lys Ala Ala Leu Gln
 20 25 30

Val Ala Arg Arg Thr Arg Asp Arg Met Ile Ala Arg Ala Ala Ser Leu
 35 40 45

Pro Leu Cys Lys Ala Lys Lys Tyr Lys Met Lys Lys Leu Trp Arg Gln
 50 55 60

Lys Lys Met Ala Arg Gly Gln His Leu Ser Leu Trp Lys Phe Lys Ala
 65 70 75 80

Ser Tyr Ala Arg Lys Thr Pro
85

<210> 3965
<211> 68
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 3965

Arg Trp Arg Met Leu Arg Arg Tyr Ile Arg Leu Leu Arg Lys Arg Ala
1 5 10 15

Asn His Lys Ala Ala Lys Pro Leu Glu Trp Asn Arg Gly Asp Asn Tyr
20 25 30

Lys Arg Leu Gly Ala Pro Leu Lys Arg Lys Ser Arg Met Ile Gly Arg
35 40 45

Leu Asp Leu Tyr Tyr Lys Ala Asn Lys Tyr Val Met Asp Leu Lys Pro
50 55 60

Leu Lys Leu Tyr
65

<210> 3966
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 3966

Leu Leu Lys Tyr Phe Lys Arg Ile Tyr Lys Leu Met Ser Lys Lys Arg
1 5 10 15

Glu Ala Gln Trp Arg Arg Arg Gly Leu Leu Asp Asp Ser Ala Met Ala
20 25 30

Pro Ala Thr Ala Thr Arg Ala
35

<210> 3967

<211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3967

Lys Leu Lys Leu Leu Cys Arg Leu Trp Arg Lys Tyr Asn Gln Lys Arg
 1 5 10 15

Leu Phe Tyr Asp Gly Met Asn Ala Ala Arg Trp Lys Met
 20 25

<210> 3968
 <211> 57
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3968

Phe Leu Arg Leu Leu Lys Lys Leu Phe Arg Phe Phe Lys Lys Ala Gly
 1 5 10 15

Lys Leu Lys Trp Asn Thr Arg Arg Cys Gly Tyr Lys Leu His Asp Leu
 20 25 30

Glu Pro Val Lys Lys Arg Arg Phe Ala Tyr Ala Gly Leu Arg Arg Met
 35 40 45

Ile Glu Lys Ala Val Leu Ile Leu Ser
 50 55

<210> 3969
 <211> 75
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3969

Leu Tyr Lys Phe Leu Arg Arg Leu Trp Arg Phe Leu Lys Ser Pro Ala
 1 5 10 15

Ser Ala Val Lys Gly Thr Arg Ile Asp Ile Leu Lys Leu Arg Lys Arg

20

25

30

Arg Leu Arg Arg Asp Val Arg Arg Lys Arg Glu Asp Gln Gln Ala Leu
 35 40 45

Gln Met Leu Ala Lys His Ala Ile Thr Arg Cys Arg Ser Met Ala Leu
 50 55 60

Leu Leu Asn Lys Ile Gly Ile Gly Ala Arg Phe
 65 70 75

<210> 3970

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3970

Met Met Arg Met Leu Arg Arg Met Leu Arg Arg Leu Gln Arg Met Lys
 1 5 10 15

Leu Val Ala Cys
 20

<210> 3971

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3971

Leu Leu Arg Leu Leu Arg Arg Leu Ile Arg Arg Trp Ser Gln Lys Pro
 1 5 10 15

Thr Arg Leu Ile His Gln Met
 20

<210> 3972

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3972

Lys Leu Arg Leu Leu Thr Lys Met Leu Arg Arg Tyr Lys Thr Ser Ala
1 5 10 15

Asp Leu Phe Tyr His Arg
20

<210> 3973

<211> 67

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3973

Arg Met Lys Tyr Phe Cys Arg Leu Phe Lys Ile Ile Arg Arg Gly Lys
1 5 10 15

Trp Asp Ile Leu Asn Lys Phe Cys Ser Ser Arg His Lys Asn Ala Lys
20 25 30

Asn Ala Leu Ile Asn Arg Arg Leu Arg Asp Lys Lys Ala Arg Leu Ile
35 40 45

Met Arg Tyr Ala Phe Lys Ala Leu Met Ala Leu Arg Ala Asp Lys Ala
50 55 60

Trp Ile Ala
65

<210> 3974

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3974

Lys Leu Arg Phe Tyr Thr Arg Tyr Met Arg Phe Leu Arg Arg Thr Leu
1 5 10 15

Lys Leu Ala Lys Ala Ala Arg
20

<210> 3975
 <211> 44
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3975

Phe Met Arg Leu Met Arg Lys Leu Leu Arg Met Leu Arg Thr Lys His
 1 5 10 15

Ala Ala His Lys Leu Asn Asp Leu Lys Leu Glu Lys Thr Cys Arg Ala
 20 25 30

Trp Ile Leu Ala Arg Asp Leu Ala Pro Tyr Met Gln
 35 40

<210> 3976
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3976

Met Met Lys Leu Trp Lys Lys Trp Leu Arg Leu Leu Lys His Lys Val
 1 5 10 15

Ala Ser Leu Tyr Pro Glu Ala Ala
 20

<210> 3977
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3977

Leu Phe Lys Ile Leu Ser Lys Tyr Leu Arg Arg Leu Ser Ser Ala Glu
 1 5 10 15

Cys Ile Ile Phe Ala Lys Ala Ala Val Arg Ala Arg Leu Lys Cys Asp
 20 25 30

<210> 3978
 <211> 53
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3978

Trp Met Arg Tyr Leu Lys Lys Met Leu Arg Arg Leu Gln Arg His Lys
 1 5 10 15

Pro Ser Arg Met Pro Arg Trp Leu Arg His Phe Ala Lys Asn Gln Ala
 20 25 30

Asn Tyr Lys Lys Arg Leu Gln Lys Gln Gln Ala Ala Ala Met Ala Lys
 35 40 45

Arg Cys Arg Ala Leu
 50

<210> 3979
 <211> 58
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3979

Arg Leu Arg Phe Met Thr Lys Trp Tyr Lys Lys Leu Arg Ser Val Ala
 1 5 10 15

Ala Ala Arg Arg Ala Val His Ala Arg Ala Pro Val Lys Gly Leu Ala
 20 25 30

Ala Ile Cys Met Arg Arg Lys Thr Asp Ala Gly Leu Lys Arg Arg His
 35 40 45

Gln His Ala His Ala Leu Trp Ala Gly Leu
 50 55

<210> 3980
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3980

Trp Leu Lys Phe Leu Lys Lys Tyr Trp Lys Arg Leu Lys Arg Ala Leu
 1 5 10 15

Ser Phe Lys His Phe Ala Asp
 20

<210> 3981

<211> 91

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3981

Phe Leu Lys Leu Leu Thr Lys Trp Phe Arg Trp Trp Pro Thr Val Pro
 1 5 10 15

Lys Arg Leu Asn Ile Arg Arg Pro Lys Lys Asn Leu Arg Ala His Arg
 20 25 30

Leu Ile Ile Lys Gly Gly Ala Gln Arg Leu Lys Arg Lys Leu Arg Glu
 35 40 45

Lys Leu Leu Leu Glu Pro Glu Leu Ala Ala Asn Ala Arg Lys His Lys
 50 55 60

His Gln Leu Leu Ile Lys Ala Ala Ala Tyr Glu Lys Thr Leu Ala Lys
 65 70 75 80

Leu Lys Asp Asp Lys Ser Ile Phe Asn Val Glu
 85 90

<210> 3982

<211> 51

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3982

Arg Leu Lys Phe Leu Pro Lys Tyr Tyr Arg Lys Phe Thr Lys Ala Ala

1 5 10 15

Gly Ala Leu Val Arg Cys Ala His Trp Leu Phe Ile Cys Val Ala Lys
 20 25 30

Leu Ser Lys Leu Arg Lys Met Lys Arg Asp Trp Gln Arg Lys Leu Lys
 35 40 45

Cys Ala Lys
 50

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<210> 3983
<211> 48
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 3983
```

Lys	Trp	Lys	Leu	Trp	Lys	Lys	Phe	Leu	Arg	Lys	Leu	Lys	Cys	Ala	Leu
1				5					10					15	
Glu	Arg	Asn	Asn	Arg	Leu	Arg	Leu	Leu	Lys	Arg	Met	Ser	Leu	Leu	Ala
			20					25					30		
Asp	Ser	Asp	Ala	Thr	His	Ile	Arg	Lys	Leu	Arg	Arg	Leu	Lys	Arg	Trp
		35					40					45			

<210>	3984
<211>	27
<212>	PRT
<213>	Artificial Sequence
<220>	
<223>	Computer-generated peptide variant
<400>	3984

Lys Trp Lys Leu Tyr Pro Arg Leu Tyr Arg Arg Trp Cys Arg Leu Arg
1 5 10 15

Ala Ala Met Ala Leu Arg Ala His Leu Tyr Lys
20 25

$\langle 210 \rangle$	3985
$\langle 211 \rangle$	61
$\langle 212 \rangle$	PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3985

Lys Leu Lys Leu Leu Lys Arg Tyr Leu Arg Lys Tyr Lys Arg Met Lys
1 5 10 15

Leu Val Arg Ala Lys Ala Leu Gly Ala Arg Ala Ala Leu Pro Leu Ser
20 25 30

Asn Arg Met Arg Ala Ala His Leu Cys Leu Arg Met Lys Ser Asn Ala
35 40 45

Met Lys Leu Leu Thr Ala Met Arg Thr Glu Trp Leu Ile
50 55 60

<210> 3986

<211> 95

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3986

Arg Met Arg Leu Tyr Thr Arg Met Tyr Lys Leu Leu His Arg Ile Ala
1 5 10 15

Val His Phe Gly Asn Met Lys Arg Phe Leu Lys Tyr Ala Arg Arg Leu
20 25 30

Gly Arg Ala Lys Ala His Met Leu Leu Leu Val Pro Lys Met Leu Ala
35 40 45

Arg Arg Leu Leu Gln Pro Val Lys Lys His Asp Arg Met Gly Thr Lys
50 55 60

Arg Phe Leu Thr Arg Ala Leu Lys Lys Ala His Lys Val Phe Asn Leu
65 70 75 80

Ile Ala Arg Gly Ala Arg Asp Tyr Arg Arg Thr Leu Val Ala Ala
85 90 95

<210> 3987

<211> 70
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3987

Arg Tyr Arg Trp Tyr Arg Lys Phe Leu Lys Lys Leu Arg Cys Gln Ser
 1 5 10 15

Ala Met Lys Leu Leu Arg Lys Gly Arg Ala Cys Ala His Lys Pro Ala
 20 25 30

Leu Ala Leu Leu Met Lys Met Ala His Val Arg Val Lys Arg Glu Lys
 35 40 45

Arg Arg Val Cys Arg Leu Asp Arg Asn Asn Met Ala His Gly Leu Ser
 50 55 60

Ser Lys Gln Asp Arg Leu
 65 70

<210> 3988
 <211> 54
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3988

Met Met Arg Ile Phe Arg Arg Ile Leu Arg Lys Tyr Lys Lys Leu Ala
 1 5 10 15

Cys Thr Lys Leu Trp Ile Leu Ala Met Arg Thr Ala His Leu Val Lys
 20 25 30

Thr Ala Arg Leu Leu His Ala His Ala Arg Asp Ser Ile Trp Arg Met
 35 40 45

Gly Ile Arg Ala Ala Ala
 50

<210> 3989
 <211> 21
 <212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3989

Lys Leu Lys Leu Leu Arg Arg Met Tyr Arg Arg Leu Arg Lys Leu Ile
1 5 10 15

Leu Ser Trp Asp Gln
20

<210> 3990

<211> 88

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3990

Arg Tyr Arg Leu Tyr Lys Arg Leu Phe Lys Arg Phe Gln Thr Leu Tyr
1 5 10 15

Lys Arg Pro Ala Leu Trp Ala Lys His Phe Pro Cys Leu Ala Ile Val
20 25 30

Cys Met Asp Lys Ala Gly Leu Ala Lys Trp Lys Lys Trp Ala Lys Lys
35 40 45

Leu Trp Ala Lys Leu Ala Met Arg Pro Leu Trp Arg Arg Arg Leu Phe
50 55 60

Ala Ala Leu Ala Arg Met Lys Leu Ile Ser Ile Gln Ser Leu Ile Arg
65 70 75 80

Gly Asp Trp Lys Arg Glu Leu Arg
85

<210> 3991

<211> 41

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3991

Arg Met Arg Leu Trp Arg Lys Leu Phe Lys Phe Trp Ser Cys Leu Lys
 1 5 10 15

Pro Ala Leu Thr Glu Lys Asp Ala Ala Arg Lys Asn Met Lys Gln Lys
 20 25 30

Leu Cys Gly Ala Ala Arg Lys Lys Val
 35 40

<210> 3992

<211> 51

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3992

Lys Leu Lys Leu Trp Arg Lys Met Leu Lys Met Met Gln Arg Lys His
 1 5 10 15

His Ala Val Trp Ala Thr Ala Asn Arg Gln Lys Leu Pro Leu His Ser
 20 25 30

Ala Leu Arg Gln Val Leu Arg Arg Lys Ala Lys His Ala Thr Cys Lys
 35 40 45

Lys Arg Tyr
 50

<210> 3993

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 3993

Phe Leu Lys Leu Phe Ser Arg Leu Leu Lys Leu Leu Lys Arg Leu Ser
 1 5 10 15

Lys Thr Asp Leu Gln Gln Trp Lys Arg Leu Ile Ala Pro Thr Ala Leu
 20 25 30

Arg Met

<210> 3994
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3994

Ile Phe Lys Phe Leu His Arg Trp Phe Lys Lys Leu Arg Gln Thr Lys
 1 5 10 15

Leu Arg Arg Ile Thr Ala Ala Arg Thr Pro Leu Ala Lys Val Ala Asn
 20 25 30

Ala Ala Ser
 35

<210> 3995
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3995

Leu Trp Lys Leu Trp Arg Lys Leu Phe Lys Leu Ile Lys Lys His His
 1 5 10 15

Ala Arg Ala Gly Lys Glu
 20

<210> 3996
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3996

Lys Ile Lys Tyr Met Gln Arg Leu Met Arg Lys Leu Arg Arg Tyr Ala
 1 5 10 15

Leu Lys Trp Cys Ser Leu Asp Ala Phe Ala Val Ala Leu

20

25

<210> 3997
 <211> 63
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3997

Lys Phe Lys Ile Leu Lys Arg Phe Leu Arg Leu Ile Lys Arg Trp Gly
 1 5 10 15

Thr Lys Lys Asp Lys Leu Phe Asp Pro Glu Ala Pro Arg Lys Leu Ser
 20 25 30

Leu Ala Val Glu Phe Glu Pro Arg Ala Arg Ala Leu Arg Arg Tyr Ile
 35 40 45

Arg Asn Thr Leu Pro Leu Lys Leu Ala Cys Pro Met Ala Arg Phe
 50 55 60

<210> 3998
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3998

Met Leu Lys Phe Leu Arg Arg Leu Ile Lys Ile Leu Ser Asn Cys Ala
 1 5 10 15

His Leu Ala Arg Ala Phe Gln Lys Lys Ala Ala Leu Asp Ala His His
 20 25 30

Lys Lys

<210> 3999
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 3999

Arg Trp Arg Leu Leu Lys Arg Phe Met Lys Lys Trp Asn Arg Ile Lys
1 5 10 15

Cys Asn Arg Leu Lys Trp Lys Pro Phe Ala His Cys Lys Tyr Ser Ala
20 25 30

Leu Leu Ala Ala
35

<210> 4000

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4000

Phe Leu Arg Leu Phe Ser Arg Leu Ile Arg Leu Leu Gln His Leu Lys
1 5 10 15

Ala Pro Ala Arg Cys Gly Lys Lys Arg Arg Gly Val Gly Lys Trp Cys
20 25 30

<210> 4001

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4001

Leu Leu Arg Leu Phe Pro Arg Leu Phe Arg Arg Trp Arg Arg Ala Lys
1 5 10 15

Ala Leu Ala Asp Lys Arg Leu His Cys
20 25

<210> 4002

<211> 43

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4002

Met Phe Lys Phe Leu Lys Lys Trp Leu Arg Leu Met Arg Lys Ser Leu
1 5 10 15

Ala Tyr Gln Gln Glu Ala Gln Leu Leu Phe Ala Arg Pro Arg Cys Ala
20 25 30

Lys Leu Thr Lys Lys Ala Pro Lys Asp Lys Leu
35 40

<210> 4003

<211> 52

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4003

Lys Leu Lys Met Leu Lys Lys Leu Leu Lys Arg Phe Arg Asn Phe Lys
1 5 10 15

Val Ile Arg Glu Tyr Ser His Glu Arg Ala Ala Gln Thr Arg Leu Leu
20 25 30

Ala Lys Ala Cys Met Glu Lys Ala Ser Ala Lys Phe Thr Cys Gly His
35 40 45

Leu Ile Ala Lys
50

<210> 4004

<211> 41

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4004

Arg Tyr Arg Phe Leu Lys Lys Met Leu Lys Arg Met Arg Lys Ala Leu
1 5 10 15

Leu Ala Asp Arg Glu Gly Leu Pro Asp Ala Ser Met Ala Phe Ala Gly
20 25 30

Leu Met Cys Ser Tyr Ala Leu Arg His
 35 40

<210> 4005
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4005

Lys Leu Lys Leu Leu Gln Arg Phe Leu Lys Leu Leu Pro Asn Trp Lys
 1 5 10 15

Ala Arg Met Val Arg Lys Thr Leu Ser
 20 25

<210> 4006
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4006

Lys Tyr Arg Met Leu His Arg Leu Trp Arg Leu Phe Ser Lys Asn Gln
 1 5 10 15

Ala Leu Ala Ala Lys Cys Val Pro Arg Ala Ala His Phe Glu Lys Met
 20 25 30

Lys Gly Leu Arg
 35

<210> 4007
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4007

Leu Leu Lys Tyr Trp Lys Lys Phe Tyr Arg Arg Tyr Arg Lys Leu Asp
 1 5 10 15

Tyr Gln Ala Met Leu
20

<210> 4008
<211> 83
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 4008

Lys Trp Arg Leu Leu Lys Arg Met Trp Lys Arg Phe Lys Arg Asn Ala
1 5 10 15

Arg Lys Ser Arg Ala Lys Ala Leu Lys Glu Leu His Ala Ala Lys Ser
20 25 30

Arg Lys Leu Asp Asn Tyr Leu Gly Trp Phe Leu Arg Val Lys Lys Val
35 40 45

Trp Leu Arg Ala Thr Phe Lys Lys Arg His Met Gly Lys Asn Pro Ala
50 55 60

Ile Arg Asn Val His Gln His Ser Ala Gln Arg Trp Asp Leu Lys Cys
65 70 75 80

Asn Ala Ala

<210> 4009
<211> 24
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 4009

Arg Leu Lys Leu Trp Arg Lys Met Phe Lys Phe Phe Arg Lys Ala Asn
1 5 10 15

Ala Leu Ser Ala Gly Glu Ala Cys
20

<210> 4010

<211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4010

Lys Leu Arg Leu Ile Ser Arg Trp Tyr Lys Arg Ile Arg Ser Pro Glu
 1 5 10 15

Ala Leu Leu Arg Ala Tyr
 20

<210> 4011
 <211> 27
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4011

Lys Trp Lys Leu Tyr Cys Arg Leu Leu Arg Lys Ile Lys Pro Trp Ser
 1 5 10 15

Tyr Arg Ala Leu Leu Arg Leu Lys Pro Ala Lys
 20 25

<210> 4012
 <211> 85
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4012

Lys Leu Arg Met Tyr His Lys Leu Met Lys Tyr Leu Asn Thr Ala Leu
 1 5 10 15

Lys Lys Gln Ala Arg Leu Asn Leu Leu Thr Leu Glu Met Lys Glu Val
 20 25 30

Leu Arg Gly Leu Ala Lys Arg Arg Leu Ala Leu Ala Ala Val Phe Trp
 35 40 45

Asn Ala His Cys Val Leu Thr Lys Gln Ala Cys Gly Tyr Leu Ala Arg


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<210> 4014
<211> 67
<212> PRT
<213> Artificial Sequence
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<220>
<223> Computer-generated peptide variant

<400> 4014

Lys Leu Lys Leu Leu Arg Arg Phe Phe Lys Phe Ile Lys Lys Phe Arg
1 5 10 15

Gln Ala Arg Gly Leu Lys Ala Trp Lys Leu Ala Leu Lys Leu Ala Asn
 20 25 30

Lys Met Arg Glu Arg Glu Phe Asn Gly Phe Lys Gly Leu Ser Phe Asn
 35 40 45

Arg Pro Gly Leu Met Val Asn Leu His Lys Tyr Arg Leu Ala Asn Ala
 50 55 60

Thr Trp Arg
 65

<210> 4015
 <211> 46
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4015

Leu Phe Arg Leu Leu Arg Lys Leu Phe Arg Lys Met Lys Lys Lys Phe
 1 5 10 15

Asn Lys Met Ala Ala Thr Trp Asp Asn Leu Leu Gly Gly Pro Leu Arg
 20 25 30

Lys Lys Ala Ala Ser Arg Ala Leu Lys Ile Ala Arg Asp Asp
 35 40 45

<210> 4016
 <211> 37
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4016

Phe Leu Lys Trp Tyr Lys Lys Trp Trp Arg Trp Leu Arg His Leu Arg
 1 5 10 15

Tyr Lys Arg Phe Ala Ala Leu Ile Lys Lys Leu Thr Leu Cys Leu Leu
 20 25 30

Ser Lys Lys Asp Asn

35

<210> 4017
 <211> 58
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4017

Lys Leu Lys Tyr Leu Pro Lys Leu Met Arg Arg Phe Asn His Ile Arg
 1 5 10 15

Lys Ala Arg Arg Leu Leu Ala Asn Lys Leu Ala Ala Arg Cys Asn Cys
 20 25 30

Met Tyr Arg Lys Leu Glu Lys Gln Val Ala Lys Gly Glu Lys Thr Lys
 35 40 45

Tyr Thr Gly Met Gly Leu Ile Lys Leu Cys
 50 55

<210> 4018
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4018

Lys Tyr Lys Trp Phe His Arg Trp Leu Arg Lys Leu Ser Ser Arg Lys
 1 5 10 15

Leu Gly Arg Leu Ala Pro Ser Leu Arg His Leu Gln Leu Gly Ala Arg
 20 25 30

Ile Ala Ala Ala His Asp Gly Pro
 35 40

<210> 4019
 <211> 37
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4019

Lys Tyr Lys Trp Leu Arg Arg Leu Leu Arg Leu Phe Cys Lys Ile Phe
1 5 10 15

Met Met Arg Glu Ser Arg Lys Gln Leu Ala Lys Arg Ala Gln Gly Glu
20 25 30

Ala Ala Val Tyr Ala
35

<210> 4020

<211> 58

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4020

Met Phe Lys Leu Met Thr Arg Tyr Ile Arg Lys Leu Lys Cys Asp Lys
1 5 10 15

Asn Gln Lys Leu Ala Cys Asp Val Lys Ala Val Arg Leu Lys Gly Asp
20 25 30

Ala Ile Gly Ala Phe Lys Val Pro Leu Ala Thr Ala Arg Leu Arg Ala
35 40 45

Ala Ala Phe Asp Arg Ala Trp Lys His Leu
50 55

<210> 4021

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4021

Lys Leu Lys Leu Leu Lys Arg Ile Leu Lys Arg Leu Pro Arg Lys Leu
1 5 10 15

Ala Lys Thr Ala Asn Cys Glu Phe Gln Phe Arg
20 25

<210> 4022
 <211> 26
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4022

Lys Trp Lys Phe Phe Ser Arg Leu Leu Arg Met Ile Lys Cys Thr Leu
 1 5 10 15

Leu Lys Ala Arg Ala Asn Ala Asn Lys Val
 20 25

<210> 4023
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4023

Lys Trp Lys Ile Trp Arg Arg Leu Trp Arg Phe Phe Lys Lys Arg Lys
 1 5 10 15

Arg Ala Tyr Arg His Lys Ala Ala Tyr Ala Ala Leu His Met Gly Pro
 20 25 30

Gly Trp Leu Leu
 35

<210> 4024
 <211> 39
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4024

Met Trp Arg Leu Trp Lys Arg Met Tyr Arg Leu Trp Lys Arg Leu Pro
 1 5 10 15

Phe Arg Ala Asp Trp Lys Ala Arg Ser Leu Trp Pro Lys Val Arg Leu
 20 25 30

Phe Ser Lys Ala Leu Leu Ala
35

<210> 4025
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 4025

Leu Tyr Arg Leu Ile Gln Lys Tyr Leu Lys Phe Leu Arg Lys Ala Arg
1 5 10 15

Cys Ala Lys Phe Gly Gly Arg Cys Lys Asp Ala
20 25

<210> 4026
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 4026

Leu Tyr Lys Met Met Arg Arg Leu Met Arg Leu Leu Asn Lys Arg Gln
1 5 10 15

Leu Trp Met Tyr
20

<210> 4027
<211> 44
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 4027

Arg Leu Lys Leu Trp Ser Lys Leu Ile Lys Arg Trp Pro Arg His Gly
1 5 10 15

Cys Gly Leu Cys Gln Arg Ala Ala Phe Leu Lys Ala Leu Lys Ala Lys
20 25 30

Ser Glu Ala Arg Lys Cys Leu Phe Gln Trp Lys Asn
 35 40

<210> 4028
 <211> 43
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4028

Tyr Tyr Arg Met Phe Lys Arg Phe Ile Arg Arg Ile Ser Lys Lys Tyr
 1 5 10 15

Cys Arg Glu Leu Arg Lys Trp Leu Ile Ala Pro Leu Leu Asp Leu Pro
 20 25 30

Gln Pro Ala Leu Leu Leu Lys Lys Arg Leu Tyr
 35 40

<210> 4029
 <211> 45
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4029

Arg Tyr Arg Met Leu His Arg Met Leu Arg Arg Met Arg His Leu Leu
 1 5 10 15

Lys Lys Val Asp Asp Arg Pro Arg Arg Ala Ala Gln Gly Lys Leu Tyr
 20 25 30

Leu His His Trp Ala Glu Ala Leu Tyr Arg Leu Leu Arg
 35 40 45

<210> 4030
 <211> 41
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4030

Leu Ile Lys Leu Tyr Arg Lys Tyr Met Lys Leu Met Lys Pro Leu Arg
 1 5 10 15

Thr Phe Ser Arg Asn Thr Leu Glu Leu Ser Tyr Leu Leu Thr Asn Tyr
 20 25 30

Ala Leu Lys Arg Lys Arg Ala Trp Arg
 35 40

<210> 4031
 <211> 46
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4031

Arg Phe Arg Tyr Phe Lys Lys Trp Leu Arg Ile Phe Cys Pro Trp Leu
 1 5 10 15

Arg Leu Asp Arg Leu Ala Lys Arg Ala Ala Lys Tyr Lys Thr Lys Met
 20 25 30

Ala Ile Asn Lys Phe Leu Arg Arg Ala Phe Ala Gln Leu Ile
 35 40 45

<210> 4032
 <211> 67
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4032

Ile Met Arg Leu Leu Lys Lys Phe Ile Lys Arg Ile Arg Cys His Ala
 1 5 10 15

Met His Phe Arg Arg Tyr Lys Leu Lys Leu Gly Ala Arg Gln Leu Lys
 20 25 30

Ser Leu Gln Asn Arg Ala Ala Leu Gly Leu Ala Ala Tyr Leu Arg Leu
 35 40 45

Leu Leu Cys Gly Glu Cys Lys Leu Ser Ala Arg Asp Arg Asp Arg Gly

50

55

60

Phe Ile Arg
65

<210> 4033
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 4033

Ile Leu Lys Ile Ile Lys Arg Leu Trp Lys Leu Leu Lys Gln Met Arg
1 5 10 15

Cys Ala Ser Asn
20

<210> 4034
<211> 87
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 4034

Lys Phe Lys Leu Met Lys Arg Met Met Lys Lys Trp Lys Lys Arg Ala
1 5 10 15

Lys Leu Met Ala Met Ala Asn Arg Ala Asn Ala Phe Cys Ala Ala Ser
20 25 30

Ala Arg Ala Ile Phe Tyr Leu Leu Ile Trp Gly Ile Phe Arg Leu Leu
35 40 45

Val Gly Arg Arg Ala Glu Lys Phe Leu Ala Lys Cys His Val Arg Lys
50 55 60

Asn Leu Tyr Arg Gln Leu Leu Leu Ile Val Arg Val Lys Ala Arg Leu
65 70 75 80

Leu Ile Trp Ala Arg Gly Cys
85

<210> 4035
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4035

Arg Trp Lys Leu Leu Pro Arg Phe Trp Arg Lys Tyr Arg Thr Asp Leu
 1 5 10 15

Leu Ala Val Tyr Gln Arg Leu Ala Lys
 20 25

<210> 4036
 <211> 85
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4036

Tyr Trp Arg Tyr Tyr Cys Arg Phe Trp Arg Lys Phe Lys Lys Val Leu
 1 5 10 15

Asn Lys Leu Arg Arg Ala Thr Thr Met Lys Trp Leu Cys Leu Asn Ala
 20 25 30

Phe Arg Ser Trp Asp Arg Trp Glu Gly His Arg Leu Arg Ala Arg Gly
 35 40 45

Leu Trp Leu Ala Leu Tyr Ala Ala Lys Leu Arg Lys Arg Thr Ala Trp
 50 55 60

Lys Lys Ala Ala Ala Cys Ser Arg Lys Cys Phe Ser Met Lys Lys Val
 65 70 75 80

Leu Phe Thr Lys Lys
 85

<210> 4037
 <211> 39
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4037

Arg	Met	Arg	Ile	Leu	Lys	Arg	Ile	Ile	Arg	Lys	Phe	Arg	Ser	Leu	Leu
1				5					10					15	

Ala	His	Ala	Ala	Ala	Lys	Arg	Arg	Tyr	Asp	Arg	Ala	Arg	Pro	His	Asn
			20					25					30		

Leu	Pro	Phe	Ala	Leu	Leu	Lys
						35

<210> 4038

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4038

Lys	Leu	Lys	Leu	Phe	Ser	Arg	Met	Leu	Arg	Leu	Trp	Cys	Arg	Gln	Tyr
1				5					10					15	

Leu	Leu	Arg	Glu	Ser	Arg
					20

<210> 4039

<211> 51

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4039

Lys	Leu	Lys	Ile	Ile	Arg	Lys	Phe	Leu	Arg	Leu	Ile	Asn	Arg	Ala	Gln
1				5					10					15	

Ala	Arg	Ala	Gly	Lys	Gln	Met	Asp	Ala	Gln	Ile	Arg	Ala	Arg	Val	Arg
			20					25					30		

Leu	Pro	Glu	Arg	Ala	Met	Ala	Asn	Pro	Ser	Arg	Pro	His	Ala	Lys	Lys
							40					45			

Ala	Trp	Leu
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50

<210> 4040
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4040

Arg Leu Lys Phe Tyr Arg Arg Tyr Ile Lys Arg Leu Arg Lys His Ile
 1 5 10 15

Arg Leu Trp Ile Leu Asn Lys Leu Ala Phe Leu Ala Tyr Thr Leu Pro
 20 25 30

Thr

<210> 4041
 <211> 47
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4041

Tyr Ile Lys Ile Leu Gln Lys Tyr Ile Arg Leu Leu Lys Pro His Ala
 1 5 10 15

Lys Leu Ala Ala Lys Phe Leu Lys Trp Arg Asp Trp Ala Gly Ile Leu
 20 25 30

Leu Leu Arg Ser Arg Ser Arg Met Lys Phe Arg Arg Met Lys Arg
 35 40 45

<210> 4042
 <211> 39
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4042

Lys Leu Lys Leu Leu Lys Lys Phe Phe Arg Arg Leu Thr Lys Asp Lys

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<210> 4043
<211> 43
<212> PRT
<213> Artificial Sequence
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<220>
<223> Computer-generated peptide variant

Arg Ile Arg Leu Met Lys Lys Leu Leu Lys Arg Phe Gln Asn Lys Val
1 5 10 15

Cys Arg Ser Trp His Ala Leu Lys Gly Ala Ser Lys Asp Ala Cys Arg
20 25 30

Gly Leu Cys His Arg Leu Tyr Ala Ala Lys Arg
35 40

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<210> 4044
<211> 81
<212> PRT
<213> Artificial Sequence
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<220>
<223> Computer-generated peptide variant

<400> 4044

Phe Leu Arg Tyr Met Lys Lys Met Trp Lys Lys Leu Thr His Lys Lys
1 5 10 15

Thr Leu Asp Lys Tyr Trp Ala Ser Thr Arg Ala Arg Asn Gln Lys Leu
20 25 30

Leu Tyr Leu Lys Asp Arg Arg Gly Thr Gln Lys Arg Leu Pro Glu Ala
35 40 45

Lys Arg Leu Arg Leu Ala Arg Lys Phe Asp Ala Leu Ser Lys Leu Val
50 55 60

Pro Thr Glu Asn Ala Arg Asp Lys Leu Arg Lys Ile Leu Lys Ile Gln
 65 70 75 80

Asp

<210> 4045
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4045

Lys Leu Lys Trp Trp Arg Lys Leu Phe Lys Lys Leu Thr Lys Cys Leu
 1 5 10 15

Lys Leu Glu Ala Leu Leu Val Arg Cys Asp Ala Arg Lys Asp
 20 25 30

<210> 4046
 <211> 59
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4046

Phe Met Lys Leu Tyr Cys Arg Leu Trp Lys Lys Met Thr Ser Arg Arg
 1 5 10 15

Arg Ala Arg Tyr Leu Ala Ala Leu Ala Ile Leu Leu Lys Phe Pro Lys
 20 25 30

Met Thr Glu Ser Ser Ser Arg Pro Lys Lys Trp Trp Met Trp Ala Leu
 35 40 45

Leu Cys Phe Arg Arg Lys Asp Leu Lys Lys Lys
 50 55

<210> 4047
 <211> 85
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4047

Lys	Trp	Arg	Phe	Leu	Cys	Lys	Met	Ile	Arg	Leu	Ile	Arg	Ser	Ala	Phe
1				5					10					15	

Lys	Ala	Leu	Ala	Arg	Asn	Lys	Ser	Lys	Lys	Cys	Leu	Gln	Tyr	Ala	Lys
			20					25					30		

Leu	Ala	Arg	Asn	Gln	Lys	Thr	Asp	Leu	Ala	Phe	Arg	Ala	Arg	Leu	Leu
		35					40					45			

Tyr	Arg	Leu	Lys	Pro	Leu	Thr	Ala	Ala	Met	Lys	Lys	His	Lys	Lys	Met
	50					55					60				

Asp	Cys	Asn	Arg	Glu	Arg	Val	Ile	Cys	Arg	Cys	Ala	Asn	Asp	Lys	Phe
65					70					75					80

Ile	Ala	Ala	Arg	Arg
				85

<210> 4048

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4048

Leu	Tyr	Arg	Met	Tyr	Pro	Arg	Leu	Leu	Arg	Ile	Phe	Thr	Arg	Lys	Leu
1				5					10					15	

Met	Lys	His	Asp	Leu	Ala	Lys	Gly	Ala	Pro	Arg	Leu	Ala	Lys	Glu	Lys
			20				25						30		

Cys	Leu	Arg	Met	Trp	Gly	Lys	Lys
		35				40	

<210> 4049

<211> 73

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4049

Leu Leu Arg Ile Ile Lys Arg Trp Ile Arg Lys Ile Lys Asn Lys Ser
1 5 10 15

Ala Leu Lys Arg Val Cys Val Ala Ala Lys Ser Ala Leu Met Arg Asn
20 25 30

Ala Ala Ile Lys Leu Leu Met Leu Cys Asp Lys Arg Ile Ile Arg Lys
35 40 45

Asp Arg Pro Tyr Arg Tyr Tyr Cys Leu His Ser His Cys Leu Arg His
50 55 60

Ala Arg Ser Lys Ala Lys Leu Leu Arg
65 70

<210> 4050

<211> 38

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4050

Met Phe Lys Met Leu Asn Lys Phe Leu Lys Arg Phe Arg His Ala Trp
1 5 10 15

Lys Asn Arg Leu Leu Arg Leu Leu Ala Asn Cys Arg Tyr Arg Val Lys
20 25 30

Trp Lys Lys Leu Leu Leu
35

<210> 4051

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4051

Arg Leu Lys Leu Phe Asn Arg Tyr Leu Lys Arg Ile Pro Thr Pro Lys
1 5 10 15

Glu Lys Glu Leu Phe Leu Lys Ala Ser Leu Tyr Arg Lys Leu Leu Pro
 20 25 30

Leu His

<210> 4052

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4052

Leu Leu Arg Trp Phe Asn Arg Trp Leu Lys Lys Met Arg His Asn Lys
 1 5 10 15

His His Ile Leu Lys Phe Arg Ala Leu
 20 25

<210> 4053

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4053

Leu Tyr Arg Leu Leu Arg Arg Leu Phe Arg Arg Phe Asn Lys Val Glu
 1 5 10 15

Leu Met His Leu Lys Lys Asp Phe
 20

<210> 4054

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4054

Arg Leu Lys Ile Trp Arg Arg Leu Tyr Arg Arg Ile Pro Ser Lys Lys
 1 5 10 15

His Ala Ala Thr Lys Asp Ala Ala Ala Thr Leu Asn Ala Ser Ser Lys
 20 25 30

Trp Leu Lys
 35

<210> 4055
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4055

Lys Met Arg Trp Phe Thr Arg Tyr Ile Arg Lys Tyr Arg Thr Leu Asn
 1 5 10 15

Ala Gly Lys Val Arg Lys Ala Arg Leu Phe Ala Gln Tyr Ala Leu Leu
 20 25 30

<210> 4056
 <211> 38
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4056

Lys Trp Arg Met Leu Arg Arg Trp Phe Arg Arg Trp Arg Arg Lys Ala
 1 5 10 15

Lys Arg Pro Ala Ala Leu Lys Leu Arg Pro Leu Val Cys Leu Pro Trp
 20 25 30

His Leu Trp Leu Gly Ala
 35

<210> 4057
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4057

Arg Leu Arg Trp Leu Arg Lys Phe Leu Arg Lys Phe Lys Thr Leu Leu
 1 5 10 15

Ala Leu Lys Gln Lys Arg Ile Lys Cys Ala Met Asp Cys Leu Trp Ser
 20 25 30

Asp

<210> 4058
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4058

Leu Trp Arg Leu Met Pro Lys Tyr Met Lys Lys Leu Arg Lys Asn Leu
 1 5 10 15

Asn Ala Lys Leu His
 20

<210> 4059
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4059

Lys Met Lys Leu Phe His Lys Phe Trp Lys Leu Ile Lys Lys Asn Pro
 1 5 10 15

Lys Leu Lys Thr Ala Asn Ala Ala
 20

<210> 4060
 <211> 43
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4060

Trp Met Arg Ile Leu Lys Lys Leu Phe Arg Lys Trp Ser Asn Ala Lys
 1 5 10 15

Ser Lys Leu Phe Lys Leu His Ala Leu Ala Lys Met Lys Ala Ser Ala
 20 25 30

Thr Ser Arg Phe Ala Gly Tyr Thr Ala Leu Trp
 35 40

<210> 4061
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4061

Arg Trp Lys Phe Met Lys Lys Leu Phe Lys Leu Leu Arg Ser Arg Thr
 1 5 10 15

Asp Lys Met Lys Ile Gly Ala Thr Asn Arg Cys Ala Cys Ala Leu Pro
 20 25 30

Ala Leu Ala Asn Ile Lys Arg Lys
 35 40

<210> 4062
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4062

Arg Leu Lys Leu Phe Arg Arg Phe Leu Arg Lys Leu Ser Arg Arg Asn
 1 5 10 15

Ala Ala Phe Ser Asn Thr Gln Arg Lys Pro His Leu Lys Ala Ala Lys
 20 25 30

Ala

<210> 4063

<211> 51
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4063

Ile Ile Arg Leu Leu Arg Arg Leu Tyr Lys Lys Trp Ser Cys Ala Lys
 1 5 10 15

Ala Leu Val Leu Ala Gln Met Lys Thr Arg Asp Asp Asn Lys Ala Leu
 20 25 30

Ala Asp Leu Asp Gly Leu Ala Lys Lys Ala Leu Asn Gly Lys Lys Tyr
 35 40 45

Arg Ile Gln
 50

<210> 4064
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4064

Lys Phe Arg Leu Leu Lys Lys Ile Leu Arg Lys Trp His Asn Ala Lys
 1 5 10 15

Leu Gly Gln Leu Ser Asn Gly Thr Arg Phe Leu Leu Val Ala
 20 25 30

<210> 4065
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4065

Arg Trp Lys Trp Leu Asn Arg Ile Phe Arg Tyr Leu Arg Arg Ala Ala
 1 5 10 15

Glu Lys Ala Gln

20

<210> 4066
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4066

Arg Leu Arg Tyr Phe Arg Arg Leu Leu Arg Phe Met Lys His Gln Ala
 1 5 10 15

Ser Tyr Gly Ala Leu
 20

<210> 4067
 <211> 50
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4067

Leu Trp Lys Ile Leu Arg Lys Tyr Trp Lys Ile Leu Ser Arg Val Lys
 1 5 10 15

Ser Tyr Lys Leu Glu Lys Arg Leu Asn Lys Leu Ala Phe Cys Gln Ala
 20 25 30

Leu Gly Leu Leu Lys Arg Phe Thr Ala Arg Arg Lys Leu Lys Lys Phe
 35 40 45

Trp Ala
 50

<210> 4068
 <211> 56
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4068

Leu Trp Lys Leu Leu Lys Arg Ile Leu Lys Leu Ile Lys Cys Leu Trp

Leu Trp Lys Leu Leu Pro Arg Phe Leu Arg Arg Ile His Thr Tyr Lys
1 5 10 15

<210>	4070
<211>	39
<212>	PRT
<213>	Artificial Sequence
<220>	
<223>	Computer-generated peptide variant
<400>	4070

Leu Pro Lys Gly Leu Ala Arg Lys Lys Trp Glu Tyr Leu Tyr Phe Lys
20 25 30

<210>	4071
<211>	23
<212>	PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4071

Lys Trp Arg Leu Phe Gln Arg Ile Leu Arg Lys Leu Lys Gln Tyr Ala
1 5 10 15

Glu His Ala Arg Leu Phe Arg
20

<210> 4072

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4072

Arg Tyr Arg Met Trp Lys Lys Trp Leu Arg Tyr Leu Arg Arg Ala Arg
1 5 10 15

Leu Pro Leu Tyr Thr Leu Ala Lys Trp
20 25

<210> 4073

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4073

Arg Phe Arg Leu Ile Arg Lys Leu Leu Arg Leu Leu Lys Lys Trp Asn
1 5 10 15

Pro Lys Glu Leu Lys Lys Val Pro Ala Ser Met Ala Ser Arg Arg Glu
20 25 30

Leu Asn

<210> 4074

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4074

Lys Tyr Lys Leu Leu Cys Lys Tyr Ile Lys Arg Leu Asn Lys Leu Phe
1 5 10 15

Ala Arg Leu Lys His
20

<210> 4075

<211> 42

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4075

Phe Leu Arg Leu Leu Cys Arg Leu Phe Lys Arg Tyr Asn Lys Arg Leu
1 5 10 15

Arg Tyr Lys Val Ile Lys Lys Asn Ala Phe Leu Pro Cys Lys Lys Glu
20 25 30

Ser Ala Arg Val Tyr Ala Leu Lys Asn Gln
35 40

<210> 4076

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4076

Lys Trp Lys Tyr Tyr Gln Arg Phe Leu Arg Leu Trp Arg Gln Ala Ala
1 5 10 15

Leu Cys Arg Gln Gly Ala Lys
20

<210> 4077

<211> 49

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4077

Phe	Leu	Lys	Leu	Tyr	Lys	Lys	Leu	Ile	Lys	Leu	Tyr	Gln	Ser	Val	Arg
1				5					10					15	

Ala	Lys	Val	Ala	Pro	Asp	Leu	Lys	Arg	Leu	His	Val	Lys	Pro	Glu	Met
			20					25					30		

Lys	Lys	Ala	Glu	Gly	Ala	Lys	Arg	Pro	Lys	Leu	Met	Arg	Ser	Ala	Ala
		35					40					45			

Leu

<210> 4078

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4078

Phe	Trp	Lys	Leu	Leu	Arg	Arg	Trp	Trp	Arg	Lys	Phe	Arg	Arg	Thr	Lys
1				5					10					15	

Ala	Tyr	Tyr	Cys	Ala	Lys	Ala	Ala	Ala	Leu	Gly	Ser	Arg	Gln
			20					25					30

<210> 4079

<211> 45

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4079

Met	Tyr	Lys	Phe	Ile	Arg	Lys	Ile	Phe	Arg	Arg	Leu	Lys	Asn	Arg	Lys
1				5					10					15	

Pro	Lys	Leu	Ile	Leu	Leu	Ala	Ser	Arg	Arg	Ala	Ala	Ala	Lys	Ala	Ala
			20					25					30		

Lys Ala Phe Met Leu Ile Arg Ile Val Lys Ala Ala Cys
35 40 45

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<210> 4080
<211> 32
<212> PRT
<213> Artificial Sequence
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<220>
<223> Computer-generated peptide variant

<400> 4080

Lys Trp Arg Leu Leu Arg Arg Ile Phe Arg Trp Leu Arg Lys Cys His
1 5 10 15

Thr Met Arg Ala Ala Glu Leu Asp Gly Tyr Cys Arg Arg Leu Gln Ala
20 25 30

```
<210> 4081
<211> 42
<212> PRT
<213> Artificial Sequence
```

<220>
<223> Computer-generated peptide variant

<400> 4081

Lys Leu Lys Tyr Phe Cys Lys Trp Trp Lys Lys Leu Arg Gln Glu Glu
1 5 10 15

Ala Ala Pro Leu Arg Ile Ala Leu Asn Arg Leu Glu Ala Arg Arg Met
20 25 30

Ala Asn Ala Leu Arg Arg His Phe Met Lys
35 40

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<210> 4082
<211> 83
<212> PRT
<213> Artificial Sequence
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<220>
<223> Computer-generated peptide variant

<400> 4082

Lys Met Arg Leu Tyr Asn Arg Ile Leu Lys Phe Met Thr Thr Thr Lys
1 5 10 15

Thr Ala Leu Ala Trp Asp Asp Lys Trp Ala Lys Lys Lys Ala Cys Lys
 20 25 30

Ile Glu Trp Ala Lys Lys Ala Arg Ala Pro Arg Ala Tyr Phe Lys Lys
 35 40 45

Ala Cys Lys Gly Thr Glu Arg Pro Lys Ala Leu Leu Ser Lys Lys Cys
 50 55 60

Leu Pro Val Lys Leu Leu Pro Ala Lys Leu Glu Lys Asp Tyr Arg Met
 65 70 75 80

Lys Ala Gln

<210> 4083
 <211> 49
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4083

Arg Phe Lys Leu Leu Cys Arg Phe Trp Lys Arg Leu His Asn Arg Phe
 1 5 10 15

Ala Trp Met Asn Cys Asp Leu Lys Arg Arg Lys Asn Leu Trp Leu Lys
 20 25 30

Val Trp Ala Thr Leu His Met Ala Arg Met Ala Asp Arg Leu Gln Leu
 35 40 45

Arg

<210> 4084
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4084

Lys Phe Arg Leu Leu Cys Lys Leu Trp Lys Lys Met Lys His Val Trp

1 5 10 15

Lys Leu Leu Ala Thr Ala Glu Asp Lys Arg Gln Pro Ala Ala Gln Asn
20 25 30

Leu Ala

<210> 4085
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 4085

Leu Met Arg Leu Leu Arg Lys Phe Met Arg Lys Phe Lys Gln Arg Leu
1 5 10 15

Gln Arg Ala Leu Ala Ser Thr Glu Glu Ala Pro
20 25

<210> 4086
<211> 22
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 4086

Arg Leu Lys Leu Phe Ser Lys Met Leu Lys Lys Leu His Gln Ala His
1 5 10 15

Leu Glu Arg Ala Ala Phe
20

<210> 4087
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 4087

Phe Leu Arg Leu Trp Lys Arg Leu Ile Lys Arg Phe Lys Thr His Ala

1 5 10 15

Lys Thr Ala Arg Ala
20

<210> 4088
<211> 57
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 4088

Lys Phe Lys Tyr Leu Ser Lys Met Trp Arg Arg Met Gln Gln Ala Cys
1 5 10 15

Arg Met Phe Leu Leu Asn Tyr Ala Trp Cys Asn Cys Thr Lys Ser Pro
20 25 30

Leu Ala Arg Arg Thr Ala Asn Ser Phe Val Lys Arg Leu Arg Leu Ala
35 40 45

Arg Lys Leu Lys Lys Arg Leu Leu Ala
50 55

<210> 4089
<211> 82
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 4089

Leu Phe Lys Leu Leu Lys Arg Ile Leu Lys Lys Phe Asn Arg Phe Ile
1 5 10 15

Leu Ile Asp Tyr Pro Leu Lys Tyr Ser Arg Met Ser Ala Leu Glu Leu
20 25 30

Ala Ala Leu Glu Ser Lys Lys Arg Lys Gly Asn Asn Leu Asp Ile Arg
35 40 45

Leu Lys Thr Val Leu Val Pro Ala Ala Tyr Arg Tyr Lys Lys Lys Arg
50 55 60

Ser Ser Arg Leu Arg Leu Gly Ala Arg Leu Leu Ala Ser Asp Arg Ala
 65 70 75 80

Trp Ala

<210> 4090

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4090

Lys Ile Arg Leu Leu His Arg Trp Leu Lys Arg Phe His Ser Pro Ala
 1 5 10 15

Ala Arg Arg Phe
 20

<210> 4091

<211> 42

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4091

Arg Met Lys Leu Leu Lys Lys Leu Met Arg Ile Leu Arg Lys Tyr Ala
 1 5 10 15

Glu Arg Arg Phe Leu Ala Gly Cys Ala Leu Lys Met Leu Leu Phe Glu
 20 25 30

Leu Leu Lys Arg Asp Ala Arg Ala Glu Leu
 35 40

<210> 4092

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4092

Leu Met Arg Met Phe Lys Lys Ile Leu Lys Arg Leu Lys Gln Leu Met
 1 5 10 15

Lys Leu Val Gln Ser His Pro Leu Ala
 20 25

<210> 4093
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4093

Lys Ile Lys Leu Phe Lys Arg Trp Leu Arg Arg Leu Arg Ser Cys His
 1 5 10 15

Asn Lys Ser Leu Lys Arg Asn Glu Ala Leu Met Leu Arg Lys Ala Asn
 20 25 30

Ala

<210> 4094
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4094

Arg Ile Lys Leu Leu Gln Arg Ile Leu Lys Arg Leu Arg Lys Phe Lys
 1 5 10 15

Ala Leu Ile Leu Val Asn Cys Val
 20

<210> 4095
 <211> 58
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4095

Arg Ile Lys Leu Phe Arg Arg Leu Ile Lys Lys Phe Gln Arg Leu Leu
 1 5 10 15

Trp Lys Arg Lys Pro Met Met Asn Gly Pro Leu Val Ala Ala Asp Lys
 20 25 30

Ala Leu Tyr Gly Ala Pro Arg Glu Arg Lys Lys Leu Asn Leu Gly Glu
 35 40 45

Trp Ser Lys Leu Asn Ser Arg Leu Lys Ala
 50 55

<210> 4096

<211> 41

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4096

Arg Trp Arg Leu Leu Asn Lys Phe Ile Arg Leu Trp Lys Asn Ala Leu
 1 5 10 15

His Cys Ala Ala Lys Lys Leu Val Ala Lys Ala Ala Arg Ala Met Leu
 20 25 30

Asp Arg Arg Thr Thr Leu Gly Cys Ala
 35 40

<210> 4097

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4097

Leu Phe Arg Tyr Trp Arg Lys Trp Tyr Lys Leu Met Lys His Gln Gly
 1 5 10 15

Arg His Ala Arg Ala Ala Ala
 20

<210> 4098

<211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4098

Arg Leu Lys Leu Phe Lys Lys Leu Tyr Lys Phe Ile His Arg Arg Ala
 1 5 10 15

Asn Leu Cys Leu Gly Gly Ile Glu Asp Ala Lys Lys Val Lys
 20 25 30

<210> 4099
 <211> 56
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4099

Leu Met Arg Tyr Phe Lys Lys Leu Leu Arg Arg Phe Lys Lys Gln Ile
 1 5 10 15

Lys Met Ala Leu Leu Arg Val Lys Arg Leu Lys Leu Leu Ala Leu Lys
 20 25 30

Gly Arg Val Phe Thr Leu Lys Leu Ala Phe Lys Leu Thr Thr Arg Trp
 35 40 45

Arg Leu Glu Arg Trp Leu Val Leu
 50 55

<210> 4100
 <211> 73
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4100

Arg Phe Lys Tyr Phe Arg Lys Met Phe Arg Leu Phe Lys Arg Ala Lys
 1 5 10 15

Thr Cys Asp Ala Leu Tyr Lys Leu Glu Arg Phe Leu Gln Thr Asp Lys

Ala Pro Glu Gly Arg Gly Ala Trp Lys Arg Leu Lys Arg Lys Gln Pro
 50 55 60

Leu Leu Glu Asp Leu Gly His Leu Lys His Leu Lys Ala Ala Arg Arg
 65 70 75 80

Arg Ala Arg Ser Val Lys Leu Met Leu Cys Arg Lys Ala Val His Ala
 85 90 95

Arg

<210> 4103
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4103

Phe Leu Arg Phe Met Arg Arg Leu Met Arg Leu Met Arg Arg Lys Thr
 1 5 10 15

Ala Leu Ala Ala Lys Leu Ser His
 20

<210> 4104
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4104

Leu Tyr Lys Ile Leu Thr Arg Phe Tyr Lys Met Leu Thr Arg Asp Lys
 1 5 10 15

Arg Ala Leu Pro Leu
 20

<210> 4105
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4105

Lys	Leu	Arg	Phe	Trp	Arg	Arg	Phe	Leu	Lys	Lys	Phe	Arg	Asn	Lys	Gly
1				5					10					15	

Phe	Val	Ala	Gln	Leu	Gly	Lys	Phe	Leu	Met	Ala	Arg	Trp	Lys	Glu	Ala
			20					25					30		

Lys	His	Val	Met	Ala	Lys	Pro	Ala
		35				40	

<210> 4106

<211> 47

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4106

Lys	Trp	Arg	Phe	Met	Arg	Lys	Phe	Leu	Lys	Arg	Phe	Asn	Ser	Ala	Met
1				5					10					15	

Ser	Lys	Ala	Ala	Gln	Asn	Ala	Arg	His	Met	Ala	Ala	Tyr	Arg	Asn	Ala
			20					25					30		

Val	Ser	Leu	Leu	Lys	His	Lys	Leu	Arg	Leu	Leu	Asn	Phe	Ile	Lys
		35					40					45		

<210> 4107

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4107

Trp	Leu	Arg	Phe	Trp	Arg	Lys	Leu	Phe	Lys	Arg	Met	Arg	Arg	Ser	Lys
1				5					10					15	

Pro	Tyr	Ala	Leu	Ala	Cys	Phe	Ala
			20				

<210> 4108

<211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4108

Phe Leu Arg Tyr Tyr Lys Arg Met Leu Arg Arg Leu Arg Asn Ser Trp
 1 5 10 15

Asp Gln Lys Lys Lys Ala His Ala Ala Phe Asp Ala Cys
 20 25

<210> 4109
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4109

Lys Met Lys Trp Tyr Cys Lys Leu Leu Arg Leu Ile Ser Lys Trp Ala
 1 5 10 15

Tyr Ala Asn Lys Lys Ala
 20

<210> 4110
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4110

Arg Trp Arg Leu Leu Arg Arg Phe Met Arg Phe Leu Lys Lys Ala Val
 1 5 10 15

Ala Phe Ala Lys Ile Pro Arg Lys Cys Asn Cys Ala Lys Tyr Glu Met
 20 25 30

Ala

<210> 4111

<211> 41
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4111

Leu Trp Arg Ile Leu Lys Lys Met Leu Arg Lys Tyr Asn Gln Arg Gly
 1 5 10 15

Leu Arg Cys Phe Leu Ser Val Arg Ala Val Asp Lys Ala Arg Arg Leu
 20 25 30

Cys Leu Ser Met Glu Ala Leu Ala Ala
 35 40

<210> 4112
 <211> 38
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4112

Leu Leu Lys Phe Leu Arg Arg Leu Leu Lys Arg Trp Arg Arg His Lys
 1 5 10 15

Lys Leu Ala Ala Leu Lys Ala Lys Asp Arg Asp Val Leu Pro Asp Cys
 20 25 30

Leu Ala Arg Lys Leu Met
 35

<210> 4113
 <211> 26
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4113

Lys Leu Arg Leu Leu Arg Arg Leu Leu Arg Arg Phe Lys His Glu Ala
 1 5 10 15

Ser Arg Leu Asn Leu Thr Lys Arg Ala Ile

20

25

<210> 4114
 <211> 37
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4114

Ile Leu Arg Phe Met Lys Lys Leu Leu Lys Arg Leu Gln Arg Thr Tyr
 1 5 10 15

Lys Thr Thr Ala Phe Thr His Ser His His Asn Leu Lys Lys Ile Leu
 20 25 30

Lys Leu Lys Lys Leu
 35

<210> 4115
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4115

Lys Leu Arg Trp Phe Ser Arg Leu Trp Arg Leu Phe Asn Asn Leu Gly
 1 5 10 15

His Lys Leu Thr Lys Leu Val Lys Leu Thr Trp Leu Leu Ala Lys Trp
 20 25 30

Arg

<210> 4116
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4116

Tyr Phe Lys Phe Ile Cys Arg Leu Phe Arg Arg Leu His Lys Gln Arg

<400> 4117

Ala Arg Trp Gln Ser Leu Asn Leu Lys Val Ser Lys Trp Gly His Thr
20 25 30

<400> 4118

Leu Leu Leu Leu Leu Gly Arg Phe Ala Ala Phe Gln Asp Asp Ala Gly
20 25 30

<220>
<223> Computer-generated peptide variant

<400> 4119

Arg Tyr Lys Trp Leu Cys Arg Leu Phe Arg Leu Ile His Pro Pro Asn
1 5 10 15

Ala Ala Trp Lys Asp Leu Glu Arg Leu Glu Leu His Phe His Ala Arg
20 25 30

Ser Arg Arg Lys Val Ala Ala Lys Arg Arg Trp Arg
35 40

<210> 4120

<211> 64

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4120

Lys Met Arg Phe Trp Lys Lys Leu Trp Arg Leu Leu Arg Arg Met Glu
1 5 10 15

Lys Arg Arg Arg Asp Leu Gly Tyr Arg Trp Arg Leu Arg Asn Ala Asn
20 25 30

Gln Ile Gln Leu Pro Tyr Ala Leu Arg Ser Lys Arg Arg Leu Asn Leu
35 40 45

Leu Ala Thr Ala Met Ala Lys Leu Arg Leu Ala Trp Asn Lys Ile Thr
50 55 60

<210> 4121

<211> 38

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4121

Lys Leu Lys Phe Phe Arg Arg Leu Leu Arg Trp Met Arg Lys Tyr Met
1 5 10 15

Ala Phe Gly Thr Arg Trp Leu Pro Asn Thr Thr Leu Arg Pro Ala Lys
20 25 30

Gly Leu Arg Ala Gln Arg
35

<210> 4122
<211> 22
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 4122

Leu Met Arg Leu Ile Pro Arg Leu Tyr Arg Lys Ile Pro Ser Ala Cys
1 5 10 15

Ala His Lys Arg Leu Arg
20

<210> 4123
<211> 25
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 4123

Met Leu Lys Met Leu Arg Arg Phe Leu Arg Arg Leu Lys Lys Thr Arg
1 5 10 15

Ala Ser Ala Asn Leu Pro Ile Val Phe
20 25

<210> 4124
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 4124

Lys Met Arg Leu Leu Arg Arg Trp Leu Lys Tyr Tyr Arg Thr Leu Arg
1 5 10 15

Phe Ala Cys Arg Arg Arg Leu Asp His Gly Leu Met Gln Gly Phe Asn
20 25 30

Leu Leu Lys Tyr Leu Ala His
35

<210> 4125
<211> 52
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 4125

Arg Tyr Arg Leu Tyr Asn Arg Tyr Tyr Arg Leu Tyr Lys His Leu Arg
1 5 10 15

Arg Thr Arg Ala Lys Gln Asp Cys Leu Gln Ser His Asp Gly Arg Ala
20 25 30

Lys Arg Leu Lys Leu Gln Ala Trp Asp Leu Trp Leu Leu Arg Arg Leu
35 40 45

Phe Ala Gln Glu
50

<210> 4126
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 4126

Leu Met Arg Tyr Leu Pro Lys Leu Trp Arg Lys Leu Asn Gln Leu Arg
1 5 10 15

Lys Leu Gln Leu Glu Pro Leu Asp Leu Lys Arg
20 25

<210> 4127
<211> 42
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 4127

Lys Leu Arg Met Tyr His Arg Leu Tyr Arg Leu Ile Lys Lys Leu Gly
 1 5 10 15

Met Thr Lys Arg Pro Lys Leu Ile Lys Arg Thr Ala Leu Leu Ile Met
 20 25 30

Asn Asn Arg Gln Asp Leu Lys Arg Ala Met
 35 40

<210> 4128
 <211> 78
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4128

Arg Leu Arg Leu Leu Arg Lys Leu Ile Lys Tyr Ile Arg His Ile Val
 1 5 10 15

Ala Thr Cys Ala Thr Arg Lys Ser Arg Cys Leu His Met Ile Cys Ala
 20 25 30

Leu Leu Val Lys Thr Ile Ala Met Ala Arg His Pro Thr Leu Lys Ala
 35 40 45

Ala Gln Ser Lys Leu Trp Ala Glu Lys Leu Leu Ala Arg Pro Lys Arg
 50 55 60

Ala Leu Arg Pro Leu Val Met Ile Val Tyr Ile Pro Ala Leu
 65 70 75

<210> 4129
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4129

Lys Met Arg Ile Tyr Arg Arg Leu Ile Arg Arg Met Gln Pro Arg Leu
 1 5 10 15

Ala Ala Trp Gln His Leu Ala

20

<210> 4130
 <211> 92
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4130

Arg Phe Lys Tyr Trp His Arg Leu Leu Arg Tyr Phe Pro Lys Leu Leu
 1 5 10 15

Trp Leu Leu Pro Arg Arg Ala Gln Leu Trp Leu Arg Arg Ala Thr Trp
 20 25 30

Ile Trp Arg Ser Leu His Ala Leu Lys Arg Ser Lys His Gln His Lys
 35 40 45

Val Lys Ala Lys Trp Ala Met Arg Ala Ala Pro Arg Arg Arg Ala Asp
 50 55 60

Val Trp Ile Tyr Ala Tyr Leu Phe Asn Glu Pro Leu Gln Lys Val Thr
 65 70 75 80

Ala Gln Asp Lys Lys Lys Ala Ala Leu Phe Lys Ala
 85 90

<210> 4131
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4131

Lys Leu Arg Tyr Met Thr Arg Trp Leu Lys Leu Leu Ser Lys Ser Lys
 1 5 10 15

Ala Lys Ile Lys Tyr Arg Ala Ala Ser Thr Leu Gly Arg Arg Met Lys
 20 25 30

His Trp Leu Gly Ala Leu Asp Asn
 35 40

<210> 4132
 <211> 41
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4132

Ile Leu Lys Phe Leu Cys Arg Trp Phe Lys Lys Leu Ser Lys Leu Ala
 1 5 10 15

Pro Leu Arg Lys Arg Gln Gly His Gln Ala Ser Leu Lys Leu Ala Leu
 20 25 30

Ser Ala Trp Leu Leu Lys Ile Thr His
 35 40

<210> 4133
 <211> 41
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4133

Leu Leu Arg Trp Leu Arg Arg Phe Leu Lys Lys Tyr Lys Asn Cys Pro
 1 5 10 15

Thr Gln Val Ala Ile Pro Arg Lys Arg Ala Ser Ala Lys Glu Tyr Asp
 20 25 30

Leu Leu Arg Thr Arg Ile Ile Lys Leu
 35 40

<210> 4134
 <211> 63
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4134

Leu Leu Arg Leu Phe Thr Arg Ile Leu Lys Phe Met Arg Gln Val Ala
 1 5 10 15

Trp Gln Ala Arg Gly His Phe Arg Arg Lys Ala Leu Ala Ala Thr Trp
 20 25 30

Leu Glu Lys Lys Val Ala Arg Arg Met Thr Ala Cys Leu Ala Lys Leu
 35 40 45

Thr Arg Arg Ala Leu Arg Tyr Val Val Glu Glu His Lys Val Val
 50 55 60

<210> 4135
 <211> 60
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4135

Arg Leu Arg Ile Phe Thr Arg Met Leu Lys Arg Leu Thr Pro Lys Lys
 1 5 10 15

Ala Lys Arg Ala Gln Arg Ile Trp Pro Arg Ser Ala Cys Leu Ala Met
 20 25 30

Pro Arg Leu Gly Leu Leu Arg Lys Trp Arg Val Ala Ala His Ala Glu
 35 40 45

Val Cys Thr Asp Leu Ala Phe Leu Arg Arg Asp Ala
 50 55 60

<210> 4136
 <211> 44
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4136

Leu Phe Lys Met Phe Lys Arg Tyr Leu Arg Lys Phe Arg Arg Ala Arg
 1 5 10 15

Tyr Leu Leu Leu Leu Gly Ala Thr Ala Arg Leu Lys Trp Leu Arg Leu
 20 25 30

Ala Ile Glu Arg Ala Leu Asn Arg Tyr Lys Ala Ala

35

40

<210> 4137

<211> 97

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4137

Arg Tyr Lys Phe Leu Asn Lys Leu Leu Arg Lys Ile Arg Lys Glu Val
 1 5 10 15

Val Thr Ile Ala Arg Phe Lys Phe Leu Leu Ala Ser Arg Arg Met Tyr
 20 25 30

Lys Ala Ala Thr Arg Leu Glu Arg Arg His Glu Thr Gln Pro Lys Met
 35 40 45

Gly Ala Leu Asp Leu Cys Gly Lys Ala Asp Ala Leu Lys Tyr Ala Ala
 50 55 60

Lys Leu Arg Leu Trp Gly Ser Asn Gln Leu Lys Phe Tyr Asp Ala Asp
 65 70 75 80

Val Gln Ala Leu Leu Leu Trp Val Arg Glu Val Lys Lys Arg Arg
 85 90 95

Arg

<210> 4138

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4138

Lys Leu Arg Phe Met Arg Arg Met Trp Arg Leu Leu His Arg Lys Asn
 1 5 10 15

Val His Leu Ala
 20

<210> 4139
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4139

Leu Trp Arg Trp Phe His Lys Leu Leu Arg Met Leu Ser Pro Lys Cys
 1 5 10 15

Gly His Asn Ala Leu Arg Leu Lys Gln Asn Lys Leu Arg
 20 25

<210> 4140
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4140

Met Trp Lys Ile Leu Lys Lys Ile Tyr Arg Lys Leu Lys Arg Ala Val
 1 5 10 15

Leu Cys Leu His Leu Lys Ala Lys Thr Ser Arg Leu Ala
 20 25

<210> 4141
 <211> 62
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4141

Lys Trp Lys Met Leu Arg Lys Met Ile Lys Leu Ile Pro Arg Arg Asp
 1 5 10 15

Asn Leu Phe Lys Lys Gln Asp Met Ala Leu Cys Lys His Lys Lys Lys
 20 25 30

Leu Ser Leu Leu Arg Tyr Arg His Leu Thr Ala Ala Ala Leu Asp Lys
 35 40 45

Ala Thr Leu Pro Leu His Leu Trp Arg Val Ala Trp Tyr Leu
 50 55 60

<210> 4142
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4142

Ile Trp Arg Leu Phe Lys Lys Phe Ile Lys Leu Leu Pro Lys Trp Ala
 1 5 10 15

Ala Arg His Ala Asp
 20

<210> 4143
 <211> 63
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4143

Phe Phe Arg Phe Leu Lys Lys Leu Phe Lys Arg Leu Arg Arg Leu Leu
 1 5 10 15

Gly Gln Leu Ser Thr Leu Ala Ala Asp Met Asp Arg Glu Lys Ala Arg
 20 25 30

Val Lys Ile Lys Ile Leu Arg Arg Arg Ala Trp Ala Ala Trp Arg Gly
 35 40 45

Leu Ala Thr Leu Leu Arg Val Asp Ala His Lys Gly Leu Glu His
 50 55 60

<210> 4144
 <211> 38
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4144

Lys Trp Arg Leu Leu Arg Arg Ile Met Arg Lys Tyr Lys Lys Leu Arg
 1 5 10 15

Gln Leu Arg Leu Arg Leu Ala Leu Glu Thr Asp Arg Phe Met Ala Lys
 20 25 30

His Lys Ala Gly Leu His
 35

<210> 4145
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4145

Lys Leu Lys Leu Leu Arg Arg Phe Trp Lys Lys Tyr Lys Ser Ala Lys
 1 5 10 15

Trp Ala Val Val Thr Phe Arg Arg Pro Ala Ile Ala Asn Cys Leu Ile
 20 25 30

<210> 4146
 <211> 88
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4146

Arg Phe Arg Leu Leu Thr Arg Leu Leu Lys Arg Ile Arg Pro Arg Lys
 1 5 10 15

Cys Ile Arg Ala Leu Ala Leu Met Arg Ile Lys Arg Ala Ala Ser Ala
 20 25 30

Lys Phe His Leu Leu Ser Pro Ile His Ala Pro Tyr Ile Lys Lys Trp
 35 40 45

Ala Ala Tyr Lys Ala Lys Asp Ala Phe Leu Lys Ala Ser Lys Ala Lys
 50 55 60

Leu Ala Thr Arg Cys Lys Phe Met Trp Ala Gln Asn His Lys Pro Asn

65 70 75 80

Lys Ala Asp Arg Met Arg Phe Leu
 85

<210> 4147
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 4147

Arg Trp Arg Tyr Leu Ser Lys Phe Leu Arg Arg Tyr Thr Lys Glu Leu
1 5 10 15

Pro Ala Leu Val
 20

<210> 4148
<211> 58
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 4148

Lys Phe Arg Trp Leu Arg Lys Leu Leu Arg Arg Trp Lys Lys Glu Leu
1 5 10 15

Lys Phe Phe Arg Ala Phe Leu Arg Gln Tyr Lys Thr Arg Met Asn Glu
 20 25 30

Arg Pro Ala Leu Phe Ala Cys Arg Asp Ser Ala Ala Lys Gln Lys Thr
 35 40 45

Gly Asn Ala Arg Ser Leu Glu Ala Tyr Cys
 50 55

<210> 4149
<211> 36
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 4149

Lys Leu Lys Phe Tyr Arg Lys Trp Ile Arg Trp Leu Arg Arg Leu Ala
1 5 10 15

Asn Ala Leu Arg Leu Asp Gly Leu Asn Arg Ala Ser Gly Thr Leu Lys
20 25 30

Lys Ser Trp Ser
35

<210> 4150

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4150

Trp Phe Arg Tyr Leu Arg Arg Phe Leu Arg Phe Leu Arg His Leu Pro
1 5 10 15

Met Arg Leu Ser Ala Arg Gln Arg Trp His Ala His Arg Gly Leu Val
20 25 30

Ala Arg Ala Cys Cys Arg Asp Leu
35 40

<210> 4151

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4151

Leu Leu Arg Tyr Phe Pro Lys Met Phe Arg Arg Leu Arg Arg Arg Thr
1 5 10 15

Leu Ala Ala Gly Leu Leu Thr Tyr His Ala His Lys
20 25

<210> 4152

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4152

Arg Leu Arg Phe Leu Lys Arg Phe Phe Lys Arg Leu Ser Asn Leu Glu
1 5 10 15

Glu Cys Leu Arg
20

<210> 4153

<211> 48

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4153

Arg Tyr Arg Phe Met Lys Lys Met Leu Arg Phe Ile Cys Lys Leu Lys
1 5 10 15

Leu Leu Ala Ala Glu Ala Leu Leu Arg Arg Ala Thr Leu Ile His Arg
20 25 30

Met Pro His Ala Lys Leu Ser Met Leu Cys Asp Arg Leu Pro Cys Gly
35 40 45

<210> 4154

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4154

Met Phe Arg Ile Leu Lys Lys Trp Leu Arg Arg Trp Asn Lys Lys Ile
1 5 10 15

Glu Ala Arg Leu Cys Tyr Arg Lys Tyr Ala Trp Leu Leu Pro Arg Ala
20 25 30

Ala Ala Asn
35

<210> 4155
 <211> 55
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4155

Arg Leu Arg Phe Leu Lys Arg Tyr Leu Lys Arg Leu Cys Arg Val Glu
 1 5 10 15

Arg Gln Lys Cys Arg Lys Arg Ala Lys Leu Glu Trp Ala Leu Ala Ser
 20 25 30

Gly Ala Gln Gly Ala Leu Asn Leu Tyr Arg Arg Arg Ala Cys Cys Asp
 35 40 45

Pro Pro Thr Asp Ser Lys Met
 50 55

<210> 4156
 <211> 56
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4156

Lys Leu Arg Trp Ile Gln Lys Trp Leu Arg Phe Trp Lys Ser Arg Lys
 1 5 10 15

Gln Pro Leu Ala Leu Gln Asn Ala Met Leu Tyr Ile Pro Cys Ala Arg
 20 25 30

Ala Arg Ala Lys Gly Ala Leu Ala Cys Arg Arg Asn Val Ala His Leu
 35 40 45

Thr Arg Leu Arg Leu Thr Asn Arg
 50 55

<210> 4157
 <211> 27
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4157

Arg	Leu	Arg	Met	Phe	Cys	Lys	Tyr	Leu	Arg	Lys	Trp	Ser	Thr	Arg	Ala
1				5					10					15	

Arg	Leu	Lys	Leu	Asp	Ala	Cys	Ala	Val	Thr	Ala
			20					25		

<210> 4158

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4158

Tyr	Tyr	Arg	Leu	Ile	Thr	Lys	Leu	Leu	Lys	Arg	Leu	Thr	His	Leu	Gly
1				5					10					15	

Asp	Ala	Arg	Arg	Gln	Leu
				20	

<210> 4159

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4159

Arg	Leu	Arg	Trp	Phe	Thr	Arg	Tyr	Leu	Lys	Arg	Leu	Lys	Lys	Ala	Asn
1				5					10					15	

Arg	Leu	Tyr	Ala	Ser	Ala	Ile
				20		

<210> 4160

<211> 69

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4160

Lys Phe Lys Tyr Phe Lys Arg Leu Phe Lys Lys Leu Pro His Ala Ala
 1 5 10 15

Lys Arg Leu Asn Arg Ile Lys Leu Val Gln Arg Phe Leu Cys Ala Leu
 20 25 30

Tyr His Ala Leu Ala Asn Glu Gln Ala Lys Ala Arg Asp Lys Lys Gln
 35 40 45

Lys Ser Gly Cys Trp Asp Asp Trp Ala Ala Lys Lys Arg Gly Met Ser
 50 55 60

Lys Tyr Lys Leu Ala
 65

<210> 4161
 <211> 39
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4161

Arg Ile Lys Trp Leu Cys Arg Tyr Leu Lys Leu Trp Arg His Val Lys
 1 5 10 15

Phe Gln Ala Ala Tyr Leu Asp Arg Leu Lys Arg Ser Leu Tyr Lys Lys
 20 25 30

Asn Thr Leu Arg Ala Tyr His
 35

<210> 4162
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4162

Lys Leu Arg Leu Trp Gln Arg Phe Leu Lys Lys Leu Thr Arg Lys Gly
 1 5 10 15

Trp Leu Asp Cys Ala Glu Leu Leu

20

<210> 4163
 <211> 37
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4163

Lys Leu Arg Leu Ile Pro Lys Leu Leu Lys Lys Ile Asn Arg Gly Phe
 1 5 10 15

Trp Lys Leu Ile Ala Arg Leu Glu Lys Lys Ala Ala Glu Tyr Arg Ser
 20 25 30

Gln Phe Cys Met Ala
 35

<210> 4164
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4164

Phe Tyr Lys Leu Ile Gln Lys Leu Ile Lys Phe Leu Lys Lys Arg Lys
 1 5 10 15

Leu Ala Val Leu Asn Arg Arg Arg Cys Ala Lys Cys Leu Ala Gly Gly
 20 25 30

Leu Lys Leu
 35

<210> 4165
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4165

Lys Ile Lys Ile Tyr Gln Lys Met Leu Arg Arg Leu Gln Lys Leu Arg

1 5 10 15

Asn Leu Leu Asn
20

<210> 4166
<211> 65
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 4166

Tyr Phe Lys Phe Phe His Arg Trp Met Arg Phe Leu Gln Arg Arg Phe
1 5 10 15

Ala Glu Arg Ala Arg Lys Ala Ile Gln Ala Cys Thr Leu Glu Tyr Gln
20 25 30

Leu Arg Arg Gln Ala Ala Tyr Arg Arg Pro Lys Ala Leu His Gly Leu
35 40 45

Val Phe Leu Thr Ala Leu Arg Pro Ile Lys Lys Ala Ala Arg Ala Leu
50 55 60

Ala
65

<210> 4167
<211> 25
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 4167

Lys Leu Arg Leu Phe Ser Lys Phe Leu Lys Phe Phe Arg Lys Cys Asn
1 5 10 15

Arg Leu Tyr Leu Ala Arg Arg Ser Ala
20 25

<210> 4168
<211> 39
<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4168

Lys Trp Arg Trp Leu Arg Lys Trp Leu Lys Arg Leu Arg Arg Ser Gln
1 5 10 15

Tyr Asn Lys Lys Ala Lys Tyr Ala Ala Leu Leu Lys Pro Val Pro Leu
20 25 30

Thr Gly Lys Ala Ile Ala Leu
35

<210> 4169

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4169

Leu Phe Lys Phe Phe Asn Lys Leu Leu Lys Phe Phe Arg Lys Leu Lys
1 5 10 15

Asn Ala Ser Asn Glu Gln Ala Leu Lys Leu Ala
20 25

<210> 4170

<211> 39

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4170

Arg Leu Lys Leu Leu Pro Arg Tyr Leu Lys Arg Leu Arg Asn Lys Tyr
1 5 10 15

Phe Lys Gln Ala Ile Lys Ile Met Ala Asn Arg Ser Lys Trp Asn His
20 25 30

Met Leu Cys Ala Leu Leu Asn
35

<210> 4171
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4171

Ile	Phe	Lys	Leu	Leu	Lys	Lys	Leu	Met	Arg	Phe	Met	Lys	His	Ala	Arg
1			5					10						15	

Leu	Ala	Thr	Arg	Arg	Pro	His	Met	Asp	Arg	Ala	His	Ser
			20				25					

<210> 4172
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4172

Arg	Leu	Arg	Leu	Trp	Arg	Arg	Leu	Leu	Lys	Arg	Leu	Lys	Ser	Lys	Trp
1			5					10						15	

Leu	Ala	Arg	Asn	Leu	Thr	Leu
			20			

<210> 4173
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4173

Leu	Trp	Arg	Leu	Ile	Arg	Lys	Met	Leu	Arg	Arg	Met	Lys	Pro	Ala	Phe
1			5					10						15	

Lys	Ala	Ala	Leu	Thr	Ala	Gly	Leu	Trp	Lys	Gln	Arg	Val	Cys
			20				25						30

<210> 4174
 <211> 34
 <212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4174

Phe	Leu	Arg	Ile	Leu	Lys	Lys	Phe	Phe	Lys	Arg	Leu	Arg	Lys	Leu	Ser
1				5					10					15	

His	Thr	Ala	Cys	Lys	Arg	Arg	Gly	Val	Lys	Ala	Ala	Ala	Glu	Ala	Arg
			20					25					30		

Asn Pro

<210> 4175

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4175

Arg	Leu	Lys	Leu	Phe	Arg	Arg	Ile	Phe	Arg	Arg	Phe	Lys	Thr	Ala	Leu
1				5					10					15	

Ala	Ala	Lys	Ala	Lys	Glu	Ser	Asp	Val	Arg	Ala	Cys
			20					25			

<210> 4176

<211> 48

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4176

Phe	Met	Arg	Met	Leu	Gln	Arg	Leu	Phe	Lys	Arg	Tyr	Lys	Arg	Leu	Glu
1				5					10					15	

Arg	Leu	Met	Ala	Lys	His	Cys	Glu	Lys	Gly	Pro	Leu	Leu	Leu	Ile	Lys
			20					25					30		

Leu	Ile	Leu	Cys	Met	Lys	Trp	Leu	Glu	Ala	Asp	Trp	Ala	Leu	Leu	Arg
		35					40					45			

<210> 4177
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4177

Met Phe Lys Trp Leu Ser Arg Leu Trp Lys Lys Leu Lys Lys Ile Thr
 1 5 10 15

Ala Pro Ala Lys Asp Arg Ala Ala Phe Lys Leu Ser
 20 25

<210> 4178
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4178

Leu Ile Lys Phe Phe Ser Lys Trp Leu Lys Met Leu Arg Arg Arg Ser
 1 5 10 15

Arg Tyr Asn Leu Ala
 20

<210> 4179
 <211> 64
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4179

Phe Leu Arg Leu Ile Arg Lys Met Met Lys Leu Tyr Arg Arg Phe Asn
 1 5 10 15

Arg Arg Asp Ala Asn Met Ser His Pro Lys Ala Leu Asn Arg Leu Lys
 20 25 30

Val Pro Gly Leu Lys Leu Lys Phe Ile Ser Lys Glu Leu Cys Arg Arg
 35 40 45

Leu Pro Lys Ala Leu Arg Met Asp Cys Leu Ala Lys Leu Cys Gly Leu
 50 55 60

<210> 4180
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4180

Arg Phe Lys Leu Leu Cys Arg Leu Met Lys Lys Phe Lys Ser His Leu
 1 5 10 15

Thr Arg Leu Asn Tyr Thr Gly Ala Ala
 20 25

<210> 4181
 <211> 77
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4181

Lys Trp Lys Leu Tyr Arg Arg Tyr Phe Arg Ile Ile Gln Lys Lys Gly
 1 5 10 15

Lys Pro Arg Arg Arg Ala Phe Ala Leu Ser Arg Ser Arg Ala Ile Lys
 20 25 30

Arg Asn Met Lys Phe Lys Gln Ala Leu Tyr Ala Arg Lys Arg Phe Val
 35 40 45

Leu Arg Leu Ala Ile Cys Leu Lys Ala Arg Asp Arg Thr Ala Trp Gly
 50 55 60

Gln Lys Ala Asn Gln Asp Leu Asp Ala Glu Gly His Leu
 65 70 75

<210> 4182
 <211> 54
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4182

Arg Phe Lys Phe Leu Asn Arg Tyr Met Lys Trp Tyr Lys Lys Tyr Ala
 1 5 10 15

Met Tyr Lys His Leu Ala Lys Ala Arg Leu Ala Gly Cys Cys Leu Ala
 20 25 30

Pro Gln Leu Lys Asn Lys Lys Ala Asn Leu Met Phe Arg Arg Asn Leu
 35 40 45

Pro Leu Ala Leu Lys Phe
 50

<210> 4183

<211> 96

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4183

Lys Leu Lys Leu Leu Arg Arg Met Leu Arg Lys Met Lys Lys Arg Leu
 1 5 10 15

Tyr Leu Arg Cys Tyr Asp Phe Arg Leu Ala Ile Lys Trp Val Ile Ser
 20 25 30

Trp Cys Leu Arg Cys Gly Tyr Glu Lys Ala Tyr Leu Phe Pro Val Val
 35 40 45

Gly Leu Arg Arg Arg Lys Gly Leu Met Leu Pro Lys Pro Ala Leu Ile
 50 55 60

Ala Leu Lys Leu Asp Ala Gly Val Leu Trp Phe Leu Arg Arg Ala Arg
 65 70 75 80

Leu Leu Asn Arg Pro Val Cys Ala Cys His Glu Arg Lys Gly Arg Arg
 85 90 95

<210> 4184

<211> 80

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4184

Arg Trp Lys Ile Leu Arg Arg Trp Tyr Lys Arg Leu Lys Arg Pro Ala
1 5 10 15

Leu Tyr Arg Glu Lys Ala Pro Val Phe Phe Lys Ala Glu Tyr Lys His
20 25 30

Glu Leu Phe Lys Arg Lys Trp Glu Arg Lys Lys Ala Met Arg Ala Asn
35 40 45

Ala Ser Ala Cys Leu Lys Arg Tyr Gly Cys Ala Arg Leu Met Ala Pro
50 55 60

Val Leu Asn Gln Asn Ala Arg Ala Thr Ile Leu Ile Leu Ser Ala Leu
65 70 75 80

<210> 4185

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4185

Lys Phe Arg Phe Met His Lys Leu Tyr Lys Leu Leu Arg Asn Arg Asp
1 5 10 15

Lys Ala Ala Ala Arg Ala His
20

<210> 4186

<211> 49

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4186

Lys Phe Arg Leu Leu Asn Arg Leu Leu Lys Phe Phe Gln Arg Leu Lys
1 5 10 15

Arg Arg Gln Lys Met Leu Thr Leu Ser Lys Gly Glu Asp Met Trp Lys
 20 25 30

Leu Asp Leu Arg Phe Leu Asn Ala Lys Ala Val Lys Ala Asp Ala Arg
 35 40 45

Tyr

<210> 4187
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4187

Phe Leu Lys Trp Leu Gln Lys Leu Leu Arg Ile Met Lys Lys Ile Ala
 1 5 10 15

Asp Ala Ala Gln Arg Leu Arg Arg Asn
 20 25

<210> 4188
 <211> 38
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4188

Lys Phe Lys Phe Phe Ser Arg Leu Tyr Arg Trp Met Lys His Leu Pro
 1 5 10 15

Pro Leu Arg His Arg Leu Ala Lys Arg Ala Arg Leu Phe Glu Lys Ala
 20 25 30

Val Asp Lys Gln Ala Asp
 35

<210> 4189
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4189

Lys Trp Arg Met Leu Gln Lys Leu Leu Arg Leu Leu Gln Arg Lys Asn
 1 5 10 15

Phe Lys Tyr Ala His Ala
 20

<210> 4190

<211> 43

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4190

Lys Leu Lys Leu Phe Arg Lys Trp Tyr Lys Lys Met Lys Arg Lys Met
 1 5 10 15

Leu Pro Ala Ala Leu Ala Ala Ser Ala Ala Gly Ile Asn Leu Lys Ala
 20 25 30

Leu Leu Ile Leu Arg Glu Pro Cys Ser Val Thr
 35 40

<210> 4191

<211> 51

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4191

Lys Trp Lys Phe Phe Arg Arg Leu Phe Arg Lys Phe Asn Lys Lys Ala
 1 5 10 15

Ala Cys Arg Phe Gln Ala Lys Glu Tyr Leu Pro Ala Ile Lys Gly Thr
 20 25 30

Arg Ala Lys Lys Leu Ala Phe Leu Leu Ala Arg Tyr Tyr Lys Asn Lys
 35 40 45

Pro Gly Ile

50

<210> 4192
 <211> 93
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4192

Lys Leu Lys Phe Met Lys Lys Met Trp Lys Phe Ile Lys Lys Lys Val
 1 5 10 15

Tyr Arg Met Trp Lys Ala Arg Leu Ala Arg Arg Lys Arg Arg Leu Asn
 20 25 30

Arg Met Ala Pro Leu Ala Lys Asn Gly Ala Ala Leu Ser Leu Leu Asp
 35 40 45

Thr Val Val Cys His Glu Arg His Phe Ala Met Leu Thr Phe Trp Phe
 50 55 60

Leu Leu Leu His Arg Lys Arg Lys Arg Ala Ala Cys Lys His Leu Lys
 65 70 75 80

Ala Glu Phe Pro His Ser Leu Gly Lys Leu Lys Ala Trp
 85 90

<210> 4193
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4193

Arg Phe Lys Trp Met Pro Arg Leu Trp Arg Phe Tyr Lys Lys Pro Ala
 1 5 10 15

Ala Lys Leu His Gly Ala Arg Thr Lys Ala His Ala Gly Arg
 20 25 30

<210> 4194
 <211> 59
 <212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4194

Lys Leu Lys Phe Tyr Pro Arg Phe Ile Lys Arg Leu Lys Asn Leu Lys
1 5 10 15

Lys Leu Val Phe Ser Thr Ala Arg Val Leu Asp Thr Trp Arg Arg Glu
20 25 30

Leu Met Ala Arg Tyr Met Leu Leu Leu Trp Arg Arg Arg Arg Leu Leu
35 40 45

Met Asp Arg Ala Trp Ala Leu His Met Ala Arg
50 55

<210> 4195

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4195

Lys Trp Arg Tyr Leu Arg Arg Leu Phe Arg Ile Met Arg Lys His Leu
1 5 10 15

Cys Ser Ala Phe Cys Lys Met Leu Ala Lys Leu Trp Val Arg Val Ala
20 25 30

Ala Pro

<210> 4196

<211> 31

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4196

Lys Leu Lys Phe Met Asn Arg Trp Ile Lys Lys Phe Pro Thr Leu Pro
1 5 10 15

Ala Arg Ala Leu His Ala Ser Lys Ala Met Ala Leu Ala Asp Arg
 20 25 30

<210> 4197
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4197

Leu Met Arg Met Leu Arg Arg Leu Leu Lys Leu Phe Lys Arg Lys Gln
 1 5 10 15

Leu Trp Ala Thr Lys Ala Asn Tyr Gly Trp Leu Thr Glu Lys Arg Lys
 20 25 30

Lys Ile Leu
 35

<210> 4198
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4198

Lys Leu Lys Phe Phe Arg Arg Trp Phe Arg Ile Leu Lys Gln Gln Leu
 1 5 10 15

Leu Pro Leu Pro Ala Glu Ala Glu Lys
 20 25

<210> 4199
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4199

Arg Leu Arg Leu Leu Pro Lys Met Ile Arg Arg Leu Cys His Ala Ile
 1 5 10 15

Ile Arg Arg Tyr His Arg Ile Lys Ala Lys Tyr Leu Val Ile
 20 25 30

<210> 4200
 <211> 74
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4200

Lys Leu Lys Phe Leu Pro Arg Ile Tyr Arg Arg Leu Thr Asn Lys Ile
 1 5 10 15

Leu Leu Lys Tyr Lys Lys Asn Phe Trp Met Trp Ser Ala Lys Thr Ala
 20 25 30

Ala Ala Gly Gln Arg Cys Ala Gly Ala Ala Pro Arg Arg Trp Leu Lys
 35 40 45

Tyr Arg Lys Ile Met Gly Leu Asn Trp Trp Arg Met Ala Pro Lys Ile
 50 55 60

Leu Ala Lys Leu Arg Ala Met Val Arg Leu
 65 70

<210> 4201
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4201

Leu Leu Lys Phe Ile Lys Lys Ile Leu Lys Leu Ile Lys Lys Lys Ala
 1 5 10 15

Val Tyr Ala His Ala Phe Lys
 20

<210> 4202
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4202

Leu	Phe	Lys	Phe	Ile	Ser	Lys	Phe	Phe	Arg	Met	Leu	Arg	Cys	Ala	Trp
1				5					10					15	

Lys	Asp	Ala	Trp	Arg	Ala	Arg	Met	Leu	Ala	Lys	Arg
		20						25			

<210> 4203

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4203

Lys	Phe	Arg	Leu	Leu	Asn	Arg	Leu	Leu	Lys	Leu	Tyr	Ser	Arg	Leu	Ser
1			5						10					15	

Val	Tyr	Ala	Val	Asp
			20	

<210> 4204

<211> 81

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4204

Leu	Leu	Lys	Phe	Phe	Arg	Arg	Phe	Leu	Lys	Phe	Leu	His	Lys	Leu	Arg
1				5					10					15	

Asp	Leu	Lys	Ala	His	Arg	Ala	Arg	Leu	Ile	Val	Ser	Ile	Asn	Pro	Phe
			20					25					30		

Gly	Arg	Leu	Leu	Tyr	Leu	Lys	Gly	Ala	Ser	Ala	Asp	Ser	Ala	Ala	Ser
		35					40				45				

Leu	Gln	Arg	Leu	Leu	Ala	Lys	Lys	Gly	Asn	Val	Lys	Asp	Asp	Gln	Asp
	50					55					60				

Arg	Leu	Arg	Arg	Lys	Ala	Met	Arg	Lys	Lys	Thr	Ile	Ala	Phe	Gly	His
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

65 70 75 80

Ile

<210> 4205
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4205

Arg Leu Arg Trp Leu Arg Arg Trp Ile Lys Lys Trp Lys Ser His Leu
 1 5 10 15

Leu Asp Asp Arg Lys Leu His Lys Ser Leu Glu Ala Asn Leu Ala Arg
 20 25 30

Ser Arg Tyr
 35

<210> 4206
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4206

Lys Tyr Lys Leu Phe Thr Lys Leu Leu Lys Arg Phe Pro Lys Ala Ile
 1 5 10 15

Glu Leu Ala Trp Gly Ala
 20

<210> 4207
 <211> 96
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4207

Lys Met Lys Met Leu Lys Lys Trp Tyr Lys Phe Ile Asn Pro Arg Lys

1 5 10 15

Ala Lys Lys Leu Pro Ser Lys Ala Ala Ala Ala His Tyr Arg Ser Arg
20 25 30

Ala Asp Lys Arg Trp Asp Val Trp Met Thr Ala Ala Arg Lys Lys Asp
35 40 45

Met Leu Lys Asp Asp Tyr Thr His Pro Phe Ala Val Leu Arg Thr Ala
50 55 60

Trp Arg Leu Asn Lys Pro Lys Ala Lys Ala Arg Arg Thr Gln Ala Leu
65 70 75 80

Arg Pro Asn Lys Leu Trp Leu Asn Leu Lys Ala Leu Ala Ala Cys Arg
85 90 95

<210> 4208
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4208

Leu Phe Lys Met Phe Lys Arg Met Leu Arg Lys Leu Lys Arg Cys Ala
1 5 10 15

Val Gln Phe Asp Tyr Ala Lys Lys Ala Trp Leu Ser Lys Arg Pro Asp
20 25 30

Ala Leu Thr Cys
35

<210> 4209
 <211> 78
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4209

Lys Phe Arg Met Phe Arg Arg Met Tyr Lys Lys Ile Cys Pro Leu Ala
1 5 10 15

Asn Ala Val Leu Phe Leu Lys Ala Asn His Cys Leu Lys Arg Lys Ala
 20 25 30

Met Leu Thr Ser Arg Lys Asp Leu Arg Arg Pro Leu Thr Ala Lys Gly
 35 40 45

Leu Arg Lys Lys Ile Lys Lys Gln Ala Gly Leu Arg Lys Tyr Ala Lys
 50 55 60

Leu Thr Ala Lys Ile Met Val Leu Lys Lys Gly Asp Leu Gly
 65 70 75

<210> 4210

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4210

Met Leu Arg Tyr Leu Arg Lys Leu Phe Arg Arg Leu Arg Cys Asn Asn
 1 5 10 15

Leu Ala Thr Met Phe Leu Trp Pro His Met Lys Lys Arg Tyr Lys Arg
 20 25 30

Val Ala Glu Phe Tyr Lys Leu Ala
 35 40

<210> 4211

<211> 42

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4211

Arg Phe Arg Leu Ile Thr Lys Phe Phe Lys Arg Leu Ser Thr Leu Pro
 1 5 10 15

Asp Ala Met Ala Leu Glu Ser Ser Leu Leu Leu Ala Thr Arg Lys Lys
 20 25 30

Arg Lys Arg Arg Leu Gln Asn Ile Met Ala

35

40

<210> 4212

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4212

Lys Leu Lys Met Leu Lys Lys Trp Met Arg Lys Trp Lys Gln Leu Ala
 1 5 10 15

Pro Tyr Glu Val Arg Lys Leu Leu Ala Lys Ala Gln Leu Val Arg Lys
 20 25 30

Cys His

<210> 4213

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4213

Phe Leu Lys Leu Leu Arg Lys Leu Leu Arg Lys Leu Lys Arg Ala Lys
 1 5 10 15

Leu Lys Leu Thr Ser Met Pro Trp Thr Ala Arg Thr Gly Leu Gly Leu
 20 25 30

<210> 4214

<211> 52

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4214

Arg Tyr Lys Ile Leu Arg Arg Ile Tyr Lys Arg Leu Lys Lys Trp Arg
 1 5 10 15

Arg Leu Val Pro Arg Leu Asp Leu Leu Lys Cys Val His Lys Ile Pro

20

25

30

Lys Ala Gln Trp Leu Leu Gly Ala Asp Gln Lys Ala Ala Ile Ala Tyr
 35 40 45

Glu Leu Ala Lys
 50

<210> 4215
 <211> 48
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4215

Ile Trp Arg Ile Met Lys Lys Leu Tyr Lys Lys Leu Asn Arg Ala Arg
 1 5 10 15

Arg Ala Tyr Leu Ala Gln Ala Cys Ala Ala Leu Leu Ile Lys Glu Ala
 20 25 30

Lys Arg Lys Lys Asp Glu Arg Arg Leu Ala Asp Leu Ile Phe Arg His
 35 40 45

<210> 4216
 <211> 26
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4216

Lys Phe Lys Phe Trp Arg Arg Tyr Leu Arg Tyr Leu Lys Pro Trp Lys
 1 5 10 15

Ala Leu Arg Asn Leu Gln Glu Leu Ala Arg
 20 25

<210> 4217
 <211> 43
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4217

Lys Met Lys Leu Ile Arg Lys Leu Tyr Arg Arg Leu Arg Lys Leu Ala
1 5 10 15

Ala Ala Gly Lys Val Ile Val Asp Lys Ala His Arg Leu Ile Ala Gln
20 25 30

Leu Lys Tyr Arg Arg Ala Leu Ala Leu Thr Asp
35 40

<210> 4218

<211> 52

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4218

Arg Ile Arg Met Leu Lys Lys Trp Phe Arg Arg Tyr Arg Arg Ala Ala
1 5 10 15

Thr Ala His Ile Asp His Ser Leu Leu Phe Cys Arg Arg Met Val Gly
20 25 30

Gln Lys Ala Leu Ile Lys Cys Ala Lys Leu His Leu Gln Ala Arg Ala
35 40 45

Val Leu Leu Ala
50

<210> 4219

<211> 43

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4219

Arg Trp Arg Leu Phe Lys Lys Ile Met Lys Lys Leu Asn Lys Gly Ala
1 5 10 15

Ser Pro Trp Gln Leu Ser Tyr Ala Gln Lys Arg Phe Glu Arg Val Tyr
20 25 30

Ala Ala Lys Lys Ala Ala Trp Lys Arg Leu Cys
 35 40

<210> 4220
 <211> 63
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4220

Arg Leu Lys Phe Leu Ser Lys Leu Trp Arg Arg Leu Lys Lys Arg Ile
 1 5 10 15

Gly Phe Thr Glu Ala Lys Lys Asp Asp Met Gly Ala Phe Trp Lys Lys
 20 25 30

Val Val Leu Leu Asn Leu Lys Leu Arg Arg Ile Gln Pro Ala Leu Ala
 35 40 45

Leu Ala Leu Ala Ala Leu Asn Ala Thr Glu Trp Glu Lys Ala Arg
 50 55 60

<210> 4221
 <211> 37
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4221

Leu Phe Lys Leu Phe Lys Arg Phe Leu Lys Phe Leu Lys Gln Lys Phe
 1 5 10 15

Met Arg Pro Ala Leu Glu Asn Ala Gln Arg Arg Leu Lys Ala Gly Lys
 20 25 30

Ala Leu Lys Ile His
 35

<210> 4222
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4222

Ile	Ile	Arg	Met	Ile	Cys	Lys	Leu	Tyr	Lys	Leu	Leu	His	Lys	Arg	Gln
1				5					10					15	

Phe	Lys	Arg	Ala	Leu
				20

<210> 4223

<211> 60

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4223

Phe	Leu	Lys	Phe	Trp	Cys	Arg	Met	Leu	Lys	Lys	Phe	Arg	Arg	Lys	Met
1				5					10					15	

Arg	Asn	Leu	Leu	Lys	Leu	Met	Ala	Leu	Lys	Ala	Lys	Lys	Met	Leu	Ala
			20					25					30		

Gly	Glu	Arg	Thr	Val	Ser	Arg	Ala	Arg	His	Ser	Met	Leu	Lys	Asn	Leu
			35				40					45			

Asp	Leu	Lys	Lys	Thr	Arg	Glu	Val	Asn	Tyr	Lys	Cys
	50					55					60

<210> 4224

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4224

Leu	Trp	Lys	Met	Leu	Arg	Arg	Tyr	Leu	Arg	Trp	Leu	Pro	Lys	Leu	Ala
1				5					10					15	

Glu	Asp	Cys	Lys	Arg
				20

<210> 4225

<211> 65
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4225

Lys Trp Lys Trp Phe Arg Lys Trp Leu Arg Lys Phe Cys Asn Ala Pro
 1 5 10 15

Asp Lys Ala Asp Tyr Val Glu Val Leu Lys Leu Leu Leu Trp Pro Arg
 20 25 30

Asn Leu Leu Lys Thr Ser Met Gly Arg Lys Lys Ala Leu Lys Leu Ala
 35 40 45

Tyr Ala Leu Leu Cys Ala Met Arg Arg Phe Pro Gly Lys Arg Lys Pro
 50 55 60

Lys
 65

<210> 4226
 <211> 52
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4226

Lys Leu Lys Leu Ile Arg Arg Leu Leu Lys Phe Phe Arg Lys Lys Lys
 1 5 10 15

Phe Leu Gly Asp Glu Ala Ser Ala Cys Lys Arg Lys Gly Thr Cys Ala
 20 25 30

Ile Lys Leu Arg Leu Asn Leu Ala Ala Met Glu Trp Arg Lys Asn Glu
 35 40 45

Gly Leu Asp Lys
 50

<210> 4227
 <211> 23
 <212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4227

Leu Leu Lys Phe Ile Lys Lys Tyr Tyr Lys Met Phe Ser Asn Ala Leu
1 5 10 15

Ala Leu Gly Asp Lys Lys Arg
20

<210> 4228

<211> 98

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4228

Lys Ile Arg Leu Phe Arg Arg Trp Phe Lys Met Leu Arg Arg Arg Leu
1 5 10 15

His Leu Ala Glu Leu Lys Leu Ala His Ala His Phe Gln Val Asn Leu
20 25 30

Ala Phe Thr Pro Leu Leu Ala Arg Ala Ala Leu Leu Phe Val Arg His
35 40 45

Lys Tyr Phe Gly Leu Asn Arg Tyr Ala Leu Ile Arg Tyr Leu His Glu
50 55 60

Lys Ala Leu Ala Gly Ala Lys Ser Arg Tyr Phe Ile Arg Lys Asn Ala
65 70 75 80

Lys Glu Leu Ala Arg Phe Gln Lys Trp Leu Met Ala Ala Arg Gln Lys
85 90 95

Asn Ala

<210> 4229

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4229

Arg	Tyr	Lys	Trp	Phe	Arg	Lys	Met	Leu	Lys	Leu	Trp	Ser	Arg	Lys	Gly
1				5					10					15	

Ala	Ala	Ala	Leu	Ala
			20	

<210> 4230

<211> 38

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4230

Lys	Leu	Lys	Leu	Leu	Lys	Lys	Leu	Leu	Lys	Lys	Trp	Arg	Lys	Pro	His
1			5					10					15		

Lys	Leu	Gln	Met	Ile	Ala	Leu	Leu	Glu	Glu	Trp	His	Lys	Ala	Leu	Ala
			20					25					30		

His	Ala	Ile	Leu	Gly	Lys
			35		

<210> 4231

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4231

Lys	Met	Lys	Leu	Ile	Lys	Arg	Phe	Phe	Arg	Leu	Phe	Asn	Lys	Cys	Lys
1			5					10					15		

Ala	Lys	Leu	Gln	Ala	Ala	Gln	Ile
			20				

<210> 4232

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4232

Met	Trp	Lys	Leu	Phe	Asn	Lys	Tyr	Phe	Arg	Arg	Leu	Lys	His	Gln	Ile
1				5					10					15	

Leu	Leu	Phe	Leu	Phe	Gly	Lys	Arg	Ala	Ala	Leu	Leu
			20					25			

<210> 4233

<211> 41

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4233

Leu	Leu	Lys	Leu	Met	Ser	Lys	Tyr	Met	Arg	Arg	Trp	Arg	Gln	Ala	Lys
1				5					10					15	

Phe	Val	Lys	Leu	Leu	Arg	Thr	Val	Pro	Arg	Lys	Gly	Lys	Lys	Asn	Tyr
			20					25						30	

Asn	Arg	Ala	Ala	Trp	Ile	Arg	Ala	Leu
		35					40	

<210> 4234

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4234

Lys	Phe	Lys	Met	Leu	Arg	Lys	Leu	Leu	Arg	Lys	Tyr	Arg	Lys	Ala	Tyr
1				5					10					15	

Met	Thr	Ser	Ala	Met	Ala	Ala
			20			

<210> 4235

<211> 53

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4235

Ile	Leu	Lys	Phe	Phe	Lys	Arg	Ile	Phe	Arg	Leu	Leu	Lys	Thr	Val	Ala
1				5					10					15	

Trp	Ala	His	Leu	Val	Arg	Val	Ser	Arg	Leu	Leu	Phe	Arg	Leu	Lys	Leu
			20					25					30		

Asp	His	Lys	Ala	Arg	Met	Ala	Val	Lys	Gly	Lys	Arg	Arg	Ala	Lys	Leu
		35					40					45			

Trp	His	Ala	Leu	Lys
				50

<210> 4236

<211> 56

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4236

Met	Tyr	Arg	Phe	Ile	Arg	Arg	Leu	Trp	Arg	Trp	Trp	Arg	Arg	Pro	Arg
1				5					10					15	

Met	Ala	Phe	Ala	Ala	Tyr	Ile	Arg	Gln	Ala	Leu	Gly	Arg	Lys	Pro	Ala
			20					25					30		

Asn	Arg	Tyr	Leu	Cys	Ile	Val	Gly	Ala	Leu	Lys	Ala	Arg	Gln	Ala	Arg
		35					40					45			

Lys	Phe	Met	Ala	Lys	Arg	Gln	Lys
		50				55	

<210> 4237

<211> 67

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4237

Lys	Leu	Lys	Phe	Phe	Arg	Lys	Leu	Tyr	Lys	Lys	Leu	Lys	Thr	Trp	Arg
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

<210>	4238
<211>	23
<212>	PRT
<213>	Artificial Sequence
<220>	
<223>	Computer-generated peptide variant
<400>	4238

Leu Leu Arg Trp Leu Arg Lys Trp Phe Arg Arg Phe Lys His Gln Gly
1 5 10 15

Glu Arg Glu Leu Leu Leu Thr
20

<210>	4239
<211>	61
<212>	PRT
<213>	Artificial Sequence
<220>	
<223>	Computer-generated peptide variant
<400>	4239

Arg	Leu	Lys	Leu	Trp	Gln	Arg	Leu	Leu	Lys	Lys	Ile	Lys	Lys	Lys	Trp
1				5					10					15	
Cys	Gln	Asp	Val	Lys	Lys	Gly	Arg	Phe	Thr	Asn	Leu	Arg	Leu	Lys	Leu
			20					25					30		
Trp	Arg	Ile	Arg	Tyr	Pro	Lys	Ala	Arg	Val	Pro	Ser	Ala	Tyr	Arg	Leu
		35					40					45			

Cys Ala Leu Glu Lys His Gly Leu Leu Ala Gly Asn Phe
 50 55 60

<210> 4240
 <211> 41
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4240

Arg Leu Arg Tyr Ile Ser Lys Leu Phe Lys Tyr Leu Arg Arg Phe Lys
 1 5 10 15

Leu Ser Ser Ala Tyr Ala Leu Gln Leu Lys Tyr Pro Lys Leu Met Trp
 20 25 30

Trp Ala Leu Lys Asn Leu Gly Lys Trp
 35 40

<210> 4241
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4241

Arg Leu Lys Ile Ile Ser Arg Tyr Leu Lys Arg Phe Arg Thr Leu Leu
 1 5 10 15

Lys Arg Leu Asn Leu Ala Trp Leu Lys Arg His His Arg His Ala Ala
 20 25 30

<210> 4242
 <211> 47
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4242

Arg Leu Lys Leu Phe Arg Lys Phe Trp Lys Arg Leu Pro Lys Arg His
 1 5 10 15

Lys Phe Leu Tyr Met Ala His Ala Lys Asn Val Cys Ala Leu Gln Ala
 20 25 30

Glu Leu Ala Leu Ala Ile Pro Arg Leu Leu Ser Pro Cys Lys Tyr
 35 40 45

<210> 4243

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4243

Lys Leu Arg Leu Met Lys Arg Trp Phe Lys Leu Leu Cys Lys Ser Ser
 1 5 10 15

Ala Ser Cys Ala His Thr His Phe Ala Leu Val Arg Arg Ala Ala Ile
 20 25 30

<210> 4244

<211> 80

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4244

Arg Phe Arg Phe Ile Lys Arg Phe Met Lys Arg Ile Pro Lys Met Leu
 1 5 10 15

Glu Gly Ile Ala Met Phe Arg Ala Ala Ala Arg Leu Ala Ala Ala
 20 25 30

Glu Asp Ala Ala Leu Lys Glu Ala Ala Gln Cys Arg Ser Ala Arg Val
 35 40 45

Pro Lys Lys Cys Cys Arg Ser Ser Lys Lys Lys Leu Ala Gln Val Cys
 50 55 60

Leu Ala Val Ala Lys Arg Asn Asp Thr Thr Leu Ser Ser Ala Arg Arg
 65 70 75 80

<210> 4245

<211> 61
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4245

Arg Leu Lys Leu Trp Arg Arg Met Phe Arg Lys Phe Lys Lys Tyr Glu
 1 5 10 15

Phe Arg Gln Leu Lys Ala Ala Asn Leu Ala Lys Pro Gly Met Leu Phe
 20 25 30

Leu Gly Arg Val Ala Arg Lys Ala Cys Ala Arg His Arg Ala Phe Met
 35 40 45

Arg Ile Cys Phe Pro Leu Ala Ala Ala Met Asp His Lys
 50 55 60

<210> 4246
 <211> 64
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4246

Arg Ile Arg Tyr Phe Thr Lys Leu Phe Lys Lys Met Arg His Leu Cys
 1 5 10 15

Arg Ile Lys Gly Leu Arg Lys Gly Leu Asp Lys Lys Leu Leu Ile Ala
 20 25 30

Lys Leu Lys Lys Cys His Leu Leu Ala Leu Gln Glu Asp Gln Arg Thr
 35 40 45

Thr Ala Glu Ser Thr Ser Leu Leu Ile Tyr Leu Leu Asn Ala Ala Ala
 50 55 60

<210> 4247
 <211> 31
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4247

Leu Leu Arg Phe Met Gln Arg Met Met Arg Tyr Ile His Arg Val Tyr
1 5 10 15

Arg Ala Gln Tyr Lys Arg Arg Leu Arg Lys Leu Ala Ala Ala Gly
20 25 30

<210> 4248

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4248

Arg Leu Arg Leu Phe Thr Arg Tyr Tyr Arg Trp Phe Lys Thr Ala Thr
1 5 10 15

Leu Leu Ala Arg Leu Leu
20

<210> 4249

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4249

Phe Leu Lys Met Tyr His Arg Tyr Leu Lys Arg Leu Cys Arg Lys Ala
1 5 10 15

Arg Tyr Ser Lys Gly Lys Gln Asn Leu Ala Glu Ala Leu
20 25

<210> 4250

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4250

Leu Leu Arg Phe Ile Lys Lys Trp Met Arg Arg Met Lys Cys Thr Trp

1 5 10 15

Ala Arg Cys Pro Ser Tyr Ser Ala Ile Arg Asn Ala Gly Ala Ala Cys
20 25 30

Leu Leu Lys Leu Glu Leu Ala Arg
35 40

<210> 4251
<211> 61
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 4251

Trp Leu Lys Leu Trp Arg Lys Met Leu Arg Trp Leu Lys Lys Lys Leu
1 5 10 15

Leu Ala Arg Arg Asp Lys Leu Lys Ala His Lys Met Gly Lys Leu Met
20 25 30

Gly Leu Leu Leu Ala Lys Asn Ile Ile Gly Ala Gln Thr Ala Val Lys
35 40 45

Ala Ala Arg His Lys Asn Val Phe Ala Gly Lys Met Ser
50 55 60

<210> 4252
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 4252

Lys Phe Arg Leu Met Lys Arg Leu Ile Arg Phe Ile Pro Asn Leu Tyr
1 5 10 15

Leu Gly Ala Arg Tyr Leu Leu Asn Leu Leu Arg Lys Asn Phe
20 25 30

<210> 4253
<211> 67
<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4253

Arg Ile Lys Ile Met Lys Lys Tyr Leu Arg Arg Met Lys Lys Gly Gln
1 5 10 15

Leu Leu Leu Arg Arg Cys Leu Asp Ala Ala Met Thr Arg Asp Leu Arg
20 25 30

Pro Leu Ala Asn Arg Leu Cys Ala Leu Trp Lys Met Trp Asp Gln Arg
35 40 45

Ile Met Thr Leu Leu Gly His Arg Arg Arg Ala Gln Gly Arg Arg Tyr
50 55 60

Lys Arg Ala
65

<210> 4254

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4254

Leu Met Arg Leu Phe His Lys Leu Phe Arg Trp Leu Arg Thr Arg His
1 5 10 15

Lys Tyr Lys Leu Asp Ala Ala Arg Gln Ala Asp His Ser Trp Lys Leu
20 25 30

Ile Leu

<210> 4255

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4255

Arg Tyr Lys Leu Leu Asn Arg Tyr Tyr Lys Tyr Phe Arg Lys Val Ala
 1 5 10 15

Gly Lys Leu Leu Gly Cys Ala Arg
 20

<210> 4256

<211> 72

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4256

Arg Leu Lys Leu Leu Arg Arg Leu Ile Lys Arg Leu Lys Cys Gly Ala
 1 5 10 15

Gln Lys Leu Ala Ala Ala Thr Arg Leu Lys Arg Lys Ala Arg Ala Arg
 20 25 30

Arg Met Met Tyr Lys Leu Asp Ser Tyr Glu His Leu His Cys Pro Ile
 35 40 45

Met Arg Gln Ile Asn Pro Lys Lys Trp Leu Tyr Lys Phe Cys Glu Tyr
 50 55 60

Leu Trp Ser Tyr Ala Ala Lys His
 65 70

<210> 4257

<211> 61

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4257

Arg Phe Arg Leu Phe Lys Lys Leu Leu Lys Tyr Trp Gln Arg Arg Leu
 1 5 10 15

Thr Thr Leu Lys Asp Glu Ser Leu Gly Asp Phe Lys Arg Glu Tyr Asp
 20 25 30

Lys Leu Met Lys Leu Arg Leu Arg Arg Leu Trp Ala Ala Lys Met Ser

35

40

45

Thr Lys Ala Thr Gly Tyr Lys Val Leu Arg Ala Trp Met
 50 55 60

<210> 4258

<211> 90

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4258

Arg Leu Arg Leu Leu Pro Lys Met Leu Arg Leu Leu Ser Arg Gly Gly
 1 5 10 15

Arg Ala Ile Leu Gly Gln Tyr Lys Ala Arg Leu Asn Gly Arg Gln Leu
 20 25 30

Lys His Ala Tyr Leu Ala Lys Lys His His Lys Arg Cys Asp Trp Leu
 35 40 45

Met Met Val Ile Met Leu Ala Lys Ile Arg Asn Cys Lys Asn Met Asn
 50 55 60

Arg Leu His Glu Arg Met Leu Lys Leu Ser Lys Asp Arg Arg Leu Gly
 65 70 75 80

Leu Arg Arg Ala Leu Val Ile Lys Glu Thr
 85 90

<210> 4259

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4259

Trp Ile Lys Leu Leu Ser Lys Phe Phe Lys Phe Leu Lys His Tyr Lys
 1 5 10 15

Pro Arg Lys Ala Leu
 20

<210> 4260
 <211> 47
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4260

Arg Leu Arg Leu Leu Cys Arg Ile Phe Lys Ile Phe Asn Lys Leu Ala
 1 5 10 15

Pro Ser Leu Trp Lys Ala Ala Asp His Arg Lys Gln Pro Leu Val Lys
 20 25 30

Arg Ala Leu Pro Tyr Thr Ala Lys Arg Trp Leu Arg Ala Ala Lys
 35 40 45

<210> 4261
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4261

Ile Phe Arg Tyr Phe Ser Arg Ile Leu Lys Phe Phe Arg Lys Lys Ala
 1 5 10 15

Asn Arg Ala Asn Leu Ala Ala Lys Thr
 20 25

<210> 4262
 <211> 66
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4262

Arg Leu Lys Tyr Leu Arg Arg Phe Ile Arg Lys Trp Lys Lys Leu Arg
 1 5 10 15

Gln Tyr Leu Ala Ala Gly Asn Leu Lys Arg Leu Leu Leu Tyr Pro Lys
 20 25 30

Val Asn Val Arg Thr Lys Lys Asn Ala Ala Ser Gly Lys Phe Thr Lys
 35 40 45

Gly Cys Phe Leu Ser Arg Leu Leu Lys Ala Asn Asn Ser Val Lys Trp
 50 55 60

Asp Lys
 65

<210> 4263
 <211> 84
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4263

Arg Tyr Arg Met Leu Arg Lys Trp Phe Arg Leu Phe Lys Arg Lys Ala
 1 5 10 15

Lys Ala Thr Leu Arg Ala Lys Lys Arg Ala Leu Trp Gly Lys Arg Lys
 20 25 30

Asn Gln His Trp Arg Thr Glu Gln Ser Asn Lys Ala Ala Lys Leu Asp
 35 40 45

Gln Pro Ile Lys Pro Arg Asp Leu Asn Gly Val Leu Ala Arg Lys Thr
 50 55 60

Arg Arg Glu Ala Asn Val Ala Lys Thr Trp Ala Ala Ser Lys Tyr Lys
 65 70 75 80

Ala Asn Leu Ser

<210> 4264
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4264

Arg Leu Arg Leu Leu Lys Arg Leu Ile Arg Lys Phe Lys Cys Leu Ser

1 5 10 15

Asn Asp Leu Arg Cys Phe Ser Gly Pro
20 25

<210> 4265
<211> 60
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 4265

Lys Ile Arg Phe Phe Arg Lys Leu Tyr Arg Phe Leu Asn Lys Arg Lys
1 5 10 15

Ala Ser Lys Asp Gln Arg Ala Leu Glu Ala Glu Tyr Arg Ser Leu Asp
20 25 30

Lys Pro Ala Lys Arg Asp Leu Arg Ile Ser Arg His Trp Pro Ser Leu
35 40 45

Ala Arg Phe Glu Ala Gln Cys Leu Ala Arg Arg Val
50 55 60

<210> 4266
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 4266

Lys Phe Lys Ile Leu Arg Arg Leu Leu Lys Arg Ile Cys Thr Phe Ala
1 5 10 15

Asn Lys Pro Phe Arg Leu Leu Arg Glu Ala Asp Cys
20 25

<210> 4267
<211> 25
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 4267

Leu Tyr Arg Phe Leu Pro Lys Leu Tyr Arg Arg Trp Lys Arg Ala Lys
1 5 10 15

Tyr His Phe Leu Asp Leu Leu Trp Ile
20 25

<210> 4268

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4268

Tyr Trp Arg Met Leu Arg Lys Leu Ile Arg Leu Tyr Lys Asn Ala Phe
1 5 10 15

Val Leu Ser Ala Arg Ala
20

<210> 4269

<211> 44

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4269

Lys Leu Lys Leu Trp Lys Arg Trp Leu Arg Lys Phe Lys His Ala Met
1 5 10 15

Arg Arg Gly Phe Leu Val Leu Ala Leu Arg Asp Val Trp Arg His Pro
20 25 30

Lys Arg Asp Ser Leu Met Arg Ala Ala Met Thr Arg
35 40

<210> 4270

<211> 97

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4270

Arg Leu Lys Phe Phe Cys Lys Phe Phe Arg Phe Leu Lys Gln Arg Gly
1 5 10 15

Arg Met Thr Ser Ala Ala Leu Cys Gln Val Gln Asp Arg Phe Val Met
20 25 30

Trp Arg Lys Arg Leu Met Thr Leu Cys Leu Tyr Ala Ile Lys Ala Ile
35 40 45

Asn Cys Gly Ser Lys Ala His Leu Leu Ala Ala Leu Arg Ser Asn Leu
50 55 60

Leu Cys Ile Arg Arg Asn Ala Arg Ala Arg Ala Asn Lys Val Gln Lys
65 70 75 80

Leu Leu Leu Glu Lys Tyr Trp Lys Arg Leu Leu Lys Arg Lys Gly Arg
85 90 95

Leu

<210> 4271

<211> 31

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4271

Leu Trp Arg Ile Leu Arg Arg Met Trp Arg Phe Leu Arg Arg Lys Pro
1 5 10 15

Ala Lys Ala Ile Pro Thr Ala Ala Ala Lys Ser His Lys Asp Ser
20 25 30

<210> 4272

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4272

Arg Leu Lys Leu Ile Pro Arg Phe Ile Lys Ile Ile Asn Ser Phe Arg
 1 5 10 15

Arg Ala Arg Ala Leu Leu Leu Arg Phe Ile Asn Leu Gly
 20 25

<210> 4273
 <211> 71
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4273

Arg Phe Arg Phe Leu Asn Lys Leu Leu Lys Arg Trp Lys Arg Ile Ala
 1 5 10 15

Ala Thr Arg Phe Phe Arg Lys Trp Leu Met Leu Lys Met Ile Ala Met
 20 25 30

Gly Asp Ala Val Ser Val Val Cys Ala Phe Lys Arg Lys Arg Lys Leu
 35 40 45

Met Lys Lys Arg Ala Arg Ala Ala Leu His Thr Trp Gly Ser Met Pro
 50 55 60

Ala Leu Pro Ala Asp Leu Lys
 65 70

<210> 4274
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4274

Arg Trp Lys Trp Phe Lys Lys Leu Met Lys Trp Phe Pro Lys Leu Asp
 1 5 10 15

Thr Ala Ala Met Lys Arg Glu Ala Leu Ala Met Thr Leu Ala Asn Ala
 20 25 30

Ser Thr Arg Lys Tyr Leu Leu Met

35

40

<210> 4275

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4275

Arg Met Lys Leu Leu His Arg Leu Leu Arg Arg Leu Arg Pro Glu Lys
 1 5 10 15

Arg Gly Ala Arg Leu Glu Arg Ser Ala Lys Cys Arg Ala Ser Phe Glu
 20 25 30

Ala Tyr Lys His
 35

<210> 4276

<211> 95

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4276

Leu Phe Arg Ile Leu Lys Arg Leu Leu Arg Lys Phe Lys Arg Gly Arg
 1 5 10 15

Glu Val Asp Ile Met Asp Leu Met Gly Arg Ala Trp Pro Arg Ala Trp
 20 25 30

Met Met Ala Tyr Lys Arg Lys Val Gln His Ala Tyr Leu Arg Arg Phe
 35 40 45

Leu Leu Lys Leu Met Lys Val Lys Ala Leu Val Leu Asn Cys Leu Ala
 50 55 60

Glu His Gly Leu Glu Met His Phe Leu Asn Arg His His Leu Arg Leu
 65 70 75 80

Lys Lys Ile Ala Lys Arg Ala Lys Arg Arg Val Cys His Lys Arg
 85 90 95

<210> 4277
 <211> 73
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4277

Leu Tyr Lys Leu Ile Thr Arg Phe Leu Lys Tyr Tyr Asn Lys Lys Arg
 1 5 10 15

Lys Val Ala Trp Cys Val Lys Arg Gln Ala Arg Leu Arg Arg Ala Lys
 20 25 30

Arg Lys Gly Tyr Gly Thr Gln Tyr Lys Gln Ala Phe Ala Met Leu Ile
 35 40 45

Tyr Phe Leu Ala Glu Val Lys Lys Lys Arg Leu Trp Arg Lys Met Val
 50 55 60

Leu Lys Ala Ala Asn Pro Leu Lys Leu
 65 70

<210> 4278
 <211> 45
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4278

Phe Leu Lys Leu Leu Ser Lys Phe Met Lys Lys Leu Arg Ser Ala Arg
 1 5 10 15

Ala Tyr Val Gln Leu Trp Asn Asn Lys Arg Pro Arg Lys Lys Ala Trp
 20 25 30

Phe Arg Ala Trp Ala Arg Lys Lys Trp Ala Ala Lys Ser
 35 40 45

<210> 4279
 <211> 62
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4279

Lys	Met	Arg	Leu	Met	Thr	Lys	Leu	Leu	Arg	Phe	Met	Lys	Thr	Ser	Leu
1				5					10					15	

Leu	Lys	Ala	Leu	Arg	Val	Arg	Trp	Arg	Ala	Arg	Ala	Tyr	Trp	Asp	Lys
			20					25					30		

Leu	Leu	Ala	Thr	Ala	His	Arg	Arg	Trp	Lys	Ser	Asp	Gln	Glu	Ile	Ala
		35					40					45			

Tyr	Asp	Arg	Lys	Val	Leu	Gly	Ala	Ser	Val	Lys	Gly	Ala	Ala
	50					55					60		

<210> 4280

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4280

Lys	Leu	Arg	Leu	Phe	Arg	Lys	Trp	Leu	Arg	Arg	Leu	Arg	Lys	Tyr	Gly
1				5					10					15	

Gly	Pro	Leu	Asp	Ile	Thr	Ala	Lys	Ala
		20					25	

<210> 4281

<211> 54

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4281

Lys	Tyr	Arg	Leu	Leu	Thr	Lys	Leu	Phe	Lys	Arg	Leu	Arg	His	Arg	Leu
1				5					10					15	

Leu	Val	Ser	Ile	Ala	Arg	Gly	Ile	Trp	Thr	Gln	Gln	Lys	Ala	Met	Ser
			20					25					30		

Arg	Arg	Leu	Ser	Leu	Tyr	Ala	Ala	Arg	Ile	Val	Thr	Arg	Ile	Ala	Lys
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

35

40

45

Lys Ala Ala Arg Lys Pro
50

<210> 4282
<211> 44
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 4282

Arg Met Arg Leu Trp Arg Arg Trp Trp Arg Tyr Leu Lys Arg Lys Lys
1 5 10 15

Gly Leu Trp Phe Cys Arg Arg Arg Ala Met Lys Gln Ala Ala Leu Leu
20 25 30

Leu Met Arg Leu Ala Trp His Val Phe Leu Tyr Leu
35 40

<210> 4283
<211> 48
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 4283

Leu Trp Arg Tyr Leu Arg Lys Leu Phe Lys Arg Leu Asn His Ala Arg
1 5 10 15

Phe Ala Thr Pro Lys Leu Leu Leu Ile Pro Tyr Ala Ala Leu Asp Lys
20 25 30

Ala Asn Thr Arg Lys Val Leu Arg Gln Val Ala Ser Thr Arg Trp Trp
35 40 45

<210> 4284
<211> 41
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 4284

Arg Leu Arg Trp Trp Lys Lys Leu Ile Lys Arg Ile Lys Lys Ile Ala
1 5 10 15

Ser Arg Ala Gly Ser Ala Arg Gln Leu Ala Asn Asp Gly Ile His Leu
20 25 30

Asp Leu His Leu Phe Arg Arg Ala Arg
35 40

<210> 4285

<211> 45

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4285

Arg Phe Lys Leu Ile Cys Lys Ile Leu Lys Leu Ile Ser His Leu Gly
1 5 10 15

Leu Lys Phe Gly Arg Leu Leu Arg Tyr Phe Gly Ala Tyr Leu Ala Leu
20 25 30

Lys His Ala Lys Thr Ala Lys Ser Ala Leu Ile Gly Lys
35 40 45

<210> 4286

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4286

Arg Leu Arg Met Ile Arg Lys Phe Ile Arg Lys Phe Cys Gln Gln Ala
1 5 10 15

Tyr His Met Leu Val Leu Leu Lys Ala Lys Ala Tyr Ala Leu Trp Asn
20 25 30

Arg Lys

<210> 4287
 <211> 38
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4287

Lys Phe Arg Leu Ile Lys Arg Leu Tyr Lys Leu Phe Lys His Gln Ala
 1 5 10 15

Phe Leu Arg Ala Arg Arg Ile Ala Phe Ala Ile Glu Ala Ala Ala Trp
 20 25 30

Ala Leu Lys Lys Pro Leu
 35

<210> 4288
 <211> 42
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4288

Trp Trp Lys Leu Phe Gln Arg Trp Leu Arg Trp Leu His Lys Gln His
 1 5 10 15

Arg Ala Asn Arg Gln Leu Ala Ile Arg Leu Ile Ala Leu Phe Leu Leu
 20 25 30

Ala Arg Cys Arg Trp Arg Leu Glu Lys Asp
 35 40

<210> 4289
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4289

Lys Phe Arg Leu Tyr Asn Lys Leu Tyr Lys Arg Leu Pro Lys Met Leu
 1 5 10 15

Ala Arg Leu Lys Pro Leu
20

<210> 4290
<211> 68
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 4290

Phe Ile Lys Leu Leu Ser Lys Leu Leu Arg Leu Ile Lys Arg Glu Thr
1 5 10 15

Arg Ala Lys Ala Lys Lys Ser Gly Leu Asp Asn Leu Leu Pro Phe Lys
20 25 30

Phe Lys Val Arg Arg Ser Arg Ala Asp Arg Ala Arg Arg Leu His Ile
35 40 45

Ala Ala Gln Leu Gly Ser Met Ile Thr Ala Trp Leu Glu Lys Leu Cys
50 55 60

Ala Ala Leu Thr
65

<210> 4291
<211> 100
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 4291

Trp Ile Lys Leu Leu Arg Lys Phe Leu Lys Met Tyr Gln His Asp Ala
1 5 10 15

Glu Ala Asp Glu Tyr Ser Ser Val Lys Ser Lys Lys Arg Leu Ala Arg
20 25 30

Phe Asp Phe Glu Tyr Ile Val Ser Ser Ser Leu Leu Lys Arg Ala Ala
35 40 45

Lys Met Leu Met Ala Arg Arg Arg Lys Cys Gln Ala Lys Leu Leu Arg

50 55 60
 Arg Tyr Ala Pro Ile Lys Leu Ile Lys Lys Gln Val Arg Ala Gly Glu
 65 70 75 80
 Lys Leu Lys Arg Val Leu Leu Leu Ala Trp Asp Thr Gln Ala Ala Lys
 85 90 95
 Arg Pro Lys Leu
 100

<210> 4292
 <211> 31
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Computer-generated peptide variant

 <400> 4292

Tyr Leu Arg Tyr Met Asn Arg Leu Ile Lys Leu Leu Arg Thr Leu Arg
 1 5 10 15
 Arg Leu Met His Ile Lys Leu Ala Arg Phe Ala Tyr Trp Lys Thr
 20 25 30

<210> 4293
 <211> 75
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Computer-generated peptide variant

 <400> 4293

Arg Phe Lys Tyr Leu Lys Lys Trp Leu Lys Leu Leu Arg Lys Leu Arg
 1 5 10 15
 Trp Glu Asp Ala Leu Ala His Leu Glu Leu Arg Trp Thr Ser Ala Pro
 20 25 30
 Arg Arg Cys Ala Trp Cys Met Leu His Pro Lys Ala Arg Gly Leu Ile
 35 40 45
 Asn Lys Cys Leu Lys Lys Arg His Trp Pro Cys Glu Leu Leu His Ala
 50 55 60

Ser Ala Leu Pro Tyr Arg Ala Lys Tyr Arg Ser
 65 70 75

<210> 4294
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4294

Phe Leu Arg Phe Ile Thr Arg Ile Met Arg Lys Leu Thr Arg Asp Leu
 1 5 10 15

Met Pro Met Ala Leu Ala Lys Glu Ala Ala Lys Ala Arg Val Leu Lys
 20 25 30

<210> 4295
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4295

Trp Phe Arg Trp Leu Lys Arg Met Phe Lys Arg Leu Pro Lys Gln Ala
 1 5 10 15

Ala Asp Ile Leu Lys Ala Ser Lys Tyr Leu Pro Lys Ala
 20 25

<210> 4296
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4296

Arg Leu Arg Tyr Leu Cys Lys Leu Met Arg Arg Ile Asn Asn Leu Leu
 1 5 10 15

Ala Asn Leu Leu Lys Asn
 20

<210> 4297
 <211> 94
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4297

Arg Phe Arg Leu Trp Asn Lys Phe Tyr Lys Lys Tyr Lys Lys Lys Ala
 1 5 10 15

Trp Leu Leu Leu Ala Tyr Phe Asp Tyr Arg Lys Lys Met Leu Leu Cys
 20 25 30

Glu Ala Tyr Lys Ala Glu Gln Arg Phe Ser Asp Leu His Tyr Lys Ala
 35 40 45

Lys Arg Lys Lys Val Arg Cys Asp Gln Ala Ala Trp Arg Leu Ile Val
 50 55 60

Lys Leu Arg Ser Lys Arg Leu Leu Leu Lys Gly Glu Arg His Asn Lys
 65 70 75 80

Lys Leu Leu Lys Ala Met Ala Arg Leu Ala Leu Asn Ile Arg
 85 90

<210> 4298
 <211> 67
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4298

Lys Leu Lys Phe Trp Arg Arg Phe Phe Lys Lys Leu Arg Arg Cys Leu
 1 5 10 15

Asp Arg Asn Phe Lys Ala Leu Leu Arg Lys Arg Leu Asn Leu Trp Tyr
 20 25 30

Arg Asn Met Ile Leu Ala Ala Cys Ala Gln Arg Ala Arg Cys Lys Leu
 35 40 45

Leu Lys Thr Lys Gln Lys His Leu Ala Thr Leu Ala Ile Leu His Val

50

55

60

Pro Lys Lys
65

<210> 4299
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 4299

Lys Leu Arg Leu Phe Cys Lys Tyr Tyr Arg Leu Phe Arg Ser Lys Gly
1 5 10 15

Thr Leu Ala Leu Lys Cys Ala Ser Lys Leu Lys Leu
20 25

<210> 4300
<211> 60
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 4300

Leu Leu Lys Leu Leu Arg Arg Phe Met Arg Lys Ile Pro His Leu His
1 5 10 15

Ala Val Gly Ala Arg Lys Pro Lys Tyr Met Arg Ser Ala Met Ala Leu
20 25 30

Phe Ile Lys Lys Ile Gly Ile Lys Asn Phe Ser Arg Lys Lys Ala Ala
35 40 45

Lys Ala Lys Pro Arg Lys Leu Leu Val Gly Leu Trp
50 55 60

<210> 4301
<211> 61
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 4301

Phe Leu Arg Met Met Arg Lys Phe Leu Arg Phe Leu Arg Lys Asn Lys
1 5 10 15

Leu Val Arg Asp Glu Gly Arg His Tyr Ala Leu Lys Val Asn His Trp
20 25 30

Ala Ala Leu Arg Ile Lys His Arg Ala Gln Asn Leu Leu Ile Leu Lys
35 40 45

Ser Arg Pro His Ala Lys Arg Thr Ala Leu Leu Asn Val
50 55 60

<210> 4302

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4302

Leu Tyr Arg Ile Tyr Thr Lys Leu Leu Arg Leu Trp Lys Arg Leu Lys
1 5 10 15

Arg Lys Lys Leu Lys Leu Lys Ala Ala Ala Lys Phe Gly Lys Phe Thr
20 25 30

His Leu Ala Thr
35

<210> 4303

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4303

Lys Leu Arg Leu Leu Thr Lys Leu Phe Lys Trp Leu Cys Lys Thr Ala
1 5 10 15

Asp Ile Trp Lys Cys Cys Lys
20

<210> 4304
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4304

Arg Phe Arg Phe Phe Ser Arg Tyr Met Arg Leu Met Lys Arg His Lys
 1 5 10 15

Ala Ala Ile Leu Ala Phe Lys Leu Arg Thr Leu His Leu Lys Arg His
 20 25 30

<210> 4305
 <211> 37
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4305

Phe Tyr Lys Leu Leu Arg Lys Ile Leu Arg Lys Leu Lys Gln Leu Trp
 1 5 10 15

Leu Gln Val Ala Arg Gln Arg Thr Gly Arg Val His Leu Asn Arg Ala
 20 25 30

Lys Asn Met Trp Lys
 35

<210> 4306
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4306

Arg Phe Lys Phe Trp Lys Lys Leu Leu Arg Leu Leu Lys Gln Met Arg
 1 5 10 15

Leu His Thr Lys Ala Phe Arg Ala Arg Gln Ala Gly Asp Arg Tyr Pro
 20 25 30

Met Ile Arg Gly Cys Asp Ala Arg
 35 40

<210> 4307
 <211> 38
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4307

Met Leu Arg Phe Ile Arg Lys Leu Phe Arg Arg Phe Cys Thr Tyr Ser
 1 5 10 15

Arg Thr Leu Pro Val Ala Lys Lys Ala Met Leu Lys His Leu Leu Ala
 20 25 30

Lys Leu Ser Arg Val His
 35

<210> 4308
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4308

Arg Tyr Lys Ile Leu Lys Arg Phe Leu Lys Arg Phe Arg Cys Phe Ala
 1 5 10 15

Gln Lys Ala Leu Leu Ala Asn Tyr Met Lys Leu Lys Ala Leu Met Ile
 20 25 30

Ser Arg Leu Cys
 35

<210> 4309
 <211> 45
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4309

Lys Leu Lys Leu Trp Lys Arg Ile Met Lys Arg Leu Arg Pro Arg Leu
 1 5 10 15

His Ala Lys Asp Val Pro Lys Lys Glu Val Val Val Leu Trp Lys Met
 20 25 30

Val Leu Leu Met Gln Leu Asn Leu Ala Asn Arg Ala Ala
 35 40 45

<210> 4310
 <211> 49
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4310

Lys Met Arg Met Leu Lys Arg Leu Leu Arg Lys Trp Arg Asn Val Thr
 1 5 10 15

Pro Phe Phe Tyr Ala Leu Leu Arg Leu Leu Ala Arg His Ser Asp Val
 20 25 30

Leu Val Lys Leu Gly Leu Leu Trp Val Leu Ala Arg Ala Lys Lys Ala
 35 40 45

Gly

<210> 4311
 <211> 49
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4311

Lys Leu Arg Phe Phe Pro Lys Trp Leu Lys Leu Leu Gln Thr Ser Tyr
 1 5 10 15

Arg Leu Lys Ala Met Arg Pro Lys Arg Leu Arg Trp Cys Ile Phe Lys
 20 25 30

Arg Lys Arg Phe His Lys Met Leu Lys Ser Leu Ala Phe Met Leu Phe

35

40

45

Ala

<210> 4312
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4312

Lys Leu Arg Leu Tyr Lys Lys Leu Trp Arg Phe Met Lys Pro Ala Leu
 1 5 10 15

Ala Gln Thr Phe
 20

<210> 4313
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4313

Arg Leu Arg Leu Leu Arg Lys Ile Leu Lys Lys Trp Arg Asn Trp Met
 1 5 10 15

Asn His Lys His Arg Ala Leu Ala Gln Ala Asn Thr Arg
 20 25

<210> 4314
 <211> 47
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4314

Tyr Leu Lys Ile Ile Thr Arg Leu Trp Arg Tyr Leu Gln Arg Gly Met
 1 5 10 15

Thr Lys Thr Arg Asp Pro Pro Val Ala Leu Ala Lys Leu Asp Ala Lys

20

25

30

Thr Ala Ala Ala Glu Ala Ala Lys Ala Arg Gln Glu Ser Ala Lys
 35 40 45

<210> 4315
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4315

Tyr Leu Arg Phe Tyr Asn Arg Phe Leu Lys Lys Leu Arg Asn Leu Ala
 1 5 10 15

Lys Tyr Ala Lys Ala
 20

<210> 4316
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4316

Arg Met Lys Trp Tyr Ser Lys Leu Leu Lys Tyr Phe Arg Arg Lys Ala
 1 5 10 15

Ala Lys Ala Cys Ser Ile Val Gly Leu Ala Tyr Ala
 20 25

<210> 4317
 <211> 54
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4317

Lys Phe Lys Leu Trp Lys Lys Tyr Met Arg Leu Phe Lys Arg Ile Trp
 1 5 10 15

Lys Leu Leu Lys Trp Lys Asp His Ser Leu His Lys Leu Ala Arg Lys

20

25

30

Glu His Leu Ala Ala Arg Leu Ala Ala Lys Thr Val Gln Ala Arg Cys
 35 40 45

Ser Ala Pro Asn Lys Lys
 50

<210> 4318
 <211> 57
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4318

Lys Met Lys Ile Leu Lys Arg Phe Phe Arg Tyr Leu Arg Arg Arg Tyr
 1 5 10 15

Arg Tyr Ala Pro Leu Ala Cys Pro Ile Ala Ala Cys Lys Tyr Arg Leu
 20 25 30

Lys His Lys Pro Leu Arg Ala Leu Asp Pro Leu Leu Ile Gln Leu Glu
 35 40 45

Lys Ala Pro Ile Ala Glu Gly Ile Lys
 50 55

<210> 4319
 <211> 27
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4319

Arg Phe Lys Met Ile Thr Lys Leu Leu Arg Arg Met Thr Lys Leu Gly
 1 5 10 15

Glu Thr Val Leu Arg Arg Leu Trp Thr Leu Leu
 20 25

<210> 4320
 <211> 96
 <212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4320

Arg Tyr Lys Leu Met Arg Lys Leu Leu Lys Met Leu Lys Asn Lys Ile
1 5 10 15

Trp Ser Leu Ala Leu Cys Lys Glu Lys Asn Leu Met Val Gly Arg Lys
20 25 30

Leu Leu Ala Ala Leu Leu Ala Leu Trp Asn Thr His Trp Arg Thr Lys
35 40 45

Arg Leu Tyr Pro Lys Leu Ala Trp Arg Asn Ala Met Ala Arg Arg Val
50 55 60

Arg Ala Lys Arg His Ile Tyr Lys Asn Gly His Thr Lys Leu Leu His
65 70 75 80

Leu Gly Val Asn Cys Thr Arg Thr Tyr Lys Leu Ile Ala Lys Lys Leu
85 90 95

<210> 4321

<211> 66

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4321

Met Phe Lys Leu Ile Lys Arg Tyr Ile Arg Lys Trp Lys Lys Gln Phe
1 5 10 15

Ala Ile Leu Gln His Val Arg Leu Cys Leu Arg Gln Arg Glu Val Leu
20 25 30

Glu Leu Cys Met Ala Tyr Arg Ala Trp Arg Ala Lys Arg Lys Lys Lys
35 40 45

Lys Leu Phe Asn Arg Trp Met Leu Lys Leu Trp Ala Lys Ala Ala Met
50 55 60

Leu Thr

65

<210> 4322

<211> 47

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4322

Arg Phe Lys Leu Leu Ser Arg Leu Phe Lys Lys Leu Lys Cys Ala Asn
 1 5 10 15

Leu Leu Leu Cys Ala Leu Ser Arg Arg Lys Tyr Leu His Val Gly Ile
 20 25 30

Ala Tyr Tyr Val Lys Leu Asp Lys Arg Ala Ala Thr Leu Lys Phe
 35 40 45

<210> 4323

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4323

Tyr Trp Lys Phe Met Lys Lys Phe Phe Arg Lys Leu Cys Arg Asp Glu
 1 5 10 15

Ser Ala Leu Ala Thr Lys Lys Arg Ala Leu Arg Cys Arg Met Leu Leu
 20 25 30

Ser Tyr

<210> 4324

<211> 41

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4324

Arg Leu Lys Tyr Met His Arg Leu Leu Arg Lys Trp Arg Asn Gly Leu

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<210> 4325
<211> 86
<212> PRT
<213> Artificial Sequence
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<220>
<223> Computer-generated peptide variant

Arg Arg Ser Lys Arg Ser Glu Leu Tyr Gln Ser Ala Lys Glu Ala Arg
20 25 30

Arg Ala Glu Gly Tyr Ala Arg His Lys Arg Gly Gln Leu Asn Leu Leu
35 40 45

Tyr Arg Lys Arg Cys Ala Leu Cys Phe Lys Arg Leu Leu Leu Val Ala
50 55 60

Arg Arg Lys Lys Lys Leu Lys Met Leu Tyr Glu Val Ala Ala Gly Ala
65 70 75 80

Gln Lys Leu Lys Lys Ile
85

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<210> 4326
<211> 41
<212> PRT
<213> Artificial Sequence
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<220>
<223> Computer-generated peptide variant

<400> 4326

Lys Tyr Arg Ile Ile Lys Lys Trp Tyr Arg Lys Leu Arg Gln Ala Ser
1 5 10 15

Gln Lys Glu Leu Leu Arg Ala Glu Ala Cys Leu Ala Val Val Arg Met
 20 25 30

Ala Leu Gly Lys Pro Arg Leu Asn Pro
 35 40

<210> 4327

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4327

Arg Leu Arg Leu Met Gln Arg Leu Leu Arg Lys Phe Lys Arg Lys Val
 1 5 10 15

Leu His Ala Leu Ser Arg Arg Pro Gly Trp Met Leu Cys Arg Phe Glu
 20 25 30

Glu Thr Lys Pro Ala Leu Arg Ser
 35 40

<210> 4328

<211> 48

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4328

Phe Phe Lys Ile Leu Lys Arg Leu Leu Lys Lys Phe Lys His Ala Leu
 1 5 10 15

Lys His Phe Lys Arg Tyr His Ala Cys Glu Cys Ile Arg Phe Cys Leu
 20 25 30

Ala Arg Leu Tyr Ala His Lys Ala Ala Lys Lys Ser Leu Met Arg Lys
 35 40 45

<210> 4329

<211> 38

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4329

Leu Leu Arg Leu Trp Arg Arg Leu Phe Lys Met Leu Arg Cys Cys Arg
 1 5 10 15

Tyr Gln Arg Trp Ile Arg Trp Lys Asp Lys Tyr Asn Arg Val Pro Ala
 20 25 30

Lys Ala Leu Leu Leu Gln
 35

<210> 4330

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4330

Arg Leu Lys Ile Leu Gln Lys Tyr Leu Lys Lys Trp Arg Lys Asn Ser
 1 5 10 15

Ala Ser Met Leu Leu Leu Tyr Tyr
 20

<210> 4331

<211> 100

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4331

Leu Met Arg Leu Tyr Arg Arg Ile Tyr Lys Leu Leu Lys Arg Leu Arg
 1 5 10 15

Leu Ala Met Ala Leu Asn Ser Leu Asp Arg Arg Leu Ile Arg Ala Lys
 20 25 30

Asn Asp Glu Asp Ala His Arg Arg Lys Lys Glu Asn Asp Thr Asp Asn
 35 40 45

Lys Ala Asp His Ala Ile Phe Lys Thr Arg Asn Lys Ala Leu Asn Gly

50

55

60

Gln Pro Cys Glu Arg Leu Trp Pro Tyr Ala Ile Ala Phe Leu Gly Leu
 65 70 75 80

Lys Leu Arg Cys Arg Ser Leu Leu Glu Arg Lys Ala Leu Gln Leu Ala
 85 90 95

Ala Met Asn Ser
 100

<210> 4332
 <211> 26
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4332

Met Leu Lys Phe Phe Thr Lys Tyr Tyr Lys Leu Leu Lys Lys Ala Arg
 1 5 10 15

Val Arg Arg Asn Lys Ala Gln His Leu Leu
 20 25

<210> 4333
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4333

Lys Leu Arg Ile Tyr Gln Arg Phe Leu Lys Lys Phe Lys Arg Leu Asn
 1 5 10 15

Pro Ile Leu Arg Ala His Arg Leu Trp His Arg Gly Glu Leu Leu Cys
 20 25 30

<210> 4334
 <211> 52
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4334

Lys Leu Lys Ile Trp Ser Arg Leu Leu Lys Lys Met His Lys His Ala
 1 5 10 15

Thr Ala Arg Val Leu Thr Ala Asn Val Leu Leu Asn Leu Tyr Thr Ala
 20 25 30

Ser Leu Ala Leu Lys Cys Pro Arg Lys Lys Pro Phe Lys Glu Met Ala
 35 40 45

Phe Ala Arg Gln
 50

<210> 4335

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4335

Lys Leu Arg Phe Ile Arg Lys Phe Phe Lys Lys Trp Pro Lys Thr Lys
 1 5 10 15

Thr Leu Ala Tyr Ser Lys Ile Thr Leu Ala Ala Leu Lys Leu
 20 25 30

<210> 4336

<211> 39

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4336

Tyr Leu Lys Leu Trp Lys Arg Leu Leu Lys Arg Leu Ser Lys Lys Ala
 1 5 10 15

Lys Thr Asn Val Phe Cys Thr Lys Ala Ile His Gln Leu Asn Met Arg
 20 25 30

Leu Lys Ile Glu Lys Leu Leu
 35

<210> 4337
 <211> 31
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4337

Lys Trp Lys Leu Trp Asn Arg Leu Ile Lys Arg Leu Gln Arg Arg Leu
 1 5 10 15

His Trp Ala Leu Ala Leu Leu Trp Arg Lys Gly Ser Lys Arg Ile
 20 25 30

<210> 4338
 <211> 59
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4338

Arg Trp Arg Trp Leu Asn Lys Leu Leu Arg Arg Phe Cys Cys Arg Lys
 1 5 10 15

Ala Arg Glu Leu Leu Arg Asp Lys Leu Thr Leu Asn Ala Leu Gln Lys
 20 25 30

Arg Leu Val Leu Met Pro Ile Met Ala Met Lys Arg Val Ser Arg Phe
 35 40 45

Arg Arg Leu Cys Leu Lys Asn Ala Phe Ala Val
 50 55

<210> 4339
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4339

Leu Trp Lys Met Ile Lys Lys Leu Ile Lys Leu Leu Lys Lys Lys Arg
 1 5 10 15

Thr Tyr Ala Cys Leu Ala Leu Ser Phe Ile His Ser
 20 25

<210> 4340
 <211> 46
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4340

Phe Leu Lys Phe Ile Cys Arg Leu Trp Lys Lys Trp Lys Arg His Ser
 1 5 10 15

Trp Ala Leu Lys Cys Leu Lys Arg Ala Ile Lys Lys Trp Val Lys Gln
 20 25 30

Leu Ala Tyr Arg Pro Ala Ala Lys Glu Ile Ala Ala Lys Asp
 35 40 45

<210> 4341
 <211> 39
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4341

Trp Tyr Arg Ile Leu Lys Arg Ile Met Arg Lys Leu Lys His Leu Ala
 1 5 10 15

Leu Ala His Ala Lys Met Thr Arg Arg Arg Leu His Ala Glu Leu Thr
 20 25 30

Ala Ala Val Ile Arg Ile Asn
 35

<210> 4342
 <211> 69
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4342

Leu Ile Lys Tyr Phe Lys Lys Trp Leu Arg Arg Met Arg Lys Leu Leu
 1 5 10 15

Ile Arg Asp Leu Lys Lys Arg Leu Leu Gln Ala Leu Met Ile Gln Leu
 20 25 30

Met Arg Arg Glu Leu Glu Arg Asn Lys Asp Ile Thr Glu Asp Leu Arg
 35 40 45

Ala His Leu Pro Ala Ile Pro Arg Ser His Ala Ala Arg Ala Lys Ala
 50 55 60

Leu Leu Leu Gln Lys
 65

<210> 4343
 <211> 67
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4343

Lys Ile Arg Tyr Phe Arg Lys Leu Leu Arg Arg Ile Lys Lys Leu Leu
 1 5 10 15

Cys Arg Lys Ala Pro Leu Ala Val Leu Tyr Met Trp Pro Ala Asp Thr
 20 25 30

Gln Lys Asp Ile Leu Arg Ile Leu Arg Ala Leu Lys Asn Tyr Arg Ile
 35 40 45

Ala Ala Lys Cys Lys Ala Gly Pro Phe Arg His Glu Met Gln Ala Arg
 50 55 60

Gln Met Leu
 65

<210> 4344
 <211> 26
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4344

Leu Leu Lys Leu Met Cys Arg Tyr Tyr Lys Leu Leu His Arg Arg Glu
1 5 10 15

Arg Leu Leu Cys Lys Lys Leu Trp His Arg
20 25

<210> 4345

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4345

Leu Ile Lys Leu Leu Ser Arg Leu Phe Lys Tyr Ile His Lys Ser Gln
1 5 10 15

Asn Leu Ala His Lys Leu Leu Leu Arg Lys Lys Val
20 25

<210> 4346

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4346

Met Phe Lys Leu Tyr Asn Lys Leu Phe Arg Lys Leu Arg Lys Glu Leu
1 5 10 15

Gln Ala Leu Pro Gln Asn Ala Arg Leu Glu
20 25

<210> 4347

<211> 80

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4347

Lys Leu Lys Trp Leu Arg Lys Trp Leu Lys Arg Leu Asn Arg Asp Met

1					5					10					15		
Pro	Thr	Pro	Thr	Trp	Met	Ala	Leu	Lys	Thr	Ala	Lys	Lys	Lys	Leu	Ala		
			20					25					30				
Ala	Arg	Lys	His	Asn	His	Lys	Ile	Arg	His	Trp	Ile	Leu	Thr	Gly	Leu		
		35					40					45					
Thr	Cys	Tyr	Glu	His	Leu	Gln	Lys	Lys	Leu	Lys	Thr	Arg	Trp	Ala	Ile		
	50					55					60						
Met	Leu	Asn	Ala	Arg	Ala	Gly	Ala	Arg	Lys	Arg	Met	Lys	Val	Asp	Ala		
65					70					75					80		

<210>	4348
<211>	43
<212>	PRT
<213>	Artificial Sequence
<220>	
<223>	Computer-generated peptide variant
<400>	4348

Tyr Trp Arg Leu Met Ser Arg Met Met Lys Ile Leu Arg Lys Thr Glu
1 5 10 15

Pro Ala Met Ile Arg Leu Ala Lys Arg Ala Lys Ile Lys Ile Phe Met
20 25 30

Ala Ala Lys Arg Ser Met Arg Leu Ala Ala Ile
35 40

<210>	4349
<211>	34
<212>	PRT
<213>	Artificial Sequence
<220>	
<223>	Computer-generated peptide variant
<400>	4349

Lys Tyr Arg Phe Ile His Arg Leu Tyr Arg Arg Phe Lys Thr Ala Ile
1 5 10 15

Arg Leu Met Lys Ala Arg Lys Tyr Thr Cys Ala Lys Ala Leu Ala Thr
20 25 30

Tyr Ala

<210> 4350
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4350

Lys Phe Arg Leu Leu Asn Arg Tyr Leu Arg Lys Leu Lys Arg Arg Leu
 1 5 10 15

Lys Pro Cys Lys His His Leu Lys Ala Ala Leu Cys His His Val Lys
 20 25 30

Lys Val Ala
 35

<210> 4351
 <211> 71
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4351

Leu Leu Lys Leu Met Cys Arg Leu Leu Lys Leu Leu Thr Pro Leu Ala
 1 5 10 15

Tyr Cys Ala Met Leu Leu Gly Lys Cys Thr Arg Ala Asn Arg Tyr Leu
 20 25 30

Leu Thr Leu Leu Arg Arg Ala Trp Ala Arg Arg Glu Trp Arg Ala Thr
 35 40 45

Leu Arg Lys Lys Lys Lys Ile Lys Glu Cys Ile Arg Arg Lys Asn Cys
 50 55 60

His Ala Asn Lys Ala Leu Arg
 65 70

<210> 4352

<211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4352

Tyr Met Lys Phe Tyr Arg Arg Tyr Leu Arg Lys Leu Ser Thr Glu Asp
 1 5 10 15

Lys Leu Cys Arg Ala Ala Trp Lys Ala
 20 25

<210> 4353
 <211> 55
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4353

Trp Tyr Lys Met Leu Cys Lys Phe Phe Arg Arg Phe Gln Lys Trp Asp
 1 5 10 15

Lys Ala Leu Ala Leu Arg Lys Tyr Lys Arg Arg Leu Lys Glu Asn Ala
 20 25 30

His Asn Leu Glu Leu Lys Arg Ala Leu Ala Arg Arg Gly Leu Gln Met
 35 40 45

Thr Tyr Asp Ala His Tyr Leu
 50 55

<210> 4354
 <211> 65
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4354

Lys Met Lys Leu Leu Arg Lys Leu Leu Arg Leu Leu Lys Gln Arg Asp
 1 5 10 15

Leu Trp Leu Lys Pro Ile Glu Leu Arg Asn Tyr Arg Leu Lys Lys Ile

Arg Pro Ala Ala Arg Arg
65 70

<210> 4357
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 4357

Tyr Leu Lys Phe Tyr Arg Arg Phe Met Lys Leu Leu Arg Cys Gly Val
1 5 10 15

Ala Glu Leu Arg Lys Arg Arg Phe Ala Arg Asn Ala Arg Ala Arg Leu
20 25 30

Arg Leu Met Leu Trp Leu Leu Lys
35 40

<210> 4358
<211> 26
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 4358

Lys Phe Arg Leu Leu Asn Lys Tyr Ile Arg Arg Phe Arg Thr Glu Ile
1 5 10 15

Leu Lys Ala Lys Leu Ala Tyr Met Ala Thr
20 25

<210> 4359
<211> 22
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 4359

Leu Leu Lys Leu Leu Arg Lys Ile Phe Arg Arg Phe Arg Lys Arg His
1 5 10 15

Gly Glu Glu Ala Leu Met
20

<210> 4360
<211> 49
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 4360

Leu Ile Arg Phe Phe Gln Lys Ile Leu Lys Arg Leu Cys Arg Arg Tyr
1 5 10 15

Met Lys Lys Lys Ile Leu Ala Arg Leu Arg Lys Gly Asn Thr Ala Ala
20 25 30

Ala Ile Met Lys His Asp Ala Ala Lys Lys Lys Glu Leu Glu Cys Trp
35 40 45

Ser

<210> 4361
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 4361

Arg Leu Arg Phe Trp Thr Arg Phe Ile Lys Arg Phe Arg Ser Lys Leu
1 5 10 15

Ala Ala Trp Arg Leu Lys Arg Gly Leu Met Ala Ala Asn His
20 25 30

<210> 4362
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 4362

Leu Phe Arg Leu Met Ser Lys Trp Ile Arg Ile Leu Arg Arg Ser Glu
 1 5 10 15

Leu Lys Ala Phe
 20

<210> 4363
 <211> 38
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4363

Arg Leu Lys Trp Leu Lys Arg Leu Phe Lys Arg Ile Arg Arg Arg Leu
 1 5 10 15

Asn Ser Gly Leu Thr Asn Leu Gln Lys Arg Ala Ala Val Leu Arg Ala
 20 25 30

Gly Gln Tyr Ile Leu Trp
 35

<210> 4364
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4364

Lys Trp Arg Ile Leu Lys Lys Tyr Leu Arg Met Phe Arg Lys Thr Ala
 1 5 10 15

Leu Lys Met Ile Ala Lys Leu Tyr Ala
 20 25

<210> 4365
 <211> 58
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4365

Met Leu Lys Met Phe Lys Arg Leu Trp Arg Arg Ile Lys Thr Met Leu
 1 5 10 15

Ala Arg Trp Arg Leu Lys Tyr Lys Cys Leu Lys Ala Arg Met Lys Leu
 20 25 30

Tyr Leu Lys Leu Val Arg His Lys Val Trp Ala Ala Asn Ala Tyr Ala
 35 40 45

Glu Leu Glu Cys Asn Leu Ala Ser Gly Ala
 50 55

<210> 4366

<211> 52

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4366

Arg Leu Arg Tyr Phe Asn Lys Trp Trp Arg Leu Phe Lys Lys Phe Leu
 1 5 10 15

Val Arg Arg Asp Leu Arg Ala Thr Ser His Leu Val Glu Ala Asn Glu
 20 25 30

Leu Ala Lys Val Arg Lys Thr Ala Arg Lys Lys Glu Asn Ala Ala Arg
 35 40 45

Asp His Ala Trp
 50

<210> 4367

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4367

Lys Phe Arg Leu Leu Lys Arg Leu Leu Lys Arg Trp Lys Arg Leu Leu
 1 5 10 15

Leu Tyr Lys Ala Asn Lys Ile Lys Cys Gly Asp Lys Val Pro Met Asn

20

25

30

Leu Trp Met Lys Met Phe Ala Arg
 35 40

<210> 4368

<211> 58

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4368

Tyr Phe Lys Trp Phe Gln Arg Leu Phe Lys Arg Leu Lys Cys Ala Met
 1 5 10 15

Lys Asp Arg Arg Ile Lys Arg Leu Lys Leu Lys Thr His Tyr Arg Leu
 20 25 30

Met Ser Ala Arg Arg Leu Gly Asp Ala Met Lys Ser Cys Leu Glu Ala
 35 40 45

Arg Leu Phe Ala Ala Glu Phe Arg Pro Lys
 50 55

<210> 4369

<211> 42

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4369

Arg Tyr Lys Leu Phe Cys Lys Leu Trp Lys Phe Met Arg Arg Trp Asn
 1 5 10 15

Ala Cys Ala Ala Lys Lys Asp Thr Glu Ile Gly Ala Lys Arg Ala Ala
 20 25 30

Arg Ile Arg Gly Ala Thr Ala Lys Leu Gln
 35 40

<210> 4370

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4370

Phe	Trp	Arg	Leu	Leu	Asn	Lys	Met	Ile	Lys	Lys	Phe	Lys	Pro	Leu	Arg
1				5					10					15	

Glu	Ala	Val	Lys	Ala
			20	

<210> 4371

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4371

Leu	Phe	Arg	Phe	Leu	Gln	Lys	Met	Leu	Arg	Arg	Tyr	His	Gln	Glu	Arg
1				5					10					15	

His	Leu	Val	Glu	Val	Lys	Ala	Lys	Lys	Ala	Phe	Cys	Ala	Leu	Arg	Ala
			20					25					30		

Arg

<210> 4372

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4372

Arg	Trp	Lys	Leu	Leu	Pro	Lys	Leu	Ile	Lys	Arg	Leu	Arg	Arg	Ala	Lys
1				5					10					15	

Ala	Ala	Thr	Lys	Ala	Leu	His	His	Ala	Lys	Asn	Arg	Arg	Met	His	Ile
			20					25					30		

Ile

<210> 4373
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4373

Ile Leu Lys Phe Leu Lys Arg Met Leu Arg Arg Phe Gln Lys Gln Ser
 1 5 10 15

Glu Val Val Glu Glu Lys His Leu Leu Ala Lys Leu Leu Lys Val Leu
 20 25 30

<210> 4374
 <211> 91
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4374

Arg Tyr Arg Phe Trp Lys Lys Leu Ile Arg Phe Leu Lys Arg Leu Leu
 1 5 10 15

Ala Phe Arg Thr Arg Ala Arg Leu Arg Lys Ala Thr Ala Thr Leu Leu
 20 25 30

Pro Arg Lys Arg Leu Lys Ala Asp Leu Arg Ala Ala Leu Arg Met Thr
 35 40 45

Thr Pro Arg Leu Ser Ser Gln Lys Gln Ala Glu Phe Lys Thr Glu Thr
 50 55 60

Cys Cys Ser Ala Arg Ala Thr Lys Lys Asp Arg Leu Lys Ile Arg Arg
 65 70 75 80

Ala Leu Met Cys Leu Ala Arg Leu Arg Pro Trp
 85 90

<210> 4375
 <211> 27
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4375

Lys	Leu	Lys	Phe	Ile	Arg	Arg	Leu	Trp	Lys	Lys	Trp	Lys	Thr	Leu	Ala
1				5				10						15	

Arg	Leu	Tyr	Leu	Ala	Cys	Thr	Tyr	Arg	Asn	Cys
			20					25		

<210> 4376

<211> 49

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4376

Leu	Leu	Lys	Leu	Leu	Gln	Lys	Trp	Trp	Lys	Arg	Trp	Cys	Cys	Glu	Asp
1				5					10					15	

Lys	Lys	Ala	Leu	Val	Leu	Leu	Ala	Phe	Val	Cys	Ala	Gln	Lys	Ala	Lys
			20					25					30		

Arg	Met	Phe	His	Asn	Arg	Arg	Arg	Leu	Glu	Asn	Glu	Ser	Ala	Asn	Ala
			35				40					45			

Leu

<210> 4377

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4377

Arg	Phe	Arg	Trp	Phe	Cys	Arg	Ile	Met	Arg	Arg	Phe	Arg	Arg	Ala	Leu
1				5				10						15	

Lys	Cys	Ala	Ala	Leu	Ala	Leu	Arg	Leu	Ile	Glu	Leu
			20					25			

<210> 4378

<211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4378

Arg Phe Lys Phe Leu Lys Lys Leu Phe Arg Leu Leu Thr Arg Lys Gln
 1 5 10 15

Tyr Leu Ala Lys Arg Phe Ala
 20

<210> 4379
 <211> 37
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4379

Arg Met Arg Trp Leu Asn Lys Ile Phe Lys Arg Ile Lys Lys His Arg
 1 5 10 15

Phe Cys Leu Arg Ser His Leu Phe Leu Leu Arg Ala Lys Leu Ala Ala
 20 25 30

Leu Met Asp Glu Met
 35

<210> 4380
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4380

Lys Phe Lys Leu Met Asn Arg Ile Leu Lys Ile Leu Lys Lys Glu Leu
 1 5 10 15

Met Ser Asp Gly Arg Leu Leu Lys
 20

<210> 4381

<211> 82
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4381

Phe Leu Lys Leu Leu Pro Arg Trp Phe Arg Lys Tyr Asn Arg Ala Arg
 1 5 10 15

Tyr Leu Lys Arg Arg Cys Trp Leu Ala Leu His Leu Leu Arg Pro Ser
 20 25 30

Arg Leu Asp Leu Asp Leu Gly Val His Ala Cys Phe Lys Leu Val Lys
 35 40 45

Leu Pro Gly Ala Lys Lys Pro Lys Ala Arg Lys Thr Pro Lys Leu His
 50 55 60

Ser Ala Gly Lys Leu Arg Tyr Arg Ser His Gln Gln Ala Arg Met Arg
 65 70 75 80

Tyr Lys

<210> 4382
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4382

Lys Met Arg Met Leu Arg Lys Leu Tyr Lys Lys Trp Lys His Arg Leu
 1 5 10 15

His Leu Arg Lys Ala Leu Ala Met His His Ala Leu His Lys Thr Ala
 20 25 30

Ala

<210> 4383
 <211> 30
 <212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4383

Trp Trp Lys Ile Tyr Arg Arg Leu Leu Arg Leu Ile Arg Arg Ala Gln
1 5 10 15

Lys Gly Lys Ala Lys Arg Arg Glu Thr Glu Ala Asp Ala Ala
20 25 30

<210> 4384

<211> 58

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4384

Arg Leu Arg Trp Ile Arg Arg Leu Met Arg Arg Trp Ser Asn Phe Leu
1 5 10 15

Leu Arg Lys Leu Leu Ile Leu Gly Ile Tyr Pro Glu Ala Leu Val Ser
20 25 30

Thr His Thr Trp Ala Arg Ala Leu Lys Ala Arg Asn Arg Val Arg Phe
35 40 45

Arg Lys Glu Ala Leu Asp Leu Cys Ala Lys
50 55

<210> 4385

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4385

Met Ile Arg Trp Met Arg Lys Leu Met Lys Lys Leu Arg Lys Trp Lys
1 5 10 15

Ser Tyr Ala Lys Leu Leu Arg Lys Ser Leu Leu Arg Ala Ala Asn Leu
20 25 30

Pro Gly

<210> 4386

<211> 56

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4386

Trp Met Lys Trp Ile Lys Lys Leu Ile Lys Arg Leu Thr Arg Lys Lys
1 5 10 15

Leu Thr Gln Lys Gln Leu Phe Leu Pro His Lys Ala Ala Leu Phe Phe
20 25 30

Lys Lys Asp Trp Thr Arg Pro Arg Ala Thr Asp Arg Ala Lys Phe Ala
35 40 45

Ala Gly Leu Ala Met Tyr Ile Arg
50 55

<210> 4387

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4387

Lys Phe Arg Leu Ile Thr Lys Leu Leu Arg Lys Trp Arg Lys Leu Arg
1 5 10 15

Asn Arg Asp Ser Leu Ala Leu Ser Lys Arg Leu Ser Thr Arg Met Ala
20 25 30

Lys Lys Phe Pro Thr Trp Ile Ala
35 40

<210> 4388

<211> 83

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4388

Leu Leu Arg Leu Ile Ser Arg Leu Trp Arg Arg Leu Ser Asn Trp His
 1 5 10 15

Gln Val His Glu Arg Glu Ala Leu Gly Arg Lys Leu Ala Glu Ala Asp
 20 25 30

Phe Pro Leu Leu Lys Ala Glu Arg Ser Leu Lys Asp Ala Leu Leu Lys
 35 40 45

Ala Leu Leu Gly Lys Leu Ala Gln Lys Lys Ala Ser Ala Ala Trp Ala
 50 55 60

Lys Ser Arg Ala Ala Pro Val Ala Lys Thr Lys Thr Arg Ile Met Arg
 65 70 75 80

Ser Arg His

<210> 4389

<211> 63

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4389

Lys Ile Arg Leu Tyr Arg Arg Phe Leu Arg Lys Trp Lys His Ile Gly
 1 5 10 15

Ala Met Lys Ala Glu Ala Arg Ile Met Tyr Glu Leu Arg Lys Phe Leu
 20 25 30

Met Cys Lys Lys Leu Ile Ala Arg Ala Lys Gln Ala Ala Tyr Arg Ser
 35 40 45

Leu Trp Lys Leu Thr Ala Trp Ser Arg Val Arg Lys Trp Tyr Val
 50 55 60

<210> 4390

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4390

Leu Leu Lys Trp Phe Cys Lys Leu Leu Lys Phe Leu Arg Asn Pro Arg
1 5 10 15

Tyr Cys Lys Leu
20

<210> 4391

<211> 43

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4391

Leu Trp Arg Leu Phe Pro Lys Tyr Phe Arg Arg Met Arg Pro Thr Leu
1 5 10 15

Ala Leu Lys Leu Ile Glu Lys Arg Arg Pro His Ser Ala Leu Glu Ala
20 25 30

Ala Asn Ala Pro Asn Thr Leu Arg Ser Lys Leu
35 40

<210> 4392

<211> 54

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4392

Arg Phe Lys Leu Phe Lys Arg Leu Phe Arg Arg Ile Arg Thr Lys Ala
1 5 10 15

Ala Phe Gln Arg Met Gln Lys Arg Ala Tyr Pro Leu Pro Cys Leu Arg
20 25 30

Ser Ala Ala Phe Leu Leu Asn Ala Cys Trp Arg Asp Ile Ala Val Leu
35 40 45

Lys Leu Gly Arg Ala Glu
50

<210> 4393
<211> 34
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 4393

Ile Phe Arg Phe Leu Cys Lys Leu Leu Arg Leu Tyr Gln Arg Lys Gln
1 5 10 15

Cys Ala Leu Arg Leu Leu Phe Lys Lys Arg Thr Trp Lys Gln Tyr Met
20 25 30

Ile Arg

<210> 4394
<211> 89
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 4394

Arg Trp Lys Leu Leu Cys Lys Leu Leu Arg Arg Met Arg Arg Lys Asp
1 5 10 15

Gln His Arg Val Arg Tyr Phe Glu Asn Ala Gly Leu Met Leu Arg Lys
20 25 30

Gly Lys Asp Tyr Lys Glu Ile Ala Arg Gly Val Ser Leu Arg Leu Arg
35 40 45

Ala Leu Ala Met Ala Leu Pro Arg Arg Ser Glu Leu Trp Asp Ala Arg
50 55 60

Arg Arg Pro Trp Leu Ser Ile Thr Leu Arg Leu Ser Ala Leu Met Lys
65 70 75 80

Tyr Ala Arg Lys Tyr Thr Leu Asn Trp

85

<210> 4395
 <211> 50
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4395

Leu Tyr Arg Tyr Tyr Lys Arg Leu Ile Arg Lys Leu Asn Lys Leu Glu
 1 5 10 15

Val Ala Glu Arg Leu Leu Lys Arg Glu Leu Cys Arg Thr Leu Phe Phe
 20 25 30

Lys Leu Arg Arg His His Ala Gly Cys Lys Lys Asp His Gly Lys Ala
 35 40 45

Glu Cys
 50

<210> 4396
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4396

Arg Leu Arg Ile Leu Asn Arg Tyr Leu Arg Trp Tyr Lys Arg Leu Ile
 1 5 10 15

Asp Ala Phe Met Leu Ala
 20

<210> 4397
 <211> 97
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4397

Tyr Ile Lys Leu Leu Lys Arg Phe Leu Lys Arg Ile Lys Lys Arg Asp

1 5 10 15
 Cys Asn Arg Leu Asn Gln Gly Leu Asn His Arg Met Gln Met Thr Lys
 20 25 30
 Leu Ile Lys Leu Ala Val Leu Trp Lys Leu Phe Lys Ala Val Ala Leu
 35 40 45
 Arg Arg Tyr Arg Ser Arg Asp Arg Leu Cys Cys Leu Lys His Leu Asn
 50 55 60
 Ala Lys Phe Ile Thr Arg Lys Leu Ala Lys Arg Leu Ser Phe Arg Arg
 65 70 75 80
 Gln Asn Leu Leu Thr Asp Cys Ala Lys Met Ala Lys Phe Lys Lys Pro
 85 90 95

Ala

<210> 4398
 <211> 51
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Computer-generated peptide variant

 <400> 4398

Ile Leu Lys Trp Phe Arg Arg Phe Leu Arg Arg Trp Arg Arg Arg Asn
 1 5 10 15

 Arg Gly Met Ala Ala Ala Ala Lys Asn Tyr Phe Leu Gln Asn Lys Lys
 20 25 30

 Asp Lys Arg Leu Leu Phe Ser Leu Asp Leu Val Leu Gly Phe Ala Leu
 35 40 45

 Lys Thr Gly
 50

<210> 4399
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4399

Phe	Leu	Lys	Leu	Leu	Lys	Arg	Leu	Leu	Lys	Ile	Tyr	His	Lys	Lys	Arg
1				5					10					15	

Phe	Cys	Ala	Asn	Cys	Lys	His	Gln	Ala	Val	Gly	Leu	Ala	Tyr
			20					25					30

<210> 4400

<211> 45

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4400

Arg	Leu	Lys	Trp	Leu	Arg	Lys	Met	Leu	Arg	Lys	Trp	Cys	Lys	Ile	Arg
1				5					10					15	

Lys	Val	Val	Asp	Glu	Lys	Lys	Arg	Tyr	Leu	Val	Lys	Phe	Cys	Lys	Leu
			20					25					30		

Ala	Leu	Arg	Ala	Ala	Trp	Leu	Thr	Ala	Met	Ser	Asp	Trp
			35				40					45

<210> 4401

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4401

Lys	Leu	Arg	Trp	Leu	Arg	Arg	Leu	Trp	Lys	Arg	Leu	Lys	Arg	Arg	Ile
1				5					10					15	

Ile	Val	Asp	Ala	Ala	Ala	Arg	Ser	Lys	Gln	Phe	Gln	Ala	Ser	Gly	Gln
			20					25					30		

<210> 4402

<211> 77

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4402

Arg	Trp	Lys	Leu	Ile	His	Lys	Met	Leu	Lys	Lys	Phe	Lys	His	Leu	Leu
1				5					10					15	

Phe	Arg	Leu	Lys	Arg	Leu	Glu	Arg	Arg	Lys	Lys	Gln	Asn	Ala	Thr	Phe
		20					25						30		

Phe	Tyr	Asp	Pro	His	Cys	Ala	Cys	Trp	Ala	Lys	Ala	Arg	Glu	Ser	Leu
		35					40					45			

Ala	Ala	Arg	Lys	His	Asp	Lys	Asn	Gln	Leu	Phe	Tyr	Arg	Lys	Asp	Met
	50					55					60				

Ala	Arg	Arg	Trp	Leu	Arg	Leu	Arg	Glu	Met	Leu	Arg	Gln
65				70					75			

<210> 4403

<211> 44

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4403

Met	Phe	Lys	Trp	Phe	Lys	Lys	Leu	Leu	Lys	Leu	Met	Cys	Arg	Ile	Lys
1				5					10					15	

Leu	Leu	Gln	Ile	Glu	Arg	Arg	Gln	Thr	Arg	Val	Phe	Asp	Gly	Leu	Lys
		20					25					30			

Phe	Leu	Lys	Leu	Arg	Arg	Lys	Ala	Ala	Leu	Asp	Gly
	35					40					

<210> 4404

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4404

Leu	Met	Lys	Phe	Leu	Cys	Arg	Leu	Leu	Arg	Arg	Phe	Lys	Ser	Tyr	Ile
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

1 5 10 15

Met Lys His Thr Leu Arg Leu Trp Arg Lys Arg Leu Gln Ser Ile Thr
 20 25 30

Lys Leu Cys Asn Asn Leu Lys Ala
 35 40

<210> 4405
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4405

Leu Ile Lys Met Trp Arg Lys Trp Leu Lys Arg Met Pro Lys Leu Ala
 1 5 10 15

Glu Pro Arg Leu Trp Ala
 20

<210> 4406
 <211> 66
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4406

Lys Tyr Arg Met Leu Cys Arg Leu Leu Lys Arg Trp Asn Arg Ile Glu
 1 5 10 15

Met Lys Ala Ala Arg Leu Gly Ala Asp Ile Met Lys Arg Ala Leu Lys
 20 25 30

Asn Thr Ala Asp Gln Ser Glu Trp Lys Ala Ala Phe Gly Ala Phe Lys
 35 40 45

Lys Ala Leu Ala Ala Gln Lys Ala Leu Lys Ala Ala Lys Ser Phe Cys
 50 55 60

Pro Ala
 65

<210> 4407
 <211> 46
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4407

Leu Phe Lys Phe Leu Asn Lys Trp Met Lys Arg Phe Lys Lys Leu Lys
 1 5 10 15

Ala Arg Phe Ser Trp Tyr Leu Ala Gln Leu Ala Ala Gly Asp Ala Ala
 20 25 30

Leu Ser Arg Tyr Leu Arg Phe Val Arg Arg Thr Ala Met Leu
 35 40 45

<210> 4408
 <211> 39
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4408

Leu Tyr Lys Leu Leu Lys Arg Leu Trp Arg Lys Leu Gln Arg Tyr Phe
 1 5 10 15

His Arg Asn Met Leu Ala Asp Asp Ala Glu Phe Ser Lys Thr Arg Lys
 20 25 30

Leu Gly Leu Ser Ala Arg Lys
 35

<210> 4409
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4409

Lys Leu Lys Phe Leu Thr Lys Trp Leu Lys Tyr Trp Lys Thr Ala Lys
 1 5 10 15

Trp Ala Gln Ala Arg Phe Arg Asp Asn Leu Arg Ala Asn Arg Leu Arg
 20 25 30

Val Leu Phe Ala Ala Arg Phe Leu
 35 40

<210> 4410
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4410

Arg Ile Lys Leu Trp Arg Lys Phe Leu Arg Lys Phe Lys Ser Ser Met
 1 5 10 15

Leu Leu Ser Leu Gln
 20

<210> 4411
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4411

Arg Leu Lys Phe Tyr Arg Arg Leu Tyr Lys Met Tyr Arg Lys Gln Ala
 1 5 10 15

Gly Arg Arg Gly His Arg Trp Arg Leu Leu Gln Phe Phe Leu Val Ala
 20 25 30

Leu

<210> 4412
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4412

Arg Leu Lys Met Phe Gln Arg Leu Met Arg Lys Leu Asn Lys Cys Lys
 1 5 10 15

Phe His His Leu Leu
 20

<210> 4413
 <211> 98
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4413

Leu Met Lys Leu Leu Lys Lys Leu Leu Lys Arg Trp Gln Asn Lys Ala
 1 5 10 15

Asn Leu Ala Phe Ala Phe Asp Ala Thr Gly Gln Lys Leu Leu Lys Ala
 20 25 30

Leu Arg Trp Asn Lys Gln Arg His His Gly Arg Asp Arg Ala Arg Thr
 35 40 45

Arg Lys Arg Ala Ala Leu Arg Lys Arg Arg Thr Thr Asn Gln Gln Lys
 50 55 60

Ala Phe His Ala Tyr Arg Met Asp Phe Trp Asp Ser Leu Thr Ala Gly
 65 70 75 80

Glu Met Leu Arg Leu Arg Arg Leu Ala His Gln Leu Gly Lys Asn Thr
 85 90 95

Ala Met

<210> 4414
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4414

Arg Leu Lys Leu Trp Asn Lys Met Ile Lys Arg Leu Lys Gln Ser Trp

1 5 10 15

Ala Ala Trp Cys
20

<210> 4415
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 4415

Tyr Ile Lys Leu Tyr Cys Arg Met Phe Lys Arg Ile Arg Arg Cys Ala
1 5 10 15

Ser Thr Gly Ala Leu Asn Ala Tyr Lys Leu Arg Phe Val Gln His Lys
20 25 30

Ala His Leu Leu Leu Lys Leu Lys
35 40

<210> 4416
<211> 58
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 4416

Arg Leu Lys Tyr Tyr Lys Arg Leu Ile Lys Ile Phe His Lys Asn Lys
1 5 10 15

Ser Phe Arg Gly Gly Thr Met Arg Trp Tyr Lys Cys Arg Arg Ala Leu
20 25 30

Glu Leu Leu Leu Trp Lys Leu Lys Ala Met Ala Arg Arg Leu Ala Ala
35 40 45

His Val Ala Ala Pro Leu Gly Ile Ala Pro
50 55

<210> 4417
<211> 25
<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4417

Leu Leu Lys Phe Leu Cys Lys Leu Phe Lys Trp Leu His Cys Lys Leu
1 5 10 15

Arg Val Asn Lys Gln Leu Val Lys Arg
20 25

<210> 4418

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4418

Leu Leu Arg Leu Trp Arg Arg Leu Leu Lys Lys Tyr Lys His Leu Asp
1 5 10 15

Met Phe Gln Trp Ala Lys Cys Arg Lys Leu Lys Thr Trp Ala His Ala
20 25 30

Gly Ile Phe Ile
35

<210> 4419

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4419

Leu Phe Arg Leu Met Lys Arg Phe Leu Arg Ile Phe Arg Gln Leu Gly
1 5 10 15

Gly His Lys Gln Ala His Ala Leu Trp Arg Arg Asp Leu Ala Arg Ala
20 25 30

Lys Met Ala
35

<210> 4420
 <211> 54
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4420

Lys Phe Lys Leu Phe Ser Arg Leu Phe Arg Lys Phe Lys Ser Tyr Arg
 1 5 10 15

Arg Gly Lys Tyr Asp Arg Pro Ala Val Asp Ser Ala Met Leu Ala Arg
 20 25 30

Leu Leu Ala Arg Leu Lys Lys Asn Val Lys Gly Ala Arg Leu Thr Glu
 35 40 45

Arg Pro Thr Gly Glu Ala
 50

<210> 4421
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4421

Trp Tyr Arg Met Leu Pro Lys Ile Leu Lys Leu Leu Arg His Leu Arg
 1 5 10 15

Asp Leu Ala Phe
 20

<210> 4422
 <211> 46
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4422

Arg Phe Lys Tyr Phe Arg Lys Leu Leu Arg Arg Leu Thr Lys Met Asp
 1 5 10 15

Met Ala Trp Val Lys Leu Trp Leu Leu Leu Ser Trp Lys Arg Glu Leu
 20 25 30

Cys Leu Leu Lys Trp Leu Glu Ala Lys Gln Thr Ala Lys Ile
 35 40 45

<210> 4423

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4423

Ile Leu Arg Leu Tyr Cys Arg Leu Leu Lys Ile Met Lys Arg Trp Asp
 1 5 10 15

Leu Lys Ala Lys Leu Ser Val Ile Lys
 20 25

<210> 4424

<211> 84

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4424

Lys Leu Arg Phe Tyr Arg Lys Leu Leu Arg Lys Met Cys Gln Lys Cys
 1 5 10 15

Trp Lys Arg Glu Arg Lys Ser Ala Glu Lys Leu Leu Ala Ala Met Arg
 20 25 30

Ala Lys Arg Arg Ala Ala Ala Cys Asn Lys Arg Ala Arg Ala Met Ser
 35 40 45

Asn Asn Gln Leu Glu Ala Asn Gln Arg Phe Arg Ala Lys Thr Val Glu
 50 55 60

Cys Pro Arg Thr Leu Ala Leu Leu Lys Leu Asn Pro Ala Arg Arg Ala
 65 70 75 80

Leu Arg Asp Ala

<210> 4425
 <211> 27
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4425

Arg Leu Arg Phe Trp Thr Lys Met Leu Arg Lys Leu Arg Lys Leu Lys
 1 5 10 15

Leu Ala Ser Ala Ala Ala Leu Arg Arg Phe Lys
 20 25

<210> 4426
 <211> 59
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4426

Arg Trp Arg Leu Met Arg Arg Phe Phe Arg Leu Tyr Lys Lys Leu Ile
 1 5 10 15

Asn Lys Arg Val Leu Pro Cys Leu Pro Ala Lys Ala Thr Ala Arg Glu
 20 25 30

Pro Ala Arg Cys Ser Leu Ala Met Glu Asp Ile Arg Asn Val Lys Lys
 35 40 45

Leu Glu Ala Trp Ala Leu Leu Gly Met Lys Arg
 50 55

<210> 4427
 <211> 48
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4427

Lys Phe Lys Phe Leu Cys Lys Phe Phe Lys Lys Leu Gln Lys Ala Glu

1 5 10 15

Glu Ala His Arg Val Val Pro Leu Gln Ala Leu Thr Arg Ala Arg Ser
 20 25 30

Leu Ala Lys Cys Ala Cys Leu Tyr Arg Leu Leu Lys Ser Lys Lys Gln
35 40 45

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<210> 4428
<211> 29
<212> PRT
<213> Artificial Sequence
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<220>  
<223> Computer-generated peptide variant
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<400> 4428

Leu Leu Lys Leu Leu Arg Lys Trp Leu Arg Lys Leu Arg Arg Arg Ala
1 5 10 15

Gly Ala Pro Ser His Pro Met Val Ala Gln Val Ile Lys
20 25

<210>	4429
<211>	36
<212>	PRT
<213>	Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 4429

Met Met Lys Met Trp Lys Lys Leu Phe Arg Ile Leu Lys Arg Cys Lys
1 5 10 15

Pro Leu Leu Lys Leu His Trp Asn Leu Glu Arg Ala Ala Asp Trp Arg
20 25 30

Arg Leu Glu Ser
35

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<210> 4430
<211> 31
<212> PRT
<213> Artificial Sequence
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<220>
<223> Computer-generated peptide variant
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<400> 4430

Arg Tyr Lys Phe Leu His Arg Met Phe Lys Leu Leu Asn Arg Ala Asn
1 5 10 15

Ile Lys Leu Arg Trp Met Leu Glu Arg Lys Arg Ala Ala Cys Ala
20 25 30

<210> 4431

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4431

Arg Tyr Lys Phe Phe Gln Lys Leu Leu Lys Arg Phe Arg Pro His Tyr
1 5 10 15

Leu Leu Asp Lys Ala
20

<210> 4432

<211> 37

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4432

Arg Leu Arg Phe Phe Lys Arg Ile Tyr Lys Phe Phe Arg Lys Leu Leu
1 5 10 15

Trp Pro Asp Leu Cys Thr Asp Ala Leu Gly Leu Leu Ala Leu Gln Arg
20 25 30

His Leu Arg Met Leu
35

<210> 4433

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4433

Leu Leu Lys Phe Trp Arg Lys Leu Met Lys Tyr Met Arg Arg Ala Val
1 5 10 15

Leu Pro Ala Ala Leu Gln Lys Cys Lys Thr Ala Lys Thr
20 25

<210> 4434

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4434

Leu Phe Lys Leu Leu Arg Arg Leu Ile Arg Lys Phe Lys Arg Arg Ala
1 5 10 15

Ser Lys Leu Ala Leu Arg Ala
20

<210> 4435

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4435

Tyr Leu Arg Leu Phe Arg Arg Phe Tyr Lys Arg Leu Ser Ser Thr Ser
1 5 10 15

Leu Leu Glu Arg
20

<210> 4436

<211> 41

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4436

Leu Leu Arg Ile Tyr Lys Lys Phe Leu Arg Phe Leu Asn Lys Ala Leu

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<210> 4437
<211> 74
<212> PRT
<213> Artificial Sequence
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<220>
<223> Computer-generated peptide variant

Lys Met Arg Trp Ile Lys Arg Leu Leu Arg Arg Leu Gln Arg Ile Pro
1 5 10 15

Leu Leu Leu Ala Leu Ala Lys Leu Phe Ala Cys Asp Glu Ala Asp Ala
20 25 30

Pro Lys Leu Phe Val Arg Met Asn Arg Val Tyr Lys Tyr Asp Tyr Asn
35 40 45

Arg Ser Leu Leu Leu Pro Val Arg Arg Thr Arg Ala Arg Ala Arg Leu
50 55 60

Phe Pro Lys Arg His Phe Leu Ile Ala Arg
65 70

<210>	4438
<211>	29
<212>	PRT
<213>	Artificial Sequence

<220>
<223> Computer-generated peptide variant

Phe Leu Lys Met Trp His Lys Leu Ile Arg Phe Leu Lys Lys Phe Ala
1 5 10 15

Met Lys Lys Asn Ser Ala Lys Leu Thr Glu Leu Gly Arg
20 25

<210> 4439
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4439

Phe Leu Arg Leu Tyr Arg Arg Phe Ile Arg Arg Phe His Ser Arg Leu
 1 5 10 15

Leu Leu His Lys Asp Leu Arg Trp Lys Leu Leu Pro Arg Ile
 20 25 30

<210> 4440
 <211> 50
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4440

Trp Leu Arg Leu Met Thr Lys Leu Tyr Lys Met Phe Arg Gln Met Ser
 1 5 10 15

Ala Leu Lys Asn Ala Lys Arg Arg Ala Leu Lys Val Asp Lys Pro Ala
 20 25 30

Arg Leu Ser Lys Ala Leu Lys Arg Trp Ser Val Asn Ala Arg Gly Leu
 35 40 45

Asn Arg
 50

<210> 4441
 <211> 73
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4441

Lys Leu Lys Trp Ile Arg Arg Tyr Phe Lys Leu Phe Gln Lys Met Lys
 1 5 10 15

Ala Lys Ser Lys Pro Cys Lys Met Asp Arg Pro Ala Ala Gln His Cys
 20 25 30

Arg Val Thr Leu Gln Leu His Ala Arg Arg Arg Leu Leu Gln Met Glu
 35 40 45

Lys Arg Lys Arg Leu Lys Val Met Asp Ala Ala His Phe Ala Glu Arg
 50 55 60

Arg Asp Thr Ala Ala Tyr Leu Leu Lys
 65 70

<210> 4442
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4442

Arg Ile Arg Met Phe Asn Arg Trp Leu Arg Arg Leu Lys His Tyr Leu
 1 5 10 15

Ala Lys Leu Tyr
 20

<210> 4443
 <211> 81
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4443

Phe Leu Lys Met Leu Arg Lys Met Leu Arg Lys Tyr Arg Gln Pro Leu
 1 5 10 15

Lys Arg Gly His Lys Arg Ala Ala Lys Lys Lys Asn Thr Leu Lys Leu
 20 25 30

Tyr Ala Ile Ser Met Ala Trp Ala Met Lys Arg Arg Ile Lys Leu Leu
 35 40 45

Cys Trp Ala Ile Ser Ala Lys Pro Gly Asp Trp Lys Arg Arg Ala Tyr

50

55

60

Arg Leu Asn Ala Ala Gln Lys Ala Pro Asp Ala Val Gln Glu Lys Arg
 65 70 75 80

His

<210> 4444

<211> 86

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4444

Lys Tyr Arg Phe Leu Gln Lys Phe Leu Lys Ile Leu Arg Pro Leu Lys
 1 5 10 15

Phe Ile Pro Ala Ala Asn Leu Arg Ser Ala Gln Arg Cys Tyr Arg Leu
 20 25 30

Cys Met Ile Asp Ala Ala Glu Lys Asn Arg Ala Ile Gly Leu His Pro
 35 40 45

Lys His Ala Ala Met Cys His Leu Arg Arg Phe Lys Arg Arg Pro Ala
 50 55 60

Leu Leu Glu Met Ala Arg Arg Ser Arg Phe Ile Asn Lys Lys Arg Leu
 65 70 75 80

Leu Leu Ala Lys Arg His
 85

<210> 4445

<211> 64

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4445

Arg Phe Lys Ile Leu Lys Arg Leu Leu Arg Leu Leu His Pro Asn Lys
 1 5 10 15

Ala Thr Leu Lys Ala Arg Ala Thr Met Gln Arg Lys Glu Lys Tyr Tyr
 20 25 30

Ser Leu Glu Leu Ala Trp His Lys Ala Pro Asp Ala Lys Met Arg Val
 35 40 45

Leu Arg Val Leu Leu Lys Met Leu Ser Glu Lys Ala Ala Ala Leu Ala
 50 55 60

<210> 4446
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4446

Lys Leu Lys Leu Leu His Arg Met Tyr Arg Lys Phe Cys Lys Ala Val
 1 5 10 15

Trp Leu Lys Gln
 20

<210> 4447
 <211> 100
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4447

Tyr Ile Arg Leu Leu Cys Arg Leu Met Lys Leu Leu Cys Cys Glu Arg
 1 5 10 15

Lys Ala Ile Ser Glu Asp Ser Val Leu Lys Ala Asn Leu Arg Leu Tyr
 20 25 30

Leu Arg Leu Pro Ser Leu Glu Leu Leu Leu Lys Lys Asn Trp Asn Lys
 35 40 45

Ala Pro Arg Ala Asp Lys Ala Leu Met Arg Leu Glu Asn Met Leu Ile
 50 55 60

Phe Cys Ile Asp Arg Gln Leu Ala Phe Cys Lys Leu Arg Val Gln Arg

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<210> 4448
<211> 21
<212> PRT
<213> Artificial Sequence
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<400> 4448

Phe Thr Lys Pro Lys
20

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<210> 4449
<211> 25
<212> PRT
<213> Artificial Sequence
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<220>
<223> Computer-generated peptide variant

<400> 4449

Arg Trp Arg Tyr Leu Lys Arg Tyr Leu Lys Leu Leu Pro Lys Ala Lys
1 5 10 15

Ala Lys Arg Leu Trp Asp Ala Asp Asn
20 25

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<210> 4450
<211> 63
<212> PRT
<213> Artificial Sequence
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<220>
<223> Computer-generated peptide variant

<400> 4450

Lys Phe Lys Phe Met His Lys Leu Leu Arg Tyr Leu His Lys Asp Pro

Tyr Leu Lys Leu Phe Gln Lys Phe Phe Arg Phe Tyr Arg Arg Lys Leu
1 5 10 15

Leu Lys Arg Ser Ala Leu Tyr Leu Asn Leu Leu Ala Leu Leu Arg Cys
20 25 30

Lys Leu Leu Cys Lys His Asp Pro Gln Met Arg
35 40

Lys Leu Lys Met Tyr Cys Arg Trp Trp Lys Leu Ile Lys Asn Ala Leu
1 5 10 15

Arg Arg Val Ala Trp Ala Ala Leu Leu Asp Ala Lys Lys Thr Lys Gln
20 25 30

Ala His Lys His Phe Lys Val Trp Leu Lys Leu Tyr
35 40

<210> 4453
 <211> 45
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4453

Leu Leu Arg Ile Ile Lys Arg Leu Met Arg Met Trp Pro Ser Lys Lys
 1 5 10 15

Arg Trp Leu Ala Ala Ala Tyr Lys Phe Leu Met Cys Ala Val Lys Arg
 20 25 30

Met Leu Leu Pro Ser Asp Arg Ala Glu Ala Ala Asp Ser
 35 40 45

<210> 4454
 <211> 58
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4454

Phe Leu Lys Leu Leu Thr Lys Trp Phe Lys Arg Phe Ser Lys Ile Leu
 1 5 10 15

Lys Arg Leu Leu Leu Val Lys Phe Gly Asp Thr Arg Asp Ala Gln Leu
 20 25 30

Arg Asn Ala Ala Lys Thr Met Asn Lys Ala Arg Phe Arg Thr Cys Leu
 35 40 45

Ala Ser Pro Arg Arg Lys Glu His Lys Arg
 50 55

<210> 4455
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4455

Lys Leu Lys Ile Leu Lys Arg Leu Leu Lys Leu Leu Arg Asn Leu Lys
 1 5 10 15

Val Asn Lys Pro Ala Leu Met Gln Leu Arg Gly His Glu Ala Lys Arg
 20 25 30

Arg Cys Pro
 35

<210> 4456
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4456

Lys Ile Arg Leu Ile Thr Arg Phe Met Lys Lys Leu His Lys Ala Trp
 1 5 10 15

Leu Asp Ile Lys Gly Ala Val Ala Arg Lys Gly Ala Lys Gly His Leu
 20 25 30

Lys Leu Leu Trp
 35

<210> 4457
 <211> 26
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4457

Phe Trp Lys Tyr Leu Arg Arg Leu Phe Arg Phe Leu Lys Lys Arg Leu
 1 5 10 15

Ile Leu Lys Thr Ala Lys Ser Ala Gly Ser
 20 25

<210> 4458
 <211> 26
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4458

Arg Leu Arg Ile Leu Asn Arg Phe Ile Arg Lys Ile Arg Lys Lys Leu
 1 5 10 15

Ala Leu Gly Lys Leu Ser Ile Cys Leu Leu
 20 25

<210> 4459

<211> 45

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4459

Arg Phe Lys Leu Leu Lys Arg Ile Leu Arg Leu Leu Gln Arg Lys Leu
 1 5 10 15

Leu Cys Ala Pro Asp Phe Ile Ala Thr Lys Ala Ser Asp Ile Ile Ala
 20 25 30

Lys Ala Lys Gly His Lys Pro Arg Cys Trp Gln Arg Phe
 35 40 45

<210> 4460

<211> 62

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4460

Arg Leu Lys Tyr Met Lys Arg Leu Met Lys Lys Phe Lys Arg Lys Leu
 1 5 10 15

Ala Ser Lys Leu Leu His Ala Arg Gly Leu Ile Arg Asn Ala Val Phe
 20 25 30

Thr Arg Arg Ala Glu Met Ala Ile Ala Asn Gly Asp Asn Leu Cys Phe
 35 40 45

Arg Arg Lys Met Leu Arg Gln Ala His Lys Thr Met Ala Gly

50

55

60

<210> 4461
 <211> 66
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4461

Phe Ile Arg Leu Leu His Arg Ile Trp Arg Arg Phe Lys Arg Leu Asp
 1 5 10 15

Thr Lys Tyr Ala Ala Leu Asn Ser Arg Asp Lys Lys Ala Cys Leu Leu
 20 25 30

Leu Asp Tyr Arg Phe Ala Leu Ala Ala Arg Tyr Ser Arg Pro Leu Tyr
 35 40 45

His Gln Arg Ala Lys Lys Arg Asn Asn Asn Ala Thr Ala Ile Lys Gln
 50 55 60

Arg Leu
 65

<210> 4462
 <211> 31
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4462

Trp Leu Lys Leu Leu Arg Arg Leu Phe Arg Arg Met Asn Lys Pro Met
 1 5 10 15

Gln Arg Ala Ala Gly Lys Asp Pro Ser Lys Trp Ala Lys Tyr Ala
 20 25 30

<210> 4463
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4463

Arg Phe Arg Ile Phe His Arg Leu Phe Lys Arg Leu Lys Cys Leu Leu
1 5 10 15

Leu Ala Lys Leu Asn Gln Leu Ile Leu Ile Asp Lys Ala Val Tyr Lys
20 25 30

Glu Glu His Lys
35

<210> 4464

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4464

Arg Ile Arg Trp Phe Cys Lys Leu Leu Arg Leu Leu Arg Lys Ala Leu
1 5 10 15

Pro His Tyr Leu Asn Lys Val Ala Gly Arg Arg
20 25

<210> 4465

<211> 76

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4465

Leu Trp Lys Leu Tyr His Arg Phe Phe Arg Lys Leu Arg Pro Asp Lys
1 5 10 15

Arg Pro Arg Ile Phe Lys Ala Ala Ala Val Thr Pro Thr Leu Leu
20 25 30

Leu Tyr Trp Ala Cys Lys Asp Ala Lys Lys Lys Lys Ala Cys Asp Leu
35 40 45

Thr Arg Arg Ser Ala Lys Lys Gly Leu Lys Leu Tyr Arg Trp Thr Ala
50 55 60

Val Met Arg Leu Gly Pro Ala Ser Gly Leu Leu Gly
 65 70 75

<210> 4466
 <211> 49
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4466

Lys Leu Arg Ile Leu Asn Lys Phe Met Arg Leu Tyr Arg Arg Gly Cys
 1 5 10 15

Val Asp Leu Lys Leu Leu Trp Trp Arg Lys Leu Glu Lys Leu Gln Val
 20 25 30

Lys Leu Ala Ala Thr Thr Leu Lys His Asp Ala Phe Ala Leu Arg Ser
 35 40 45

Leu

<210> 4467
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4467

Phe Phe Arg Phe Phe Lys Arg Leu Leu Arg Arg Met Lys Lys Val Asp
 1 5 10 15

Tyr Trp Leu Val Arg Ala Ala Leu Leu Ile Tyr Asp Leu Ser Arg Leu
 20 25 30

<210> 4468
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4468

Ile Phe Lys Tyr Leu Lys Lys Phe Phe Arg Leu Leu Lys Lys Ala Asp
 1 5 10 15

Val Ala Lys Gln Ala Ile Met Arg
 20

<210> 4469

<211> 50

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4469

Leu Phe Arg Tyr Leu Lys Arg Leu Leu Arg Arg Leu Pro Lys Cys Asn
 1 5 10 15

Tyr Met Pro Ala Lys Arg Ala Asn Phe Arg Ala Leu Leu Leu Ala Arg
 20 25 30

Cys Ala Tyr Val Glu Lys Pro Lys Ala Lys Arg Ala Ile Lys Asn Tyr
 35 40 45

Lys Leu
 50

<210> 4470

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4470

Lys Phe Lys Leu Leu Arg Lys Met Leu Arg Arg Leu Thr Cys Leu Ile
 1 5 10 15

Leu Gly Ile Pro Trp Ile Lys Lys Cys Met Cys Lys Ala Leu Arg Thr
 20 25 30

Leu

<210> 4471

<211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4471

Tyr Met Arg Met Phe Lys Arg Tyr Leu Lys Lys Leu His Lys Ala Leu
 1 5 10 15

Asn Leu Arg Ala Ala Asn
 20

<210> 4472
 <211> 43
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4472

Lys Trp Lys Leu Leu Lys Lys Leu Met Arg Leu Met Arg Arg Val Glu
 1 5 10 15

Ala Glu Ser Leu Ala Ala Asn Ala Glu Trp Pro Trp Val Leu Lys Gly
 20 25 30

Arg Trp Arg Asp Ala Leu Phe Leu Phe Cys Leu
 35 40

<210> 4473
 <211> 37
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4473

Tyr Phe Lys Leu Leu Lys Arg Tyr Leu Lys Arg Leu Cys His Ala Lys
 1 5 10 15

Lys Asn Lys Arg Ala Met Lys Thr Lys Gln Leu Gly Ser Thr Ser Leu
 20 25 30

Ser Met Glu Leu Lys

35

<210> 4474
 <211> 37
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4474

Met Leu Arg Leu Met Ser Lys Phe Trp Arg Arg Leu Lys Pro Ala Leu
 1 5 10 15

Lys Tyr Tyr Ala Arg Leu Tyr Leu Arg Leu Lys Leu Lys Leu Ser Phe
 20 25 30

Arg Lys Arg Met Trp
 35

<210> 4475
 <211> 42
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4475

Tyr Trp Arg Leu Tyr Pro Arg Ile Leu Arg Arg Tyr Arg His Arg Met
 1 5 10 15

Lys His Lys Lys Gly Arg Ala His Val Lys Ala Val Gln Ala Arg Ala
 20 25 30

Leu Ala Asn Ala Glu Leu Phe Leu Leu Ile
 35 40

<210> 4476
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4476

Arg Phe Lys Phe Trp Lys Lys Leu Tyr Lys Leu Tyr Lys Lys Gln Arg

1 5 10 15

Leu Met Phe Trp Lys Lys Leu Tyr Leu Ser Thr Leu Ala Ser Cys Lys
 20 25 30

Ala Gln Leu Gln
35

<210>	4477
<211>	61
<212>	PRT
<213>	Artificial Sequence

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<220>  
<223> Computer-generated peptide variant
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<400> 4477

Lys Phe Arg Phe Ile Lys Lys Leu Met Arg Lys Phe Arg His Leu Thr
1 5 10 15

Leu His Lys Ala Gly Lys Arg Ala Thr Gly Lys Ala Ile Gly Lys Arg
20 25 30

Tyr Cys Ala Arg Ser Leu Arg Arg Leu Gly Ala Phe Leu Gln Gln Leu
35 40 45

Lys Leu Asn Arg Val Thr Lys Gln Cys Arg Trp Cys Ala
50 55 60

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<210> 4478
<211> 52
<212> PRT
<213> Artificial Sequence
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<220>
<223> Computer-generated peptide variant

<400> 4478

Lys Tyr Arg Met Leu Cys Lys Tyr Met Arg Arg Ile Pro Lys Ala Leu
1 5 10 15

Asn Arg Ala Arg Arg Leu Met Asn Leu Asp His Gln Asn Ala Gln Asn
20 25 30

Arg Ala Lys Lys Leu Met Asp Cys Lys Gly Lys Leu His Lys Ala Ser
35 40 45

Leu Arg Gln Lys
50

<210> 4479
<211> 25
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 4479

Trp Ile Lys Ile Leu Lys Arg Leu Leu Lys Phe Phe Arg Arg Trp Lys
1 5 10 15

Ala Met Cys Thr Ile Ala Ile Ala Lys
20 25

<210> 4480
<211> 73
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 4480

Leu Trp Arg Leu Phe Ser Arg Phe Leu Arg Leu Tyr His Ser Asn Lys
1 5 10 15

Ala Leu Ile Lys Ala Cys Glu Leu Leu Lys Gly Lys Arg Asn Ala Arg
20 25 30

Tyr Asp Ser Lys Leu Trp Trp Leu Lys Asn Ser Ala Val Leu Lys Arg
35 40 45

Lys Ile Pro Leu Glu Cys Lys Lys Leu Ala Tyr Leu Ala His Ser Lys
50 55 60

Leu Lys His Leu Leu Pro Ser Gln Leu
65 70

<210> 4481
<211> 44
<212> PRT
<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4481

Arg Phe Arg Leu Ile Pro Arg Leu Ile Lys Lys Met Gln Arg Thr Tyr
 1 5 10 15

Met Lys Ser Met Arg Leu Ala Lys Tyr Asp Ala Pro Leu Asn Leu Ala
 20 25 30

Lys Leu Ala Ala Lys Arg Lys Glu Ile Leu Phe Tyr
 35 40

<210> 4482

<211> 92

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4482

Lys Ile Arg Leu Leu His Arg Phe Trp Lys Lys Phe Lys Arg Leu Ile
 1 5 10 15

Lys Lys Asn Asn Glu Gly Leu Ala Lys Leu Met Ala Cys Thr Leu Leu
 20 25 30

Cys Leu Ala Ala Lys Lys Arg Leu Lys Ala Trp Lys Arg Lys Ser Gly
 35 40 45

Arg Cys Arg Ala Arg Asn Val Ala Leu Met Lys Glu Phe Met Ala Leu
 50 55 60

Trp Arg Ala Cys Asp Thr Lys Asp Val Tyr Ser Arg Lys Ser Lys Leu
 65 70 75 80

Glu Asn Val Ser Arg Leu Val Lys His Ala Arg Arg
 85 90

<210> 4483

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4483

Lys Met Lys Met Ile Arg Arg Phe Leu Arg Lys Leu Arg Lys Ala Ala
1 5 10 15

Leu Glu Leu Ala Thr Leu Glu Ala Val
20 25

<210> 4484

<211> 41

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4484

Lys Met Arg Leu Leu Arg Lys Phe Ile Lys Phe Phe Lys His Ala Arg
1 5 10 15

Thr Ala Ala Gly Trp Ala Gln Ser Lys Leu Tyr Ser Ala Ala Thr Pro
20 25 30

Tyr Lys Lys Arg Ala Ser Cys Ala Arg
35 40

<210> 4485

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4485

Arg Ile Lys Leu Leu Lys Arg Leu Trp Arg Tyr Phe Arg Arg His Ala
1 5 10 15

Glu Ser Ala Ala Pro Lys Lys Asn Gln Phe Arg Asp Cys Ala
20 25 30

<210> 4486

<211> 64

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4486

Leu Ile Arg Tyr Leu Lys Lys Leu Phe Arg Leu Met Lys Lys Thr Tyr
 1 5 10 15

Arg Lys Ala Val Gly Trp Ile Asn Ala Ala Ala Tyr Arg Arg Asp Gln
 20 25 30

Gln Lys Ala Leu Lys Leu Asp Thr Asp Ala Val Cys Gly Leu Gly Ser
 35 40 45

Lys Ala Gln Arg Ala Ile Lys Arg Thr Arg Met Arg Lys Leu Pro Lys
 50 55 60

<210> 4487

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4487

Arg Phe Lys Leu Tyr Thr Lys Met Leu Arg Leu Leu His Gln Lys Lys
 1 5 10 15

Arg Arg Arg His Ser Gln Tyr Leu Gln Arg His Arg Ala Ala Ala Ala
 20 25 30

Leu Ile Thr
 35

<210> 4488

<211> 53

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4488

Lys Trp Lys Phe Trp Lys Arg Tyr Phe Arg Tyr Leu Lys Arg Lys Leu
 1 5 10 15

Glu Leu Cys Ile Val Cys Tyr Val Ala Leu Lys Ala Pro Leu Asp Met
 20 25 30

Arg Arg Leu Arg Leu Leu Met Arg Leu Arg Gly Arg His Phe Leu Ser
 35 40 45

Arg Met Ala Ile Lys
 50

<210> 4489
 <211> 61
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4489

Arg Met Lys Leu Tyr Arg Arg Leu Tyr Lys Arg Tyr Cys Lys Lys Leu
 1 5 10 15

Arg Arg Ala Arg Ala Leu Ala Lys Leu Leu Arg Gly Met Ser Gly Lys
 20 25 30

Ala Lys Ala Trp Met Gly Asp Trp Arg Trp Thr Lys Arg Ala Thr Ala
 35 40 45

Val Arg Lys Tyr Ile Phe Ser Glu Met Ala Pro Phe Asn
 50 55 60

<210> 4490
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4490

Tyr Phe Lys Leu Met Lys Lys Phe Ile Arg Leu Leu Arg Ser Arg Leu
 1 5 10 15

Thr Pro Cys Lys Lys Pro Tyr Leu Leu Ala Ala Ala Gly Lys Arg Lys
 20 25 30

Leu Cys Ala Ala Leu Pro Arg Arg
 35 40

<210> 4491

<211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4491

Phe Leu Lys Leu Met Arg Lys Met Leu Arg Lys Phe Pro Asn Leu Arg
 1 5 10 15

Asp Lys Leu Val Gln Ala
 20

<210> 4492
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4492

Tyr Leu Arg Ile Leu Arg Arg Leu Leu Lys Phe Phe Gln Lys Gln Gly
 1 5 10 15

Arg Ala Arg Pro Arg Leu Val Leu Leu Lys Tyr Asn Arg Ile Ala Thr
 20 25 30

<210> 4493
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4493

Leu Trp Lys Trp Leu Lys Lys Met Leu Lys Lys Phe Ser Asn Asp Phe
 1 5 10 15

Ala Leu Lys Lys Lys Ala Gly His
 20

<210> 4494
 <211> 79
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4494

Leu Leu Arg Leu Leu Gln Arg Phe Tyr Lys Arg Met Lys Gln Leu Arg
 1 5 10 15

Leu Lys Leu Arg Ala Leu Lys Pro Asp Asn Ala Lys Thr Leu Ala Glu
 20 25 30

Glu Thr Lys Trp Ile Trp Asp Ala Leu Arg Arg Ala Ser Ala Leu Arg
 35 40 45

Trp Phe Lys Thr Gly Leu Leu Tyr Gly Phe Lys Ala Ala Gly Thr Lys
 50 55 60

Leu Phe Lys Phe Lys Asn Leu Pro Leu Asp Met Ala Arg Val Ala
 65 70 75

<210> 4495

<211> 37

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4495

Leu Leu Lys Ile Leu Thr Arg Trp Leu Lys Lys Leu Cys Cys Ala Met
 1 5 10 15

Ala Ala Ala Ser Ala Arg Thr Lys Trp Pro Met Val Ile Gln Arg Asn
 20 25 30

Ala Phe Arg Lys Lys
 35

<210> 4496

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4496

Leu Ile Arg Trp Leu Asn Lys Phe Leu Lys Ile Trp Lys Arg Ser Ala

1 5 10 15

Ala Ala Lys Gly Ala Gly Asp Lys Ala Tyr Gln Ala Cys
20 25

<210> 4497
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 4497

Met Leu Arg Trp Met His Lys Leu Leu Lys Arg Leu Lys Lys Trp Ile
1 5 10 15

Met Ala Gly Lys Arg His Arg Glu Leu His Ala Lys Ala Tyr Leu Arg
20 25 30

Leu Tyr Trp Ile Lys Gln Arg Arg
35 40

<210> 4498
<211> 85
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 4498

Met Leu Arg Ile Ile Arg Arg Leu Leu Arg Phe Leu Ser Lys Arg Ile
1 5 10 15

Tyr Leu Asn Gln Ala His Trp Ala Lys His Lys Ala Val Thr His Asp
20 25 30

Lys Ala Cys Leu Tyr Met Glu Lys Ala Lys Met Lys Leu Pro Leu Glu
35 40 45

Arg Met Trp Leu Arg Leu Gln Arg Ala Ala Ala Ser Lys Leu Lys Arg
50 55 60

Asp Met Asn Arg Ala Lys Ala Cys Ala Leu Arg Arg Arg Trp Leu Arg
65 70 75 80

Arg Ser Ser Met Trp
85

<210> 4499
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 4499

Lys Met Arg Trp Leu Arg Arg Phe Tyr Lys Leu Tyr Asn Lys Ala Leu
1 5 10 15

Ala Thr Asp Leu Met
20

<210> 4500
<211> 45
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 4500

Leu Phe Arg Leu Leu Arg Lys Ile Leu Arg Met Leu Arg Cys Trp Lys
1 5 10 15

Ala Lys Ala Thr Val Arg Leu Leu Asp His Leu Thr Gln Gln Arg Gly
20 25 30

Leu Arg Lys Ser Thr Val Ser Phe Leu Gly Arg Glu Leu
35 40 45

<210> 4501
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 4501

Lys Phe Lys Leu Leu Arg Lys Met Trp Lys Leu Leu Asn Lys Arg Arg
1 5 10 15

Arg Ala His Arg Ile Ala Gly Ala Arg Gln Asn Asn Ala Gly
 20 25 30

<210> 4502
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4502

Arg Phe Arg Trp Trp Lys Lys Leu Phe Lys Arg Met Ser Thr Ala Pro
 1 5 10 15

Arg Leu Phe Gln Ser Lys Lys Ala Leu Ala Leu Ala Leu Gln Lys Lys
 20 25 30

Arg Lys Ala Tyr
 35

<210> 4503
 <211> 56
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4503

Lys Ile Arg Leu Trp Arg Arg Met Phe Lys Leu Leu Gln Ser Gly Phe
 1 5 10 15

Arg Ala Leu Asn Lys Phe Ala Ala Lys Ala Ala His Leu Leu Gln Leu
 20 25 30

Pro Arg Pro Lys Arg Val Met Arg His Glu Val Lys Thr Leu Lys Tyr
 35 40 45

Ala Lys Arg Ala Leu Lys Pro Glu
 50 55

<210> 4504
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4504

Lys	Leu	Lys	Leu	Phe	Arg	Arg	Trp	Trp	Lys	Arg	Leu	Ser	Ser	Leu	Ala
1				5					10					15	

His	Gln	Arg	Asp	Glu	Phe	Ala
				20		

<210> 4505

<211> 43

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4505

Ile	Ile	Arg	Met	Leu	Arg	Arg	Leu	Phe	Lys	Met	Trp	Arg	Cys	Pro	Asn
1				5					10					15	

Ala	Ala	Leu	His	Glu	His	Thr	Arg	Thr	Leu	Cys	Ala	Cys	Arg	Arg	Val
			20					25					30		

Ala	Leu	Ala	Arg	Arg	Trp	Ala	Arg	Leu	Leu	Arg
		35					40			

<210> 4506

<211> 39

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4506

Tyr	Leu	Arg	Phe	Leu	Gln	Lys	Phe	Tyr	Arg	Arg	Trp	Thr	Thr	Arg	Gly
1				5					10					15	

Ala	Gly	Lys	Lys	Val	Ile	Lys	Ala	Ala	Leu	Lys	Ala	Tyr	Arg	Arg	Leu
			20					25					30		

Ala	Arg	Lys	Cys	Ala	Val	Ser
				35		

<210> 4507

<211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4507

Phe Leu Lys Trp Leu Lys Lys Leu Met Arg Tyr Leu Lys Lys Lys Ile
 1 5 10 15

Lys His Lys Ala Arg Asn Gly Leu Ala Asp Lys Ala Tyr His
 20 25 30

<210> 4508
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4508

Arg Leu Arg Leu Met Asn Lys Leu Phe Lys Lys Leu His Ser Asp Trp
 1 5 10 15

Glu Phe Leu Lys
 20

<210> 4509
 <211> 47
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4509

Lys Met Arg Phe Leu Lys Arg Tyr Tyr Arg Leu Leu Lys Arg Arg Ser
 1 5 10 15

Arg Asn Asn Lys Leu Ala Leu Ala Leu His Phe Pro Asp Asp Ile Tyr
 20 25 30

Asn Ser Leu Ala His Arg Thr Ala Leu Phe His Ala Ala Ala His
 35 40 45

<210> 4510

<211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4510

Arg Trp Arg Leu Tyr Pro Lys Phe Leu Lys Met Leu Thr Lys Leu Leu
 1 5 10 15

Lys Met Leu Lys Ala Leu Phe Leu Arg Leu His Pro Ile Pro Gln Trp
 20 25 30

Arg

<210> 4511
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4511

Arg Leu Arg Phe Phe Thr Arg Leu Trp Arg Lys Leu Pro His Leu Gln
 1 5 10 15

Leu Ala Arg Trp Leu Lys
 20

<210> 4512
 <211> 52
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4512

Lys Leu Arg Phe Phe Asn Arg Phe Phe Lys Arg Leu Pro Arg Leu Ile
 1 5 10 15

Lys Trp Ala Ala His Arg Leu Met Ile Lys Leu Lys Lys Leu Gly Gln
 20 25 30

Lys Pro Ala Arg Thr Ile His Cys Lys Lys Trp Ala Met Gly Leu Ala

35

40

45

Ala Lys Gln Pro
50

<210> 4513
<211> 24
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 4513

Leu Ile Arg Leu Phe Lys Arg Leu Met Arg Arg Leu Arg Asn Leu Leu
1 5 10 15

Phe Leu Lys Asn Ser Thr Gln Glu
20

<210> 4514
<211> 60
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 4514

Lys Leu Arg Leu Leu His Lys Phe Phe Lys Arg Phe Ser Lys Cys Ala
1 5 10 15

Asn Lys Pro Leu Ala Arg Tyr Lys Phe Gln Arg Leu Arg His Ser Leu
20 25 30

Lys Ala Leu Arg Asn Gln Val Leu Cys Leu Cys His Ala Val Ala Met
35 40 45

Ala Lys Gln Thr Lys Ala Ala Lys Ala Glu Lys Lys
50 55 60

<210> 4515
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 4515

Leu Leu Arg Tyr Ile Cys Lys Tyr Leu Lys Leu Ile Arg Ser Asn Ala
1 5 10 15

Lys Lys Arg Ala Lys Lys Ala Pro Thr Met Ala Arg
20 25

<210> 4516

<211> 54

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4516

Phe Leu Arg Tyr Leu Arg Lys Tyr Phe Lys Leu Phe Lys Arg Ala Gly
1 5 10 15

Arg His Arg Met Leu Gln Leu Ala Leu Ser Leu Glu Pro Leu Arg Ile
20 25 30

Ile Arg Asp Ala Lys Gln Ala Ala Gln Lys Lys Pro Pro Ala Leu Gly
35 40 45

Tyr Thr Ser Lys Ala Leu
50

<210> 4517

<211> 47

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4517

Arg Ile Lys Leu Leu Arg Arg Phe Phe Arg Phe Leu Arg Lys Ala His
1 5 10 15

Cys Ala Phe Ser Met Thr Leu Arg Ala Ala Lys Gln Arg Cys Lys Trp
20 25 30

Ala Met Leu Lys Phe Arg Gly Ile Leu Leu Phe Gly Val Arg Leu
35 40 45

<210> 4518
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4518

Lys Leu Arg Leu Met Arg Arg Leu Leu Lys Leu Leu Thr Arg Phe Arg
 1 5 10 15

Ile Phe Arg Pro Pro Leu Ala Ala Lys Cys Lys Ser Gln Gly Leu Lys
 20 25 30

Met Phe Met Pro
 35

<210> 4519
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4519

Arg Leu Lys Leu Tyr Arg Arg Leu Tyr Arg Leu Phe Arg Pro Gly Gly
 1 5 10 15

Phe Ala Arg Ala Ala Ala Thr Ala Gln Asp Val Arg Thr Pro Ala Pro
 20 25 30

<210> 4520
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4520

Phe Met Arg Trp Trp Thr Arg Leu Leu Lys Lys Ile Arg Asn Glu Ala
 1 5 10 15

Ala Ala Lys Gly Ala Arg Met His Ile Trp Ala Ala Leu
 20 25

<210> 4521
 <211> 46
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4521

Leu Trp Lys Leu Leu Asn Arg Trp Leu Lys Arg Leu Thr Gln Glu Gly
 1 5 10 15

Leu Lys Ala Pro Phe Trp Arg Leu Ala Leu Lys Val Lys Ser Trp Glu
 20 25 30

Ala Gln Leu Ala Leu Arg Pro Arg Arg Asp Lys Ala Lys Lys
 35 40 45

<210> 4522
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4522

Lys Tyr Arg Leu Tyr Arg Lys Phe Phe Arg Leu Leu Arg Gln Arg Ala
 1 5 10 15

Leu Asn Gln Glu Thr Ser Pro Ala Leu Tyr Glu Lys Leu Leu Asp Arg
 20 25 30

Lys Arg Ala Lys Lys Tyr Arg Pro
 35 40

<210> 4523
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4523

Leu Phe Lys Tyr Tyr Asn Lys Leu Trp Lys Arg Met Arg Lys Ile Ala
 1 5 10 15

Arg Leu Gly Gly Leu Arg Leu Thr
20

<210> 4524
<211> 36
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 4524

Lys Leu Arg Leu Leu Arg Arg Ile Leu Arg Lys Phe Asn Lys Arg Arg
1 5 10 15

Ala Arg Leu His His Ser Lys Asp Leu Trp Leu Leu Val Cys Gln Glu
20 25 30

Tyr Arg Glu Ile
35

<210> 4525
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 4525

Phe Phe Arg Leu Met Lys Lys Phe Leu Lys Lys Tyr Arg Arg Ala Leu
1 5 10 15

Asn Tyr Ala Gln Met Ala Ala
20

<210> 4526
<211> 60
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 4526

Lys Leu Lys Ile Phe Pro Lys Phe Ile Arg Met Trp Lys Pro Lys Cys
1 5 10 15

Ala Cys Glu Lys Leu Ala Leu Lys Lys Cys Tyr Lys Val Asn Arg Trp
 20 25 30

Ala Ala Arg Ile Cys Lys Leu Pro Met Leu Glu Lys Arg Leu Ala Arg
 35 40 45

Lys Leu Leu Glu Arg Arg Arg Val Val Asn Leu Asp
 50 55 60

<210> 4527
 <211> 57
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4527

Tyr Tyr Arg Leu Trp Thr Arg Met Leu Arg Leu Leu Arg Ser Ala Ile
 1 5 10 15

Phe Lys Ala Lys Phe Ala Trp Arg Trp Ala Ala Glu Thr Ile Phe Arg
 20 25 30

Arg Cys Ile Ser Arg Lys Cys Arg Lys Val Leu Leu Leu Ala Ala Lys
 35 40 45

Asp Ser Lys Tyr Ala Arg Ala Ile Arg
 50 55

<210> 4528
 <211> 44
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4528

Leu Trp Arg Phe Tyr His Lys Leu Ile Arg Leu Leu Arg Arg Ser Ala
 1 5 10 15

Tyr Arg Ala Leu Arg Lys Leu Arg Ser Trp Tyr Gln Ala Arg Ala Gln
 20 25 30

Arg Arg Arg Trp Ser Ile Ala Arg Asn Ile Ala Tyr

35

40

<210> 4529

<211> 78

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4529

Leu Met Lys Leu Leu Arg Arg Leu Trp Arg Phe Met Asn Asn Leu Leu
 1 5 10 15

Ala Phe Thr Ala Lys Lys Leu Ala Ile Glu Tyr Trp Arg Met Gln Pro
 20 25 30

Cys Ser Phe Gln Leu Glu Cys Phe Leu Glu Met Ala Glu Asn Pro Lys
 35 40 45

Leu Arg Arg Asp Arg Leu Tyr Arg Leu Lys Leu Ala Asp Ala Arg Leu
 50 55 60

Arg Arg Arg Lys Lys Arg Asn Lys Arg Leu Leu Ala Ala His
 65 70 75

<210> 4530

<211> 48

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4530

Arg Leu Lys Met Leu Lys Lys Met Leu Lys Lys Leu Thr Arg Arg Met
 1 5 10 15

Gln Ala Ile Ala Lys Ala Ala Lys Leu Leu Leu Cys His Arg Glu Leu
 20 25 30

Glu Ala Ala Ser Lys Pro Lys His Pro Phe Ala Tyr Ala Glu Ala Thr
 35 40 45

<210> 4531

<211> 52

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4531

Leu Phe Arg Leu Ile Ser Lys Leu Trp Arg Lys Met Cys Lys Ala Cys
1 5 10 15

Ala Pro Glu Phe Leu Lys Lys Lys Pro Leu Arg His Trp Ser Leu Ala
20 25 30

Tyr Trp Leu Arg Leu Lys Lys Glu Arg Ser Ser Ala Thr Arg Leu Met
35 40 45

Ala Lys Tyr Val
50

<210> 4532

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4532

Met Leu Lys Leu Leu Arg Arg Tyr Trp Lys Lys Phe Cys Arg Glu Ala
1 5 10 15

Arg Leu Ala Phe Ala Met
20

<210> 4533

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4533

Leu Tyr Arg Leu Phe Cys Arg Leu Met Arg Leu Phe Arg Pro Phe Asp
1 5 10 15

Glu Leu Lys Lys Arg Glu Leu Pro Thr Lys Leu Tyr Arg Cys Arg Ala
20 25 30

Arg

<210> 4534
 <211> 80
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4534

Phe Tyr Arg Leu Ile Lys Lys Met Trp Lys Leu Phe Arg Lys Gly Thr
 1 5 10 15

Lys Ala Met Ala Val Leu Met Tyr Tyr Tyr Arg Leu Thr Ser Leu Leu
 20 25 30

Ala Ala Ala Arg His Lys Gly Val Leu Trp Leu Lys Ser Lys Leu Gln
 35 40 45

Lys Asn Ile His Lys Arg Thr Lys Thr Lys Cys Ile Ala Ala Ala Lys
 50 55 60

Val Arg Gln Ala Ala Met Met Asn Ala Ala Asp Lys Leu Arg Ile Leu
 65 70 75 80

<210> 4535
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4535

Leu Met Arg Leu Leu Lys Arg Leu Trp Arg Leu Ile Arg Cys Pro Ala
 1 5 10 15

Met Arg Arg Lys Asp Ala Asn Tyr
 20

<210> 4536
 <211> 55
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4536

Arg Leu Arg Leu Trp Arg Arg Phe Leu Lys Phe Leu Lys His Asp Asp
 1 5 10 15

Arg Ile Ile Ala Ala Lys Arg Arg Leu Leu Leu Lys Leu Lys Leu Arg
 20 25 30

Leu Trp Ser Val His His Lys Pro Leu Pro Arg Arg Asp Ile Leu Arg
 35 40 45

Glu His Met Val Ala Pro Pro
 50 55

<210> 4537

<211> 55

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4537

Leu Phe Arg Leu Leu Lys Lys Ile Met Lys Leu Leu Arg Asn Ala Trp
 1 5 10 15

Ser Lys Ser Ile Leu Tyr Ala Val Leu Thr Ile Met Arg Cys Lys Leu
 20 25 30

Thr Lys Gly Ala Leu Ile Arg Leu Ala Lys Arg Cys Leu Lys Leu Arg
 35 40 45

Leu Ile Arg Lys Gln Lys Asp
 50 55

<210> 4538

<211> 60

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4538

Tyr Leu Lys Ile Ile Arg Lys Tyr Ile Lys Arg Ile His Arg Gln Glu

1					5					10					15				
Arg	Val	Lys	Leu	Arg	His	Glu	Lys	Asn	Met	Gln	Leu	Lys	Ala	Arg	Asn				
			20				25						30						
Ala	Asp	His	Phe	Ser	Leu	Ser	Lys	Ala	Gln	Ala	Leu	Asp	Leu	Ala	Thr				
			35				40						45						
Arg	Ser	Leu	Lys	Lys	Lys	Ile	Trp	Leu	Arg	Lys	Leu								
50						55						60							

<210>	4539
<211>	57
<212>	PRT
<213>	Artificial Sequence
<220>	
<223>	Computer-generated peptide variant
<400>	4539

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Lys Leu Arg Met Leu Ser Lys Leu Phe Arg Lys Phe Cys Arg Cys Ile
1          5          10          15

Leu Trp Ala Leu Leu Arg Lys Tyr Ala Arg Gly Lys Tyr Ser Leu Lys
          20          25          30

Tyr Leu Asn Val Ser Leu Lys Glu Thr Arg Arg Pro Lys Glu Thr Leu
          35          40          45

Asp Leu Arg Gln Ala Cys Tyr Lys Leu
          50          55

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<210>	4540
<211>	42
<212>	PRT
<213>	Artificial Sequence
<220>	
<223>	Computer-generated peptide variant
<400>	4540

Trp Ile Lys Ile Leu Asn Arg Ile Phe Arg Arg Leu Arg Lys Arg Asn
1 5 10 15

Phe Gln Phe Leu Arg Leu Asp Glu Leu Leu Ala Gln Leu Lys Lys Ala
20 25 30

Thr Tyr Lys Gly Ser Leu Ala Ala Ala Gly
 35 40

<210> 4541
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4541

Arg Tyr Arg Ile Leu His Lys Phe Phe Lys Phe Leu Lys Lys Lys Arg
 1 5 10 15

Asn Ala Gly Leu Gly Arg Leu Asp Lys Pro Ala Ala Phe Gly
 20 25 30

<210> 4542
 <211> 26
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4542

Lys Phe Lys Leu Phe Lys Lys Trp Leu Arg Leu Leu Gln Asn Ala Arg
 1 5 10 15

Met Asn Lys Trp Arg Val Ala Leu Lys Trp
 20 25

<210> 4543
 <211> 52
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4543

Lys Phe Arg Phe Phe Lys Arg Leu Trp Arg Lys Leu Lys Ser Lys Leu
 1 5 10 15

Lys Lys Arg Ala Ala Ala Trp Arg Gln Thr Val Phe Met Glu Leu Ala
 20 25 30

Lys Arg Pro Glu Ala Ala Ala Arg Phe Ser Gly Met Ala Arg Ala Arg
 35 40 45

Leu Ala Gly Ala
 50

<210> 4544
 <211> 50
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4544

Lys Phe Arg Ile Phe His Lys Leu Leu Arg Lys Trp Cys Lys Leu Leu
 1 5 10 15

Lys Ala Arg Trp Gln Ser Arg Arg Thr Ala Val Leu Leu Trp Leu Pro
 20 25 30

Tyr Asp Lys Thr Cys Leu Tyr Leu Lys Ala Arg His Ala Leu Phe Tyr
 35 40 45

His Ala
 50

<210> 4545
 <211> 92
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4545

Leu Leu Arg Leu Phe Arg Lys Leu Trp Arg Lys Leu Lys Arg Asn His
 1 5 10 15

Tyr Arg Ile Lys Leu Gly Asp Lys Lys Thr Ala Cys Arg Trp Leu Cys
 20 25 30

Arg Arg Thr Ala Ala Phe Leu Asn Arg Ile Asn Leu Val Leu Leu Arg
 35 40 45

Arg Gln Arg Lys Leu Lys Ala Arg Ala Arg Leu Ala Pro Arg Asp Ile

50

55

60

Ser Cys Val Asp Ala Gly Cys Arg Ile Met Lys Ala Ala Met Ile Lys
 65 70 75 80

Cys Met Gly Ala Gly Arg Ala Ile Asp Leu Val Gly
 85 90

<210> 4546

<211> 48

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4546

Phe Met Arg Leu Ile Arg Lys Phe Leu Arg Lys Leu Gln Cys Lys Ala
 1 5 10 15

Glu Lys Leu Ala Ala Leu His Trp Phe Lys Lys Arg Ile Lys Lys Ala
 20 25 30

Ala Asp Arg Leu Ala Glu Asn Lys Ser Asp Ala Trp Val Gly Leu Gln
 35 40 45

<210> 4547

<211> 41

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4547

Lys Met Arg Ile Met Lys Arg Leu Leu Lys Phe Leu Lys Lys Arg Gln
 1 5 10 15

Pro Leu Leu Arg Arg Lys Ala Phe Leu Thr His Ala His Pro His Ala
 20 25 30

Arg Asp Lys Leu Lys Cys Pro Leu Lys
 35 40

<210> 4548

<211> 51

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4548

Arg Trp Lys Leu Tyr Arg Arg Phe Leu Lys Arg Leu Asn Arg Tyr Arg
1 5 10 15

Ala Tyr Trp Arg Ala Val Met Ser Gln Arg Ala Thr Phe Arg Arg Leu
20 25 30

Arg Tyr Leu Ala Lys Glu Met Ala Arg Met Phe Gln Lys Leu Leu Ile
35 40 45

Met Leu Arg
50

<210> 4549

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4549

Trp Trp Arg Phe Ile Lys Lys Phe Leu Lys Lys Leu Asn Arg Leu Leu
1 5 10 15

Arg Ala Lys Ser Trp Met Ala Ala
20

<210> 4550

<211> 42

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4550

Lys Met Arg Ile Met Lys Arg Phe Phe Lys Arg Ile Arg Lys Leu Met
1 5 10 15

Gly Ala Gly Leu Gln Lys Phe Leu Arg Ala Arg Leu Leu Leu Asp Leu
20 25 30

Leu Arg Lys Ala Phe Tyr Ala Gln Leu Leu
35 40

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<210> 4551
<211> 24
<212> PRT
<213> Artificial Sequence
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<220>
<223> Computer-generated peptide variant

<400> 4551

Arg Met Lys Ile Phe Arg Lys Leu Leu Lys Lys Phe Asn Arg Ala Pro
1 5 10 15

Leu Lys Ala Glu Leu Cys Ser Ala
20

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<210> 4552
<211> 48
<212> PRT
<213> Artificial Sequence
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<220>
<223> Computer-generated peptide variant

<400> 4552

Arg Leu Lys Leu Tyr Arg Arg Phe Leu Lys Arg Leu Arg Ser Lys Arg
1 5 10 15

Trp Ala Asn Leu Ala Arg Ala Asp Leu Phe Lys Lys Val His Trp His
20 25 30

Gln Lys Arg Ala Ala Gln Gln Pro Tyr Lys Lys Leu Met Ser Met Asp
35 40 45

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<210> 4553
<211> 23
<212> PRT
<213> Artificial Sequence
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<220>
<223> Computer-generated peptide variant

<400> 4553

Arg Tyr Lys Leu Leu Arg Lys Leu Leu Arg Lys Tyr Lys Lys Ile Lys
1 5 10 15

Leu Met Pro Asn Gln Leu Ala
20

<210> 4554
<211> 60
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 4554

Lys Met Arg Phe Trp Lys Lys Met Leu Lys Met Leu Arg Lys Leu Gly
1 5 10 15

Ala Pro Arg Asn Gln Leu Asp Ala Ala Arg Leu Arg Arg Thr Ile Lys
20 25 30

Ala Arg Thr Lys Ile Ala Ala Pro Ser Leu His Gln Ala Pro Gly Arg
35 40 45

Leu Leu Ala Ala Phe Ala Leu Phe His Ala Asp Leu
50 55 60

<210> 4555
<211> 63
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 4555

Lys Met Arg Trp Trp His Lys Met Phe Arg Leu Leu Ser Lys Arg Ala
1 5 10 15

Ala Lys Lys Ile Ile Leu Leu Asp Arg His Lys Lys Arg Leu Lys Leu
20 25 30

Trp Leu Pro Ile Leu Met Lys Tyr Glu Ile Leu Ala Thr Ala Gln Ala
35 40 45

Pro Arg Ala Gly Ala Gly Ala Asn Val Ala Leu Tyr Ser Lys Val
50 55 60

<210> 4556

<211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4556

Leu Met Lys Tyr Phe Arg Lys Trp Trp Lys Arg Phe Lys Arg Phe His
 1 5 10 15

Leu Arg Ala Ala Lys Val Glu Pro Leu Thr Ala His Ala Leu Thr Lys
 20 25 30

<210> 4557
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4557

Leu Leu Lys Tyr Met Lys Lys Phe Phe Lys Arg Leu Lys Lys Ala His
 1 5 10 15

Ala Lys Met Ala Trp Asp Leu Ala Cys Ala Ala Val Lys
 20 25

<210> 4558
 <211> 39
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4558

Phe Met Arg Ile Leu Lys Lys Ile Met Lys Leu Phe Arg Thr Leu Phe
 1 5 10 15

Ala Gln Trp Ala Lys Ser Lys Arg Tyr Lys Ala Ala Arg Ala Arg Ala
 20 25 30

Val Leu Tyr Ala Ser Val Trp
 35

<210> 4559

<211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4559

Leu Leu Arg Leu Ile Arg Arg Leu Tyr Lys Arg Met Lys Asn Pro Gln
 1 5 10 15

Ala Lys Val Leu Tyr Asn Ala Ser Ala Ile Leu Lys Ala Lys
 20 25 30

<210> 4560
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4560

Trp Leu Arg Tyr Trp Ser Arg Leu Leu Arg Tyr Phe Gln Lys Leu Cys
 1 5 10 15

Lys Lys Arg Met Leu Ser Arg Ala
 20

<210> 4561
 <211> 27
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4561

Lys Leu Lys Ile Trp Arg Arg Met Phe Arg Lys Leu Gln Arg Ala Leu
 1 5 10 15

Ile Leu Leu Ile Trp Lys Cys Ala Pro Ala Arg
 20 25

<210> 4562
 <211> 78
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4562

Leu	Trp	Arg	Met	Leu	Lys	Arg	Leu	Leu	Lys	Arg	Ile	Lys	Ser	Ala	His
1				5					10					15	

Leu	Pro	Arg	Leu	Asn	Lys	Leu	Asn	Phe	Arg	Phe	Gly	Trp	Thr	Met	Lys
			20					25					30		

Lys	Lys	Asn	Lys	Tyr	Ala	Leu	Ala	Gln	Tyr	Lys	Ala	Ile	Lys	Leu	Val
		35					40					45			

Leu	Lys	Leu	Ala	Phe	Gln	Gln	Met	Ala	Met	Asp	Ala	Gln	Lys	Arg	Ala
	50						55				60				

His	Met	Asn	Gln	Leu	Ala	Val	Met	Leu	Trp	Tyr	Ala	Arg	Ala
65						70				75			

<210> 4563

<211> 43

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4563

Arg	Tyr	Lys	Leu	Trp	Pro	Lys	Trp	Trp	Lys	Lys	Leu	Arg	Arg	Ala	Ala
1				5					10					15	

Ile	Leu	Trp	Pro	Leu	Ala	Leu	Pro	Asn	Lys	Leu	Lys	Lys	Ala	Phe	Tyr
			20					25					30		

Ala	Lys	Tyr	Arg	Leu	Met	Arg	Glu	Asp	Leu	Leu
		35					40			

<210> 4564

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4564

Met	Met	Arg	Leu	Ile	Cys	Arg	Leu	Leu	Lys	Arg	Phe	Thr	Arg	Ala	Ala
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

Lys Ala Leu Arg Ala Glu Gln Lys Asp Lys Ile Thr Ile Ser Glu Leu

20 25 30

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<210> 4565
<211> 73
<212> PRT
<213> Artificial Sequence
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<220>  
<223> Computer-generated peptide variant
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<400> 4565

Leu Leu Arg Leu Phe Arg Lys Phe Met Arg Leu Met Lys Arg Leu Asp
1 5 10 15

Arg Ala Arg Met Lys Leu Leu Thr Met Ala Phe Ala Lys Lys Asp Trp
20 25 30

His Met Leu Arg Asn Lys Arg Ala Met His Lys Arg Asp Ala Arg Leu
35 40 45

Lys Met Trp Lys Ala Leu Lys Leu Ala His Ala Met Asp Arg Leu Leu
50 55 60

Tyr Arg Gln Lys Asn Gln Arg Tyr Asp
65 70

<210>	4566
<211>	79
<212>	PRT
<213>	Artificial Sequence

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<220>
<223> Computer-generated peptide variant
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<400> 4566

Arg Leu Lys Ile Leu Asn Lys Leu Leu Lys Lys Tyr Arg Lys Cys Tyr
1 5 10 15

Gly Val Ala Lys Ser Tyr Ala Val Leu Ala Ser Gln His Leu Met Ser
20 25 30

Cys Pro Gln Ala Met Arg Trp Leu Arg Cys Asp Trp Ile Pro Pro Lys
35 40 45

Arg Ala Leu Ser Arg Leu Ile Lys Val Ala Tyr Ala Arg Lys Ala Ile
 50 55 60

Phe Leu Lys Ala Arg Leu Val Asp Ala Ala Thr Lys Arg Leu Leu
 65 70 75

<210> 4567
 <211> 31
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4567

Leu Leu Arg Met Leu Lys Lys Tyr Leu Arg Met Tyr Lys Lys Val Leu
 1 5 10 15

Leu Arg Lys Asp His Trp Cys Gly Leu Leu Asn His Lys Phe Lys
 20 25 30

<210> 4568
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4568

Met Met Arg Leu Ile Arg Lys Leu Leu Lys Arg Leu Asn Arg Gly Pro
 1 5 10 15

Cys Tyr Phe Trp Ala Ala Ala Gln Leu Ala Gln Lys
 20 25

<210> 4569
 <211> 42
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4569

Arg Trp Lys Leu Leu Arg Lys Leu Trp Lys Lys Met Arg Gln Cys Leu
 1 5 10 15

Ser Val Arg Leu Arg His Ala Arg Lys Glu Leu His His Cys Lys Ala
 20 25 30

Leu Leu Lys Ile Met Pro Leu Ala Leu Arg
 35 40

<210> 4570

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4570

Lys Leu Arg Phe Phe Lys Arg Leu Leu Lys Lys Leu His Arg Arg Trp
 1 5 10 15

Ala Glu Arg Cys Phe Arg Gly Lys Arg Lys Asn Leu Ala Ala Ala Ile
 20 25 30

Ile Leu

<210> 4571

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4571

Leu Phe Arg Ile Phe Lys Lys Phe Phe Lys Leu Leu Ser Arg Leu Phe
 1 5 10 15

Cys Lys Lys Phe Ala Leu Arg Arg Ala
 20 25

<210> 4572

<211> 54

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4572

Arg Phe Lys Tyr Ile Cys Arg Leu Phe Arg Lys Leu Cys Arg Ile Glu
 1 5 10 15

Asn Tyr Leu Lys Lys Arg Pro Ala His Leu Lys Leu Tyr Phe Leu Asn
 20 25 30

Lys Arg Glu Leu Arg Gln Glu Ala Cys Ala Leu Leu Leu Gly Arg Asp
 35 40 45

Lys Pro His Lys Ala Pro
 50

<210> 4573

<211> 98

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4573

Tyr Leu Arg Leu Leu Lys Arg Leu Leu Lys Tyr Ile Lys Arg Arg Arg
 1 5 10 15

Arg Trp Arg Arg Ala Asp Leu Phe Arg Pro Ala Thr Lys Leu Arg Leu
 20 25 30

Lys Gln Ile Gln Ala Met Lys Asn Leu Leu Ser Ala Ala Lys Tyr Glu
 35 40 45

Tyr Tyr Lys Lys Ile Leu Leu Phe Leu Ala Ser Lys Gly Ala Gln Thr
 50 55 60

Trp Glu Lys Asn Leu Asn Ala Ile Asp Gly Ala Leu Ser Lys Arg Asp
 65 70 75 80

Met Arg Tyr Phe Phe Leu Leu Ile Gly Gln Lys Tyr Ala Trp Gln Lys
 85 90 95

Arg Leu

<210> 4574

<211> 48

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4574

Leu Trp Lys Leu Met Thr Arg Phe Ile Lys Leu Phe Arg Ser Leu Asp
1 5 10 15

Phe Ala Phe Ala Leu Arg Gln Ala Leu Leu Arg Leu Ala Arg Lys Pro
20 25 30

Gln Tyr Lys Thr Val Arg Lys Lys Glu Arg Glu Phe Ala Arg Trp Asp
35 40 45

<210> 4575

<211> 99

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4575

Leu Met Lys Leu Phe Arg Arg Ile Leu Arg Leu Trp Lys Arg Asp Ala
1 5 10 15

Met Glu Asn Ile His Arg Arg Tyr Glu Arg Leu Lys Lys Trp Lys His
20 25 30

Lys Lys Lys Arg Lys Ala Lys Leu Ile Ser Asn Arg Lys Tyr Leu Arg
35 40 45

Leu Phe Leu Val Leu Val Lys Val Ile Ala Met Trp Asn Met Arg Arg
50 55 60

Glu Val Arg Ala Leu Lys Lys Lys Tyr Cys Met Leu Glu Ala Ser Ala
65 70 75 80

Ser Leu Pro Ala Ile Lys Leu Lys Thr Thr Ala Arg Cys Gly Met Pro
85 90 95

Leu Val Lys

<210> 4576

<211> 58
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4576

Trp Leu Lys Ile Tyr Pro Lys Phe Leu Arg Lys Phe Lys Pro Ser Ala
 1 5 10 15

Arg Ala Arg Val Ala Lys Leu Phe Asn Lys Arg Leu Leu Glu Met Ile
 20 25 30

Arg His Lys Glu Lys Leu Gln Leu Pro Arg Ala Leu Lys Arg Arg Lys
 35 40 45

Phe Pro Ile Ser Leu Asp Leu Phe Tyr Arg
 50 55

<210> 4577
 <211> 79
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4577

Lys Leu Arg Leu Leu Lys Arg Met Leu Lys Arg Leu Lys Arg Leu Leu
 1 5 10 15

Gly Phe Pro Lys Asp Asn Ala Ala Ala Glu Arg Lys Val Phe Val Cys
 20 25 30

Ser Asp Lys Arg His Ala Arg Ser Leu Arg Met Lys Arg Ala Ala Lys
 35 40 45

Lys Met His Asn Lys Leu Glu Gly Ala Ala His Asp Thr Asp Cys Lys
 50 55 60

Cys Lys Leu Arg Trp Pro Gly Asp Phe Pro Lys Phe Lys Lys Leu
 65 70 75

<210> 4578
 <211> 49
 <212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4578

Arg Phe Arg Leu Met Ser Lys Leu Phe Lys Arg Leu Cys Lys Ser Arg
1 5 10 15

Leu Lys Leu Trp Lys Ala Gly Ala Asp Met Lys Lys Leu Leu Ile Gly
20 25 30

Ala Val Ala Phe Ala Arg Leu Arg Lys Arg Ala Lys Gln Leu Leu Ala
35 40 45

Ala

<210> 4579

<211> 49

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4579

Lys Leu Arg Leu Trp Gln Arg Tyr Phe Lys Arg Leu Gln Gln Leu Val
1 5 10 15

Val Ala Arg Leu Arg Leu Arg Lys Arg Met Leu Ile Val Leu Ala Pro
20 25 30

Ala Cys Ala Arg Ala His Lys Ala Ser Ala Cys Met Ala Met His Pro
35 40 45

Ile

<210> 4580

<211> 51

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4580

Arg Phe Lys Tyr Leu Lys Arg Met Leu Arg Leu Phe Cys Arg Leu Asn
 1 5 10 15

Ala Leu Gly Lys Cys Lys Ala Phe Asn Leu Phe Lys Arg Ala Tyr Ala
 20 25 30

Val Ala Ala Lys Arg Trp Lys Met Gly Pro Ala Asn Ala Leu His Gly
 35 40 45

Met Gln Ala
 50

<210> 4581
 <211> 37
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4581

Arg Leu Lys Trp Tyr His Arg Met Ile Arg Arg Ile Cys Lys Tyr Ala
 1 5 10 15

Thr Ala Asp Leu Glu Leu Leu Ala Lys Ala Ala Asp Ala Ile Met Val
 20 25 30

Pro Lys Ala Arg Ala
 35

<210> 4582
 <211> 61
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4582

Arg Phe Lys Trp Trp Lys Arg Trp Phe Lys Arg Leu Arg His Lys Leu
 1 5 10 15

Leu Lys Ala Asp Ala Val Cys His Pro His Ala Ala Tyr Lys Val Ala
 20 25 30

Arg Leu Leu Ala Cys Ser Leu Arg Arg Leu Ala Val Asp Val Lys Ala

35

40

45

Phe Ala Thr Val Ile Val Ser Lys Leu Ala His Lys Glu
 50 55 60

<210> 4583

<211> 69

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4583

Lys Leu Arg Leu Trp Lys Lys Met Leu Lys Tyr Phe Arg Pro Ser Leu
 1 5 10 15

His Ala Trp Arg Ala Phe Leu Lys Thr Arg Arg Arg Pro Ser Ala Ser
 20 25 30

Arg Arg Leu Leu Cys Arg Ala Gly Arg Ala Cys Pro Leu Leu Ile Lys
 35 40 45

Ser Ala Arg Leu Lys Cys Leu Cys Glu Lys Ala Ala Arg Ala Gln Thr
 50 55 60

Ala Arg Arg His Asn
 65

<210> 4584

<211> 46

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4584

Lys Trp Lys Leu Phe Arg Arg Leu Met Arg Lys Met His Lys Trp Phe
 1 5 10 15

Ala Gln Arg Gly Arg Gln Ala Val Ala Arg Gly Leu Arg Met Arg Lys
 20 25 30

Ala Ala Ala Ile Lys Pro Ala Leu Leu Leu Met His Cys Trp
 35 40 45

<210> 4585
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4585

Arg Tyr Arg Trp Tyr Gln Lys Ile Ile Lys Arg Phe Lys Lys Lys Leu
 1 5 10 15

Ser Ala Leu Ala Ile Leu Ala Lys Lys Ala Glu Val Phe Lys Leu His
 20 25 30

Leu

<210> 4586
 <211> 83
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4586

Trp Leu Lys Ile Ile Lys Lys Tyr Leu Arg Phe Met Gln Cys Pro Ala
 1 5 10 15

Ala Asp Leu Ala Thr Ala Arg Arg Arg Pro Lys Pro Asn Leu Ala Arg
 20 25 30

Leu Ile Ala Cys Leu Tyr Ile Asn Lys Tyr Arg Ala Arg Arg Phe Thr
 35 40 45

Lys Lys Ser Val Ala Ala His Leu Asn Lys Asn Arg His Lys Gly Gly
 50 55 60

Ala Met Lys Lys Glu Lys Ala Arg Lys Val Leu Leu Lys Gln Gly Lys
 65 70 75 80

Trp Gly Lys

<210> 4587

<211> 57
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4587

Lys Phe Lys Met Ile Gln Arg Leu Trp Lys Leu Leu Arg Asn Leu Gln
 1 5 10 15

Lys Thr Met Arg Leu Leu Ala Val Lys Tyr Gly Lys Arg Pro Leu Met
 20 25 30

Met Ala Ser Ala Glu Ala Leu Phe Ser Leu Leu Asp Lys Asp Val Arg
 35 40 45

Arg Arg Cys Ala Lys Tyr Arg His Arg
 50 55

<210> 4588
 <211> 78
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4588

Lys Ile Arg Leu Met Lys Lys Tyr Phe Lys Lys Met His Thr Gln Leu
 1 5 10 15

Gly Val Ile Glu Thr Lys Thr Ala His Gly Ala Thr Asp Lys Lys Tyr
 20 25 30

Leu Lys Lys Leu Met Lys Gly Arg Lys His Pro Ala Arg Arg Arg Cys
 35 40 45

Lys Ala Ile Leu Tyr Leu Leu Arg Pro His Leu Leu Leu Gly Leu Arg
 50 55 60

Leu Leu Arg Thr Met Ala Leu Lys Leu Arg Arg Leu Phe Gly
 65 70 75

<210> 4589
 <211> 22
 <212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4589

Trp	Tyr	Arg	Leu	Ile	Cys	Arg	Tyr	Phe	Lys	Phe	Leu	Lys	Arg	Ser	Gln
1				5					10					15	

Ala	Ala	Lys	Leu	Ala	Arg
			20		

<210> 4590

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4590

Phe	Phe	Lys	Trp	Leu	Thr	Lys	Leu	Ile	Lys	Lys	Ile	Lys	Arg	Lys	Gln
1				5					10					15	

Ala	Trp	Leu	Leu
			20

<210> 4591

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4591

Arg	Leu	Lys	Leu	Leu	Cys	Lys	Phe	Trp	Arg	Lys	Phe	Lys	Lys	Ala	Leu
1				5					10					15	

Val	Phe	Gly	His	Ala	Trp	Leu	Leu	Arg
			20					25

<210> 4592

<211> 55

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4592

Lys Ile Arg Trp Met Ser Arg Trp Phe Lys Phe Leu Lys Arg Leu Gln
 1 5 10 15

Lys Ala Arg His Ser Lys Leu Cys Ala Lys Ala Arg Arg Lys Leu Ile
 20 25 30

Asn Thr Arg Arg Leu Leu His Leu Lys Arg Ala His Tyr Leu Leu Arg
 35 40 45

Lys Leu Val Tyr Arg Leu Gln
 50 55

<210> 4593

<211> 97

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4593

Lys Met Lys Tyr Met Pro Lys Tyr Met Lys Arg Leu Ser Arg Gly Gly
 1 5 10 15

Glu Ile Thr Ala Ala Ala Ala Thr Gln Arg Leu Tyr Thr Ala Val Trp
 20 25 30

Lys Gly Lys Ile Ala Leu Arg Cys Arg Ala Tyr Lys Glu Asn Leu Val
 35 40 45

Met Phe Arg Lys Leu Asp Pro Ala Leu His Leu Lys Ala Pro Ala Ala
 50 55 60

Arg Arg Arg Phe Arg Arg Gly Ser Lys Arg Ala Pro Leu Lys Ala Asn
 65 70 75 80

Asp Leu Ala Asn Lys Gly Gln Ala Leu Ala Pro Leu Leu Leu Ala Arg
 85 90 95

Glu

<210> 4594

<211> 53
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4594

Lys Ile Lys Leu Leu Asn Arg Phe Leu Lys Lys Leu Arg Lys Leu Leu
 1 5 10 15

Lys Asn Val Asn Asp Glu Leu Ser Ala Ile Ile Leu Ala Ala Asn Glu
 20 25 30

Trp Ile Cys Phe Leu Lys Ala Ser Ser Lys Tyr Lys Ala Leu Ala Thr
 35 40 45

Lys Leu Thr Arg Leu
 50

<210> 4595
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4595

Arg Leu Arg Trp Phe Lys Lys Phe Leu Lys Phe Trp Thr Cys Arg Tyr
 1 5 10 15

Lys Arg Ala Leu Leu Pro Trp Ala Ala Phe Gln Leu Lys Arg Thr Met
 20 25 30

<210> 4596
 <211> 81
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4596

Lys Leu Lys Leu Tyr Lys Lys Trp Tyr Arg Arg Phe Pro Arg Asn Asn
 1 5 10 15

Thr Lys Tyr Gln Arg Ala Glu Ile Lys Gln Ala Ala Arg Val Trp Ala

20

25

30

Leu Lys Leu Lys Gln Ala Gly Ser Met Ala Pro Ala Glu Ser Arg Glu
 35 40 45

Leu Lys Trp Ala Leu Arg Asn Thr Glu Ala Arg Ala Arg His Trp Ala
 50 55 60

Tyr Ala Tyr Arg Leu His Met Ala Ala Leu Lys Glu Arg Ala Lys Ala
 65 70 75 80

Ala

<210> 4597

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4597

Leu Leu Lys Tyr Tyr Thr Lys Phe Leu Lys Lys Leu Pro Lys Glu Leu
 1 5 10 15

Cys Arg Ala Arg Trp Cys Glu Leu Ala Phe Ala Ala Phe Ser Arg Gly
 20 25 30

<210> 4598

<211> 67

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4598

Leu Phe Lys Phe Leu Arg Lys Leu Phe Arg Lys Leu His Arg His Met
 1 5 10 15

Ser Cys Ala Gly Cys Leu Ala Ile Gly Leu Arg Arg Gln Ala Val Trp
 20 25 30

Arg Lys Lys Ile Arg Asp Pro Ala Leu Lys Leu Arg Thr Arg Gln Val
 35 40 45

Tyr Pro Tyr Arg Glu Leu His Leu Ala Ala Ser Ala Lys Arg Gly Arg
 50 55 60

Lys Met Ala
 65

<210> 4599
 <211> 54
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4599

Met Met Arg Phe Leu Arg Arg Leu Leu Arg Arg Tyr Lys Thr Gly Asn
 1 5 10 15

Gln Gln Arg Val Leu Asp Lys Lys Val Lys Leu Ala Leu Ser Ile Leu
 20 25 30

Leu Arg Leu Trp Tyr Asp Ala Thr Thr Glu Trp Leu Ala Phe Arg Lys
 35 40 45

Lys Ala Ala Arg Leu Cys
 50

<210> 4600
 <211> 84
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4600

Arg Phe Arg Met Ile Asn Arg Trp Phe Lys Lys Phe Arg Arg Ala Lys
 1 5 10 15

Ala Val Lys Gly Lys Ala Leu Leu Lys Tyr Lys Leu Lys Leu Asp Leu
 20 25 30

Ala Arg Thr Gln Val Lys Ala Leu Ala Ala Gly Lys Ala Ala Gln Leu
 35 40 45

Trp Arg Arg Leu Lys Leu Lys Trp Pro Phe Glu Asp Lys Asp Gly Ala

50

55

60

Ser Val Glu Thr Gln Arg Asn Trp Lys Cys Gln Ala Leu Leu Ala Gln
 65 70 75 80

Gly Arg Lys Glu

<210> 4601

<211> 97

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4601

Lys Trp Lys Met Phe Arg Arg Leu Leu Lys Arg Phe Lys Arg Lys Asp
 1 5 10 15

Thr Leu Glu Arg Pro Arg Met Asn His Ala Lys Lys Lys Leu Arg Ala
 20 25 30

Cys Gly Arg Asn Val Lys Met Met Ala Lys Arg Ile Trp Ile Asp Ala
 35 40 45

Arg Ala Leu Leu Lys Ala Ser Ile Thr Leu Arg Ala Lys Asp Leu Met
 50 55 60

Gln Ala Arg Asp Lys Arg Ala His Val Cys Tyr Leu Met Phe Lys Pro
 65 70 75 80

Ala Cys Arg Lys Leu Ser Ala Ala Lys Trp Gln Ser Lys Lys Arg Ala
 85 90 95

Ala

<210> 4602

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4602

Arg Phe Arg Ile Leu Ser Lys Ile Tyr Arg Lys Leu Lys His Trp Arg
 1 5 10 15

Ala Arg Val Gln Ile Leu Leu Ala Phe Leu
 20 25

<210> 4603
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4603

Leu Leu Arg Trp Tyr Lys Arg Leu Phe Lys Phe Met Pro Arg Ala Lys
 1 5 10 15

Lys Ala Ala Thr Gly Arg Gln Leu Lys Arg Gly Leu Asp Ile
 20 25 30

<210> 4604
 <211> 67
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4604

Arg Phe Lys Phe Leu Lys Arg Phe Tyr Lys Lys Trp Arg Lys Arg Ala
 1 5 10 15

Val Gly Lys Trp Cys Leu Tyr Asp Arg Leu Lys Ala Tyr Ala Gly Glu
 20 25 30

Gly Lys Ala Tyr Ile Lys Val Ala Arg Asp Ala Ser Glu Trp Leu Leu
 35 40 45

Arg Ala Ala Ala Arg Leu Gln Asn Leu Cys Leu Leu Ala Ala Phe Asn
 50 55 60

Ala His Arg
 65

<210> 4605

<211> 44
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4605

Arg Ile Lys Leu Met Lys Arg Leu Phe Arg Lys Met Arg Asn Arg Leu
 1 5 10 15

Arg Met Leu Tyr Ala Lys Leu Pro Ala Pro Tyr Ala Pro Lys Arg Asp
 20 25 30

Cys Met Asn Lys Arg Arg Trp Ser Asp Leu Leu Ala
 35 40

<210> 4606
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4606

Tyr Leu Lys Leu Tyr Asn Lys Leu Leu Lys Leu Met Pro Arg Arg Lys
 1 5 10 15

Leu Ala Tyr Lys Cys Gln Gln
 20

<210> 4607
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4607

Leu Phe Arg Phe Leu Arg Arg Ile Leu Lys Lys Leu Lys Cys His Tyr
 1 5 10 15

Leu Phe Thr Gln
 20

<210> 4608

<211> 39
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4608

Trp Leu Arg Leu Tyr Pro Arg Leu Phe Arg Tyr Met Arg Lys Leu Lys
 1 5 10 15

Val Asn Leu Ala Leu Lys Val Gln Leu Ser Arg Leu Arg Thr Lys Lys
 20 25 30

Ala Lys Cys Arg Glu Ala Lys
 35

<210> 4609
 <211> 38
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4609

Lys Trp Arg Leu Leu Lys Arg Tyr Leu Lys Tyr Leu Lys Cys Leu Leu
 1 5 10 15

Leu Leu Thr Ser Glu Tyr Gln Cys Trp Lys Met Leu Pro Lys Arg Ala
 20 25 30

Leu Phe Cys Arg Tyr Gln
 35

<210> 4610
 <211> 81
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4610

Arg Leu Arg Trp Met His Lys Leu Leu Lys Arg Trp Lys Thr Cys Ala
 1 5 10 15

Ala Leu Asn Thr Ala Arg Leu Arg Phe Tyr His Leu Lys Val Ala Ala

Ser	Leu	Arg	Lys	Leu	Arg	Arg	Arg	Pro	Lys	Ile	Glu	Glu	Gly	Arg	Cys		
		35					40					45					
Pro	His	Ala	Leu	Leu	Asp	Ala	Arg	Lys	Arg	Asp	Gly	Glu	Lys	Ala	Ala		
	50					55					60						
Cys	Gln	Leu	Lys	Lys	Leu	Lys	Lys	Thr	Met	Asn	Val	Gln	His	Ala	Phe		
65					70					75					80		

Pro

<210>	4611
<211>	56
<212>	PRT
<213>	Artificial Sequence
<220>	
<223>	Computer-generated peptide variant
<400>	4611

Arg Tyr Arg Leu Tyr Lys Arg Ile Phe Arg Lys Ile Lys Ser Leu Gln
1 5 10 15

Leu Met Ala Lys Cys Lys Glu Arg Arg Leu Ala Pro Leu Pro Asn Tyr
20 25 30

Met Arg Ile Phe Leu Arg Pro Ala Arg Gly Leu Leu Leu Arg Phe Ala
35 40 45

Leu Lys Ala Leu Arg Leu Pro Glu
50 55

<210>	4612
<211>	40
<212>	PRT
<213>	Artificial Sequence
<220>	
<223>	Computer-generated peptide variant
<400>	4612

Met Trp Arg Tyr Met Thr Lys Tyr Phe Arg Arg Leu Ser Ser Arg Arg
1 5 10 15

His Lys Gly Gln Arg Ala Lys Arg Asp Asn Leu Gly Leu Glu Lys Tyr
 20 25 30

Leu Leu Lys Ala His Lys Leu Leu
 35 40

<210> 4613

<211> 50

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4613

Phe Leu Lys Met Phe Lys Lys Ile Leu Lys Lys Leu Cys Lys Leu Gln
 1 5 10 15

Tyr Arg Leu Ala Pro Thr Asp Ser Glu His Arg Lys Ala Ala Arg Pro
 20 25 30

Ile Gly Leu Lys Ile Tyr Lys Gly Glu Leu Ala Trp Leu Ala Ala Lys
 35 40 45

Lys Phe
 50

<210> 4614

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4614

Arg Leu Lys Leu Leu Arg Lys Phe Leu Arg Tyr Phe Ser Arg Leu Ser
 1 5 10 15

Pro Ala Ala Leu Arg Ser Thr Ser Leu His
 20 25

<210> 4615

<211> 38

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4615

Phe	Phe	Arg	Leu	Met	Lys	Arg	Met	Phe	Lys	Arg	Phe	Asn	Lys	Leu	Glu
1				5				10						15	

Ala	Trp	Lys	Pro	Asn	Ala	Lys	Lys	Phe	Trp	Arg	Ala	Cys	Leu	Ala	Met
			20					25					30		

Leu	Lys	Leu	Leu	Asn	Tyr
					35

<210> 4616

<211> 45

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4616

Arg	Met	Lys	Ile	Leu	Lys	Lys	Leu	Phe	Lys	Lys	Leu	Thr	His	Ala	Arg
1				5				10						15	

Lys	Leu	Leu	Leu	Lys	Arg	Glu	Tyr	Val	Leu	Leu	Leu	Trp	Gln	Arg	Thr
			20					25					30		

Leu	Pro	Arg	Lys	Tyr	Ala	Gln	Tyr	Met	Leu	Phe	Ala	Glu
			35				40					45

<210> 4617

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4617

Phe	Leu	Arg	Phe	Ile	Lys	Lys	Trp	Leu	Arg	Arg	Leu	Pro	Lys	Leu	Leu
1				5				10						15	

Ala	Trp	Asp	Arg	Lys	Pro	Gly	Glu
							20

<210> 4618

<211> 59
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4618

Lys Tyr Lys Trp Trp Thr Arg Trp Ile Arg Lys Leu Lys Asn Tyr Lys
 1 5 10 15

Met Ala Arg Thr Gln Ala Ile Thr Phe Tyr Leu Cys Tyr Leu Val Arg
 20 25 30

Lys Ala Trp Thr Ala Leu Ala Leu Lys Leu Val Lys Ala Lys Leu Cys
 35 40 45

Leu Ala Arg Thr Arg His Glu Arg Lys Ala Val
 50 55

<210> 4619
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4619

Phe Leu Arg Phe Leu Arg Arg Leu Phe Lys Met Met Asn Arg Arg Ala
 1 5 10 15

Gln Tyr Leu Leu Ala Trp Cys Leu Arg
 20 25

<210> 4620
 <211> 95
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4620

Lys Tyr Arg Leu Leu Thr Arg Ile Met Lys Arg Ile Lys Arg Trp Arg
 1 5 10 15

Arg Leu Gln Ala Thr Lys Cys Leu Gly Leu Lys His Lys Arg Arg His

20

25

30

Arg Gln Ala Lys Leu Lys Ala Ile Trp Val Ile Pro Tyr Ala Gln Arg
 35 40 45

Pro Asp Glu Ile Arg Thr Thr Cys Leu Ala Ala Arg Leu Ala Phe Ile
 50 55 60

Ala Lys Lys Lys Leu Arg Ser Ala Asn Ala Arg Cys Arg Leu Arg Ala
 65 70 75 80

Glu His Leu Lys Gly Ser Lys Ala His Arg His Val Asn Arg Phe
 85 90 95

<210> 4621

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4621

Met Tyr Lys Ile Leu Gln Lys Trp Ile Lys Phe Ile Arg Arg Gln Val
 1 5 10 15

Arg Leu Ala Glu Leu Val Leu Lys Arg Arg Leu Leu Gly
 20 25

<210> 4622

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4622

Lys Leu Lys Trp Leu Pro Lys Leu Met Lys Arg Met Arg Lys Leu Ser
 1 5 10 15

His Gln Gln Tyr Ala Ala Ser Ala His Arg Lys Phe Leu Leu Leu Arg
 20 25 30

Lys Phe

<210> 4623
 <211> 75
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4623

Phe Phe Lys Phe Phe Lys Arg Leu Leu Lys Lys Trp His Lys Val Arg
 1 5 10 15

Arg Ala Phe Val Asp Ala Leu Leu Phe Leu Ser Ile Met Tyr Leu Arg
 20 25 30

Asp Glu Asn Lys Arg Lys Leu Arg Lys Met Lys Met Lys Ala Arg Ala
 35 40 45

Asp Ala Phe Gly Lys Lys Arg Leu Glu Ala Arg Leu Leu Asn Lys Ser
 50 55 60

Glu Ala Arg Leu Arg Gly Ala Ser Gly Phe Leu
 65 70 75

<210> 4624
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4624

Met Ile Lys Trp Ile Lys Lys Leu Ile Lys Arg Leu Lys Ser Cys Leu
 1 5 10 15

Ala Arg Val Leu Arg Ser Arg Ala Ala
 20 25

<210> 4625
 <211> 63
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4625

Arg Trp Lys Leu Trp Arg Arg Met Phe Arg Phe Trp Thr Arg Arg Pro
 1 5 10 15

Thr Lys Met Ala Leu Cys Ala Arg Ala Gly Lys Cys Leu Phe Arg Phe
 20 25 30

Leu Ile Leu Pro His Ala Leu Arg Asn Arg Gln Arg His Leu Val Val
 35 40 45

Leu Ala Ala Gln Tyr Val Thr Ala Lys Arg Leu Gln Ala Leu Lys
 50 55 60

<210> 4626

<211> 41

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4626

Trp Leu Lys Tyr Phe His Arg Tyr Phe Lys Lys Leu Lys Lys Ala Glu
 1 5 10 15

Leu Tyr Ala Ser Arg Met Cys Ser Ala Ala Arg Ala Lys Lys Ser Ala
 20 25 30

Ala Ala Cys Lys Arg Arg Lys Met Arg
 35 40

<210> 4627

<211> 84

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4627

Lys Tyr Arg Phe Ile Arg Arg Leu Leu Arg Arg Leu Asn Asn Leu Gly
 1 5 10 15

Asp Lys Leu Ala Gln Gly Lys His Trp Lys Arg Lys Leu Lys Lys Ala
 20 25 30

Leu Val Thr Thr Val Cys Cys Asp Phe Gln Leu Arg Val Thr Ala Leu

35

40

45

Arg Leu Ser Arg Ala Cys Ala Arg Arg Ala Lys Ala Ile Ala Ala Thr
 50 55 60

Val Lys Ser Lys Leu Arg Val Thr Lys Glu Ser His Arg Asp Arg Lys
 65 70 75 80

Lys Cys Leu Leu

<210> 4628

<211> 37

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4628

Tyr Leu Lys Leu Phe Ser Lys Leu Ile Lys Ile Leu Lys Thr Ala Lys
 1 5 10 15

Gly Lys Ile Lys Lys Arg Phe Pro Ala Ala Val Arg Val Lys Leu His
 20 25 30

Pro Pro Ala Leu Arg
 35

<210> 4629

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4629

Ile Met Lys Leu Met Gln Arg Leu Met Arg Lys Tyr Arg Arg Met Asn
 1 5 10 15

Leu Trp Ala Leu Arg Arg Cys Ala Lys Ile Met Leu Phe
 20 25

<210> 4630

<211> 44

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4630

Arg Leu Lys Met Ile Lys Arg Tyr Tyr Lys Arg Phe Arg Gln Ala Lys
1 5 10 15

Arg His Ser Ala Arg Lys Leu Arg Leu Phe Leu Ile Trp Trp Leu Ala
20 25 30

Arg Ser Ala Asn Pro Ala Ala Ala Leu Pro Cys Asp
35 40

<210> 4631

<211> 82

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4631

Leu Phe Lys Phe Tyr Thr Arg Leu Leu Arg Leu Tyr Gln Thr Asp Lys
1 5 10 15

Arg Gln Pro Ala Phe Leu His Glu Leu Lys Leu Ile Arg Met Glu Ala
20 25 30

Arg Lys Tyr Ala Leu Arg Phe Pro Trp Arg Cys Trp Val Arg Ala Lys
35 40 45

Lys His Ala Lys Arg Leu Asp Arg Pro Ala Leu Met Arg Ala Cys Asp
50 55 60

Leu Ala Tyr Leu Val Leu Trp Gly Arg Glu Lys Lys Lys Lys Glu Arg
65 70 75 80

Leu Lys

<210> 4632

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4632

Arg	Leu	Lys	Leu	Leu	Cys	Lys	Trp	Met	Arg	Lys	Leu	Arg	Lys	Gln	Ala
1				5				10						15	

Ala	Ala	Trp	Leu	Val	Gly	Pro	Glu
			20				

<210> 4633

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4633

Leu	Met	Arg	Leu	Tyr	Lys	Arg	Leu	Leu	Arg	Leu	Met	Cys	Lys	Glu	Asp
1				5				10						15	

Ile	Lys	Tyr	Lys	Ala	Ala	Ala	Ala	Arg	Met	Asn	Phe	Leu	Lys	Glu	Ala
			20					25					30		

Arg

<210> 4634

<211> 55

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4634

Lys	Leu	Arg	Phe	Phe	Lys	Lys	Ile	Trp	Arg	Arg	Ile	Lys	Lys	Lys	Lys
1				5				10						15	

Ala	Arg	Leu	Leu	Ala	Trp	Ala	Trp	Gly	Leu	Ala	Lys	Ala	Asn	Arg	Cys
			20					25					30		

Arg	Ser	Thr	His	Leu	Arg	Lys	Asn	Ser	Gln	Tyr	Trp	Ala	Ala	Arg	Leu
			35				40					45			

Lys Trp Arg Phe Pro Thr Ala

50

55

<210> 4635
 <211> 41
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4635

Lys Trp Lys Met Leu Lys Lys Phe Leu Lys Arg Leu Cys Thr Arg Ile
 1 5 10 15

Asp Lys Leu Ala Ala Pro Tyr His Pro Arg Gln Arg Ala Asp Arg Arg
 20 25 30

Asp Met Leu Gln Leu Phe Cys Ala Leu
 35 40

<210> 4636
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4636

Phe Leu Lys Leu Phe Arg Arg Leu Leu Lys Trp Phe Lys Arg Gln Ala
 1 5 10 15

Glu Leu Ser Asp Trp Ala Leu
 20

<210> 4637
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4637

Lys Tyr Arg Leu Tyr Arg Arg Leu Tyr Arg Trp Tyr Cys Thr Lys Leu
 1 5 10 15

Lys Met Lys His Gln Leu Lys Gly Asn Val Leu Leu Leu Leu Asn Arg

20

25

30

Glu Ala

<210> 4638

<211> 58

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4638

Arg	Phe	Arg	Trp	Phe	Asn	Arg	Phe	Leu	Lys	Tyr	Phe	Thr	Lys	Asp	Leu
1				5					10					15	

Ala	Ala	Arg	Leu	Asp	Gln	Arg	Ala	Lys	Cys	Ala	Lys	Met	Arg	Leu	Lys
			20					25					30		

Arg	Gln	Ile	Lys	Val	Asn	Ala	Ile	Asp	Thr	Ala	Ala	Leu	Ala	Val	His
		35					40					45			

Arg	Cys	Gln	Ala	Ser	Leu	Lys	Lys	Leu	Leu
	50					55			

<210> 4639

<211> 31

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4639

Leu	Leu	Arg	Met	Tyr	Lys	Lys	Met	Phe	Arg	Arg	Ile	Lys	Cys	Lys	Leu
1				5				10					15		

Ala	Ala	Lys	Leu	Ala	Glu	Tyr	Arg	Gln	Gly	Gly	Phe	Arg	Ala	Lys
			20					25					30	

<210> 4640

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4640

Lys Tyr Arg Leu Trp Lys Lys Leu Trp Arg Leu Ile Pro Asn Gln Asn
1 5 10 15

Ala Ala Ser Arg Gln Thr Leu Leu Ala Pro Lys
20 25

<210> 4641

<211> 68

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4641

Leu Leu Lys Phe Leu Arg Lys Tyr Leu Lys Leu Phe Lys Arg Met Lys
1 5 10 15

Leu Leu Lys Ala Arg Trp Leu Phe Arg Asp Leu Ala Trp Tyr Ala Leu
20 25 30

Leu Phe His Gln Pro Leu Ile Ala Arg Ala Tyr Lys Lys Lys Arg Arg
35 40 45

Val Ala Ala Gln Lys Met Ile Trp Tyr Ser Gly Ile Lys Ile Lys Ser
50 55 60

Lys Gln Gly Ser
65

<210> 4642

<211> 73

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4642

Lys Leu Lys Met Leu Lys Lys Ile Ile Arg Phe Tyr His Arg Asn Pro
1 5 10 15

Lys Arg Val Leu Ala His Lys Arg Ala Asp Pro Leu Leu Tyr Asp Cys
20 25 30

Ala Val Ala Glu Leu Asp Met Ala Ser Leu Thr Tyr Ala Ala Ala Arg
 35 40 45

Ala Lys Arg Leu Asp Trp Leu Met Ala Arg Trp Ile Arg Arg Ala Lys
 50 55 60

Ala Gln Cys Lys Gly Lys Gly Arg Leu
 65 70

<210> 4643
 <211> 38
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4643

Arg Trp Arg Ile Leu Lys Lys Phe Leu Lys Trp Ile Lys His Pro Gly
 1 5 10 15

Ala Trp Lys Ile Gly Arg Leu Leu Arg Leu Arg Ser Leu Arg Thr Pro
 20 25 30

Leu Thr Gln Lys Ala Met
 35

<210> 4644
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4644

Lys Ile Arg Phe Met Arg Arg Tyr Leu Arg Leu Leu Ser Arg Leu Ala
 1 5 10 15

Lys Tyr Lys Trp Phe Leu Ala Thr Asn Met Tyr Asp Lys Pro Leu Arg
 20 25 30

<210> 4645
 <211> 47
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4645

Arg	Leu	Lys	Leu	Phe	Asn	Arg	Ile	Leu	Arg	Arg	Trp	Ser	Thr	Ser	Lys
1				5				10						15	

Lys	Lys	Lys	Asn	Glu	Arg	Pro	Cys	Arg	Trp	Trp	Leu	Lys	Leu	Cys	Asn
			20					25					30		

Val	Arg	Gly	Leu	Asn	Glu	Lys	Leu	Leu	Ala	Ala	Asp	Pro	Ala	Leu
		35					40					45		

<210> 4646

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4646

Arg	Phe	Arg	Ile	Met	Pro	Lys	Leu	Leu	Arg	Leu	Leu	Pro	Thr	His	Glu
1				5				10						15	

Ala	Arg	Pro	Gln	Leu	Lys	Trp	Arg	Leu	Leu	Trp	Leu
			20					25			

<210> 4647

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4647

Phe	Leu	Arg	Trp	Phe	Thr	Arg	Trp	Ile	Lys	Arg	Leu	Arg	Pro	Arg	Leu
1				5				10						15	

Thr	Met	Trp	Gln	Ala	Lys	Leu	Tyr	Leu	Arg	Ala
			20					25		

<210> 4648

<211> 87

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4648

Lys	Leu	Lys	Leu	Leu	Pro	Arg	Leu	Leu	Lys	Leu	Leu	Thr	His	His	Val
1				5					10					15	

Leu	Val	Lys	Arg	Arg	Val	Arg	Arg	Leu	Glu	Pro	Pro	Leu	Arg	Lys	Lys
			20					25					30		

Ala	Met	Cys	Met	Ala	His	Phe	Lys	Asn	Ala	Ala	Thr	Leu	Lys	Leu	Arg
		35					40					45			

Phe	Pro	Ala	Leu	Lys	Glu	Phe	Leu	Ser	Leu	Phe	His	Lys	Arg	Met	Arg
	50					55					60				

Ala	Ala	Cys	Leu	Ala	Tyr	Ala	Asp	Met	Leu	Ile	Ala	Cys	Asp	Tyr	Lys
65					70					75					80

Cys	Glu	Trp	Tyr	Arg	Gln	Ala
					85	

<210> 4649

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4649

Arg	Ile	Arg	Ile	Ile	Arg	Lys	Leu	Phe	Lys	Arg	Leu	Pro	Pro	Ala	Ala
1				5					10					15	

Lys	Arg	Ile	Leu	Ala	Lys	Asp	Ala	Tyr	Lys	Trp	Leu	Thr	Gly	Leu	Ala
			20					25					30		

Tyr	Leu	Asp	Gln
		35	

<210> 4650

<211> 42

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4650

Arg Tyr Arg Phe Trp Lys Arg Tyr Leu Lys Phe Phe Lys Lys Val Val
1 5 10 15

Asn Phe Glu Thr Lys Ala Leu Tyr Ser Lys Ala Gly Leu Arg Leu Asp
20 25 30

Leu Leu Arg Leu Arg Lys Gln Gln Leu Arg
35 40

<210> 4651

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4651

Leu Leu Arg Tyr Leu Arg Arg Phe Leu Arg Arg Phe Arg Arg Ile Cys
1 5 10 15

Ala Asn Leu Thr Lys Cys
20

<210> 4652

<211> 53

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4652

Lys Leu Lys Met Tyr Pro Lys Phe Phe Lys Lys Trp Lys Arg Asp Ala
1 5 10 15

Gly Lys Ala Cys Glu Tyr Arg Leu Val Phe Leu Arg His Leu Leu Leu
20 25 30

Lys Leu Gln Lys Arg Glu Ile Arg Lys Thr Ile Ala Leu Arg Leu Ala
35 40 45

Arg Gly Asn Phe Gly
50

<210> 4653
 <211> 27
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4653

Lys Ile Arg Tyr Leu Ser Lys Leu Leu Lys Arg Leu Pro Arg Asp His
 1 5 10 15

Phe Ser Phe Leu Leu Gln Ser Ala Leu Lys Leu
 20 25

<210> 4654
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4654

Arg Tyr Arg Leu Phe Lys Lys Tyr Tyr Lys Leu Ile Arg Arg Ala Cys
 1 5 10 15

Leu Ala Thr Ala Lys Gln
 20

<210> 4655
 <211> 60
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4655

Lys Phe Lys Trp Leu Cys Arg Tyr Trp Arg Leu Leu Cys Arg Asp Ala
 1 5 10 15

Ala Ala Met Arg Leu Gly Val Ser Lys Tyr Asp Leu Ala Thr Arg Arg
 20 25 30

Lys Lys Gln Tyr Leu Leu Gln Leu Lys Lys Lys Val Trp Pro Ala Arg
 35 40 45

Leu Met Leu Leu Asp Ile Lys Gly Arg Tyr Ala Gly
 50 55 60

<210> 4656
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4656

Arg Trp Lys Ile Phe Asn Lys Phe Ile Arg Leu Tyr Lys Arg Ala Val
 1 5 10 15

Ala Arg Leu Arg Leu Glu Leu Leu Leu Arg Thr Thr Ile Ile
 20 25 30

<210> 4657
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4657

Lys Tyr Lys Ile Leu Cys Lys Ile Tyr Arg Lys Leu Arg Lys Lys Ala
 1 5 10 15

Lys Ile Leu Ala Met Ala Ala Arg Ala
 20 25

<210> 4658
 <211> 47
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4658

Arg Tyr Arg Leu Leu Arg Lys Met Leu Arg Lys Met Arg Gln Cys Pro
 1 5 10 15

Arg Asn Ala Phe Ser Val Pro Glu Ala Cys Gln Arg Lys Ala Thr Leu
 20 25 30

Met Ala Arg Leu Lys Lys Pro Leu Asn Ala Lys Pro Leu Cys Ser
 35 40 45

<210> 4659
 <211> 43
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4659

Phe Phe Arg Trp Ile Arg Lys Leu Leu Lys Met Leu Arg Arg Cys Arg
 1 5 10 15

Ala Lys Ala Phe Asp Leu Arg Lys Cys Asp Ala Met Ala Ile Ile Leu
 20 25 30

Asn Cys Lys Gly Arg Ile Leu Leu Asn Leu Ile
 35 40

<210> 4660
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4660

Phe Leu Lys Tyr Leu Arg Lys Tyr Leu Lys Arg Tyr Pro His Pro Lys
 1 5 10 15

Val Val Asn Leu Arg Trp Gln Leu Arg Thr Leu Leu Arg Leu Lys Ser
 20 25 30

Arg

<210> 4661
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4661

Lys Leu Arg Leu Ile Thr Lys Leu Phe Lys Arg Leu Thr Asn Asn Lys
 1 5 10 15

Lys Leu Arg Leu Ala Ala Pro Arg Ala Ala Trp Ile Arg Cys Asp Met
 20 25 30

Arg

<210> 4662
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4662

Met Leu Arg Leu Leu Asn Arg Phe Met Lys Phe Leu Ser Lys Lys Leu
 1 5 10 15

Ala Gly Ser Asn Lys Leu Ser
 20

<210> 4663
 <211> 27
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4663

Leu Trp Lys Leu Leu Pro Arg Met Leu Arg Lys Phe His His Thr Ala
 1 5 10 15

Lys Lys Ala Lys Met Asp Cys Leu Arg Ala Ala
 20 25

<210> 4664
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4664

Ile Trp Lys Leu Leu Asn Lys Leu Leu Arg Lys Phe Asn Arg Pro Arg
 1 5 10 15

Leu Ala Ala Arg Gln Val His
 20

<210> 4665

<211> 59

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4665

Lys Ile Arg Phe Ile Arg Lys Trp Ile Lys Phe Met Arg Cys Arg Ala
 1 5 10 15

Cys Ala Asp Leu Cys Ala Val Ile Ala Pro Val Ala Gln Lys Lys Tyr
 20 25 30

Lys Arg Leu Lys Ala Arg Glu Trp Leu Arg Leu Pro Lys Tyr Ala Arg
 35 40 45

Leu Arg Leu Asn Asn Arg Asp Ala Glu Cys Arg
 50 55

<210> 4666

<211> 45

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4666

Arg Phe Arg Leu Tyr Arg Lys Met Leu Lys Lys Phe Gln Cys Phe Ala
 1 5 10 15

Arg Val Ser Asp Ala Ser Gly Ala Arg Leu Lys Asn Arg Asn Ile Lys
 20 25 30

Leu Gln Thr Arg Leu Lys Lys Ala Pro Leu Arg Phe Leu
 35 40 45

<210> 4667

<211> 76
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4667

Phe Leu Lys Leu Leu Arg Arg Tyr Leu Lys Arg Leu Arg Lys Asp Ala
 1 5 10 15

Arg Pro Arg Gly Pro Asn Gly Gly Phe Arg Leu Leu His Ile Lys Lys
 20 25 30

Cys Arg Ala Ala Ala Leu Trp His Trp Ser Gly Cys Ser Lys Arg Arg
 35 40 45

Lys Asn Val Lys Leu Lys Ala Val Met Arg Lys Ala Val Ala Leu Arg
 50 55 60

Phe Cys Leu His Cys Tyr Asn Phe Pro Ala Arg Ala
 65 70 75

<210> 4668
 <211> 37
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4668

Arg Leu Arg Met Leu Lys Lys Leu Trp Lys Trp Leu Arg Lys Glu Tyr
 1 5 10 15

Lys Ala Asn Leu Arg Ser Pro Ala Gly Leu Tyr Lys Lys Lys His Val
 20 25 30

Ala Glu Tyr Ala Phe
 35

<210> 4669
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4669

Met Phe Arg Leu Leu Lys Arg Tyr Leu Lys Phe Tyr Asn His Lys Ile
1 5 10 15

Ala Ala His Lys Arg Arg Leu Asn Lys Ala Leu Asn Lys Lys Asn Arg
20 25 30

Ala Asn

<210> 4670

<211> 31

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4670

Leu Met Arg Phe Ile Ser Lys Leu Leu Arg Trp Leu Arg Lys Lys Glu
1 5 10 15

Glu Ile Arg Gln Asn Leu Arg Lys Leu Tyr Arg Ala Ala Met Ala
20 25 30

<210> 4671

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4671

Lys Leu Arg Trp Leu Arg Arg Trp Leu Arg Arg Leu Arg Gln Trp Arg
1 5 10 15

Leu Leu Trp Ala Ile Lys Asp Glu Lys Gly Gln Ala
20 25

<210> 4672

<211> 75

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4672

Arg Leu Lys Ile Leu His Arg Met Met Arg Trp Phe Arg Lys Pro Ile
 1 5 10 15

Lys Tyr Thr Arg Arg Phe Leu Leu Ala Arg Leu Asp Met Asn Ile Ala
 20 25 30

Asn Arg Arg Pro Arg Gln Leu Arg Ala Ala Leu Lys Glu Leu Lys Arg
 35 40 45

Leu Ser Leu Pro Arg Ser Cys Arg Lys Thr Gly Lys Ala Thr Thr Cys
 50 55 60

Arg Gln Leu Thr Lys Ala Glu Lys Leu Arg Cys
 65 70 75

<210> 4673

<211> 88

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4673

Arg Leu Arg Leu Phe Lys Lys Phe Phe Lys Lys Phe Cys Arg Arg Ile
 1 5 10 15

Leu Ala Tyr Ser Met Arg Lys Leu Trp Thr Lys Cys Trp Arg Phe Phe
 20 25 30

Glu Ala Asn Trp Ile Arg Lys Leu Lys His Ala Val Tyr Arg Ala Pro
 35 40 45

Arg Ala Glu Pro Leu Ala Ser Ile Lys Arg Trp Asn Thr Tyr Ala Trp
 50 55 60

Ala Ser Lys Arg Cys Lys Thr Leu Lys Asn Ala Lys Ala Ala Lys Phe
 65 70 75 80

Glu Arg Trp Lys Leu Ala Ala Lys
 85

<210> 4674

<211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4674

Arg Phe Lys Trp Met Lys Arg Tyr Phe Arg Trp Leu Cys Arg Leu Pro
 1 5 10 15

Ala Glu Ala Leu
 20

<210> 4675
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4675

Leu Leu Lys Phe Leu Arg Lys Ile Leu Arg Arg Phe Lys Ser Leu Leu
 1 5 10 15

Asn His Arg Arg Tyr Met
 20

<210> 4676
 <211> 69
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4676

Arg Phe Lys Met Trp Arg Arg Leu Trp Lys Lys Leu Lys His Leu Ala
 1 5 10 15

Asn Ala Lys Lys Gly Arg Leu Gly Ala Lys Arg Lys Val Ala Leu Arg
 20 25 30

Trp Glu Lys Lys Arg Arg Gly Gln Asp Ala Tyr Lys Ile Tyr Ala Leu
 35 40 45

Thr Cys Leu Ala His Thr Asp Ile Asn Ala Trp Glu Gly Leu His Arg

50

55

60

Ile Ala Lys Ile Ile
65

<210> 4677
<211> 43
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 4677

Tyr Ile Lys Tyr Leu Lys Arg Tyr Trp Arg Lys Leu Lys Lys Leu Lys
1 5 10 15

Gln Pro Leu Asp Met Glu Arg Arg Ser Cys Lys His Asp His Leu Leu
20 25 30

Tyr Leu Ile His Lys Arg Leu Leu Lys Gln Ala
35 40

<210> 4678
<211> 44
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 4678

Lys Leu Lys Ile Met Pro Lys Leu Ile Arg Leu Phe Arg Arg Lys Gly
1 5 10 15

Ala Met Lys Leu Gln Asp Trp Thr Asp Leu Leu Gln Tyr Val Lys Leu
20 25 30

Lys Asn Tyr Leu Cys Ala Arg Ala Gly Ala Leu Lys
35 40

<210> 4679
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 4679

Leu Phe Arg Leu Trp Ser Lys Leu Trp Lys Trp Leu Ser Gln Arg Lys
1 5 10 15

Leu Ala Phe Gln
20

<210> 4680

<211> 80

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4680

Phe Trp Lys Ile Phe His Lys Leu Trp Lys Lys Leu Arg Lys Val Arg
1 5 10 15

Glu Phe Ala Arg Glu Leu Arg Phe Leu Asn Asp Asn Tyr Ala Lys Arg
20 25 30

Asn Glu Ala Ala Leu Pro Arg Pro Leu Asn Thr Pro Lys Asn Arg Phe
35 40 45

Arg His Tyr Thr Trp Arg Leu Ala Ala Lys Ala Lys Gln Met Ala Phe
50 55 60

Leu Leu Leu Val Lys Arg Leu Ser Arg Leu Cys Ala Arg Ala Ala Arg
65 70 75 80

<210> 4681

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4681

Ile Met Arg Trp Leu Asn Arg Leu Tyr Arg Leu Met Arg Arg Leu Arg
1 5 10 15

Arg Thr Asp Ala Asn Ile Val Thr His Gly Ala Arg Arg Ala Lys Arg
20 25 30

Ala Ala

<210> 4682
 <211> 55
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4682

Arg Tyr Arg Ile Leu Gln Arg Phe Trp Arg Arg Leu Lys Lys Asn Arg
 1 5 10 15

Ala Ala Ser Gly Asp Ala Ile Ala Ala His Met Ala Gly Arg Glu Gln
 20 25 30

Arg Leu Arg Met His Val Pro Phe Ala Tyr Lys Leu Val Leu Lys Ala
 35 40 45

Leu Arg Leu Pro Lys Lys Arg
 50 55

<210> 4683
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4683

Arg Phe Lys Ile Met Thr Lys Leu Phe Arg Leu Leu Arg Lys Lys Leu
 1 5 10 15

Val Ala Ser Phe Phe Ala His
 20

<210> 4684
 <211> 26
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4684

Leu Met Lys Leu Ile Arg Arg Leu Ile Arg Leu Phe His Cys Asn Met
 1 5 10 15

Asp Leu Lys Ala Lys Lys Glu Ala Leu Lys
 20 25

<210> 4685
 <211> 37
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4685

Phe Leu Arg Ile Leu Arg Lys Phe Met Lys Lys Trp Cys Thr Arg Asn
 1 5 10 15

Ile Lys Lys Cys Leu Lys Ala Tyr Cys Gly Leu Arg Ser Leu Ala Arg
 20 25 30

Ala His Leu Leu Ile
 35

<210> 4686
 <211> 41
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4686

Phe Phe Lys Met Trp Lys Lys Phe Phe Arg Leu Phe Lys Arg Ile Ala
 1 5 10 15

Leu Ala Lys Asn Gly Ser Arg Ala Leu Ala Lys Leu Leu Arg Ala Tyr
 20 25 30

Ile Arg Arg Ser Ala Ala Ala Thr Val
 35 40

<210> 4687
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4687

Trp Leu Lys Leu Phe Asn Arg Leu Leu Arg Arg Phe Ser Lys Lys Ala
 1 5 10 15

Arg Arg Ala Leu Leu Cys Asn Ala Met Ala Ala Arg Lys Asp Arg Ala
 20 25 30

Gly

<210> 4688

<211> 47

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4688

Leu Met Lys Leu Phe Arg Arg Phe Trp Arg Ile Ile Gln Arg Arg Arg
 1 5 10 15

Ala Arg Leu Thr Lys Arg Ser Ala Asn Ala Ser Leu Thr Ile Lys Leu
 20 25 30

Tyr Lys Ala Met Gln Ala Arg Trp Arg Trp Ala Leu Asn Asp Ile
 35 40 45

<210> 4689

<211> 54

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4689

Arg Leu Lys Trp Phe Cys Arg Phe Trp Lys Phe Trp Arg Arg Arg Val
 1 5 10 15

Lys Asn Lys Leu Leu Pro Ala Leu Ala Tyr Arg Ser Leu Asp Lys Ala
 20 25 30

Lys Leu Lys His Ala His Lys Leu Leu Tyr Asn Asp Lys Ala Lys Pro

35

40

45

Leu Arg Glu Lys Lys Glu
50

<210> 4690

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4690

Phe Phe Arg Tyr Phe Arg Arg Tyr Leu Lys Arg Phe Arg His Leu Lys
1 5 10 15

Ile Asn Glu Arg Phe Leu Arg Ala Leu Ala Cys Ala Asn Arg
20 25 30

<210> 4691

<211> 80

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4691

Phe Met Lys Tyr Leu Lys Lys Trp Trp Arg Leu Tyr Thr Cys Lys Leu
1 5 10 15

His Asp Lys Gln Lys Tyr Lys Met Ala Arg Ile Val Arg Tyr Gly Pro
20 25 30

Asn Lys Lys Leu Leu Arg Ala Asp Thr Lys Tyr Phe Lys Gln Arg Leu
35 40 45

Lys Lys Lys Gln Ala Arg Ala Ala Ala Asp His Ala Lys Thr Pro Arg
50 55 60

Glu Leu Lys Ile Glu Met Lys Leu Lys Leu Ala Met Arg Leu Ala Val
65 70 75 80

<210> 4692

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4692

Ile Leu Arg Ile Met Arg Arg Ile Leu Lys Arg Met Thr Pro Ala Cys
1 5 10 15

Ala Glu Ala Lys Asn Ala Lys Ala Ala Arg Leu Ala Gln Arg Ala Thr
20 25 30

Lys Trp

<210> 4693

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4693

Phe Phe Arg Leu Leu Arg Arg Leu Leu Lys Lys Phe Ser Lys Cys Ala
1 5 10 15

Leu Phe Trp Gln Trp Arg Arg Leu Lys Asp Leu Arg Ala Ser
20 25 30

<210> 4694

<211> 82

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4694

Arg Phe Lys Trp Phe Lys Arg Leu Ile Lys Phe Tyr Lys Ser Gln Ala
1 5 10 15

Trp Gln Lys Gln Arg Trp Lys Ala Leu Leu Ala His Ala Arg Lys Trp
20 25 30

Ala Lys Asp Arg Leu Ala Leu Leu Arg His His Leu Asp Ala Lys Met
35 40 45

Ser Thr Val Gly Arg Leu Lys Asp Lys Leu Met Leu Lys Met Met Leu
 50 55 60

Gln Leu Leu Arg Ala Arg Trp Glu His Leu Glu Trp Leu Ala Ala Leu
 65 70 75 80

Lys Arg

<210> 4695
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4695

Lys Trp Lys Leu Trp Arg Arg Phe Ile Lys Arg Leu Cys Arg Met Ala
 1 5 10 15

Ala Arg Asn Phe Asn Arg Ala Ala Ala Pro Gln Glu Phe Lys Lys Ala
 20 25 30

<210> 4696
 <211> 47
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4696

Leu Leu Arg Leu Tyr His Lys Ile Tyr Arg Met Leu Asn Thr Leu Leu
 1 5 10 15

Ala Ala Lys Asp Val Tyr Leu Thr Lys Trp Ala Glu Trp Arg Phe Leu
 20 25 30

Leu Asp Ala Lys His Lys Lys Gly Ala Asn Trp Ser Lys Ala Arg
 35 40 45

<210> 4697
 <211> 31
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4697

Trp	Tyr	Lys	Leu	Leu	Lys	Arg	Tyr	Leu	Lys	Lys	Phe	Arg	Arg	Ala	Arg
1				5					10					15	

Ala	Glu	Met	Ser	Arg	Lys	Leu	Ala	Ala	Met	Glu	Asn	Asn	Pro	Leu
			20				25						30	

<210> 4698

<211> 64

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4698

Met	Tyr	Lys	Phe	Leu	His	Arg	Phe	Leu	Lys	Lys	Leu	Arg	His	Ala	Gly
1				5					10					15	

Ala	Tyr	Arg	Leu	Arg	Gly	Ala	Arg	Leu	Ser	Ser	Lys	Leu	Leu	Pro	Ala
			20					25					30		

Arg	Lys	Arg	Ala	Ala	Arg	Tyr	Lys	Val	Asp	Thr	Arg	Ala	Glu	Arg	Trp
			35				40					45			

Trp	Val	Leu	Asp	Ile	Gln	Arg	His	Leu	Leu	Arg	Phe	Val	Leu	Ser	Pro
	50					55					60				

<210> 4699

<211> 48

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4699

Leu	Phe	Lys	Leu	Leu	Arg	Arg	Leu	Leu	Arg	Trp	Trp	Lys	Arg	Ala	Arg
1				5					10					15	

Arg	Arg	Pro	Val	Phe	Arg	Arg	Val	Leu	Thr	Leu	Gly	Asp	Trp	Tyr	Lys
			20					25					30		

Leu	Asn	Leu	Leu	Cys	Arg	Asp	Leu	Trp	Ile	Arg	Cys	Ala	Trp	Ala	Gly
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

35

40

45

<210> 4700

<211> 39

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4700

Arg Met Arg Met Leu Lys Arg Met Leu Lys Leu Phe Gln Lys Ala Arg
 1 5 10 15

Asn Leu Pro Ser Leu Thr Ala Ala Asn Leu Val Gly Met Leu Ala Arg
 20 25 30

Phe Cys Lys Tyr Lys Lys Lys
 35

<210> 4701

<211> 94

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4701

Tyr Leu Arg Leu Leu Cys Lys Leu Leu Lys Arg Met Lys Arg Pro Pro
 1 5 10 15

Tyr Arg Arg Lys Leu Trp Arg Arg Ala Cys Arg Trp Asn Ala Ala Ala
 20 25 30

Ala Glu Leu Gln Ser Asp Ala Leu His Leu Trp Leu Val Tyr Ala Leu
 35 40 45

Lys Leu Arg Cys Leu Val Glu Arg His Cys Lys Lys Lys Ala Lys Leu
 50 55 60

Asp Arg Leu Pro Leu Trp Met Asp Ala Ala Ile Asp Ser Ala Gly Ser
 65 70 75 80

Leu Arg Asn Pro Arg Lys Tyr Arg Trp Leu Arg Phe Met Ala
 85 90

<210> 4702
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4702

Lys Phe Lys Ile Met Arg Arg Leu Leu Lys Arg Trp Thr Gln Ala Leu
 1 5 10 15

Pro Leu Leu Leu Trp Thr Asp Ala Lys Ser Arg Val Ala Asn Arg Arg
 20 25 30

<210> 4703
 <211> 57
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4703

Phe Ile Lys Leu Leu Ser Arg Ile Leu Arg Met Phe Lys Cys Leu Asp
 1 5 10 15

Lys Gly Arg Lys Lys Ser Leu Ser Leu Gly Lys Gly Gln Tyr His Gly
 20 25 30

Lys Ala Gly Thr Leu Ala Asp Lys Cys Lys Leu Lys Ala Glu Leu Asp
 35 40 45

Leu Asn Lys Leu Glu Leu Arg Leu Lys
 50 55

<210> 4704
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4704

Leu Trp Lys Phe Trp His Lys Leu Phe Lys Arg Leu Gln Lys Lys Leu
 1 5 10 15

Ala Ala Gly Ala Ser Glu
20

<210> 4705
<211> 56
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 4705

Lys Leu Lys Trp Met Pro Arg Phe Leu Lys Lys Ile Arg Arg Leu Asp
1 5 10 15

Gly Asn Thr Ala Leu His Thr Asn Glu Asp Val Met Lys Tyr Lys Lys
20 25 30

Arg Arg His Arg Glu Leu Pro Val Pro Phe Leu Lys Lys Lys Leu Leu
35 40 45

Trp Leu Ala Cys Arg Ala Arg Ala
50 55

<210> 4706
<211> 53
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 4706

Phe Leu Lys Tyr Leu Lys Lys Leu Tyr Lys Leu Leu Arg Arg Lys Ala
1 5 10 15

Lys Glu Trp Leu Val Lys Ala Thr Leu Gln Ala Phe Arg Lys Arg Lys
20 25 30

Phe Lys Pro Leu Pro Gln Asn Ala Arg Asn Leu Arg Tyr Ser Pro Gln
35 40 45

Lys Lys Thr Met Leu
50

<210> 4707

<211> 63
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4707

Leu Leu Arg Tyr Phe Arg Arg Leu Tyr Arg Lys Ile Arg Thr Ile Ile
 1 5 10 15

Leu Ala Asp Arg Leu Tyr Asn Leu Asp Lys Ala Ala Arg Ala Phe His
 20 25 30

Asp Ala Asn Arg Ala Phe Ala Lys Ala Leu Leu Arg Ala Leu Asp Tyr
 35 40 45

Ile Lys Arg Lys Pro Gly Arg Glu Arg Arg Lys Glu Cys Leu Phe
 50 55 60

<210> 4708
 <211> 51
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4708

Lys Tyr Lys Leu Ile Gln Lys Ile Trp Arg Lys Ile Arg Gln Leu Leu
 1 5 10 15

Gly Lys Arg Ser Ala Lys Lys Ala Leu Arg Leu Pro Lys Thr Ala Trp
 20 25 30

Arg Gln Ala Leu Arg Ile Asp Met Leu Lys Glu Asn Ile Tyr Asn Lys
 35 40 45

Leu Gly Lys
 50

<210> 4709
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4709

Arg Leu Arg Phe Met Lys Lys Leu Leu Lys Arg Leu Thr Arg Leu Asp
1 5 10 15

Ile Asn Ser Cys Leu Tyr Leu Ala Ala Tyr Trp Arg Ala
20 25

<210> 4710

<211> 74

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4710

Lys Phe Arg Phe Leu Lys Lys Phe Ile Lys Lys Met Lys Thr Lys Leu
1 5 10 15

Ile Ser Leu Trp Lys Leu Ile Ala Lys Gly Leu Thr Arg Pro Leu Ser
20 25 30

Tyr Lys Leu Ala Tyr Ile Lys Ala Tyr Ala Ala Gln Ala Lys Lys Lys
35 40 45

Arg Phe Lys Glu Phe Arg Arg Val Arg Leu Arg Leu Gln Gly Tyr Gln
50 55 60

Arg Lys Pro Leu His Ala His Phe Val Pro
65 70

<210> 4711

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4711

Trp Tyr Arg Tyr Phe Gln Arg Tyr Leu Arg Lys Leu Lys Gln Arg Val
1 5 10 15

Arg Leu Trp Arg Ala Arg Glu Leu Cys Ser Pro Lys Ala Leu
20 25 30

<210> 4712
 <211> 26
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4712

Arg Phe Lys Trp Leu Arg Arg Tyr Phe Lys Met Phe Arg Gln Leu Lys
 1 5 10 15

Arg Leu Ala Ala Gly Leu Leu His Leu Ile
 20 25

<210> 4713
 <211> 63
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4713

Arg Phe Lys Leu Trp Lys Lys Leu Phe Lys Leu Leu Asn Gln Ala Arg
 1 5 10 15

Ala Gln Thr Ala Ile Thr Gly Ala Lys Ala Pro Arg Trp Cys Gln Leu
 20 25 30

Phe Asp Lys Glu Leu Arg Val Lys Leu Leu Leu Pro Gln Leu Ala Met
 35 40 45

Phe Arg Arg Pro Asn Arg Cys Glu Gly Arg Ile Lys Lys Ala Leu
 50 55 60

<210> 4714
 <211> 38
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4714

Arg Trp Lys Phe Leu Cys Lys Ile Ile Arg Arg Tyr Lys Pro Phe Ala
 1 5 10 15

Ala Ala Phe Pro Lys Gln Pro Ala Ala Arg Leu Val Cys Lys Tyr Lys
 20 25 30

Leu Arg Trp Arg Asp Ala
 35

<210> 4715

<211> 86

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4715

Leu Leu Lys Leu Leu Arg Lys Phe Trp Arg Trp Trp Arg Gln Phe Thr
 1 5 10 15

Ala Arg Ala Tyr Asp Ala Arg Lys Leu Arg His Tyr Lys Lys Leu Ala
 20 25 30

Ala Lys Arg Ser Leu Leu Lys Arg Asp Leu Lys Arg Tyr Ala Gln Arg
 35 40 45

Ala Ser Ala Asn Pro Lys His Lys Ala Phe Asp Glu Ala Leu Arg Met
 50 55 60

Gly Gln Trp Thr Ile Lys Gly Pro Met Thr Ile Lys Arg Lys Ser Ile
 65 70 75 80

Leu Lys Gly Gly Ala Arg
 85

<210> 4716

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4716

Lys Phe Lys Tyr Leu Pro Lys Ile Leu Lys Arg Leu Asn Asn Ala Ala
 1 5 10 15

Asn Leu Leu Cys

20

<210> 4717
 <211> 26
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4717

Lys Leu Lys Leu Leu Arg Arg Leu Leu Arg Leu Phe Arg Arg Phe Glu
 1 5 10 15

Asn Ala Ala Asn Leu Leu Arg Arg Trp Ile
 20 25

<210> 4718
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4718

Arg Leu Arg Leu Phe Lys Arg Phe Leu Arg Arg Leu Gln Arg Leu Lys
 1 5 10 15

Leu Gly Asn His Cys Ala Ala
 20

<210> 4719
 <211> 41
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4719

Ile Tyr Arg Phe Leu His Lys Leu Tyr Arg Met Leu Lys Lys Lys Ala
 1 5 10 15

Cys Lys Lys Leu Cys Asn Arg Leu Lys Arg Leu Ala Cys Ala Leu Phe
 20 25 30

Gln Leu Ala Met Ser Gln Ile Ser Arg

35

40

<210> 4720

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4720

Arg Leu Arg Leu Tyr Asn Arg Met Leu Arg Lys Leu Arg Gln Cys Arg
 1 5 10 15

Met Asp Ala Gly
 20

<210> 4721

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4721

Met Leu Lys Leu Tyr Ser Arg Met Leu Arg Met Phe Arg Arg His Thr
 1 5 10 15

Leu Arg Arg Lys Leu Val Asn Asn Ala
 20 25

<210> 4722

<211> 73

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4722

Arg Trp Arg Leu Tyr Arg Arg Phe Leu Lys Arg Phe Gln Pro Arg Leu
 1 5 10 15

Asp Leu Lys Arg Arg Ser Arg Lys Ala Lys Tyr Glu Gln Leu Arg Leu
 20 25 30

Lys Lys Gln Val Arg Gln Lys Lys Thr Ala Leu Phe Phe Ala Cys Arg

35

40

45

Lys Tyr Arg Arg Ala Leu Tyr Trp Leu Ala Ala Ser Met Leu Thr Lys
 50 55 60

Cys Leu Ala Asp Cys Lys Trp Arg Leu
 65 70

<210> 4723

<211> 66

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4723

Phe Leu Lys Trp Leu Lys Arg Met Phe Arg Tyr Leu Lys Arg Arg Arg
 1 5 10 15

Trp Tyr Trp Phe Lys Leu Ala Leu Phe Asn Met Arg Leu Glu Phe Asp
 20 25 30

Arg Lys Ala Lys Arg Lys Tyr Arg Phe Asp Cys Leu Ala Leu Trp Lys
 35 40 45

Ser Ala Leu Pro Tyr Phe Leu Asp Ile Leu Ala Cys Lys Lys Leu Tyr
 50 55 60

Arg Asn
 65

<210> 4724

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4724

Phe Trp Arg Leu Leu Pro Arg Phe Leu Arg Lys Met Lys Lys Thr Lys
 1 5 10 15

Ile Ala His Pro Leu
 20

<210> 4725
 <211> 37
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4725

Leu Phe Arg Tyr Leu Arg Arg Ile Leu Lys Lys Leu Arg Asn His Ala
 1 5 10 15

Arg Leu Leu Ala Pro Met Lys Leu Met Arg Met Pro Cys Leu Asp Pro
 20 25 30

Ala Arg Ala Ser His
 35

<210> 4726
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4726

Lys Leu Arg Leu Phe Thr Arg Ile Leu Lys Arg Tyr Lys Ser Met Leu
 1 5 10 15

His Lys Ala Lys Thr Cys Ala Ala
 20

<210> 4727
 <211> 80
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4727

Arg Met Lys Leu Phe Pro Lys Leu Ile Arg Tyr Phe Lys Lys Ala Gly
 1 5 10 15

Gln Phe Leu Arg Asn Met His Ala Arg Lys Cys Ser Leu Val Leu Met
 20 25 30

Val Trp Ala Leu Asp Leu Pro Ala Arg Tyr Arg Met Arg Met Ala Ala
 35 40 45

Val Asp Arg Trp Ala Tyr Gln Lys Leu Tyr Trp Ala Leu Lys Arg Lys
 50 55 60

Arg Ala Tyr Lys Lys Gly Leu Gly Ala Lys Ala Ala Gln Lys Asp Thr
 65 70 75 80

<210> 4728

<211> 63

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4728

Phe Tyr Arg Leu Met Cys Lys Leu Trp Lys Trp Met Arg Asn Ala Leu
 1 5 10 15

Cys Pro Arg Leu Arg Arg Leu Thr Leu Asp Ala Arg Gln Glu Met Arg
 20 25 30

Arg Ala Leu Met His Pro Arg Gln Leu Arg Val Arg Lys Ile Cys Lys
 35 40 45

Pro Leu Arg Leu Lys Leu Arg Phe Arg Ala Leu Pro Gln Tyr Met
 50 55 60

<210> 4729

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4729

Leu Met Lys Ile Phe Lys Arg Leu Leu Arg Leu Leu Ser Lys Thr Arg
 1 5 10 15

Val Lys Arg Ile Ile Ala Lys Phe Lys Ile Tyr Cys Ala Asn Lys Leu
 20 25 30

Asn Cys

<210> 4730
 <211> 77
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4730

Arg Met Arg Tyr Trp Lys Arg Phe Tyr Lys Tyr Leu Lys Arg Arg Ala
 1 5 10 15

Leu Tyr Leu Ala Gly Lys Trp Lys Asp Lys Leu Pro Thr Thr Arg Arg
 20 25 30

Lys Ile Leu Ala Arg Arg Ala Leu Thr Asn Ala Arg Ala Ala Ser Asn
 35 40 45

Leu Val Thr Lys Tyr Ala His Ala Arg Leu Met Lys Arg Leu Arg Asn
 50 55 60

Thr Leu Pro His Gln Leu Gly Lys Trp Met Ala Asp Asp
 65 70 75

<210> 4731
 <211> 39
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4731

Leu Leu Lys Leu Met Arg Lys Leu Leu Arg Arg Leu Lys Arg Thr Lys
 1 5 10 15

Ile Ala Arg Ala Asp Pro Val Thr Ala Asp Leu Leu Leu Lys Cys Asp
 20 25 30

Arg Lys Leu Asn Val Arg Lys
 35

<210> 4732
 <211> 69
 <212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4732

Phe Tyr Lys Leu Phe Arg Lys Leu Phe Arg Leu Tyr Cys Lys Pro Ala
1 5 10 15

Lys Ala Leu Arg Leu Ala Ala Asp Cys Met Ser Ser Cys Val Ala Asn
20 25 30

Tyr Gln Arg Ala Arg Ala Arg Gln Gln Ser Asp Leu Arg Trp Phe Leu
35 40 45

Glu Arg Arg Arg Met Lys Gln Lys Leu Pro Ala Arg Lys Lys Asp Pro
50 55 60

Arg Ser Ser Lys Leu
65

<210> 4733

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4733

Lys Leu Lys Leu Leu Lys Lys Met Leu Arg Arg Leu Lys Lys Asp Ala
1 5 10 15

Pro Val Phe Arg Cys Leu Ala Thr Ile Cys Ala
20 25

<210> 4734

<211> 62

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4734

Leu Leu Arg Leu Trp Lys Lys Ile Leu Arg Lys Tyr Arg Arg His Ser
1 5 10 15

Lys Asn Ala Met Phe Ile His Leu Glu Gln Lys Lys Arg Asp Arg Ala
 20 25 30

Val Ala Lys Lys Thr Leu Gly Tyr Glu Trp Ala Lys Ala Arg Ala Ser
 35 40 45

Ala Val Ile Arg Ala Lys Ala Leu Leu His Lys Glu Ser Cys
 50 55 60

<210> 4735
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4735

Arg Phe Arg Phe Tyr Gln Lys Leu Leu Lys Lys Phe Asn Lys Leu Ala
 1 5 10 15

Ala Ile Leu Arg Leu Glu Ile Asp Glu Thr Ala Leu Ala Thr Ile Ala
 20 25 30

Arg Phe

<210> 4736
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4736

Phe Leu Arg Leu Trp Pro Lys Tyr Ile Arg Arg Leu Arg Thr Lys Thr
 1 5 10 15

Ala Arg Gln Asn Ala Ala Phe Ile Ser Arg Leu Gln Leu Lys Ala Ser
 20 25 30

Ser Ala Lys
 35

<210> 4737

<211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4737

Leu Phe Arg Leu Ile Pro Arg Trp Trp Arg Lys Leu Lys Cys Lys Leu
 1 5 10 15

Leu Val Lys Phe Asp Lys Ala Ala Glu Arg Cys Ala Leu Lys Cys Lys
 20 25 30

<210> 4738
 <211> 55
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4738

Arg Trp Arg Leu Phe Thr Arg Leu Leu Arg Arg Leu Thr Lys Asn Trp
 1 5 10 15

Phe Ser Arg Val Ile Ala Trp Ser Leu Leu Cys Phe Arg Asp Val Ala
 20 25 30

Thr Leu Gly Ala Lys Arg Trp Tyr Leu Lys Gly Lys Leu Leu Ala Lys
 35 40 45

Leu Ser Lys Ala Thr Arg Trp
 50 55

<210> 4739
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4739

Arg Met Arg Trp Leu Lys Lys Leu Tyr Lys Phe Leu Pro Lys Lys Ala
 1 5 10 15

Lys Ile Met Lys Met Ala Ala Ala Val Trp Lys Trp Phe Leu Ala Tyr

20

25

30

Asp Lys Arg
35

<210> 4740
<211> 51
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 4740

Leu Ile Lys Met Leu Ser Lys Met Ile Lys Leu Leu Ser Arg Glu Trp
1 5 10 15

Met Lys Trp Arg Ala Arg Arg Arg Lys Leu Pro Ala Tyr His Arg Arg
20 25 30

Leu Lys Phe Leu Ala Ala Lys Tyr Ala Met Gln Ala His Arg Met Lys
35 40 45

Ser Ser Asn
50

<210> 4741
<211> 34
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 4741

Phe Leu Lys Met Leu Pro Arg Leu Leu Lys Lys Met Lys Cys Lys Trp
1 5 10 15

Asn Pro Thr Lys Ala Glu Tyr Ala Ala Ile Lys Ala Ser Glu Leu Ala
20 25 30

Met Ala

<210> 4742
<211> 32
<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4742

Phe	Tyr	Arg	Trp	Leu	Lys	Arg	Leu	Tyr	Lys	Leu	Tyr	Cys	Lys	His	Ser
1				5				10						15	

Thr	Arg	Arg	Leu	Leu	Ala	Lys	Ala	Met	Ala	Lys	Asp	Leu	Leu	His	Val
			20					25					30		

<210> 4743

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4743

Arg	Trp	Lys	Leu	Leu	Lys	Arg	Phe	Ile	Lys	Trp	Ile	Lys	Gln	Ala	Ala
1			5					10						15	

Lys	Gly	Ala	Arg	Pro	Tyr	Ala	Thr	Arg	Ala	Leu	Tyr	Met	Ile
			20					25				30	

<210> 4744

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4744

Leu	Tyr	Arg	Phe	Phe	Lys	Arg	Phe	Met	Arg	Arg	Leu	Lys	Ser	Leu	Ala
1			5					10						15	

Lys	Leu	Asn	Met
			20

<210> 4745

<211> 60

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4745

Arg	Leu	Lys	Leu	Leu	Lys	Arg	Phe	Trp	Arg	Arg	Phe	Ser	Lys	Asp	Gly
1				5				10						15	

Ile	Glu	Thr	Asp	Asn	Trp	Arg	Lys	Leu	Ala	Gly	Arg	Val	Ala	Leu	Asn
			20				25						30		

Ile	Arg	Ala	Ala	Ala	Lys	Trp	Ala	Leu	Gln	Leu	Gln	Arg	Arg	Ala	Phe
		35					40					45			

Asn	Leu	Arg	Gln	Arg	Lys	Ile	Cys	Lys	Arg	Gln	Phe
50					55					60	

<210> 4746

<211> 73

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4746

Lys	Phe	Arg	Leu	Ile	Arg	Arg	Leu	Trp	Arg	Lys	Ile	Lys	Lys	Lys	Arg
1				5				10						15	

Ser	Ala	Glu	Arg	Leu	Trp	Trp	Arg	Ala	Val	Ile	Leu	Asn	Thr	Ile	Leu
			20					25					30		

Ala	Leu	Gly	Glu	Arg	Arg	Asn	Ala	Cys	Asn	Met	Leu	Met	Thr	Asn	Ala
		35					40					45			

Cys	Leu	Ala	Arg	Asn	Arg	Ser	Trp	Lys	Thr	Leu	Lys	Arg	Ala	Lys	Asn
50						55					60				

Ala	Met	Asp	Gly	Leu	Leu	Arg	Leu	Val
65					70			

<210> 4747

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4747

Arg Met Arg Trp Leu Arg Lys Ile Phe Lys Lys Phe Arg Arg Gly Ala
 1 5 10 15

Lys Ala Leu Lys Arg Arg Cys Ala Pro Ala Leu Trp Ile Leu Ile Glu
 20 25 30

Leu Ile Ala Asn
 35

<210> 4748
 <211> 66
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4748

Leu Phe Lys Leu Phe Cys Arg Leu Ile Arg Ile Leu Lys Pro Ala Lys
 1 5 10 15

Ser Leu Gln Leu Gln Gln Ala Ala Cys Leu Arg Arg Ala Glu Arg Ala
 20 25 30

Phe Arg Ile Met Cys Arg Lys Arg His Arg Thr Phe His Ala His Ala
 35 40 45

Asp His Lys Lys Leu Glu Val Leu Tyr Ala Phe Lys Thr Lys Leu Lys
 50 55 60

Arg Arg
 65

<210> 4749
 <211> 41
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4749

Lys Tyr Lys Trp Phe Arg Arg Met Ile Lys Arg Trp Lys Arg Ala Ala
 1 5 10 15

Ala Gln Ala Ala Cys Lys Ala Ser Pro Leu Glu Asp Phe Thr Lys Lys

20

25

30

Pro Leu Leu Arg Ile Ile Leu Leu Asp
 35 40

<210> 4750

<211> 85

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4750

Arg Leu Arg Leu Trp Pro Arg Ile Phe Arg Phe Leu Lys Lys Met Trp
 1 5 10 15

Thr Lys Arg Lys Trp Leu Asp Ala Arg Arg Asp Asp Phe Ser Lys His
 20 25 30

Leu Ala Ala Leu Arg Gln Met Lys Val Leu Asn Phe Phe Ala Ala Thr
 35 40 45

Thr Ala Arg Arg Tyr Trp Arg His Arg Arg Leu Leu Glu Gly Ala Leu
 50 55 60

Met Pro Cys Ala Ile Gln Pro Lys Leu Gly Lys Arg Lys Lys Lys Arg
 65 70 75 80

Arg Asn Ala Pro Glu
 85

<210> 4751

<211> 38

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4751

Lys Trp Lys Phe Leu Arg Arg Phe Met Lys Leu Phe Lys His Val Ala
 1 5 10 15

Leu Ala Gln Asn Glu Arg Ala Pro Val Leu Arg Pro Ala Tyr Leu Arg
 20 25 30

Arg Val Ile Leu His Arg
35

<210> 4752
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 4752

Arg Phe Arg Phe Leu His Arg Met Ile Lys Phe Phe Gln Lys Leu Ala
1 5 10 15

Gly Leu Lys Ala Lys Lys Ala Thr Leu Lys Met Leu Ile Trp Arg Arg
20 25 30

Lys Cys Gly Ala Ile Leu Arg Asn
35 40

<210> 4753
<211> 60
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 4753

Arg Ile Lys Tyr Tyr Lys Lys Trp Tyr Arg Leu Trp Asn Lys Arg Lys
1 5 10 15

Cys Lys Ala Gly Lys Ser Tyr Gly Lys Phe Phe Ile Ala Ala Phe Leu
20 25 30

Tyr Leu Glu Ala Lys Ile Leu Lys Lys Leu Ala Gly Gly Leu Lys Arg
35 40 45

Arg Glu Ala Ser Glu Ala His Arg Ala Ala Lys Cys
50 55 60

<210> 4754
<211> 72
<212> PRT
<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4754

Leu	Ile	Arg	Phe	Leu	Arg	Arg	Trp	Leu	Lys	Phe	Phe	Thr	Arg	Pro	Leu
1				5					10					15	

Gln	Ala	Val	Glu	Ala	Met	Leu	Lys	Leu	Lys	Cys	Leu	Arg	Val	Lys	Trp
			20					25					30		

Glu	Lys	Ala	Asn	His	Glu	Leu	Leu	His	Arg	Lys	Trp	Gln	Ala	Leu	Ile
		35					40					45			

His	Cys	Ala	Val	Arg	Gln	Ser	Leu	Leu	Arg	Ala	Tyr	Glu	Arg	Arg	Lys
	50					55					60				

Lys	Ala	Lys	Arg	Met	Gly	Met	Arg
65					70		

<210> 4755

<211> 72

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4755

Arg	Met	Arg	Phe	Phe	Lys	Arg	Phe	Met	Arg	Arg	Met	Arg	Arg	Glu	Asn
1				5					10					15	

Leu	Ile	Met	Lys	Lys	Ala	Trp	Leu	Leu	Lys	Leu	Leu	Glu	Arg	Phe	Lys
			20				25					30			

Arg	Arg	Ala	Ala	Arg	Arg	His	Ala	Phe	Ala	Cys	Asn	Leu	Gln	Ile	Leu
		35					40					45			

Thr	Val	Lys	Met	Pro	Trp	Asp	Gln	Arg	Ala	Lys	Ala	Glu	Ala	Leu	Thr
	50					55					60				

Leu	Thr	Tyr	Trp	Lys	Ala	Asp	Lys
65					70		

<210> 4756

<211> 74

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4756

Phe Leu Lys Tyr Ile Pro Lys Tyr Phe Lys Arg Trp Ser Lys Ala Glu
1 5 10 15

Arg Phe Gly Cys Val Arg Leu Lys Lys Glu Leu Leu Ala Glu Asn Lys
20 25 30

Cys Lys Phe Ala Cys Val Arg Lys Arg Thr Leu Phe Ala Phe Pro Asp
35 40 45

Lys Arg Leu Leu His Lys Val Tyr His Ala Ala Leu Val Lys Lys Ala
50 55 60

Ala Leu Gly Leu Gly Met Arg Ala Lys Arg
65 70

<210> 4757

<211> 78

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4757

Arg Ile Arg Leu Tyr Ser Lys Leu Phe Arg Ile Leu Gln Arg Leu Arg
1 5 10 15

Val Leu His Gln Lys Met Trp Ala Pro Glu Lys Arg Lys Val Arg Thr
20 25 30

Arg Arg Thr Trp Leu Ile Ala His Ser Leu Gly Lys Leu Arg Arg Ser
35 40 45

Arg Ala Gly Leu Arg Met Ala Ile Leu Ala Lys Ile Lys Gln Leu Ile
50 55 60

Arg Arg Met Lys Lys Ala Asn Ile Ala Gln Ser Val Thr Arg
65 70 75

<210> 4758

<211> 68
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4758

Arg Phe Arg Phe Tyr Asn Lys Leu Tyr Lys Arg Tyr Arg Lys Glu Leu
 1 5 10 15

Leu Lys Ala Arg Gln Met Leu Ala Glu Gln His Ile Arg Asn Ile Ala
 20 25 30

Lys Ser Lys Lys Ala Leu Lys Ser Arg Cys Ser Val Lys Trp Met Arg
 35 40 45

Arg Ala Leu Leu Ala Leu Lys Arg Ala Met Ala Ser Ala Lys Glu Ala
 50 55 60

Arg Lys Ala Asn
 65

<210> 4759
 <211> 54
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4759

Ile Leu Arg Leu Phe Arg Arg Leu Ile Lys Trp Tyr Lys His Thr Arg
 1 5 10 15

Met Asn Lys Leu Arg Ala Val Trp Ala Phe Phe Asp Lys Ala Arg Phe
 20 25 30

Arg Glu Glu Leu Leu Lys Leu Cys Leu Leu Arg Ala Asp Pro Leu Ala
 35 40 45

Asn Ala Tyr Ala Asn Ala
 50

<210> 4760
 <211> 40
 <212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4760

Lys Phe Lys Ile Leu Lys Lys Leu Phe Arg Arg Phe Lys Asn Ala Arg
1 5 10 15

Arg Val Ile Ala Ala Leu Cys His Gly Tyr Arg Ala Asn Arg Ala Asp
20 25 30

Ala Pro Val Ile Arg His Arg Met
35 40

<210> 4761

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4761

Arg Ile Lys Leu Leu Lys Arg Phe Leu Arg Leu Leu Arg Arg His Pro
1 5 10 15

Leu Leu Trp Gly Tyr Pro Asp Leu Glu Ala Gln Arg His Arg Trp Ala
20 25 30

Leu Asp

<210> 4762

<211> 78

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4762

Lys Phe Lys Leu Trp Gln Lys Met Leu Arg Lys Trp His Lys Arg Glu
1 5 10 15

Leu Arg Ala Arg Ala Trp Trp Leu Met Arg Asn Gln Ala Pro Tyr Thr
20 25 30

His Ala Pro Val Lys Lys Ala Arg Leu Ala Glu Arg Ala Phe Leu Phe
 35 40 45

Met Cys Ser Arg Leu Ala Thr Arg Trp Arg Leu Arg Lys Ser Leu Leu
 50 55 60

Asn Lys Thr Cys Leu Arg Ala Arg Thr Gly Arg Thr Arg Ala
 65 70 75

<210> 4763
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4763

Leu Met Arg Leu Trp His Arg Phe Leu Arg Leu Leu Lys Pro Tyr Tyr
 1 5 10 15

Arg Arg Cys Arg Ala
 20

<210> 4764
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4764

Leu Phe Arg Ile Phe Arg Arg Leu Met Lys Ile Leu Asn Arg Cys Arg
 1 5 10 15

Asn Ser Lys Leu Ala Arg Asp His Ala Arg Arg Arg Arg Ile Leu Val
 20 25 30

Leu Arg Ile Asp His Ala Ile Asp
 35 40

<210> 4765
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4765

Arg	Leu	Lys	Met	Leu	Lys	Lys	Leu	Trp	Arg	Arg	Trp	Lys	Pro	Ala	Ala
1				5				10						15	

Met	His	Lys	Ala	Leu	Arg
				20	

<210> 4766

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4766

Phe	Ile	Arg	Leu	Leu	Arg	Arg	Tyr	Trp	Arg	Phe	Ile	Arg	Gln	Ile	Ala
1			5					10						15	

Ala	Cys	Asn	Arg	Cys	Thr	Leu	Lys	Leu	Lys	Met	Leu	Lys	Cys	His	Pro
			20					25					30		

Arg	Arg	Ala	Ala
			35

<210> 4767

<211> 37

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4767

Arg	Leu	Lys	Ile	Leu	Thr	Lys	Phe	Leu	Lys	Lys	Tyr	Lys	Arg	Trp	Lys
1				5				10						15	

Met	Ala	Arg	Pro	Arg	Cys	Ala	Asn	Lys	Leu	Trp	Asp	Arg	Leu	Asn	Val
			20					25					30		

Ala	Leu	Tyr	Leu	Glu
				35

<210> 4768

<211> 78
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4768

Arg Ile Arg Phe Leu Gln Lys Leu Leu Arg Arg Phe Lys Arg Glu Glu
 1 5 10 15

Lys Asp Cys Gly Arg Ile Gly Val Glu Leu Lys Phe Ile Ala Lys Ala
 20 25 30

Leu Arg Arg Arg Lys Phe Gln Thr Arg Gly Ala Ala Gln Ser Pro Tyr
 35 40 45

Arg Arg Lys Leu Trp Leu Tyr Lys Ala Ile Ala Lys Ala Ala Ser Pro
 50 55 60

Cys Met Ala Arg Met Lys Ser Lys Ile Leu Leu Tyr Lys Gly
 65 70 75

<210> 4769
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4769

Lys Leu Arg Met Trp Asn Arg Trp Leu Arg Leu Met Arg Pro Val Trp
 1 5 10 15

Leu Ala Lys Gln Arg Leu Arg
 20

<210> 4770
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4770

Phe Trp Lys Leu Leu Ser Arg Met Met Lys Ile Tyr Pro Lys Gly Leu

1 5 10 15

His Leu Arg Thr Arg Arg Leu Arg Val Ala Leu Leu Asn
20 25

<210> 4771
<211> 50
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 4771

Arg Leu Arg Trp Ile Arg Arg Leu Leu Arg Phe Leu Lys Lys Leu Leu
1 5 10 15

Leu Arg Val Lys Arg Tyr Met Met Met Arg Phe Met Ala Val Ile Arg
20 25 30

Cys Thr Gln Leu Ala Leu Leu Tyr Ala Lys Lys Lys Ala Arg Glu Ser
35 40 45

Ala Leu
50

<210> 4772
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 4772

Leu Leu Arg Phe Leu Pro Arg Leu Ile Arg Lys Met Asn Gln Tyr Ala
1 5 10 15

Lys Arg Leu Arg Leu Ala Pro Ile Asn Lys Ala Ile Arg Cys
20 25 30

<210> 4773
<211> 49
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 4773

Arg Tyr Lys Phe Leu Arg Arg Leu Trp Arg Arg Leu Asn Ser Lys Thr
 1 5 10 15

Trp Arg Gly Lys Met Ala Trp Arg Pro Asp Pro Ala Glu Met Met Lys
 20 25 30

Leu Ser Ala Leu Leu Leu Arg Arg Leu Ala Arg Gln Gln Arg Lys Glu
 35 40 45

Asp

<210> 4774

<211> 87

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4774

Arg Phe Arg Leu Ile Arg Lys Leu Leu Lys Tyr Met Cys Lys Ala Gln
 1 5 10 15

Leu Asp Leu Lys Lys Arg Leu Trp Asp Val Lys Met Pro Ser Gly Val
 20 25 30

Arg Lys Ala Leu Lys Pro Gln Lys Leu Lys Leu Thr Leu Gly Lys Arg
 35 40 45

Trp Val Lys Tyr Arg Arg Leu Ala Leu Arg Leu Ala Lys Phe Arg Trp
 50 55 60

Lys His Lys Ala Ala Gly Ser Ala Tyr Ala Pro Asn Asp Arg Phe Met
 65 70 75 80

Met Arg Ala Pro Arg Phe Lys
 85

<210> 4775

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4775

Leu Tyr Lys Leu Leu Arg Lys Ile Leu Arg Phe Leu Thr Arg Cys Leu
 1 5 10 15

Asp Tyr Ser Lys Asp
 20

<210> 4776

<211> 63

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4776

Arg Trp Lys Leu Leu Thr Lys Met Leu Arg Lys Tyr His Arg Lys Arg
 1 5 10 15

Ala Leu Cys Lys Ala Ala Ala Phe Asp Phe Lys Met Arg Lys Lys Trp
 20 25 30

Leu Val Ser Lys Leu Lys Cys Arg Arg Leu Ala Arg Ala Asp Arg Gln
 35 40 45

Ala Leu Lys Leu Gln Gln Tyr Val Ile Lys Lys Glu Gln Pro Trp
 50 55 60

<210> 4777

<211> 69

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4777

Lys Trp Lys Leu Met Arg Lys Met Trp Arg Lys Phe Lys Lys Pro Trp
 1 5 10 15

Tyr Met Glu Thr Lys Ala Ser His Leu Arg Leu Arg Arg Ala Arg Asn
 20 25 30

Met Leu Glu Ile Leu Ala Asn Ala Lys Ala Pro Leu Gln Val Pro Asp

35

40

45

Glu Arg Asp Leu Arg Ala Leu Pro Met Leu Lys Leu Ala Val Val Lys
 50 55 60

Asn Ala Ala Ile Lys
 65

<210> 4778
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4778

Leu Leu Lys Phe Met Arg Arg Leu Ile Lys Leu Ile His Gln Arg Arg
 1 5 10 15

Phe Gly Leu Ala
 20

<210> 4779
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4779

Lys Leu Lys Leu Trp Lys Arg Ile Leu Lys Arg Trp Lys Thr Phe Arg
 1 5 10 15

Leu Lys His Ala Leu Leu Cys Arg Glu Asn Leu Pro Ala
 20 25

<210> 4780
 <211> 45
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4780

Lys Phe Arg Leu Ile Cys Lys Leu Leu Arg Arg Tyr His Arg Lys Ala

1 5 10 15

Leu Leu Ile Asp Ala Lys Asp Lys Asp Leu Lys Gly Lys Ser Ala His
20 25 30

Lys Leu Cys Ser Tyr Ala Leu Leu Gly Lys Val Leu Leu
35 40 45

<210>	4781
<211>	59
<212>	PRT
<213>	Artificial Sequence

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<220>  
<223> Computer-generated peptide variant
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<400> 4781

Tyr Met Arg Met Phe Arg Arg Ile Leu Lys Leu Phe Gln Lys Lys Ser
1 5 10 15

Ser Ala His Arg Thr Ala Leu Arg Lys Lys Leu Trp Glu Leu Ile Asp
20 25 30

Gly Asp Asn Leu Ala Leu Lys Asn Gly His Glu Arg Arg Arg Pro Lys
35 40 45

Lys Leu Tyr Leu Ser Arg Arg Gly Leu Arg Ala
50 55

<210>	4782
<211>	89
<212>	PRT
<213>	Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 4782

Arg Tyr Arg Leu Met Lys Lys Phe Leu Lys Arg Trp His Arg Ser Leu
1 5 10 15

Leu Ile Leu Lys Arg Ala Ala Leu Glu Glu Ser Trp Tyr Gln Arg Ala
20 25 30

Arg Leu Arg Thr Asn Lys Arg Phe Arg Ala Arg Arg Tyr Gln Lys Thr
35 40 45

Leu Pro Arg Leu Trp Gln Arg Leu Glu Lys Ala Leu Cys Ile Lys Ala
 50 55 60

Gln Phe Ile Ala Leu Thr Val Leu Gln Asp Lys Thr Ser Phe Lys Leu
 65 70 75 80

Lys Met Lys Asn Ser Cys Glu Ala Lys
 85

<210> 4783
 <211> 27
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4783

Arg Tyr Lys Leu Phe Gln Lys Tyr Leu Lys Phe Tyr Lys Lys Trp Ala
 1 5 10 15

Lys Gln Asp Ala Lys Cys Arg Asn Ala Leu Ala
 20 25

<210> 4784
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4784

Lys Met Lys Phe Leu Asn Arg Leu Leu Arg Arg Trp Asn Lys Ala Trp
 1 5 10 15

Met Cys Ala Asp
 20

<210> 4785
 <211> 76
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4785

Arg Phe Arg Trp Leu Pro Lys Phe Met Arg Lys Ile Arg Pro Ala Ser
 1 5 10 15

Pro Arg Cys Leu Ser Asp Ala Asp Leu His Leu Thr Ser Arg Ser Trp
 20 25 30

Lys Ala Phe Arg Lys Ile Ala Ala Ala Leu Gln Ala Ala Arg Val Arg
 35 40 45

Ala Arg His Asn Ala Leu Leu Lys Thr Cys Pro Asn Arg Ala Ala Leu
 50 55 60

Lys Ile Lys Phe Arg Ala Phe Gly Lys Pro Gln Ala
 65 70 75

<210> 4786
 <211> 26
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4786

Arg Met Lys Phe Phe Gln Lys Leu Met Lys Leu Leu Lys Lys Arg Asp
 1 5 10 15

Ala Leu Trp Leu Phe Glu Ala Arg Ile Ile
 20 25

<210> 4787
 <211> 26
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4787

Lys Leu Arg Leu Met Asn Lys Leu Met Lys Leu Ile Lys Asn Ala Asn
 1 5 10 15

Leu Lys Pro Lys Ile Asp Pro Leu Glu Leu
 20 25

<210> 4788

<211> 49
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4788

Arg Tyr Arg Leu Leu Arg Arg Leu Phe Lys Lys Leu Lys Cys Ala Ile
 1 5 10 15

Leu Lys Lys Lys Gln Leu Gly Ile Ala Ala Ala Arg Arg Lys Cys Gln
 20 25 30

Val Gln Arg Arg Leu Asp Pro Phe Trp Ile Ala Arg Ile Val Val Arg
 35 40 45

Ala

<210> 4789
 <211> 61
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4789

Arg Trp Arg Leu Trp Lys Arg Leu Phe Arg Met Phe Arg Lys Val Glu
 1 5 10 15

Asp Ala Ile Asp Ala Arg Val Ile Pro Ala Lys Lys Val Lys Lys Arg
 20 25 30

Leu Arg His Trp Gln Ala Ala Gly Ala Ala Lys Ala Leu Cys Lys Trp
 35 40 45

Leu Ile Asp Asp Arg Ala Ala Gly Leu Ala Leu Tyr Phe
 50 55 60

<210> 4790
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4790

Trp Leu Arg Trp Leu Thr Arg Leu Tyr Lys Leu Trp Gln Gln Ala Pro
 1 5 10 15

Val Phe Ala Ala Asn Ala Arg Pro Lys Lys Lys Arg Ala Gln Ala Lys
 20 25 30

Ala Gly Lys Arg
 35

<210> 4791

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4791

Lys Tyr Arg Met Phe Arg Lys Leu Leu Arg Met Leu Ser Arg Ile Leu
 1 5 10 15

Leu Phe Arg Asp Ala Val Ala Met
 20

<210> 4792

<211> 56

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4792

Lys Ile Arg Leu Leu Arg Arg Leu Phe Arg Phe Leu Lys His Leu Tyr
 1 5 10 15

Arg Trp Trp Ala Ala His Ala Ala Leu Glu Arg Tyr Asp Tyr Glu Lys
 20 25 30

Phe Leu Arg Ala Phe Asn Leu Leu Lys Ser His Val His Tyr Leu Ala
 35 40 45

Arg Gln Arg Leu Ile Lys Pro Val
 50 55

<210> 4793
 <211> 52
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4793

Lys Leu Arg Leu Phe Arg Lys Phe Leu Arg Phe Leu Arg Thr Asp Arg
 1 5 10 15

Lys Met Ala Glu Cys Ala Arg Tyr Val Ala Arg Arg Leu Leu Arg Ile
 20 25 30

Leu Met Ser Cys Ala Thr Thr His Gly Phe Ala Lys Leu Lys Gln Gln
 35 40 45

Ala Asn Arg Leu
 50

<210> 4794
 <211> 88
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4794

Lys Leu Arg Trp Leu Arg Arg Met Leu Arg Arg Leu Arg Lys Leu Ala
 1 5 10 15

Lys Val Trp Asn Arg Lys Cys Lys Arg Asp Trp Ala Pro His Trp Lys
 20 25 30

Lys Leu Leu Thr Lys Arg Trp Ala Met Lys Thr Leu Met Ala Arg Lys
 35 40 45

Arg Pro Pro Leu Lys Ala Arg Gly Glu Lys Leu Met Lys Asn Leu Asp
 50 55 60

Lys Ile Lys Leu Ile Ala Phe Cys Ala Asn Leu Ala Cys Glu Leu Leu
 65 70 75 80

Arg Leu Leu Arg Met Ala Thr Gln

85

<210> 4795
 <211> 38
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4795

Lys Leu Arg Leu Tyr Asn Lys Met Met Lys Lys Phe Cys Gln Arg Lys
 1 5 10 15

Glu Ser Lys Pro Tyr Lys Thr Tyr His Pro Gln Leu Ala Ala Leu Ala
 20 25 30

Lys Ala Lys Ala Arg His
 35

<210> 4796
 <211> 37
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4796

Trp Ile Lys Ile Tyr Gln Lys Phe Leu Arg Leu Trp Lys Lys Ala Arg
 1 5 10 15

Thr Leu Arg Ala Ala Lys Asn Ala Arg Gly Trp Ala Asp Phe Lys Thr
 20 25 30

His Lys Asp Leu Leu
 35

<210> 4797
 <211> 39
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4797

Arg Ile Arg Met Leu Lys Arg Leu Leu Lys Phe Leu Arg Arg Ser Arg

1 5 10 15

His Gln Ser Leu Arg Lys Cys Asp Ala Ala Val Ile Ala Asn Arg His
 20 25 30

Leu Pro Ala Trp Arg Leu Phe
 35

<210> 4798
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4798

Arg Phe Lys Leu Leu Ser Arg Phe Leu Arg Leu Tyr Arg Lys Leu Cys
 1 5 10 15

Trp Lys Arg Gly Ala Asn Ala Glu Ser Leu Ser Ala Ala Cys Ser Lys
 20 25 30

Lys Ala Leu Cys Leu Arg Cys Ala
 35 40

<210> 4799
 <211> 58
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4799

Arg Phe Arg Phe Phe Arg Lys Phe Met Arg Leu Leu Ser Thr Leu Leu
 1 5 10 15

Ile Ala Ile Asp Arg Leu Glu Arg Tyr Leu Met Gln Arg Met Lys Arg
 20 25 30

Asn Arg Ala Tyr His Val Arg Arg Ile Met Val Phe Ala Lys Met Lys
 35 40 45

Lys Arg Pro Ala Ala Leu Leu Arg Ala Pro
 50 55

<210> 4800
 <211> 52
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4800

Arg Phe Lys Ile Tyr Asn Arg Met Trp Arg Arg Leu Arg His Thr Gln
 1 5 10 15

Phe Trp Arg Arg Ala Ala Lys Asn Cys Leu Leu Gln Phe Cys Leu Lys
 20 25 30

Val Lys Ile Tyr Met Leu Arg Leu Arg Ala Ala Ala Leu Arg Arg Met
 35 40 45

Thr Leu Tyr Lys
 50

<210> 4801
 <211> 41
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4801

Leu Leu Arg Trp Phe Lys Lys Leu Leu Lys Arg Trp Arg Cys Arg Asp
 1 5 10 15

Asp Ala Asp Leu Arg Val Met Ser Lys Lys Ala Arg Phe Trp Leu Val
 20 25 30

Tyr Leu Leu Tyr Asn Gly Arg Ile Leu
 35 40

<210> 4802
 <211> 41
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4802

Lys Leu Arg Leu Phe Arg Arg Tyr Leu Arg Arg Phe Arg Lys His Lys
 1 5 10 15

Gln Arg Ile Leu Glu Met Ala Lys Arg Leu Tyr Asn Ala Asp Pro Ala
 20 25 30

Ser Leu Asn Leu Glu Tyr Trp Glu Leu
 35 40

<210> 4803

<211> 56

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4803

Met Leu Arg Phe Ile Lys Arg Leu Met Lys Ile Phe Lys Lys Val Arg
 1 5 10 15

Thr Ala Ser Asp Val Thr Arg His Cys His Lys Val Leu Leu Arg Cys
 20 25 30

Trp Ala Leu Leu Cys Arg Ala Val Leu Gly Asp Ala Arg Leu Arg Pro
 35 40 45

Ser Ala Ala Ser Leu Leu Ala Leu
 50 55

<210> 4804

<211> 57

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4804

Leu Leu Arg Phe Phe Lys Lys Leu Ile Arg Phe Trp Lys Lys Ala Ala
 1 5 10 15

Arg Val Arg Ala Val Ser Arg Ala Leu Ala Phe Ala Arg Ile Leu Ser
 20 25 30

Ser Lys Arg Trp Arg Leu Thr Cys Pro Glu His Glu Thr Gly Lys Ile

35

40

45

Lys Ala His Glu Lys Ile Ala Arg Ala
 50 55

<210> 4805

<211> 43

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4805

Arg Tyr Arg Leu Leu Lys Lys Trp Leu Arg Phe Leu Arg Cys Gln Val
 1 5 10 15

Arg Met Arg Ala Gly Arg Ala Arg Ala Thr Ile Ala Arg Lys Ala His
 20 25 30

Thr Gln Ser Phe Lys Ala Ser His Leu Lys Leu
 35 40

<210> 4806

<211> 67

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4806

Leu Leu Lys Phe Leu Lys Arg Leu Tyr Arg Phe Phe Pro Cys Glu Tyr
 1 5 10 15

Leu Ser Cys Ala Leu Gly Lys Gln Met Lys Thr Ala Arg Val Arg Asn
 20 25 30

Gln Ile Gly Leu Leu Gln Arg Met Arg Ala Leu Arg Asn Leu Arg Glu
 35 40 45

Lys Gly Lys Arg Leu Asn Leu Lys Lys Leu Thr Cys Tyr Arg Val Lys
 50 55 60

Trp Lys Leu
 65

<210> 4807
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4807

Lys Met Lys Leu Met Cys Arg Phe Phe Lys Lys Trp Pro Pro Ser Leu
 1 5 10 15

Ala Ala Leu Leu Leu Lys Cys Ala Asp Asn Lys Met Ser Ala Arg
 20 25 30

Lys

<210> 4808
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4808

Lys Leu Lys Leu Tyr Asn Lys Phe Phe Arg Phe Tyr Arg Pro Arg Val
 1 5 10 15

Arg Lys Ala Glu Leu Ala Gly His Phe Ala Ala Asp Lys Lys
 20 25 30

<210> 4809
 <211> 42
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4809

Phe Leu Arg Trp Leu Gln Arg Leu Leu Arg Arg Phe Cys Arg Arg Lys
 1 5 10 15

Arg Cys Arg Arg Pro Asp Arg Lys Glu Gly Thr Val Ala Asn Ala Leu
 20 25 30

Pro Leu Lys Glu Ala Ala Glu Pro Arg Ala
 35 40

<210> 4810
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4810

Leu Phe Lys Tyr Tyr Asn Arg Ile Leu Arg Arg Leu Arg His Arg Ala
 1 5 10 15

Thr Met Leu Cys Tyr Tyr Ala Leu Pro Arg Lys Lys Gln
 20 25

<210> 4811
 <211> 59
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4811

Phe Leu Arg Ile Leu Arg Arg Met Leu Lys Arg Trp Lys Cys Ser Leu
 1 5 10 15

Asn Arg Phe Asp Arg Leu Ser Trp His Asp Ile Ala Ala Ala Lys Arg
 20 25 30

Asp Leu Lys Arg Ala Arg Ala Ala Gln Glu Cys Ala Ile Arg Arg Lys
 35 40 45

Arg Ile Ala Arg Leu Ser Ser Asn Met Gly Tyr
 50 55

<210> 4812
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4812

Met Phe Lys Phe Tyr Lys Arg Leu Phe Lys Arg Leu Arg Ser Pro Lys
 1 5 10 15

Leu Thr Ala Leu Asn Ala Asp Gln Leu Phe Arg Lys Ala Ser
 20 25 30

<210> 4813
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4813

Lys Tyr Arg Leu Ile Gln Arg Leu Met Lys Trp Leu Arg Lys Met Ala
 1 5 10 15

Leu Trp Pro Arg Lys Ala Lys Lys Tyr Ala Arg Ala Ala Thr Ile Pro
 20 25 30

Leu Lys

<210> 4814
 <211> 27
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4814

Arg Leu Lys Leu Tyr His Lys Leu Tyr Lys Leu Met Thr Arg Ala Lys
 1 5 10 15

Ala Ile Glu Ala Lys Ala Lys Gly Phe Trp Trp
 20 25

<210> 4815
 <211> 55
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4815

Leu Ile Lys Phe Leu Lys Lys Phe Ile Arg Lys Phe Arg Arg Trp Lys
 1 5 10 15

Glu Asp Arg Leu Ser His Asp Gly Leu Ala Met Arg Asp Thr Leu Thr
 20 25 30

Ala Asn Lys Ser Ala Ala Leu Ala Asp Leu Tyr Leu Lys Trp Arg Arg
 35 40 45

Arg Arg Ser Arg Leu Ala Ala
 50 55

<210> 4816

<211> 38

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4816

Trp Ile Arg Tyr Trp Lys Lys Leu Phe Arg Lys Leu Gln Lys Lys His
 1 5 10 15

Ile Gln Ala Met Glu Ala Trp Ala Ala Thr Met Leu Leu His Lys Lys
 20 25 30

Ala Ala Arg Cys Arg Ala
 35

<210> 4817

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4817

Phe Leu Arg Leu Phe Arg Lys Phe Ile Lys Arg Phe Pro Arg Thr Thr
 1 5 10 15

Met Ala Thr Leu Lys Ala Gln Leu Cys Lys Leu
 20 25

<210> 4818

<211> 76
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4818

Lys Leu Arg Met Leu Cys Lys Leu Trp Arg Met Ile Arg Ser Leu Gly
 1 5 10 15

Glu Ser Leu Leu Tyr Gly Lys Val Phe Lys Val Ala Arg Gln Ala Arg
 20 25 30

Gln Ala Val Gln Asp Arg Leu Asn Glu Asn Lys Lys Leu Leu Asp Arg
 35 40 45

Leu Thr Lys Trp Asp His Ala Val Ala Ala His Ala Pro Arg Arg Lys
 50 55 60

Arg Gln Phe Leu Lys Leu Lys Ala Asp Leu Val Leu
 65 70 75

<210> 4819
 <211> 83
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4819

Lys Leu Lys Leu Leu Arg Lys Phe Trp Arg Arg Phe His Lys Trp Arg
 1 5 10 15

Asn Ala Arg Arg Gly Ala Ala Val Leu Gln Thr Ser Tyr Arg Val Gln
 20 25 30

Ala Arg Met Asn Leu Gln Met Gln Cys Val Asn Met Ala Lys Lys Leu
 35 40 45

Ala Lys Thr Arg Ala Ala Lys Gly Arg Lys Ala Arg Thr Arg Thr Ala
 50 55 60

Met Cys Arg Phe Met Lys Ala Gly Met Leu Ala Ala Ile Ala Phe Met
 65 70 75 80

Ala Met Lys

<210> 4820

<211> 67

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4820

Lys Tyr Arg Leu Ile Arg Arg Leu Leu Lys Ile Leu Arg Ser Lys Ala
1 5 10 15

Phe Arg Leu Thr Arg Asp Ile Glu Val Tyr Met Arg Val Val Leu Leu
20 25 30

Ala Leu Pro Glu Lys Thr Lys Ile Lys Trp His Arg Ser Leu Val Cys
35 40 45

Ala Ala Gln Arg Arg Arg Lys Asp Leu Lys Leu His Asp Leu Ala Ala
50 55 60

Gln Cys Trp
65

<210> 4821

<211> 62

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4821

Phe Tyr Lys Leu Tyr Arg Arg Leu Met Lys Lys Phe Lys His Ala Glu
1 5 10 15

Lys Leu His Arg Lys Val Leu Lys Arg Trp Ala Pro His Ala Thr Asn
20 25 30

Ala Thr Asn Arg Asn Arg Met Ala Asn Lys Leu Leu Lys Gly Leu Arg
35 40 45

Ala Met Ala Gln Trp Ala Lys Arg Ala Lys Arg Gly Ile Lys

50

55

60

<210> 4822

<211> 69

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4822

Lys Ile Arg Phe Phe Lys Arg Trp Leu Arg Leu Phe Lys Arg Arg Asn
 1 5 10 15

Asn Ala Leu Met Arg Met Ala Ala Phe Arg Ala Ala Asp Ile Ile Gly
 20 25 30

Ala Leu Asp Ala Arg Ala Met Ala Met Arg Leu Lys Arg Arg Cys Arg
 35 40 45

Arg Lys Gln Ala Ser Met Thr Ile Met Arg Ser Arg Leu Ile Leu Asn
 50 55 60

Ala Asp Val Arg Leu
 65

<210> 4823

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4823

Phe Phe Arg Leu Met Arg Arg Leu Met Arg Tyr Met Lys Ser Leu Ala
 1 5 10 15

Pro Leu Ala Cys Met Glu Lys Arg Lys
 20 25

<210> 4824

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4824

Leu Leu Lys Phe Leu Arg Arg Phe Leu Arg Arg Phe Gln His Gln Pro
1 5 10 15

Ala Met Glu Leu Lys Asp Lys
20

<210> 4825

<211> 57

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4825

Lys Leu Lys Phe Leu Lys Lys Ile Ile Arg Ile Ile Pro Asn Met Lys
1 5 10 15

Leu Arg Glu Lys Ala Cys Gly Ala Arg Ile Ala Leu Lys Arg Lys His
20 25 30

Glu Val Arg Cys Ala Leu Arg Ala Ala Met Thr Leu Ala Ala Lys Phe
35 40 45

Met Pro Leu Val Lys Tyr Arg Ala Glu
50 55

<210> 4826

<211> 47

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4826

Lys Phe Arg Leu Ile Arg Arg Leu Leu Arg Leu Met Lys Gln Ile Val
1 5 10 15

Tyr Lys Leu Val Ala Gln Asn Leu Leu Met Asp Asp Glu Lys Trp Lys
20 25 30

Thr Arg Arg Leu Leu Asn Met Ala Ala Asn Arg Ala Cys Trp Arg
35 40 45

<210> 4827
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4827

Lys Ile Lys Phe Leu Arg Arg Phe Phe Arg Arg Leu Gln Ser Met Ala
 1 5 10 15

Gly Thr Ser Leu Leu Arg Ala Phe Leu Trp Ala Ala
 20 25

<210> 4828
 <211> 76
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4828

Lys Phe Arg Leu Met Arg Arg Phe Ile Arg Arg Leu Lys Arg Asn Phe
 1 5 10 15

Ala His Arg Ala Met Lys Gln Thr Cys Ser Lys Ala Leu Arg Ile Tyr
 20 25 30

Val Ala Cys Asp Tyr Ala Thr Ala Trp Ala Phe Tyr Ala Arg Gly Cys
 35 40 45

Ala Ala Met Pro Cys Thr Phe Ala Ala Arg Leu Ala Arg Arg Leu Glu
 50 55 60

Ala Arg Thr Leu Phe Leu Lys Leu Leu Leu Leu Met
 65 70 75

<210> 4829
 <211> 38
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4829

Leu Trp Lys Phe Leu Arg Arg Tyr Leu Arg Lys Ile Gln Lys Ile Lys
 1 5 10 15

Asn Glu Cys Leu Leu Ala Leu Ala Arg Trp Lys Asn Ala Phe Leu Phe
 20 25 30

Ala Arg Arg Arg Cys Met
 35

<210> 4830
 <211> 59
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4830

Arg Tyr Arg Leu Trp Cys Lys Leu Leu Lys Ile Tyr Cys Arg Tyr Asp
 1 5 10 15

Leu Gln Asn His Arg Asp Phe Met Leu Arg Ala Leu Ala Tyr Val His
 20 25 30

Ile Arg Ser Tyr Leu Leu Ala Leu Arg His Phe Arg Leu Leu Thr Ala
 35 40 45

Lys Ala Gln Ala Arg Lys Leu Arg Arg Tyr Met
 50 55

<210> 4831
 <211> 43
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4831

Arg Ile Lys Leu Leu Lys Arg Leu Phe Arg Arg Met Pro Lys Tyr Ala
 1 5 10 15

Ala Leu Pro Leu Val Glu Trp Lys Leu Asn Ala Asp Met Gly Leu Leu
 20 25 30

Lys Thr Lys Met Pro Arg Leu Pro Lys Gly Arg

35

40

<210> 4832

<211> 43

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4832

Trp Phe Lys Leu Phe Pro Arg Leu Phe Lys Lys Tyr Arg Gln Arg Phe
 1 5 10 15

Lys Ala His Leu Val Ser Arg Leu Lys Glu Arg Ala Asp Ala Arg Ala
 20 25 30

Pro Glu Arg Ala Ser His Lys Glu Lys Ser Leu
 35 40

<210> 4833

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4833

Leu Leu Lys Leu Phe Ser Lys Ile Leu Lys Tyr Phe Lys Arg Leu Lys
 1 5 10 15

Leu Leu Ala Glu Arg
 20

<210> 4834

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4834

Leu Leu Arg Phe Phe Lys Arg Leu Met Arg Arg Trp Thr Arg Arg Arg
 1 5 10 15

Leu Ala Lys Tyr Gly Ala Tyr Lys Thr Ala Asn Leu Pro Ala Arg Ala

20

25

30

Arg Val Cys
35

<210> 4835
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 4835

Ile Met Lys Leu Leu Arg Lys Tyr Trp Arg Arg Leu Arg Arg Gln Lys
1 5 10 15

Lys Ala Asp Leu Leu Glu Gln Leu Arg Lys Met His Leu Ala Ala Val
20 25 30

<210> 4836
<211> 26
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 4836

Leu Ile Lys Phe Leu Arg Lys Phe Met Lys Leu Trp Lys Pro Leu Tyr
1 5 10 15

Lys Lys Ala Lys Gly Ala Leu Ile Asp Lys
20 25

<210> 4837
<211> 61
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 4837

Leu Leu Arg Leu Met Ser Arg Tyr Phe Lys Leu Phe Arg Ser Ala Lys
1 5 10 15

Leu Ile Ile Ala Ala Leu Arg Lys Val Met Cys Arg Arg Lys Ala Pro

20

25

30

Arg Arg Val Lys Phe Ala Tyr Pro Asn Gln Gln Cys Pro Lys Leu Arg
 35 40 45

Cys Tyr Gly Ala Leu Gln Arg Lys Arg Glu Arg Asp Ala
 50 55 60

<210> 4838

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4838

Lys Leu Arg Tyr Phe Pro Arg Leu Leu Lys Lys Tyr Cys Cys Lys Asn
 1 5 10 15

Ala Leu His Ser Ser Lys Tyr Ala Arg Asp Leu Ile Leu
 20 25

<210> 4839

<211> 61

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4839

Arg Leu Arg Met Leu Ser Arg Met Met Arg Lys Trp Lys Gln Gly Trp
 1 5 10 15

Val Lys Ala Val Arg Gly Leu Leu Val Leu Asp Asp Lys Arg Lys Lys
 20 25 30

Trp Trp Lys Ala Ala Lys Leu Arg Leu Met Ala Arg Lys Phe Gly His
 35 40 45

Asn Asn Val Lys Leu Ala Val Arg Thr Ala Leu Thr Ile
 50 55 60

<210> 4840

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4840

Lys Leu Arg Leu Phe Lys Lys Ile Leu Lys Trp Phe Lys His Arg Arg
1 5 10 15

Arg Arg Leu Asn Leu Ala Pro Arg Glu Arg Gly Leu Phe Gln Ala Trp
20 25 30

Ala Ala Arg
35

<210> 4841

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4841

Lys Leu Lys Leu Tyr Arg Lys Tyr Tyr Lys Trp Leu Arg Ser Thr Ser
1 5 10 15

Asn Lys Leu Ala Trp Met Leu Arg
20

<210> 4842

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4842

Arg Leu Lys Ile Leu Lys Arg Phe Leu Lys Trp Leu Thr Arg Asn Gln
1 5 10 15

Asn Leu Ala Lys
20

<210> 4843

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4843

Lys Leu Arg Met Ile Gln Lys Leu Tyr Lys Lys Leu Arg Arg Phe Met
1 5 10 15

Ser Phe Tyr Ala Ala Ala Ala Trp
20

<210> 4844

<211> 44

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4844

Phe Leu Arg Phe Tyr Arg Arg Leu Phe Lys Lys Met Arg Ser Ala Ala
1 5 10 15

Arg Val Arg Ala Met Pro Leu Ala Thr Tyr Ala Tyr Arg Lys Leu Leu
20 25 30

Leu Pro Leu Lys Arg Ala Cys Asn Cys Lys Thr Lys
35 40

<210> 4845

<211> 47

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4845

Phe Phe Arg Phe Trp Ser Arg Trp Met Lys Arg Phe Cys Cys Lys Pro
1 5 10 15

Leu Tyr Ala Ser Ile Ala Arg Leu Leu Lys Arg Arg His Leu Thr Leu
20 25 30

Phe Thr Arg Ala Lys Phe Leu Leu Lys Arg Lys Asp Leu Lys Ile
35 40 45

<210> 4846
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4846

Lys Leu Lys Ile Phe Arg Arg Phe Leu Lys Arg Leu Lys Pro Ser Arg
 1 5 10 15

Lys Leu Leu Trp Met Glu Leu Leu Cys Lys Leu Gln Cys Leu Cys Tyr
 20 25 30

Met Ala Val Ala Met Ala Lys Gln
 35 40

<210> 4847
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4847

Lys Trp Arg Phe Met Cys Arg Trp Leu Lys Arg Leu Thr Arg His Ser
 1 5 10 15

Ala His Phe Leu Leu Cys Leu Lys Gln Lys Ser Lys Ala Lys
 20 25 30

<210> 4848
 <211> 50
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4848

Leu Tyr Arg Ile Leu Lys Arg Leu Leu Arg Lys Phe Lys Gln Lys Arg
 1 5 10 15

Ala Lys Arg Ile His Arg Leu Val Ala Lys Ile Asp Leu Pro Lys Met
 20 25 30

Leu Ile Ala Asn Glu Tyr Ile Leu Tyr Ile Thr Glu His Val Lys Leu
 35 40 45

Ala Leu
 50

<210> 4849
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4849

Leu Leu Arg Ile Phe Gln Arg Leu Ile Lys Arg Tyr Lys Lys Ile Lys
 1 5 10 15

Gly Lys Gly Ala Asp Leu Ala Lys His Leu Leu Leu Ser Pro Arg Ser
 20 25 30

Trp Gly

<210> 4850
 <211> 47
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4850

Arg Met Arg Phe Tyr Arg Arg Phe Trp Arg Arg Leu Arg Thr Asn Asp
 1 5 10 15

Lys Ala Ala Thr Ala Lys Lys Ala Met Arg Trp Lys Ile Gly Arg Leu
 20 25 30

Asn Lys Gly Ser Ala Leu Lys Ala Ala Asp Leu Leu Val Ala Met
 35 40 45

<210> 4851
 <211> 49
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4851

Lys Trp Lys Leu Phe Gln Arg Phe Leu Lys Lys Phe Lys Lys Lys Lys
 1 5 10 15

Ser Ala Ser Glu Leu Lys Pro Ala Ala Ser Phe Ala Ser Lys Cys Ala
 20 25 30

Phe His Ser Lys Arg Leu Glu Gly Leu Leu Leu Phe Leu Gly Lys Arg
 35 40 45

Ala

<210> 4852

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4852

Leu Leu Arg Phe Ile Thr Arg Phe Ile Lys Arg Met Lys Asn Met Pro
 1 5 10 15

Glu Gly Lys Arg Leu Ala Lys Leu Leu Thr Lys Glu Leu
 20 25

<210> 4853

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4853

Arg Phe Lys Met Leu Pro Arg Leu Trp Lys Lys Phe Arg Arg Pro Cys
 1 5 10 15

Ser Ile Leu Lys Tyr Leu Val Lys Ala Leu Gln Leu Leu Lys Leu Glu
 20 25 30

Arg Asn

<210> 4854
 <211> 68
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4854

Lys Met Arg Phe Phe Arg Arg Leu Phe Arg Lys Ile Cys Arg Lys Ser
 1 5 10 15

Pro Ala Arg Arg Ala Arg Trp Trp Asp Ile Lys Lys Arg Lys Lys Phe
 20 25 30

Lys Lys Ala Ala Leu Leu Lys Ala Ala Arg Leu Ile Val Pro Ala Asp
 35 40 45

Lys Asn Lys Ala Lys Pro Pro His Ala Ala Ala Ala Arg His His Ala
 50 55 60

Arg Ala Ala Cys
 65

<210> 4855
 <211> 26
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4855

Ile Met Arg Phe Leu Arg Arg Leu Leu Lys Phe Phe Ser Arg Lys Leu
 1 5 10 15

Ser Leu Arg Arg Arg Arg Val Ala Ala Ala
 20 25

<210> 4856
 <211> 31
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4856

Tyr	Met	Lys	Phe	Phe	Lys	Lys	Leu	Phe	Lys	Lys	Ile	Lys	Lys	Trp	Thr
1				5					10					15	

Leu	Arg	Arg	Ala	Arg	Ala	Asp	Leu	Leu	Tyr	Ser	Ala	Lys	Ser	Leu
			20				25						30	

<210> 4857

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4857

Trp	Met	Lys	Ile	Leu	Lys	Arg	Tyr	Phe	Lys	Met	Leu	Lys	Ser	Lys	Arg
1				5					10					15	

Leu	Ala	Lys	Tyr	Lys	Ala	Ala	Gly	Leu	Cys	Lys	Tyr	Met	Ser	Ala	Arg
			20					25					30		

<210> 4858

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4858

Leu	Leu	Arg	Leu	Ile	Lys	Lys	Tyr	Phe	Arg	Arg	Leu	Ser	Arg	Asn	Glu
1				5					10					15	

Leu	Ala	Gly	Asp	Ala	Tyr
			20		

<210> 4859

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4859

Trp Ile Arg Leu Leu Thr Arg Phe Leu Arg Phe Met Arg Cys Ala Lys

1 5 10 15

Asn Arg Tyr Ala Ala Pro Ser Leu Ala Lys Arg Leu Asn Leu Pro Val
20 25 30

Trp Ala Arg Arg Glu Lys Leu Gln
35 40

<210> 4860

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4860

Arg Leu Arg Leu Ile Thr Lys Phe Leu Lys Lys Tyr Ser Arg Leu Cys
1 5 10 15

Leu Phe Ala Ile Trp Ala Ala Tyr Arg Asn
20 25

<210> 4861

<211> 80

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4861

Met Tyr Arg Leu Leu Lys Lys Met Phe Lys Lys Phe Pro Arg Pro Arg
1 5 10 15

Gly Lys Asp Phe Arg Leu Lys Cys Leu Thr Leu Arg His Arg Leu Pro
20 25 30

Ser Phe Gly Tyr Gly Ala Arg Asn Gln Lys Leu Gly Arg Ala Pro Ala
35 40 45

Lys His Leu Ser Arg Ser Lys Arg Lys Lys Val Cys Arg Lys Pro Pro
50 55 60

Leu Thr Lys Arg Cys Ala Ala Ala Gly Leu Trp Leu Lys Asp Ala Thr
65 70 75 80

<210> 4862
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4862

Arg Leu Arg Ile Phe Thr Lys Leu Ile Arg Arg Phe His Ser Leu Pro
 1 5 10 15

Ala Phe Arg Ala
 20

<210> 4863
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4863

Trp Ile Lys Phe Phe Lys Lys Ile Tyr Lys Leu Tyr Lys Arg Glu Arg
 1 5 10 15

Ala Trp Ala Gln Ala Leu Leu Thr Leu Arg Lys Phe Thr
 20 25

<210> 4864
 <211> 31
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4864

Tyr Leu Lys Leu Ile His Lys Leu Leu Lys Lys Phe His Arg Val Val
 1 5 10 15

Arg Ala Arg Phe Met Gly Ala Ser Leu Arg Asp Lys Leu Ala Ala
 20 25 30

<210> 4865
 <211> 70
 <212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4865

Leu Leu Lys Leu Leu Asn Lys Phe Phe Lys Phe Tyr His Lys Arg Arg
1 5 10 15

Leu Arg Leu Thr Ala Arg Val Arg Trp Val Leu Lys Ala Ala Pro Arg
20 25 30

Lys Glu Gly Ser Arg Cys Arg Pro Gln Asp Lys Ala Lys Gln Arg Leu
35 40 45

Pro Cys Ile Asn Leu Val His Arg Gln Arg Tyr Arg Gly Lys Lys Lys
50 55 60

Ala Tyr Ala Asn Leu Glu
65 70

<210> 4866

<211> 53

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4866

Arg Phe Lys Leu Leu Thr Arg Leu Trp Arg Ile Met Lys Lys Leu Glu
1 5 10 15

Gln Arg Ile Arg Met Lys Ala Trp Gly Arg Ala Leu Lys Asn Arg Asn
20 25 30

Ser Ser Leu His Trp Lys Asp Arg Leu His Ala Leu Arg Ala Asn Ala
35 40 45

Arg Phe Lys Arg Val
50

<210> 4867

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4867

Lys	Leu	Lys	Tyr	Leu	Lys	Lys	Phe	Met	Arg	Leu	Leu	Arg	Cys	Ala	Pro
1				5					10					15	

Gly	Lys	Arg	Lys	Asp	Ala	Arg	Val	Ile	Tyr	Val	His	Arg	Met	Ala	Ile
			20					25					30		

Tyr	Leu	Ala	Met
			35

<210> 4868

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4868

Met	Leu	Lys	Leu	Leu	Lys	Lys	Phe	Tyr	Arg	Trp	Leu	His	Cys	Gly	Arg
1				5					10					15	

Ser	Arg	Arg	His	Ile	Trp	Leu	Gln	Arg	Leu	Thr	Ala	Leu	Ala
			20					25					30

<210> 4869

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4869

Lys	Tyr	Lys	Leu	Leu	Lys	Lys	Phe	Tyr	Lys	Arg	Ile	Arg	Lys	Thr	Asn
1				5					10					15	

Trp	Ala	His	Ala	Arg	Lys	Leu	Tyr	Gln	Ile	Lys	Glu	Leu	Gly	Ala	Leu
			20					25					30		

Leu	His	Ala	Leu	Trp	Ile	Leu	Leu
			35				40

<210> 4870

<211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4870

Lys Leu Arg Tyr Phe Lys Arg Met Met Lys Met Ile Arg Thr Arg Trp
 1 5 10 15

Met Lys Arg Leu Lys Asp Arg Pro Val Ile Tyr Ala Ala Leu Ala Leu
 20 25 30

Ser Tyr Leu Arg Ser Leu Glu Leu
 35 40

<210> 4871
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4871

Arg Leu Lys Ile Met Pro Lys Leu Leu Lys Phe Phe Arg Lys Leu Asn
 1 5 10 15

Gly Cys Arg Ser Ala
 20

<210> 4872
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4872

Lys Leu Arg Phe Leu Arg Arg Phe Tyr Lys Trp Leu Gln Gln Leu Ala
 1 5 10 15

Leu Leu Phe Pro Arg Lys Met Arg His Leu Met Thr Ile
 20 25

<210> 4873

<211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4873

Met Phe Arg Ile Leu Arg Lys Leu Met Lys Leu Leu Lys Arg Phe Asn
 1 5 10 15

Asp Ser Gly Ala Asp Lys Arg Leu Asp Arg Pro Ala Phe Ser Leu Arg
 20 25 30

Lys Asn Leu
 35

<210> 4874
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4874

Lys Leu Arg Leu Leu Lys Arg Met Phe Arg Leu Tyr Arg Gln Leu Asn
 1 5 10 15

Lys Phe Gly Gln Tyr Val Ala
 20

<210> 4875
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4875

Arg Phe Arg Phe Met Arg Lys Ile Trp Arg Leu Leu Thr His Ala Lys
 1 5 10 15

Leu Ile Met Ala Ala Tyr Ala Lys Lys
 20 25

<210> 4876

<211> 96
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4876

Lys Leu Lys Leu Phe Pro Arg Ile Trp Lys Trp Ile Arg Arg Leu Ala
 1 5 10 15

His Ala Tyr Ala Leu Ala Ala Ile Ala Met Lys Ala Leu Pro Met Arg
 20 25 30

Ala Leu Cys Leu Thr Ser Phe Ala Leu Arg Lys Leu Ala Pro Val Ala
 35 40 45

Ser Lys Arg Gly Arg Ser Tyr Leu Tyr His Arg Leu Gln Ala Asn Arg
 50 55 60

Leu Tyr Phe Lys Arg Leu Ser Ala Leu Val Trp Arg Lys Arg Gln Trp
 65 70 75 80

Lys Thr Lys Lys Val Trp Ala Ala Ala Leu Leu Lys Asn Asp Glu Arg
 85 90 95

<210> 4877
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4877

Lys Leu Lys Phe Leu Thr Lys Phe Leu Lys Lys Leu Thr Lys Leu Cys
 1 5 10 15

Lys Leu Asp Leu Ala Leu Asp Val Ser Tyr Ala Gln Lys Arg Cys Ala
 20 25 30

Ala Phe Tyr Asn
 35

<210> 4878
 <211> 49
 <212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4878

Leu Phe Arg Leu Met Pro Lys Trp Leu Arg Arg Leu Gln Asn Trp His
1 5 10 15

Ala Ala Lys Arg Arg Lys Leu Ser Ile Glu His Arg Asn Trp Tyr Leu
20 25 30

Arg Gly Leu Leu Arg Ala Tyr Leu Ala Phe Thr Trp Trp Leu Glu Lys
35 40 45

Arg

<210> 4879

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4879

Trp Phe Arg Leu Leu Arg Lys Met Leu Arg Phe Phe Gln Arg Phe Ser
1 5 10 15

Arg Arg Ala Ser Ala Leu Gln
20

<210> 4880

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4880

Phe Met Arg Met Phe Lys Lys Met Leu Lys Leu Leu Lys Thr Met Lys
1 5 10 15

Met Leu Glu Ala His Leu Lys Leu Leu Lys His Arg
20 25

<210> 4881
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4881

Lys Leu Arg Met Leu Asn Lys Phe Ile Arg Trp Phe Thr Thr Arg Arg
 1 5 10 15

His Ala Ala Arg Leu Leu Leu Arg Glu
 20 25

<210> 4882
 <211> 47
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4882

Ile Met Arg Leu Leu Lys Arg Leu Ile Arg Arg Leu Asn Arg Leu Ala
 1 5 10 15

Val His Lys Ser Pro Asn Ala Ala Leu Lys Lys Arg Leu Cys Leu Phe
 20 25 30

Lys Trp Gln Lys Ala Lys Trp Pro Thr Thr Met Ser Leu Arg Ala
 35 40 45

<210> 4883
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4883

Leu Ile Lys Trp Met Arg Arg Met Trp Lys Arg Leu Cys Lys Tyr Arg
 1 5 10 15

Leu Arg Ala Ala Lys Leu Lys Cys Ser Leu Phe Cys Tyr Lys Asp Val
 20 25 30

Leu Leu Ala
35

<210> 4884
<211> 53
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 4884

Lys Trp Lys Tyr Phe Ser Lys Trp Met Arg Lys Phe His Pro His Leu
1 5 10 15

Ser Lys Leu Ala Leu Ile Leu Ala Ala Met Ile Val Leu Pro Lys Leu
20 25 30

Lys Arg Leu Lys Glu Leu Met Phe Pro Arg Lys Arg Ala Lys Tyr Glu
35 40 45

Lys Lys Leu Leu Lys
50

<210> 4885
<211> 34
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 4885

Lys Tyr Arg Leu Leu Arg Arg Leu Phe Lys Met Leu Arg Arg Ala Ala
1 5 10 15

Ala Gly Leu Lys Arg Ser Lys Ile Thr Cys Pro Glu Ala Gly Ala Arg
20 25 30

Tyr Asn

<210> 4886
<211> 30
<212> PRT
<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4886

Arg	Phe	Arg	Leu	Tyr	Arg	Arg	Ile	Trp	Lys	Arg	Leu	Asn	Lys	Arg	Lys
1				5					10					15	

Leu	Ala	Met	Gly	Lys	Val	Ala	Ala	Leu	Thr	Met	Asn	Asn	Leu
			20					25					30

<210> 4887

<211> 67

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4887

Lys	Leu	Arg	Trp	Trp	Lys	Arg	Met	Leu	Arg	Leu	Leu	Arg	Lys	Pro	Ile
1				5				10						15	

Asn	Glu	Lys	Val	Ala	Ala	Leu	Arg	Lys	Asn	Cys	Trp	Arg	Tyr	Tyr	Leu
			20					25					30		

Val	His	Lys	Asn	Arg	Lys	Leu	Ala	Arg	Lys	Asn	Lys	Arg	Gln	Trp	Leu
		35					40					45			

Lys	Tyr	Arg	Leu	Met	Trp	Arg	Leu	Gly	Tyr	Met	Leu	Leu	Leu	Met	Lys
	50					55					60				

Lys	Val	Leu
65		

<210> 4888

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4888

Ile	Leu	Lys	Phe	Met	Arg	Lys	Leu	Tyr	Arg	Lys	Phe	Ser	Lys	Arg	Val
1				5					10					15	

Ala	Leu	Val	Thr	Arg	Leu	Phe	Ala
-----	-----	-----	-----	-----	-----	-----	-----

20

<210> 4889
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4889

Lys Tyr Arg Ile Leu Thr Arg Leu Phe Lys Arg Leu Arg Lys Leu Ala
 1 5 10 15

Ala Ser Cys Ile Ala Ser Ile Tyr Arg Tyr Phe Ala Lys Thr Lys Arg
 20 25 30

Thr

<210> 4890
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4890

Met Leu Arg Tyr Phe Cys Arg Leu Met Lys Arg Leu Gln Arg Leu Arg
 1 5 10 15

Pro Gly Phe Ile Leu Ala Arg Val Lys Gln Ile Arg Ala Met Gln Ala
 20 25 30

Ala Ala Lys Leu Cys Lys Arg Thr
 35 40

<210> 4891
 <211> 61
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4891

Tyr Leu Arg Met Tyr Arg Arg Leu Ile Arg Lys Leu Gln Lys Pro Lys

1					5					10					15				
Arg	Glu	Leu	Trp	Ala	Met	Glu	Arg	Val	Arg	Val	Thr	Phe	Glu	Val	Ala				
			20							25				30					
Arg	Leu	Trp	Gln	Lys	Leu	Ala	Lys	Cys	Tyr	Gly	Leu	Leu	His	Leu	Leu				
		35					40					45							
Leu	Leu	Thr	Ala	Arg	Leu	Ala	Leu	Pro	Gly	Cys	Tyr	Lys							
50						55					60								

<210>	4892
<211>	35
<212>	PRT
<213>	Artificial Sequence
<220>	
<223>	Computer-generated peptide variant
<400>	4892

Arg Leu Lys Tyr Leu Arg Lys Phe Leu Lys Lys Ile Arg Arg Glu Leu
1 5 10 15

Arg Ile Leu Asp Met Ala Ile Leu Lys Glu Ile Lys Thr Cys Leu Leu
20 25 30

Val Arg Ala
35

<210>	4893
<211>	37
<212>	PRT
<213>	Artificial Sequence
<220>	
<223>	Computer-generated peptide variant
<400>	4893

Tyr Tyr Arg Leu Leu Thr Lys Tyr Phe Lys Leu Tyr Lys Lys Ala Ala
1 5 10 15

Ala Ala Glu Ala Arg His Thr Leu Leu Thr Lys Arg Tyr Lys Met Lys
20 25 30

Ala Gly His Ala Leu
35

<210> 4894
 <211> 45
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4894

Arg Leu Arg Leu Phe Arg Lys Leu Phe Lys Leu Trp Arg Lys Lys Ser
 1 5 10 15

Leu Gln Arg Val Ala Lys Leu Ala Arg Gly Leu Asn Leu Lys Val Trp
 20 25 30

Arg Ala Trp Ala Lys Leu Arg Arg Trp Ala Tyr His Arg
 35 40 45

<210> 4895
 <211> 61
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4895

Lys Ile Lys Trp Tyr Lys Lys Tyr Ile Arg Ile Leu Pro Lys Lys Asn
 1 5 10 15

Glu Arg Arg Val Arg Lys Cys Ala Arg Val Met Ala Ala Ala Asn Ala
 20 25 30

Leu Arg Gln Leu Ala Leu Lys Asn Ala Lys Lys Ile Ala Leu Gly Lys
 35 40 45

Phe Tyr Trp Lys Ala Ser Ala Arg Thr Arg Leu Val Tyr
 50 55 60

<210> 4896
 <211> 59
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4896

Arg Ile Lys Ile Leu Gln Arg Leu Phe Lys Arg Leu Arg Lys Leu Cys
 1 5 10 15

Phe Ala Leu Ala Thr Arg Cys Phe Arg Arg Pro Gln Thr Leu Ala Met
 20 25 30

Gln Val Leu Arg Leu Leu Ala Lys His Lys Phe Tyr Thr Arg Ala Ile
 35 40 45

Val Ala Ala Glu Asp Asp Lys Lys Tyr Ala Arg
 50 55

<210> 4897

<211> 53

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4897

Arg Ile Arg Phe Met His Arg Leu Leu Lys Phe Leu Arg Lys Ala Leu
 1 5 10 15

Ser Tyr Lys Asn Cys Arg Lys Arg Arg Gly His Thr Ala Lys Val Lys
 20 25 30

Glu Lys Leu Ile Met Ser Ser Trp Lys Lys Asn Leu Val Pro Gln Ala
 35 40 45

Lys Leu Leu Leu Ala
 50

<210> 4898

<211> 44

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4898

Leu Leu Arg Trp Ile Gln Arg Leu Tyr Arg Ile Tyr Arg Ser Lys Ala
 1 5 10 15

Lys Lys Ala Thr Ala His Glu Ile Lys Lys Leu Asp Ile Leu Arg Lys

20

25

30

Ala Arg Trp Leu Leu Arg Gly Ala Phe Cys Lys Arg
 35 40

<210> 4899

<211> 45

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4899

Leu Tyr Lys Ile Leu Ser Arg Phe Ile Arg Trp Trp Ser His Arg Leu
 1 5 10 15

Leu Ala Ile Lys Ala Ala Leu Pro Ala Leu Arg Arg Ile Arg Ser Ala
 20 25 30

Cys Thr Ala Phe Glu Lys Leu Ala Arg Ala Arg Lys His
 35 40 45

<210> 4900

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4900

Arg Phe Lys Leu Leu Lys Arg Leu Leu Lys Tyr Phe Pro His Met Ala
 1 5 10 15

Ala Lys Thr Ala Lys Glu Thr Gln Phe Leu Lys Ser Ala Ile Arg Leu
 20 25 30

Met Arg

<210> 4901

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4901

Tyr Leu Arg Leu Phe Arg Arg Leu Met Arg Lys Phe Lys Lys Leu Gly
1 5 10 15

Ala Leu Lys Gly Cys Tyr Ala Arg Leu
20 25

<210> 4902

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4902

Ile Leu Lys Phe Leu Cys Arg Leu Phe Arg Arg Tyr His Gln Ala Lys
1 5 10 15

Ala Arg Lys Lys Thr Arg Ser Leu Trp Leu Trp Asn
20 25

<210> 4903

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4903

Tyr Leu Arg Phe Ile Lys Lys Leu Leu Arg Arg Phe Thr Gln Trp Arg
1 5 10 15

Val Phe Leu Leu Ala Cys Lys Lys Arg Asp Ile Met Ala
20 25

<210> 4904

<211> 38

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4904

Tyr Leu Arg Ile Trp Arg Lys Met Leu Arg Lys Tyr Lys Lys Ala Tyr


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1             5              10              15

Ala Ala Asp Leu Leu Ile Arg Asn His Lys Met Gln Trp Pro Lys Leu
      20                     25                      30

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Arg Gln Ile Glu Ala Ala
35

<210>	4905
<211>	70
<212>	PRT
<213>	Artificial Sequence

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<220>  
<223> Computer-generated peptide variant
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<400> 4905

Arg Ile Arg Leu Phe Arg Arg Phe Tyr Arg Arg Leu Arg Gln Ala Arg
1 5 10 15

Lys Met Ala Thr Arg Leu Lys Arg Ile Ala Leu Leu Lys Asn Ala Gly
20 25 30

Gln Leu Pro Ser Gln Lys Lys Ala Ala Arg Ala Lys Leu Pro Leu Ala
35 40 45

Leu Val Met Arg Asp Cys His Ala Cys Ala Leu Asn Arg Thr Arg Thr
50 55 60

Cys Met Lys Asn Gly Met
65 70

<210>	4906
<211>	24
<212>	PRT
<213>	Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 4906

Lys Phe Lys Leu Leu Lys Lys Phe Tyr Arg Arg Leu Lys Asn Arg Pro
1 5 10 15

Leu His Ala Val Thr Val Thr Leu
20

<210> 4907
 <211> 52
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4907

Leu Phe Lys Leu Met Lys Lys Met Met Lys Arg Leu Arg Cys Cys Gly
 1 5 10 15

Asp Ala Pro Glu Leu Cys Arg Leu Arg Thr Ala Leu Met Trp Leu Arg
 20 25 30

Lys Ala Lys Thr Ile Lys Asn Asp Phe Arg Leu Cys Leu Val Arg Leu
 35 40 45

Ala Tyr Lys Arg
 50

<210> 4908
 <211> 38
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4908

Trp Ile Lys Phe Leu Arg Arg Leu Leu Lys Tyr Leu Lys Lys Leu Lys
 1 5 10 15

Ser Ile Ala Tyr Phe Lys Leu Pro Ala Lys Trp Gly Ala Ile Lys Arg
 20 25 30

Ile Glu Pro His Thr Ala
 35

<210> 4909
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4909

Trp Phe Arg Tyr Leu Arg Arg Leu Phe Arg Arg Leu Lys Lys Lys Ala
 1 5 10 15

Leu Trp Phe Arg Ile Ile Leu Ala
 20

<210> 4910

<211> 68

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4910

Lys Met Arg Leu Ile Lys Lys Leu Leu Lys Arg Phe Arg Lys Thr Arg
 1 5 10 15

Arg Ala Leu Leu Gln Ala Asn Leu Ile Leu Cys Gly Ala Gly Ala Leu
 20 25 30

Thr Asn Leu Arg Phe Asn Lys Asn Lys His Val Leu Val Asp Arg Phe
 35 40 45

Ala Gln Pro Arg Glu Ile Lys Lys Ala Thr Leu Ala Ala Ala Gln His
 50 55 60

Thr Gln Ala Leu
 65

<210> 4911

<211> 43

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4911

Lys Phe Arg Phe Leu Arg Lys Leu Tyr Arg Lys Ile His Lys Ala Ile
 1 5 10 15

Cys Lys Leu Lys Pro Lys Ala Ala Pro Glu Gly Asp His Lys Leu Ala
 20 25 30

Trp Lys Ala Pro Met Gly Ala Cys Leu Arg Lys

35

40

<210> 4912
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4912

Leu Leu Arg Leu Ile Lys Arg Phe Ile Arg Arg Leu Lys Lys Pro Gly
 1 5 10 15

Asp Cys Lys Lys Ala Ile Pro Ala Pro Leu Leu Pro Glu Thr Lys Arg
 20 25 30

<210> 4913
 <211> 37
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4913

Lys Phe Arg Leu Leu Arg Lys Met Leu Lys Met Tyr Arg Arg Tyr Asp
 1 5 10 15

His Ala Leu Arg Ala Arg Val Arg Arg Val Cys Ser His Leu Leu Pro
 20 25 30

Ala Leu Met Lys Asn
 35

<210> 4914
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4914

Phe Leu Arg Leu Leu Gln Lys Tyr Tyr Lys Met Leu Arg Lys Lys Arg
 1 5 10 15

Thr Asn Cys Arg Ile Gly Leu Phe Leu Ala Tyr Lys Arg Ala

20

25

30

<210> 4915

<211> 45

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4915

Arg	Leu	Arg	Tyr	Leu	Arg	Lys	Leu	Leu	Lys	Ile	Leu	Arg	Lys	His	Leu
1				5					10					15	

Tyr	Met	Trp	Ile	His	Ser	His	Leu	Leu	Lys	Lys	Gln	Glu	Ile	Ala	Lys
			20					25					30		

Asn	Tyr	Leu	Leu	Ala	Gly	His	Leu	Pro	Lys	Arg	His	Pro
		35					40					45

<210> 4916

<211> 37

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4916

Trp	Met	Arg	Leu	Ile	Pro	Arg	Leu	Leu	Arg	Trp	Phe	Lys	Cys	Pro	Asp
1			5						10					15	

Val	His	Ser	Arg	Leu	Asp	Lys	Leu	Asn	Gln	Leu	Leu	Leu	Leu	Lys	Ala
			20					25					30		

Lys	Ile	Arg	Ala	Lys
			35	

<210> 4917

<211> 46

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4917

Leu	Phe	Arg	Leu	Ile	Arg	Lys	Trp	Leu	Lys	Trp	Met	Lys	Lys	Lys	Thr
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

1 5 10 15

Lys Leu Asp Leu Leu Thr Leu Thr Ser Lys Trp Lys Arg Ser Ala Tyr
20 25 30

Pro Leu Lys Ala Glu Tyr Ala Arg Thr Leu Leu Pro Arg Arg
35 40 45

<210>	4918
<211>	38
<212>	PRT
<213>	Artificial Sequence

```
<220>
<223> Computer-generated peptide variant
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<400> 4918

Phe Leu Arg Trp Leu Arg Arg Leu Met Lys Lys Tyr Thr Arg Phe Asn
1 5 10 15

Ile Lys Gln Lys Phe Arg Lys Tyr Asp Leu Ala Lys Glu Leu Tyr Met
20 25 30

Ala Lys Ala Val Ala Pro
35

<210>	4919
<211>	20
<212>	PRT
<213>	Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 4919

Ile Leu Lys Tyr Ile Lys Lys Phe Phe Lys Trp Leu Lys Arg Pro Ala
1 5 10 15

Ala Ala Thr Pro
20

<210>	4920
<211>	87
<212>	PRT
<213>	Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 4920

Leu Tyr Arg Leu Leu Lys Arg Ile Phe Arg Lys Leu Arg Arg Asp Leu
 1 5 10 15

Lys Tyr Lys Arg Thr Phe Asp Arg Arg Lys Leu Lys Leu Gln Arg Met
 20 25 30

Arg Asp Arg Lys Arg Ile Leu Leu Asn Asp Lys Ser His Lys Val Gln
 35 40 45

Cys Asn Thr Val Leu His Glu Thr Leu Leu Tyr Lys Leu Ala Tyr Arg
 50 55 60

Lys Ala Leu Glu Leu Arg Leu His Met Ala Thr Lys Ile Pro Ala Lys
 65 70 75 80

Gln Phe Thr Gln Pro Lys His
 85

<210> 4921

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4921

Leu Met Arg Trp Phe His Arg Leu Met Arg Leu Leu Lys His Arg Cys
 1 5 10 15

Lys Lys Leu Leu Cys Arg Ile Leu Arg Asn Phe Leu Lys Gly
 20 25 30

<210> 4922

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4922

Arg Tyr Lys Leu Trp Lys Lys Ile Trp Lys Leu Leu Lys Thr Lys Phe
 1 5 10 15

Arg His Lys Leu Met Val Asp Leu Arg Leu Leu Leu
20 25

```
<210> 4923
<211> 27
<212> PRT
<213> Artificial Sequence
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<220>
<223> Computer-generated peptide variant

<400> 4923

Leu Trp Lys Leu Met Gln Lys Leu Phe Arg Met Tyr Thr Lys Val Arg
1 5 10 15

Leu Ile Arg Ala Ala Glu Ala Lys Gln Phe Leu
20 25

```
<210> 4924
<211> 21
<212> PRT
<213> Artificial Sequence
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<220>
<223> Computer-generated peptide variant

<400> 4924

Arg Leu Lys Phe Leu Asn Arg Met Met Lys Lys Phe Arg Gln Leu Tyr
1 5 10 15

Lys Val Cys Leu Leu
20

<210>	4925
<211>	96
<212>	PRT
<213>	Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 4925

Phe Met Arg Phe Leu Lys Arg Phe Phe Arg Lys Ile Asn Ser Gly Tyr
1 5 10 15

Leu Arg Ala Leu Ala Ala Ala Glu Ala Lys Pro Ile Leu Thr His Asp
20 25 30

Arg Asn Ile Lys Arg Asp Cys Leu Lys Leu Ala Asn Gly Leu Lys Leu
 35 40 45

Ile Arg Glu Ala Asp Thr Arg Val Lys Leu Pro Ser Val Leu Leu Trp
 50 55 60

Val Arg Cys Lys Pro Ala Lys Leu Ala Lys Ala Leu Ala Pro His Leu
 65 70 75 80

Gln Leu Gln Lys Ile Arg Cys Trp Lys Glu Leu Lys Lys Leu Pro Leu
 85 90 95

<210> 4926

<211> 43

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4926

Ile Phe Lys Trp Leu Lys Arg Tyr Leu Arg Arg Leu Arg His Tyr Ala
 1 5 10 15

Gly Ser Arg Met Arg Ala Lys Leu Arg Ile Met Leu Lys Pro Ser Thr
 20 25 30

Phe Asn Leu His Lys Asn Arg Arg Ala Ala Thr
 35 40

<210> 4927

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4927

Lys Leu Lys Trp Trp Pro Lys Phe Leu Arg Lys Tyr Lys Lys Ala Trp
 1 5 10 15

Glu Arg Ala His Arg Ala Leu Arg Pro Gln Ala Leu Met Pro Leu Gln
 20 25 30

Arg

<210> 4928
 <211> 78
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4928

Arg Tyr Lys Phe Trp Ser Lys Leu Tyr Lys Leu Phe Arg Arg Arg Leu
 1 5 10 15

Ala Leu Ala Lys Arg Lys Gln Leu Tyr Gly Gln Ala Thr Phe Pro Ala
 20 25 30

Ala Gly Thr Ala Leu Tyr Lys His Arg Lys Ile Arg Gln Arg Lys Gly
 35 40 45

Lys Leu Arg Ala Phe Tyr Ala Leu Ala Tyr Arg Asp Arg Arg Asp Gly
 50 55 60

Arg Ala Asn Ala Lys Ser Gln Ala Ala Cys Ala Leu Lys Pro
 65 70 75

<210> 4929
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4929

Lys Ile Lys Leu Leu Ser Lys Leu Leu Lys Leu Ile Arg Arg Gln Gly
 1 5 10 15

Asp Leu Arg Asn Leu Leu Asn Lys Asn
 20 25

<210> 4930
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4930

Lys Leu Arg Leu Trp Lys Arg Met Leu Lys Arg Leu Arg Arg Phe Thr
 1 5 10 15

Cys Lys Lys Leu Asp Val Ser Met Ala Tyr Met Leu Val Leu Arg Leu
 20 25 30

Gln Lys Thr Glu
 35

<210> 4931

<211> 63

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4931

Arg Trp Arg Tyr Leu Lys Lys Leu Phe Lys Lys Leu Pro Asn Leu Arg
 1 5 10 15

Arg Cys Lys Arg Leu Arg Leu Ala Cys Ile Asp His Leu Leu Arg Arg
 20 25 30

Ser Ala Arg Arg Phe Arg Gln Ala Lys Phe Arg Asn Pro Arg Leu Gln
 35 40 45

Trp Lys Met Gln Phe Val Cys Glu Ala Leu Asp Val Leu Gly Arg
 50 55 60

<210> 4932

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4932

Phe Leu Arg Tyr Tyr Arg Arg Met Met Arg Phe Leu Thr Lys Lys Leu
 1 5 10 15

Thr Leu Glu Arg Asp Ala Leu
 20

<210> 4933
 <211> 89
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4933

Lys Leu Arg Ile Phe Arg Arg Leu Ile Arg Leu Phe Arg Arg Arg Gly
 1 5 10 15

Gln Arg Leu His Ala Asp Leu Thr Lys Leu Ser Gly Pro Asp Ala Ala
 20 25 30

Gln Cys Met Ala Pro Ile Arg Ala Ala Lys Arg Cys Gln Leu Leu Lys
 35 40 45

Trp Ala Ile Arg Leu Lys Gln Trp Arg Pro Gly Lys Lys Cys Leu Trp
 50 55 60

Leu Thr Pro Phe Ala Arg Arg His Ala Leu Ala Val Arg Pro Arg Arg
 65 70 75 80

Leu His Ser Lys Gly Lys Ala Lys Leu
 85

<210> 4934
 <211> 56
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4934

Trp Leu Arg Leu Ile Arg Arg Tyr Leu Arg Leu Trp Lys Arg Lys Ala
 1 5 10 15

Val Lys Val Arg Phe His Leu Ser Thr Pro Trp Pro Ala Leu Asp Lys
 20 25 30

Thr Thr Thr Ala Arg Leu Ala Thr Arg Arg Lys Asp Glu Ala Lys Thr
 35 40 45

Val Leu Arg Ser Leu Ala Lys Arg

50

55

<210> 4935
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4935

Leu Leu Arg Leu Trp Arg Arg Phe Tyr Arg Arg Trp Gln His Thr Val
 1 5 10 15

Leu Lys Leu Arg Arg Ser Ala Leu Leu
 20 25

<210> 4936
 <211> 51
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4936

Arg Phe Lys Ile Phe Arg Arg Tyr Phe Arg Leu Phe His Arg Ala Ala
 1 5 10 15

Leu Leu Lys Lys Leu Tyr Val Lys Arg Val Leu Arg Ala Ala Tyr Lys
 20 25 30

Leu Leu Met Thr Arg Trp Lys Leu Asp Val Val Leu Leu Gly Trp Gly
 35 40 45

Leu Ala Lys
 50

<210> 4937
 <211> 45
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4937

Arg Met Arg Met Phe Lys Lys Ile Leu Lys Lys Phe Lys Lys Arg Leu

1 5 10 15

Leu Leu Lys Ala Tyr Asp Leu Tyr Leu Trp Leu Asp Ala His Cys Glu
20 25 30

Lys Arg Cys His Ala Tyr Thr Leu Thr Phe Lys Ala Lys
35 40 45

<210>	4938
<211>	34
<212>	PRT
<213>	Artificial Sequence

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<220>  
<223> Computer-generated peptide variant
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<400> 4938

Arg Leu Lys Trp Leu Thr Arg Ile Leu Arg Arg Leu Lys Thr Asp Ile
1 5 10 15

Ser Ala Arg Glu Ala Asn Cys Ile His Ala Ala Leu Arg Trp Glu Ala
20 25 30

Gln Arg

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<210> 4939
<211> 79
<212> PRT
<213> Artificial Sequence
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<220>
<223> Computer-generated peptide variant
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<400> 4939

Lys Tyr Lys Phe Leu Lys Arg Ile Tyr Arg Ile Ile Lys Pro Lys Met
1 5 10 15

Met Arg Leu Phe Ala Leu Gly Ala Leu Gln Gly Ala Arg Ile Leu Ala
20 25 30

Asn Leu Ala Ser Ala Leu Arg Ala Glu Gly Phe Asn Ile Cys Lys Arg
35 40 45

His Ala Leu Arg Tyr Leu Lys Lys Arg Arg Leu Gly Arg Leu Arg Arg
50 55 60

Leu Phe Asn His Arg Arg His Asp Lys Arg Lys Leu Asp Cys Gln
 65 70 75

<210> 4940
 <211> 62
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4940

Phe Tyr Lys Met Met Arg Lys Leu Phe Lys Leu Leu Cys Lys Lys Phe
 1 5 10 15

Ala Lys Lys Leu Lys Arg Arg Lys Ile Ile Met Ala Trp Ala Pro His
 20 25 30

Ala His Ser Arg Asn Arg Met Lys Ala Phe Lys Asn Glu Ser Arg Gln
 35 40 45

Ala Ala Phe Ala Gln Leu Tyr Cys Ala Leu Arg Ala Leu Phe
 50 55 60

<210> 4941
 <211> 65
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4941

Phe Trp Arg Met Leu Lys Arg Tyr Leu Arg Lys Phe Arg Thr Lys Lys
 1 5 10 15

Pro Lys Tyr Ser Leu Leu Ala Leu Ser Pro Met Lys Lys Leu Leu Glu
 20 25 30

Asn Cys Ala Lys Gly Gly Tyr Ala Leu Cys Leu Ser Lys Met Lys Pro
 35 40 45

Phe Leu Asp His Asp Arg Leu Arg Lys Ala Asp Leu Ser Ala Arg Arg
 50 55 60

Val

65

<210> 4942

<211> 70

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4942

Phe	Phe	Arg	Phe	Met	Asn	Arg	Met	Trp	Arg	Lys	Phe	Lys	Asn	Lys	Trp
1				5					10					15	

Phe	Leu	Val	Lys	Leu	Arg	Lys	Lys	Ile	Leu	Glu	Ala	Arg	Met	Arg	Val
			20					25						30	

Ala	Leu	Lys	Lys	Arg	His	Arg	Leu	Ala	Trp	Lys	Leu	Cys	Lys	Tyr	His
		35					40					45			

Lys	Leu	Ala	Arg	Gln	Ala	Asn	Ala	Glu	Leu	Gly	Lys	Thr	Lys	Leu	Phe
	50					55					60				

Asn	Lys	Ala	Asp	Pro	Val
65				70	

<210> 4943

<211> 95

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4943

Arg	Leu	Arg	Leu	Phe	Lys	Lys	Trp	Leu	Arg	Tyr	Met	Lys	Lys	Val	Ala
1				5					10					15	

Gly	Gly	Arg	Lys	Trp	Val	Lys	Thr	Asp	Lys	Leu	Phe	Leu	Lys	Lys	Pro
			20					25					30		

Tyr	Lys	Gln	Arg	Leu	Ala	Leu	Arg	Phe	Arg	Cys	Cys	Leu	Lys	Asn	Arg
		35					40					45			

Ala	Pro	Ala	Gly	Tyr	Asp	Trp	Gly	Thr	Arg	Ala	Lys	Leu	Ala	Lys	Thr
	50					55					60				

Val Ala Trp Ala Asp Val Arg Gln Ala Lys Gly Leu Leu Thr Arg Phe
 65 70 75 80

Glu Lys Leu Arg Ala Lys Gln Trp Asn Leu Asp Lys Lys Ala Arg
 85 90 95

<210> 4944
 <211> 37
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4944

Lys Tyr Lys Ile Leu Arg Lys Leu Phe Arg Lys Tyr Arg Ser Leu Leu
 1 5 10 15

Gln Ala Ser Gln His Ala Leu Arg Leu Arg Met Ala Ala Val Phe Lys
 20 25 30

Gln Leu Leu Gln Arg
 35

<210> 4945
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4945

Leu Leu Lys Leu Trp Lys Lys Phe Phe Lys Arg Met Thr Lys Leu Ala
 1 5 10 15

Ile Arg Ser Ala Leu Lys Tyr Ile Ala Leu Arg Lys Tyr
 20 25

<210> 4946
 <211> 31
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4946

Arg Phe Arg Tyr Leu Asn Lys Leu Ile Arg Arg Leu His Arg Arg Thr
 1 5 10 15

Ala Asp Lys Met Leu Ala Val Cys His Pro Leu Ser Leu Ala Arg
 20 25 30

<210> 4947

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4947

Leu Leu Lys Leu Leu Lys Arg Tyr Phe Arg Leu Met Cys Lys His Asn
 1 5 10 15

Leu Lys Ala Trp Leu Tyr His Arg Ala Gly Thr
 20 25

<210> 4948

<211> 49

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4948

Leu Trp Arg Leu Phe Gln Arg Leu Met Lys Leu Phe Lys Ser Ser Asn
 1 5 10 15

Leu Ala Leu Leu Trp Arg Pro Phe Leu Arg Leu Lys Lys Met Asp Arg
 20 25 30

His Lys Ala Ala Arg Lys Ala Met Gln Tyr Lys Asp Ser Ala Ser Tyr
 35 40 45

Ser

<210> 4949

<211> 60

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4949

Met	Leu	Lys	Met	Phe	Arg	Lys	Phe	Ile	Lys	Lys	Met	Lys	Ser	Phe	Ala
1				5					10					15	

Ala	Tyr	Ala	Lys	Ala	His	Arg	His	Leu	Lys	Lys	Ala	Ala	Lys	Ala	Asp
			20					25					30		

Gly	Arg	Leu	Gly	Lys	Pro	Leu	Lys	His	His	Thr	Ala	Asp	Arg	Leu	Leu
		35					40					45			

Lys	Met	Val	Gln	Arg	Thr	Asp	Leu	Arg	Met	Leu	Cys
	50					55					60

<210> 4950

<211> 31

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4950

Arg	Phe	Lys	Leu	Trp	Arg	Lys	Leu	Met	Arg	Arg	Leu	Thr	Arg	Lys	Ser
1				5					10					15	

Ala	Met	Arg	Leu	Glu	Leu	Ile	Ala	Pro	Lys	Ala	Thr	Val	Ala	Ala
			20					25					30	

<210> 4951

<211> 47

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4951

Met	Tyr	Arg	Leu	Ile	Lys	Arg	Leu	Leu	Lys	Met	Leu	Cys	Lys	Arg	Gly
1				5					10					15	

Arg	Ser	Met	Arg	Ser	Leu	Tyr	Leu	Ala	Lys	His	Leu	Asn	Cys	Ala	Ala
			20					25					30		

Cys	Ala	Ala	Gly	Ala	Leu	Cys	Phe	Gln	Asp	His	Lys	Leu	Asp	Lys
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

35

40

45

<210> 4952

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4952

Arg	Tyr	Lys	Leu	Leu	Cys	Lys	Leu	Leu	Arg	Leu	Trp	Lys	Cys	Thr	Gln
1				5					10					15	

Lys	Leu	Leu	Thr	Lys	Ala	Arg	Arg	Tyr	Leu	Pro	Leu	Glu	Lys	Cys	His
			20					25					30		

Leu	Thr	Lys	Tyr	Pro	Met	Ile	Gly
		35					40

<210> 4953

<211> 54

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4953

Lys	Trp	Lys	Leu	Trp	Lys	Lys	Tyr	Trp	Arg	Ile	Phe	Lys	Cys	Trp	Asn
1				5					10					15	

His	Leu	Arg	Leu	Tyr	Arg	Met	Gln	Tyr	Pro	Thr	Lys	Ala	Phe	Arg	Cys
			20					25					30		

Pro	Ala	Arg	Ala	Leu	Asp	Lys	Lys	Arg	Ala	Lys	Ala	Arg	Lys	Pro	Leu
			35				40					45			

Ile	Gln	Ala	Arg	Ala	Leu
					50

<210> 4954

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4954

Lys Phe Arg Phe Leu Arg Lys Ile Leu Lys Leu Leu Lys Lys Leu Ala
 1 5 10 15

Pro Leu Ala Lys Arg Ser Leu Lys Pro Phe Thr Ala Tyr Phe Asn Tyr
 20 25 30

Gln Ala Cys
 35

<210> 4955

<211> 45

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4955

Met Leu Lys Phe Leu His Arg Leu Leu Lys Phe Leu Arg Gln Leu Ala
 1 5 10 15

Val Gln Cys Ile Ser Leu Tyr Cys Lys Met Lys Leu Asp Asp Ala Arg
 20 25 30

Val Ala Pro Lys Ser Pro Arg Leu Arg Arg Lys Val Ala
 35 40 45

<210> 4956

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4956

Phe Leu Lys Leu Leu Lys Lys Phe Phe Arg Arg Leu Lys Thr Arg Lys
 1 5 10 15

Pro Pro Ala Gln Leu Pro Lys Val Arg Ala His Asp Leu
 20 25

<210> 4957

<211> 71

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4957

Arg Leu Lys Ile Leu His Arg Leu Phe Lys Lys Leu Arg Gln Arg Met
1 5 10 15

Arg Asn Gln Arg Ser Ser Leu Ala Asp Asp Gln Leu Phe Leu Ser Ala
20 25 30

Lys Glu Gln Leu Tyr Lys Arg Trp Ile Gly Ala Asp Leu Leu Thr Met
35 40 45

Arg Ala Ala Arg Pro Pro Lys Arg Ala Lys Ala Arg Gln Glu Ala Arg
50 55 60

Arg Arg Ile Gly Arg Trp Arg
65 70

<210> 4958

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4958

Phe Leu Arg Leu Leu Arg Lys Phe Phe Arg Met Tyr Arg Ser Ala Leu
1 5 10 15

Lys Thr Arg Leu Ser Val Phe Arg Ala Arg Met
20 25

<210> 4959

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4959

Phe Met Arg Met Leu Ser Arg Leu Phe Arg Lys Leu Asn Gln Gln Ala
1 5 10 15

Arg Lys Arg Asp Lys Gly Cys Leu Ala Lys Ile Arg Phe Ala Asp Lys
 20 25 30

Leu

<210> 4960

<211> 50

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4960

Arg Met Lys Leu Trp Pro Lys Leu Phe Arg Arg Met Lys Arg Lys Arg
 1 5 10 15

Ile Lys Leu Thr Leu Ile Trp Leu Arg His Leu Lys Cys Lys Ser Ser
 20 25 30

Gly Leu Leu Lys Ala Arg Val Lys Ser Gln Leu Asn Ala Leu Leu Val
 35 40 45

Gln Ser
 50

<210> 4961

<211> 54

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4961

Lys Tyr Lys Tyr Leu Asn Lys Leu Leu Lys Lys Met Cys Pro Ile Ala
 1 5 10 15

Asn Arg Phe Ala Ala Ala Gly Asn His Val Phe Leu Arg Asn Ser Leu
 20 25 30

Asp Thr Leu Lys Ala Lys Ser His Lys Met Leu Ala Gly Leu Arg Ala
 35 40 45

Lys Ile Leu Phe Lys Lys

50

<210> 4962
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4962

Leu Leu Arg Leu Leu His Arg Leu Met Arg Tyr Leu Asn Lys Lys Val
 1 5 10 15

Phe Ala His Cys Asp Arg
 20

<210> 4963
 <211> 89
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4963

Leu Phe Arg Phe Trp Lys Lys Ile Phe Arg Arg Phe Arg Thr Arg Leu
 1 5 10 15

Trp Phe Ser Leu Trp Trp Ala Leu Ser Ala Val Arg Lys Asn Ser Leu
 20 25 30

Asn Glu Asn Lys Pro Leu Ala Lys Arg Lys Leu Ala Leu Trp Asp Gln
 35 40 45

Lys Lys Lys Cys Ile Lys Lys Thr Ile Leu Arg Tyr Tyr Lys Arg Ala
 50 55 60

Asp Leu Ala Thr Ala Leu Leu Leu Arg Ser Tyr Asn Gln Lys His Met
 65 70 75 80

Asn Lys Lys Arg Gly Pro Ala Ala Leu
 85

<210> 4964
 <211> 96
 <212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4964

Lys Leu Lys Phe Leu Lys Arg Phe Phe Arg Arg Ile Lys Arg Lys Gly
1 5 10 15

Ile Ala Tyr Leu Ile Ala Leu Leu Pro Arg Lys Met Lys Pro Val Gln
20 25 30

Met Met Lys Ala Ala Ala Leu Ala Arg Leu Glu Lys Cys Ala Arg Glu
35 40 45

Phe Lys Lys Arg Leu Arg Arg Lys Ala Cys Lys Lys Trp Leu Arg His
50 55 60

Ala Pro Ala Phe Ala Phe Phe Arg Ser Ala Gly Trp Pro Lys Thr Lys
65 70 75 80

Pro Phe Ala Lys Arg Leu Asn Trp Ser Ala Glu Lys Phe Glu Glu Cys
85 90 95

<210> 4965

<211> 62

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4965

Lys Leu Lys Phe Ile Arg Arg Ile Leu Lys Arg Trp Arg Lys Cys Ala
1 5 10 15

Thr Tyr Ala Leu Lys Arg Arg Arg Ala Arg Leu Pro Trp Asp Arg Leu
20 25 30

Gly Ala Cys Asp Cys Val Tyr Asn Asn Leu Asp Leu His Arg Lys Leu
35 40 45

Arg Arg Glu Cys Leu Arg Lys Cys Val Lys Leu Leu Trp Asn
50 55 60

<210> 4966

<211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4966

Ile Met Lys Phe Phe Arg Lys Leu Phe Lys Lys Leu Arg Ser Phe Leu
 1 5 10 15

Ala Pro Ala Thr
 20

<210> 4967
 <211> 76
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4967

Leu Ile Lys Leu Ile Pro Lys Ile Leu Arg Arg Leu Arg His Glu Lys
 1 5 10 15

Gln Lys Ala Leu Val Lys His Tyr Arg Gln Cys Leu Asn Asp Ala Ala
 20 25 30

Arg Ala His Tyr Leu Arg Leu Thr Lys Leu Lys Val Trp Arg Leu Lys
 35 40 45

Gly Lys Arg Leu Ala Lys Ala Asp Asn Lys Met Met Leu Tyr Leu Ala
 50 55 60

Asn Leu Ser Lys Ala Lys Leu Ile Gly Lys Lys Arg
 65 70 75

<210> 4968
 <211> 53
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4968

Lys Phe Arg Phe Met Lys Arg Leu Phe Lys Arg Trp Lys Lys Leu Met

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1             5             10             15
Met Lys Asn Ala Val Met Leu Ala His Arg Leu Leu Ala Ala Ala Cys
      20                      25                      30

Asn Leu Arg Tyr Arg Leu Thr Val Asp Cys Val Arg Phe Ala Ala Ala
     35                     40                     45

Asp Gln Ala Arg Met
    50

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<210>	4969
<211>	39
<212>	PRT
<213>	Artificial Sequence
<220>	
<223>	Computer-generated peptide variant
<400>	4969

Lys Leu Arg Leu Leu Arg Arg Leu Tyr Lys Arg Phe Lys Lys Lys His
1 5 10 15

Ser Met Arg Arg Thr Ala Lys Val Glu Ala Ala Tyr Val Trp Ser Ala
20 25 30

Leu Ala Trp His Phe Asn Ser
35

<210>	4970
<211>	33
<212>	PRT
<213>	Artificial Sequence
<220>	
<223>	Computer-generated peptide variant
<400>	4970

Lys Trp Arg Leu Phe Arg Arg Met Met Arg Leu Leu Arg Ser Leu Gln
1 5 10 15

Ala Asn Cys Leu Arg Trp Lys Ala Val Met Ala Leu Gln Leu Met Gln
20 25 30

Ala

<210> 4971
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4971

Lys Leu Lys Met Ile Arg Arg Leu Leu Arg Tyr Leu Arg His Lys Pro
 1 5 10 15

Arg Thr Val Leu Leu Ala Val Cys Pro Pro Leu Ala Glu Ile Val Lys
 20 25 30

<210> 4972
 <211> 47
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4972

Tyr Leu Lys Tyr Leu Arg Arg Phe Phe Lys Lys Leu Lys His Met Lys
 1 5 10 15

Arg Arg Asn Ala Val Leu Arg Ala Lys Glu Lys Ala Asp Val Leu Ala
 20 25 30

Asn Gly Arg Glu Met Lys Leu Leu Ala Val Gln Leu Asn Ile Phe
 35 40 45

<210> 4973
 <211> 80
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4973

Leu Leu Arg Trp Phe Ser Lys Phe Phe Arg Ile Ile Gln Pro Lys Asn
 1 5 10 15

Arg Ala Gly Arg Arg Gly Arg His Leu Leu Lys Lys Leu Gln Lys Met
 20 25 30

Ala Cys Ala Cys Ala Lys Gln Lys Lys Arg Lys Asp Ala Leu Leu Ala
 35 40 45

Tyr Val Gln His Cys Leu Ala Lys Gly Ser Val Arg Leu Lys Arg Trp
 50 55 60

Leu Glu Lys Thr Asp Tyr Cys Leu Ala Gly Lys Arg Thr Ala His Ala
 65 70 75 80

<210> 4974
 <211> 53
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4974

Arg Ile Lys Leu Met Arg Arg Trp Met Arg Met Trp Ser Arg Arg Asn
 1 5 10 15

Met Arg Cys Trp Arg Glu Asn Lys Trp Asp Leu Leu Leu Ala Arg Leu
 20 25 30

Leu Ala Ala Lys Lys Leu Lys Leu Asn Leu Ala Lys Cys Tyr Gln Ile
 35 40 45

Lys Cys Met Lys Arg
 50

<210> 4975
 <211> 31
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4975

Tyr Met Lys Leu Leu Lys Lys Ile Tyr Lys Arg Met Lys Arg Thr Arg
 1 5 10 15

Leu Ala Ala Leu Asn Leu Ile Asp Ala Arg Met Ala Leu Pro Ile
 20 25 30

<210> 4976

<211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4976

Lys Trp Arg Phe Ile Lys Lys Leu Leu Lys Lys Met Lys Lys Leu Val
 1 5 10 15

Ala Glu Lys Leu Ala Leu Val Pro Arg Phe Ala Val Glu
 20 25

<210> 4977
 <211> 47
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4977

Lys Phe Lys Leu Leu Cys Arg Leu Met Lys Lys Leu Lys His Arg Lys
 1 5 10 15

His Ala Cys Arg Ala Asn Arg Gln Lys Gly Leu Gln Gly Asp Leu Tyr
 20 25 30

Trp Leu Tyr Arg Lys Gln Lys Gly Leu Lys Met Leu Ala Ile Ala
 35 40 45

<210> 4978
 <211> 31
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4978

Phe Leu Arg Leu Ile Arg Lys Leu Leu Lys Lys Leu Lys Arg Phe Asp
 1 5 10 15

Phe Lys Thr Ala Asn Ala Lys Ala Pro Met Arg Met Ile Ile Pro
 20 25 30

<210> 4979

<211> 52
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4979

Lys Phe Lys Met Leu Lys Arg Leu Tyr Lys Lys Tyr Lys Ser Lys Met
 1 5 10 15

Leu Ala Ala Arg Arg Ser Tyr Gly Thr Leu His Ser Ala Ala Phe Ala
 20 25 30

Arg Gln Val Ser Tyr Leu Lys His Asp Tyr His Lys Arg Trp Lys Lys
 35 40 45

Leu His Leu Arg
 50

<210> 4980
 <211> 92
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4980

Lys Leu Arg Leu Leu Asn Lys Leu Leu Lys Arg Ile Arg Thr Ile Met
 1 5 10 15

Arg Arg Cys Leu Ala Phe Lys Ala Val Ser Ala Lys Lys Met Val Gly
 20 25 30

Asp Arg Tyr Ser Tyr Ala Ala Ile Leu Asn Tyr Leu Lys Glu Glu Pro
 35 40 45

Pro Val Ala Gly Val Lys Tyr Ala Lys Arg Lys Pro Arg Ala Leu Cys
 50 55 60

Ser Arg Val Leu Leu Lys Ala Met His Phe Cys Phe Gly Lys Leu Leu
 65 70 75 80

Gln Lys Lys Glu Lys Lys Tyr Lys Val Ala Leu Lys
 85 90

<210> 4981
 <211> 94
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4981

Phe Leu Lys Leu Ile His Arg Met Leu Lys Tyr Leu Arg Arg Glu Arg
 1 5 10 15

Arg Ser Met Arg Lys Tyr Arg Trp Arg Ile Leu Asn Leu Met Leu Val
 20 25 30

Ala Ala Leu Gln Met Lys Ile Leu Leu Ala Thr Leu Leu Ala Asp Lys
 35 40 45

Lys Phe Gly Phe Asp Asp Lys Met Arg Phe Leu Ala Leu Thr Lys Ile
 50 55 60

Ala Lys His Arg Arg Ile Arg Ser Arg Lys Trp Arg Val Lys Tyr Cys
 65 70 75 80

His Phe Arg Asn Asn Lys Arg Leu Ala Thr Leu Ala Leu Pro
 85 90

<210> 4982
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4982

Arg Phe Lys Phe Met Gln Arg Leu Leu Arg Lys Phe Cys His Leu Ala
 1 5 10 15

Arg Arg Ala Val Pro Pro Ala Asp Ala Lys Thr Ala Tyr Lys Cys Leu
 20 25 30

Gly Ala Lys Leu
 35

<210> 4983

<211> 74
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4983

Met Leu Arg Met Leu Lys Arg Met Leu Arg Arg Leu Arg Lys Ile Glu
 1 5 10 15

Ala Cys Ala Ala Arg Arg Leu Cys Lys Ser Lys Leu Tyr Gly Lys Arg
 20 25 30

Ala Asn Tyr Ser Ala Thr Lys Leu Ile Val Lys Arg Ala Lys Gln Leu
 35 40 45

Leu Met Leu Leu Glu Leu Phe Val Tyr His Gly Arg Lys Leu Lys Trp
 50 55 60

Ser Lys Thr Arg Ala Ser Lys Pro Tyr Lys
 65 70

<210> 4984
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4984

Arg Trp Lys Met Tyr Lys Lys Tyr Tyr Arg Arg Met Lys Arg Gly Leu
 1 5 10 15

Asp Gly Leu Ala Thr Thr Ala Asp Ile Lys Leu Ala Leu Arg Leu Leu
 20 25 30

Arg

<210> 4985
 <211> 38
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4985

Leu Leu Lys Leu Met Gln Arg Phe Leu Arg Arg Tyr Pro Ser Leu Arg
 1 5 10 15

Phe Ala Ala Ala Arg Trp Asp Arg Ala Asn Lys Thr Ile Thr Arg Leu
 20 25 30

Trp Arg Ala Ser Arg Trp
 35

<210> 4986

<211> 59

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4986

Arg Ile Lys Phe Leu Thr Lys Leu Leu Arg Lys Leu Lys Gln Gly Ala
 1 5 10 15

Ala Lys Gln Cys Asp Tyr Leu Ser Trp Lys Asp Arg Trp Thr Arg Tyr
 20 25 30

Arg Cys Lys Ala Cys Leu Leu Ile Tyr Leu Glu Arg Ala Arg Lys Leu
 35 40 45

Gly Ala Ala Phe His Ala Leu Phe Val Cys Lys
 50 55

<210> 4987

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4987

Trp Ile Arg Phe Tyr Lys Lys Leu Tyr Arg Arg Trp His Thr Leu Lys
 1 5 10 15

Arg Leu Ala Ala Ala Ile Arg Ala Leu Leu Trp Lys Ala His Thr Lys
 20 25 30

Gln Lys Cys
35

<210> 4988
<211> 41
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 4988

Arg Phe Lys Leu Phe Pro Lys Leu Leu Lys Leu Leu Lys Gln Ala Pro
1 5 10 15

Leu Lys Ala Leu Ala Arg Trp Ile Thr Val Leu Leu Lys Arg Lys Ala
20 25 30

Lys Leu Glu Pro Ala Val Pro Gly Asn
35 40

<210> 4989
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 4989

Arg Phe Lys Phe Leu Arg Lys Met Ile Arg Leu Met Pro Ser Ala Lys
1 5 10 15

Leu Arg Arg Leu Leu Asp Thr Phe Ala Lys Leu Ser Glu Arg Ala Trp
20 25 30

His Ser Gly Arg Lys Leu Ala Leu
35 40

<210> 4990
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 4990

Arg Leu Lys Phe Tyr Arg Arg Met Met Arg Leu Ile Arg Arg Ala Met
 1 5 10 15

Leu Ala Leu Trp Lys Thr Arg Ala Gln Phe Ala Val
 20 25

<210> 4991
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4991

Arg Trp Arg Leu Leu Ser Arg Leu Trp Lys Arg Tyr Arg Lys Met Ala
 1 5 10 15

Ile Ala Asn Gln
 20

<210> 4992
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4992

Arg Phe Arg Trp Phe Arg Arg Trp Met Arg Lys Phe Arg Lys Leu Leu
 1 5 10 15

Leu Thr Leu Ala Ala
 20

<210> 4993
 <211> 51
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4993

Lys Leu Arg Tyr Leu Lys Arg Leu Ile Arg Trp Ile Arg Arg Leu Ala
 1 5 10 15

Thr Met Phe Leu Leu Ala Val Pro Tyr Asp Gly Lys Asp Arg Ser Lys
 20 25 30

Glu Ile Arg Trp Asp Glu Ala Leu Ala Ala Arg Arg Gln Lys Ala Thr
 35 40 45

Ala Phe Lys
 50

<210> 4994
 <211> 58
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4994

Arg Ile Arg Leu Trp Arg Arg Ile Tyr Arg Leu Phe Lys Arg Arg Met
 1 5 10 15

Phe Ala Thr Ala Asn Ala Val His Ala Pro Arg Arg Pro Leu Arg Leu
 20 25 30

Gln Leu Ala Arg Ala Ala Pro Val Val Trp Thr Ala Arg Leu Asn Met
 35 40 45

Arg Lys Ala Trp Arg Pro Ala Asn Asp Pro
 50 55

<210> 4995
 <211> 58
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4995

Met Leu Arg Phe Leu His Arg Phe Ile Lys Lys Ile Asn Lys Lys Leu
 1 5 10 15

Arg Leu Arg His Trp Ala Glu Pro Met Ala Lys Arg Lys Trp Gly Met
 20 25 30

Ala Ala Arg Trp Asn Leu Lys Leu Ala Ala Met Lys Glu Leu Pro Val

35

40

45

Ala Leu Leu Thr Lys Arg Val Lys Lys Lys
 50 55

<210> 4996

<211> 44

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4996

Lys Met Arg Met Trp Arg Lys Ile Leu Arg Lys Phe Asn Lys Arg Met
 1 5 10 15

Lys Tyr Leu Leu Ser Gln Lys Ile Ile Leu Leu Leu Arg Leu Lys Arg
 20 25 30

Gly Leu His Asp Ala Ala Ser Leu Glu Pro Met Arg
 35 40

<210> 4997

<211> 65

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 4997

Arg Leu Lys Leu Leu Pro Lys Leu Trp Arg Lys Phe Asn His Gly Lys
 1 5 10 15

Gly Tyr Ile Leu Leu Gln Tyr Arg Ala Lys Ala Ala Arg Lys Leu Ala
 20 25 30

Phe Val Asn Thr Ser Arg Phe Arg Arg Arg Gln Ala Phe Asn Ile Ala
 35 40 45

Gln Lys Ala Pro Ala Leu Arg Arg Glu Asn Asp Ala Arg Arg Asp Ala
 50 55 60

Trp
 65

<210> 4998
 <211> 62
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4998

Arg Leu Lys Ile Phe Arg Lys Ile Met Arg Leu Phe Lys Arg Pro Arg
 1 5 10 15

Arg Leu Leu Lys Tyr Leu Cys Phe Cys Ile Asp Ile Lys Leu Ala Ser
 20 25 30

Met Lys Ala Leu Asp Gly His Asp Leu Ala Ala Ala Arg Gly Thr Arg
 35 40 45

Leu Glu Lys Ala Trp Lys Ala Ile Leu Val Phe Glu Arg Arg
 50 55 60

<210> 4999
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 4999

Lys Leu Arg Trp Phe Lys Arg Tyr Leu Arg Ile Ile His Gln Arg Ala
 1 5 10 15

Ala Cys Ala Thr Lys Leu
 20

<210> 5000
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5000

Arg Leu Arg Trp Trp Cys Lys Phe Leu Lys Tyr Leu Gln Thr Phe Met
 1 5 10 15

Gly Lys Ala Leu Ala His Arg Ala Leu Ala Thr Lys Asn
20 25

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<210> 5001
<211> 25
<212> PRT
<213> Artificial Sequence
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<220>
<223> Computer-generated peptide variant

<400> 5001

Lys Leu Lys Trp Leu Lys Arg Phe Leu Lys Lys Tyr Lys Asn Glu Ala
1 5 10 15

Leu Met Trp Lys Leu Thr Cys Leu Phe
20 25

<210>	5002
<211>	21
<212>	PRT
<213>	Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 5002

Leu Tyr Arg Leu Leu Arg Lys Phe Trp Lys Leu Leu Gln Lys Ile Gln
1 5 10 15

Arg Cys Ile Lys Ala
20

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<210> 5003
<211> 26
<212> PRT
<213> Artificial Sequence
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<220>
<223> Computer-generated peptide variant

<400> 5003

Phe Leu Lys Tyr Trp Asn Arg Ile Trp Arg Phe Leu Lys Arg Ala Leu
1 5 10 15

Ala His Glu Lys His Leu Cys Arg Lys Leu
20 25

<210> 5004
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5004

Phe Met Arg Leu Trp Gln Arg Leu Leu Arg Leu Phe Arg His Ala Leu
 1 5 10 15

Tyr Ser Leu Arg
 20

<210> 5005
 <211> 73
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5005

Arg Phe Arg Trp Leu Lys Arg Leu Leu Arg Arg Phe Lys Cys Leu Asp
 1 5 10 15

Ala Thr Asn Arg Lys Arg Gly Lys Gln Ala Thr Pro Phe Gln Leu Pro
 20 25 30

Arg Ser Gln Ala Ala Ala Gln Phe Ala Cys Cys Ile Leu Leu Pro Lys
 35 40 45

Ser Arg Asp Leu Lys Lys Lys Asn Lys Arg Leu Ala Arg Val Ala Lys
 50 55 60

Tyr Leu Gln Thr His Arg Lys Met Ala
 65 70

<210> 5006
 <211> 49
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5006

Arg Phe Lys Phe Phe Arg Arg Met Phe Lys Leu Trp Lys Arg Leu Ala
 1 5 10 15

Ala Leu Ala Lys Lys Leu Lys Ala Leu Ala Leu Leu Gly Arg Arg Ile
 20 25 30

Lys Ala Phe Arg Val Gly Lys Cys His Arg Gly Gly Ala Gln His Leu
 35 40 45

Phe

<210> 5007
 <211> 27
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5007

Arg Leu Arg Phe Leu Thr Arg Leu Phe Lys Arg Trp Lys Thr Pro Ala
 1 5 10 15

Ala Ala Cys Arg Ala Lys His Leu Lys Thr Arg
 20 25

<210> 5008
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5008

Leu Met Lys Phe Tyr Lys Arg Met Phe Lys Ile Tyr Arg Lys Ala Phe
 1 5 10 15

Ala Lys Lys Ala Asp Leu Gly Val Ala
 20 25

<210> 5009
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5009

Tyr	Tyr	Arg	Phe	Leu	Ser	Lys	Leu	Trp	Lys	Lys	Leu	Arg	Arg	Trp	Thr
1				5				10						15	

Leu	Arg	Arg	Arg	Gly	Gln	Gly	Leu	Asn	Asp	Gln	Leu	Ala	Asn	Ala	Arg
			20				25						30		

Val	Val	Ala	Lys	Phe	Arg	Lys	Asn
		35				40	

<210> 5010

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5010

Arg	Phe	Lys	Ile	Leu	Arg	Arg	Leu	Trp	Lys	Phe	Met	Arg	Arg	Ala	Ala
1				5				10						15	

Ala	Leu	Pro	Lys	His	Gly	Arg	Leu	Met
		20					25	

<210> 5011

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5011

Met	Phe	Arg	Leu	Leu	Ser	Lys	Ile	Ile	Arg	Trp	Phe	His	Lys	Ala	Arg
1			5					10						15	

Arg	Ala	His	Leu	Leu	Ala	Ser	Thr	Arg	Phe	Ala	Val	Lys	Ala	Gly	Arg
			20				25						30		

Asn	Arg	Leu	Tyr
		35	

<210> 5012

<211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5012

Lys Phe Lys Leu Leu Gln Arg Ile Ile Arg Lys Tyr Arg Arg Gly Trp
 1 5 10 15

Gly Val Pro Ala Ala Arg Ala Leu Tyr Arg Ser Gly Leu Ala Thr Leu
 20 25 30

Leu

<210> 5013
 <211> 48
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5013

Lys Trp Lys Leu Ile Lys Lys Leu Leu Lys Tyr Leu Gln Lys Ser Gly
 1 5 10 15

Trp Phe Arg Arg Thr His Lys Ala Thr Ala Phe Leu Gly Arg Met Arg
 20 25 30

Ile Ser Trp Ala Arg Val Ala Arg Leu Gln Arg Arg Lys Phe Leu Ala
 35 40 45

<210> 5014
 <211> 37
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5014

Lys Leu Arg Leu Phe Lys Arg Tyr Met Arg Leu Trp Arg Lys Leu Asn
 1 5 10 15

Val Asn His Glu Ala Cys Ala Gln Ala Trp Ala Lys Lys Glu Leu Phe

20

25

30

Arg Ala Lys Glu Cys
35

<210> 5015
<211> 26
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 5015

Leu Leu Arg Leu Phe Arg Lys Trp Tyr Arg Phe Leu Asn Asn Lys Arg
1 5 10 15

Arg His Leu Ala Arg Asn Leu Phe Asp Ala
20 25

<210> 5016
<211> 68
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 5016

Lys Trp Lys Trp Leu Lys Lys Ile Leu Arg Lys Phe Lys Ser Ala Met
1 5 10 15

Asp Lys Ala Glu Trp Cys Leu Asn Ser Gly Ala Lys Gln Asn Thr Ile
20 25 30

Met Ala Phe Leu Arg Met Lys Lys Arg Thr Lys Phe Cys Ala Asn Gly
35 40 45

Arg His Val Arg Val Gln Ala Arg Ala Leu Ala Asp Arg Ala Leu Arg
50 55 60

Ala Ala Lys Ala
65

<210> 5017
<211> 53
<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5017

Ile Tyr Lys Phe Phe Asn Arg Leu Ile Lys Phe Tyr Arg Arg Lys Leu
1 5 10 15

Asn Leu Pro Lys Ala Gly Pro Ala Glu Arg Ala Asn Ala Lys Arg Leu
20 25 30

Arg Thr Lys Arg Ala Leu Cys Val Tyr Lys Tyr Lys Lys Lys Pro Ala
35 40 45

Ala Tyr Asn Arg Leu
50

<210> 5018

<211> 53

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5018

Arg Phe Arg Tyr Leu Lys Arg Leu Leu Arg Lys Phe Lys Gln Leu His
1 5 10 15

Arg Arg Leu Leu Ile Pro Gln Leu Gln Trp Leu Trp Tyr Leu Leu Leu
20 25 30

Thr Ala Lys Pro Leu Asn Arg Ser Gly Ala Phe Lys Pro Ala Leu Leu
35 40 45

Glu Lys Val Leu Gln
50

<210> 5019

<211> 41

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5019

Leu Leu Arg Phe Trp Lys Lys Tyr Phe Lys Leu Leu His Pro Ala Glu
 1 5 10 15

Leu Cys Gln Arg Ala Leu Tyr Arg Ala Leu Arg Ala Val Ala Ser Lys
 20 25 30

Leu Leu Val Ile Asn Lys Lys Arg Glu
 35 40

<210> 5020

<211> 70

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5020

Arg Leu Lys Trp Tyr Ser Arg Tyr Phe Arg Lys Phe Lys Arg Leu Lys
 1 5 10 15

Arg Ile Leu Ile Ala Lys Leu Gln Asn Arg Thr His Tyr Leu Pro Ala
 20 25 30

Arg Lys Lys Trp Ala Arg Ala Thr Lys Leu Leu Gly Ala Arg Ala Asp
 35 40 45

Gly Tyr Asp Glu Asp Leu Ala Leu Ile Ala Asn Asp Asn Arg Ala Ala
 50 55 60

Glu Arg Gln Arg Val Ser
 65 70

<210> 5021

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5021

Phe Phe Lys Ile Leu Thr Arg Tyr Trp Lys Leu Met Lys Lys Leu Leu
 1 5 10 15

Lys Ala Lys Ser Ala Lys Arg Glu Tyr Ile Lys Asn Ala Asn Ala Val

20

25

30

<210> 5022

<211> 81

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5022

Leu Leu Arg Leu Ile Lys Arg Ile Tyr Lys Lys Leu His Arg Lys Leu
 1 5 10 15

Phe Met Leu Arg Leu Ala Arg Gln Trp Arg Arg Thr Pro Trp Trp Val
 20 25 30

Leu Ile Asp Phe Leu Leu Val Val Trp Arg Arg Arg Lys Leu Arg Leu
 35 40 45

Ala Gly His Arg Lys Lys His Ala Met Arg Lys Val Phe Asp Ser Leu
 50 55 60

Glu Ala Lys Tyr Ile Ala Gln Asn Lys Tyr Arg Asn Gln Lys Ala Ile
 65 70 75 80

Ala

<210> 5023

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5023

Leu Phe Lys Ile Leu Lys Arg Phe Tyr Arg Trp Leu Lys Lys Leu His
 1 5 10 15

Tyr Leu Leu Glu Gly Asp Pro Arg Leu Ala Arg Leu Arg Gln Ile Lys
 20 25 30

Gly

<210> 5024
 <211> 55
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5024

Lys Leu Lys Tyr Leu Ser Arg Leu Phe Arg Arg Leu Lys Arg Arg Leu
 1 5 10 15

Arg Ala Lys Leu Arg Asn Lys Met Ala Tyr Ala Ser Arg Ala Phe Asn
 20 25 30

Ala Lys Gly Trp Leu Ile Leu His Gln Arg Leu Asn Ala Asn Val Leu
 35 40 45

Leu Gln Lys Glu Lys Lys Lys
 50 55

<210> 5025
 <211> 38
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5025

Arg Ile Lys Leu Leu Arg Arg Leu Phe Arg Trp Trp Pro Lys Ile Glu
 1 5 10 15

Thr Tyr Asn Ala Ala His Arg Lys Tyr Trp His Ala Lys Lys Leu Glu
 20 25 30

Ser Leu Ala Lys Cys Ala
 35

<210> 5026
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5026

Lys Ile Arg Tyr Tyr Arg Arg Leu Leu Arg Arg Trp Cys Ser Arg Val
 1 5 10 15

Ala Ala Leu Leu Met Asp Leu Ser Met Asp Arg Met Lys Ala Ala Trp
 20 25 30

Ala Cys Leu Leu Leu Arg Leu Glu
 35 40

<210> 5027
 <211> 55
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5027

Lys Trp Arg Phe Leu Arg Lys Leu Tyr Arg Leu Leu Arg Asn Asn Leu
 1 5 10 15

Ala Asn Ala Leu Asn Arg Arg Phe Gly Phe Lys Ser Asp Arg Ile Lys
 20 25 30

Met Trp Ala Leu Lys Lys Ile Arg Leu Met Val Phe Gly Lys Gly Lys
 35 40 45

Gln Ala Ala Pro Gly Arg Leu
 50 55

<210> 5028
 <211> 60
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5028

Lys Ile Lys Tyr Phe Arg Arg Tyr Ile Lys Leu Phe Asn Arg Leu Lys
 1 5 10 15

Ala Lys Val Asp Leu Phe Lys Ile Leu Ala Leu Tyr Arg Leu Arg Lys
 20 25 30

Gln Phe Ala Leu Ser Ala Leu Gln Asn Leu Arg Trp Lys Glu Leu Phe

35

40

45

Ser Asp Ile Cys Leu Gln Ala Ala Pro Arg Cys Leu
 50 55 60

<210> 5029

<211> 56

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5029

Lys Leu Lys Phe Leu Arg Arg Phe Phe Arg Lys Phe Lys Arg Leu Leu
 1 5 10 15

Gln Lys Arg Ala Tyr Arg Trp Ile Ala Lys Ala Leu Lys Ala Leu Val
 20 25 30

His Leu Phe Ala Arg Leu Glu Arg Ala Cys Val Glu Leu Tyr Ala Ser
 35 40 45

Glu Ala Ala Thr Trp Lys Asp Lys
 50 55

<210> 5030

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5030

Ile Phe Lys Phe Trp Arg Lys Ile Leu Lys Phe Leu Lys Lys Ala Ala
 1 5 10 15

His Ala Leu Arg Gly Glu Lys Ala Ala Lys Val Gln Arg Met Arg Lys
 20 25 30

Gln Leu Ala Trp Ser Arg Asp Gly
 35 40

<210> 5031

<211> 74

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5031

Leu Met Lys Met Tyr Lys Lys Tyr Leu Arg Leu Tyr Lys Lys Gly Leu
1 5 10 15

Ala Pro Ser Leu Lys Val Ala Glu Arg Met Arg Lys Arg Gln Phe Gln
20 25 30

Lys Ser Leu His His Ala Asn Ala Arg Ser Leu Lys Cys Leu Phe Arg
35 40 45

Leu Ala Ala Asn Lys Thr Trp Ala Lys Val Lys Asp Leu Arg Lys Leu
50 55 60

Gly Lys Lys His Leu Tyr Cys Leu Ala Thr
65 70

<210> 5032

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5032

Lys Trp Arg Tyr Leu Lys Lys Tyr Trp Lys Trp Leu Arg His Leu Gly
1 5 10 15

Gln Lys Ala Leu
20

<210> 5033

<211> 31

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5033

Leu Tyr Lys Leu Phe Ser Lys Leu Phe Arg Lys Met Arg Lys Leu Arg
1 5 10 15

Val Glu Ala Leu Ala Phe Arg Arg Lys Met Ala Cys Asp Lys Met
 20 25 30

<210> 5034
 <211> 42
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5034

Lys Phe Lys Leu Trp Arg Arg Tyr Leu Lys Lys Leu Ser Lys Lys Met
 1 5 10 15

Leu Ser Leu His Met Lys Lys Ala His Leu Arg Tyr His Trp Lys Cys
 20 25 30

Leu Ile Arg Tyr Glu Thr Met Ala Leu Arg
 35 40

<210> 5035
 <211> 55
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5035

Leu Trp Arg Tyr Leu Arg Lys Leu Met Lys Phe Leu Lys Asn Ala Asn
 1 5 10 15

Lys Lys Lys Asp Leu Cys Met Ala Lys Lys Ile Ala His Cys His His
 20 25 30

Lys Cys Gly Thr Asn Leu Trp Gly Leu Lys Arg Ala Leu Lys Arg Arg
 35 40 45

Leu Lys Leu Cys Val Trp Asp
 50 55

<210> 5036
 <211> 50
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5036

Arg	Ile	Arg	Tyr	Tyr	Cys	Arg	Leu	Leu	Lys	Leu	Trp	Lys	Lys	Ala	Ala
1				5					10					15	

Arg	Ala	Ile	Ser	Cys	Arg	Asn	Trp	Arg	Gln	Cys	Arg	Asn	Arg	His	Gly
			20					25					30		

Lys	Arg	His	Val	Ala	Lys	Ala	Trp	Ala	Ala	Ala	Asn	Trp	Ala	Ala	Asp
		35					40					45			

Lys	Arg
	50

<210> 5037

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5037

Leu	Ile	Arg	Phe	Met	Lys	Lys	Trp	Tyr	Arg	Arg	Tyr	Arg	Lys	Arg	Arg
1				5				10					15		

Ala	Leu	Lys	Cys	Leu	Arg	Ala	Arg	Leu	Leu	Met	Val	Ile	Thr	Ser	Pro
			20					25					30		

Trp	Asp	Ala	Lys	Ala	Ala	Thr	Phe
		35				40	

<210> 5038

<211> 60

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5038

Phe	Tyr	Arg	Phe	Phe	Lys	Lys	Tyr	Met	Lys	Arg	Ile	Lys	Arg	Phe	Lys
1				5				10						15	

Leu	Cys	Leu	Phe	Ala	Leu	Leu	Arg	Asp	Leu	Arg	Arg	Ser	Ile	Ala	Arg
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

20

25

30

Leu Ala Arg Phe Ala Ile Ala Arg Val Lys Tyr Gly Ala Leu Ala Lys
 35 40 45

Thr Lys Trp Lys Ser Lys Gln Trp Leu Arg Leu Trp
 50 55 60

<210> 5039

<211> 46

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5039

Phe Phe Arg Leu Ile Arg Lys Ile Phe Lys Arg Leu Asn Lys Pro Thr
 1 5 10 15

Arg Lys Arg Lys Cys Leu Ser Ala Thr Thr Tyr Pro Arg Ala Tyr Ala
 20 25 30

Lys Lys His Ala Leu Ala Val Thr Leu Leu Arg Ala Ile Leu
 35 40 45

<210> 5040

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5040

Tyr Leu Arg Leu Tyr Lys Lys Trp Trp Lys Ile Met Pro Arg His Leu
 1 5 10 15

Asp Gly Ala Val Ala Ala Lys Ala Trp Lys Tyr Pro Leu Lys Lys Arg
 20 25 30

<210> 5041

<211> 83

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5041

Lys Ile Lys Trp Leu Cys Arg Ile Leu Lys Lys Met Lys Thr Arg Phe
 1 5 10 15

Arg Glu Leu Phe Glu Leu Phe Gln Ala Leu Ala His Met Leu Asp Lys
 20 25 30

Ala His Lys Leu Ala Ser Asn Arg Gly Thr Pro Ile Cys Lys Lys Arg
 35 40 45

Ser Ile Arg Gln Met Leu Lys Gly Leu Ser Leu Leu Leu Arg Ala Ala
 50 55 60

Asp Gln Leu Trp Arg Arg Ile Trp Val Leu Leu His Lys Arg Asp Lys
 65 70 75 80

Lys Ala Ala

<210> 5042

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5042

Lys Leu Lys Leu Leu Lys Lys Phe Leu Arg Phe Tyr Gln Gln Leu Ala
 1 5 10 15

Ala Lys Ala Trp Lys Lys Gln Glu Arg Leu Lys Ala Ser Asn Val Leu
 20 25 30

Ala Arg Ala His Arg Asp Gln Arg
 35 40

<210> 5043

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5043

Leu Ile Arg Leu Leu Asn Lys Trp Tyr Lys Lys Phe Lys Cys Val Leu
 1 5 10 15

Ala Lys Lys Ser
 20

<210> 5044
 <211> 56
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5044

Leu Tyr Arg Leu Phe His Lys Leu Phe Lys Arg Leu Thr Lys Leu Lys
 1 5 10 15

Arg Asp Leu Asn Lys Ala Gln Arg Leu Phe Glu Thr Leu Trp Asn Ala
 20 25 30

Ala Ala Ile His Asp Lys Ala Lys Leu Lys Tyr Lys Ala Trp Lys Ala
 35 40 45

Ile Ala Val Phe Met Ile Asp Ser
 50 55

<210> 5045
 <211> 71
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5045

Ile Tyr Arg Leu Tyr Arg Arg Phe Tyr Lys Leu Leu Lys His Leu Pro
 1 5 10 15

Arg Ala Lys Ala Ala Gln Ala Arg Met Ala Leu Pro Lys Leu Val Arg
 20 25 30

Ala Pro Ser Gln Glu Lys Ser Pro Ala Thr Lys Phe Trp Cys Lys Ala
 35 40 45

Ser Ala Thr Leu Glu Arg Gln His Ala Lys Arg Leu Ser Ser Pro Arg

50

55

60

Leu Lys Leu Cys Ile Lys Ala
 65 70

<210> 5046
 <211> 43
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5046

Leu Ile Arg Tyr Met Arg Lys Leu Leu Lys Tyr Leu Pro Cys Cys Lys
 1 5 10 15

Gly Arg Gly Asp Leu Asn Arg Ser Lys Phe Leu Phe Ala Met Thr Leu
 20 25 30

Lys Cys Arg Ala Lys Leu Ala Gly Trp Arg Lys
 35 40

<210> 5047
 <211> 48
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5047

Tyr Tyr Arg Leu Tyr Gln Lys Leu Trp Arg Arg Leu Arg Lys Ala His
 1 5 10 15

Arg Glu Leu Glu Trp Lys Tyr Thr Arg His Ala Lys Pro Ala Ala Leu
 20 25 30

Ala Glu Arg Lys Asn Pro Arg Ala Lys Cys Leu Ala Ala Gly Asn Trp
 35 40 45

<210> 5048
 <211> 64
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5048

Leu Phe Arg Leu Phe Cys Lys Phe Leu Arg Lys Phe Lys Thr Arg Ala
 1 5 10 15

Asp Leu Arg Lys Lys Gln Lys Ala Ala Val Lys Arg His Cys Pro Leu
 20 25 30

Ala Lys Ala Arg Ala Ala Phe Leu Val Ile Asp Asp Arg Arg Trp Arg
 35 40 45

Leu Ile Tyr Arg Leu Arg Lys Thr Leu Thr Gly Ala Arg Leu Leu Arg
 50 55 60

<210> 5049

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5049

Leu Met Arg Leu Leu Lys Arg Tyr Met Arg Leu Ile Arg Arg Asn Ser
 1 5 10 15

Pro Ala Ala Arg Arg Asp Met
 20

<210> 5050

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5050

Arg Leu Lys Leu Tyr Ser Arg Leu Leu Arg Tyr Leu Pro Lys Lys Ala
 1 5 10 15

Pro Pro Leu Arg Lys Gln Leu Tyr Arg Ile Ser Arg Cys His Ser Met
 20 25 30

Tyr Arg Leu Gly
 35

<210> 5051
 <211> 58
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5051

Arg Phe Arg Leu Leu Lys Arg Phe Leu Lys Tyr Leu Cys Gln Tyr Ala
 1 5 10 15

Arg Lys Leu Thr Arg Trp Tyr Tyr Lys Asn Trp Asp Trp Lys Leu Lys
 20 25 30

Ala Leu Cys Val Lys Arg Leu Cys Val Phe Ala Asn Lys Ser Ala Ala
 35 40 45

Gln Leu Lys Lys Leu Trp Tyr Thr Gln Ala
 50 55

<210> 5052
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5052

Trp Phe Lys Ile Leu Arg Arg Leu Leu Arg Arg Phe Lys Cys Lys Ala
 1 5 10 15

Pro Ile Pro Asn Leu Leu Lys Leu Arg Met Ala Ala
 20 25

<210> 5053
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5053

Leu Ile Arg Leu Trp His Lys Leu Phe Arg Arg Leu Lys Cys Ala Asn
 1 5 10 15

Val Pro Arg Thr Ala Lys Val Leu Met
 20 25

<210> 5054
 <211> 69
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5054

Leu Ile Arg Ile Trp Lys Arg Leu Trp Lys Lys Tyr Gln His His Ala
 1 5 10 15

Ala Ile Asn Lys Leu Arg Ala Lys Arg Arg Arg Ser Trp Leu Val Arg
 20 25 30

Leu Phe Lys Tyr Leu Leu Val Ala Leu Lys Lys Leu Arg Leu Glu Val
 35 40 45

Ala Lys Arg Thr Leu Lys Glu Arg His Ile Asp Leu Ser Leu Leu Leu
 50 55 60

Phe Thr Thr Tyr His
 65

<210> 5055
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5055

Phe Leu Arg Trp Leu Lys Arg Ile Phe Arg Lys Leu Lys Gln Ile Cys
 1 5 10 15

Gly Met Ala Leu Arg Lys Ala Arg Gln Arg Thr Cys Asn Pro Leu Glu
 20 25 30

Ala Lys

<210> 5056

<211> 60
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5056

Lys Phe Arg Met Phe His Arg Leu Met Arg Met Phe Lys Gln Lys Lys
 1 5 10 15

Arg Met Leu Lys Leu Leu Gly Gln Ile Lys Gln Val Asn Arg Val Val
 20 25 30

Arg Ala Leu Ala Val Thr Glu Glu Arg Lys Ala Phe Leu Asp Arg Arg
 35 40 45

Ala Val Ala Val Leu Arg Gln Arg Ala Lys Ala Arg
 50 55 60

<210> 5057
 <211> 80
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5057

Lys Trp Lys Ile Met Lys Arg Ile Met Lys Lys Ile Pro Ser Leu Ala
 1 5 10 15

Ala Thr Asn Ala Ala Ala Phe Lys Cys Leu Ser Leu Leu Tyr Arg Ala
 20 25 30

Lys Tyr Trp Ala Leu Ala Arg Leu Val Gly Gln Arg Pro Leu Arg Pro
 35 40 45

Ala Thr Tyr Tyr Leu Leu Pro Trp Leu His Glu Lys Asp Arg Asp Arg
 50 55 60

Leu Trp Leu Pro Ala His Leu Arg Lys Lys His Leu Ala Thr Ala Arg
 65 70 75 80

<210> 5058
 <211> 20
 <212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5058

Leu Tyr Arg Leu Leu His Arg Ile Leu Lys Lys Trp Lys Lys Tyr His
1 5 10 15

Ala Arg Ser Thr
20

<210> 5059

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5059

Arg Leu Lys Tyr Tyr Arg Arg Leu Phe Lys Phe Leu Gln Arg Ala Pro
1 5 10 15

Cys Ala Leu Leu
20

<210> 5060

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5060

Arg Leu Lys Phe Tyr Lys Arg Ile Leu Lys Lys Leu Lys Ser Ala Ala
1 5 10 15

Gly Asp Phe Ala Phe Leu
20

<210> 5061

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5061

Leu Trp Lys Tyr Leu Ser Arg Ile Tyr Lys Lys Leu Lys Lys Lys Thr
1 5 10 15

Ala Arg Leu Pro Ala
20

<210> 5062

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5062

Leu Trp Lys Leu Trp Arg Lys Leu Met Arg Lys Phe Pro His Gln Cys
1 5 10 15

Ala Tyr Asp Arg Lys Ala His Ala Ala Gly Lys Trp Ala Lys Ala Lys
20 25 30

Ala Gln Arg Asn Val Ala His Met
35 40

<210> 5063

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5063

Leu Leu Arg Phe Leu Arg Lys Phe Tyr Lys Phe Leu Lys Lys Gln Thr
1 5 10 15

Val Met Ala Leu Arg Thr Lys Met
20

<210> 5064

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5064

Phe Phe Lys Met Leu Arg Arg Met Leu Lys Arg Trp Thr Lys Gln Ala
1 5 10 15

Phe Ala Arg Arg Val Ala Ala Leu Arg Leu Lys Ala His
20 25

<210> 5065

<211> 63

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5065

Leu Phe Lys Phe Ile Arg Arg Ile Tyr Arg Arg Phe Arg Arg Leu Trp
1 5 10 15

Leu Leu Arg Tyr Met Gly Gly Tyr Cys Val Thr Ala Ala Pro Ala Leu
20 25 30

Arg Arg Arg Thr Ala Gly Leu Cys Arg Arg Arg Arg Asp Arg Met Ala
35 40 45

Arg Pro Lys Lys Arg Asp Cys Leu Cys Leu Pro Asp Ala Cys Ala
50 55 60

<210> 5066

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5066

Lys Trp Lys Met Phe His Lys Leu Leu Arg Leu Leu Thr Arg Lys Trp
1 5 10 15

His Ala Lys Leu Asn His Ala Asn
20

<210> 5067

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5067

Met Leu Arg Tyr Phe Asn Lys Phe Tyr Lys Leu Met Arg Arg Ala Ala
1 5 10 15

Arg Cys Arg Leu Leu Arg Leu Thr Tyr Ser Gln Lys
20 25

<210> 5068

<211> 48

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5068

Arg Phe Arg Phe Leu Arg Arg Leu Met Lys Trp Phe Cys Arg Thr Leu
1 5 10 15

Asn Asn Lys Arg Gly Asn Leu Leu Arg Gln Lys Pro Lys Ala Phe Ala
20 25 30

Leu Cys Ala Lys Leu Leu Lys Arg Gln Phe Pro Ala Ala Arg Glu Lys
35 40 45

<210> 5069

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5069

Lys Phe Lys Phe Trp Pro Arg Leu Tyr Lys Lys Trp Cys Lys Ala Ala
1 5 10 15

Ala Thr Phe Ala
20

<210> 5070

<211> 53

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5070

Ile Leu Arg Met Ile Asn Lys Leu Ile Arg Leu Trp Arg Arg Met Ser
1 5 10 15

Leu Ala Arg Asp Phe Arg Leu Asn Ala Arg Val Leu Val Ala Ala Cys
20 25 30

Asn Ala Lys Ile Leu Gly Ala Ala His Ile Leu Leu Gln Gly Lys Lys
35 40 45

Gly Lys Leu Ala Lys
50

<210> 5071

<211> 62

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5071

Trp Ile Lys Trp Ile Lys Lys Phe Leu Lys Lys Met Lys Lys Asn Lys
1 5 10 15

Ala Leu Leu Gly Lys Arg Arg Lys Leu Leu Ala Val Asn Ile Leu Arg
20 25 30

Asp Lys Ala Ala Ala Leu Val Arg Arg Tyr Ala Ala Ala Ser His Leu
35 40 45

Cys Gln Lys Ala Lys Tyr Arg Trp Asp Pro Gln Leu Arg Val
50 55 60

<210> 5072

<211> 44

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5072

Lys Leu Lys Leu Met Lys Arg Phe Phe Arg Lys Phe Ser Arg Leu Lys
 1 5 10 15

Gln Lys Ile Pro Arg Ala Glu Asp Leu Ala Leu Asn Met Leu Phe Leu
 20 25 30

Phe Asp Ala Gln Ala Leu Lys Arg Thr Leu Trp Thr
 35 40

<210> 5073

<211> 95

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5073

Lys Phe Lys Phe Trp Lys Lys Leu Tyr Lys Lys Leu Lys Arg Met Leu
 1 5 10 15

Pro Trp Leu Pro Ala Ala Gly His Asn Glu Lys Val Arg Leu Asp His
 20 25 30

Pro Phe Ser Phe Lys Leu Leu Leu Lys Ala Arg Glu Thr Ile Glu Asp
 35 40 45

Arg Gly Lys Lys Leu Met Leu Trp Thr Lys Leu Tyr Arg Ala Ser Arg
 50 55 60

Tyr Ala Pro Ala Leu Cys Lys Arg Tyr Arg Leu Gly Arg Cys Arg Lys
 65 70 75 80

Tyr Thr Ala Ala Thr Gln Ala Phe Ser Lys Ala Lys Leu Ala Leu
 85 90 95

<210> 5074

<211> 49

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5074

Lys Leu Arg Trp Tyr Lys Lys Met Phe Arg Leu Leu Thr Pro Ala Arg

1 5 10 15

His Tyr Lys Leu Leu Ala Leu Leu Glu Ala Tyr Met Ala Ala His Leu
20 25 30

Ser Lys Lys Arg Ser Asn Arg Cys Tyr Gly Leu Lys Cys Asn Leu Lys
35 40 45

Arg

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<210> 5075
<211> 38
<212> PRT
<213> Artificial Sequence
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<220>
<223> Computer-generated peptide variant

<400> 5075

Leu Leu Lys Phe Tyr Lys Arg Leu Phe Lys Lys Ile Arg Pro Lys Thr
1 5 10 15

Val Leu Leu Gln Ala Leu Tyr Leu Asp Cys Ala Leu Met His Arg Arg
20 25 30

Ala Lys Asp Ala Thr Cys
35

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<210> 5076
<211> 29
<212> PRT
<213> Artificial Sequence
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<220>
<223> Computer-generated peptide variant

<400> 5076

Ile Leu Arg Trp Tyr Thr Arg Tyr Leu Arg Trp Trp Arg Lys Lys His
1 5 10 15

Ala Ala Thr Met Leu Lys Lys Lys Glu Leu His Cys Leu
20 25

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<210> 5077
<211> 83
<212> PRT
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<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5077

Leu Leu Arg Ile Phe Lys Lys Leu Tyr Arg Lys Leu Asn Lys Cys Arg
1 5 10 15

Cys Tyr Ser Ala Ala Ile Leu Ile Leu Lys Ile Lys Ala Leu Lys Arg
20 25 30

Arg Phe Leu Arg His Lys Leu Leu Gly Glu Ile Ala Val Arg Lys Cys
35 40 45

Glu Lys Ala Pro Cys Val Val His Lys Arg Val Trp Asn Leu Phe Asp
50 55 60

Cys Glu Ser Val Glu Lys Lys Ala Tyr Arg Ala Glu Ala Pro Leu Arg
65 70 75 80

Leu Lys Arg

<210> 5078

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5078

Arg Leu Lys Met Met Lys Lys Leu Phe Arg Phe Leu Asn Arg Met Gly
1 5 10 15

Leu Leu Gln Arg
20

<210> 5079

<211> 49

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5079

Arg Phe Lys Met Met Gln Lys Leu Ile Lys Met Tyr Pro Lys Ala Thr
 1 5 10 15

Trp Gly Arg Val Lys Ser Lys Arg Ala Leu Arg Leu Pro Ala Asp Ala
 20 25 30

Asp Lys Lys Pro Leu Met Ala Gln Pro Lys Ala Ala Arg Lys Lys Leu
 35 40 45

Gln

<210> 5080
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5080

Leu Ile Arg Phe Leu His Arg Phe Leu Arg Arg Met Pro Lys Lys Thr
 1 5 10 15

Leu Gly Lys Leu Lys Ser Leu Lys Ser Met Thr Lys Lys Asn Leu Ile
 20 25 30

Leu Gly Glu Leu
 35

<210> 5081
 <211> 27
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5081

Leu Leu Lys Trp Met Arg Lys Leu Met Arg Leu Leu Thr Lys Asn Phe
 1 5 10 15

Cys Pro Leu Cys Ala Arg Tyr Arg Gln Lys Gly
 20 25

<210> 5082

<211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5082

Lys Met Arg Trp Tyr Lys Arg Met Trp Lys Arg Ile Arg Arg Ala Leu
 1 5 10 15

Leu Gly Ala Pro Lys Arg Leu Ala Leu Ala Leu Pro Met Arg Glu Asn
 20 25 30

Ala Ile Gln
 35

<210> 5083
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5083

Phe Phe Lys Tyr Leu Lys Lys Leu Leu Arg Lys Met Lys Cys Gln Leu
 1 5 10 15

Ala Lys Leu Lys His Ala Trp Gly Gly Lys Arg Thr Leu Arg Gln Pro
 20 25 30

Phe Val

<210> 5084
 <211> 56
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5084

Lys Leu Arg Leu Met Arg Arg Leu Ile Lys Tyr Leu Arg Arg Asp Ala
 1 5 10 15

Gly Lys Leu Met Ile Lys Ala His Arg Lys Gly Trp Leu Ala Ile Arg

20

25

30

Ala Asp Trp Lys Cys Leu Trp Lys Leu Cys Val Asp Arg Trp Ala Gln
 35 40 45

Arg Lys Met Gln Tyr His Ala Arg
 50 55

<210> 5085
 <211> 27
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5085

Leu Tyr Arg Leu Ile Lys Arg Ile Ile Arg Arg Leu Asn Ser Tyr Leu
 1 5 10 15

Arg Ala Leu Cys Ile Lys Val Lys Ala Ser Asn
 20 25

<210> 5086
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5086

Arg Tyr Lys Trp Phe Cys Arg Leu Trp Lys Tyr Ile Arg Lys Arg Leu
 1 5 10 15

Asn Ala Phe Ser Leu Leu Ala Leu Arg Leu Arg Gln Pro Gly Leu Val
 20 25 30

Ser Ala Phe Gly Gln Leu Arg Ala
 35 40

<210> 5087
 <211> 49
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5087

Ile	Met	Lys	Leu	Leu	Ser	Arg	Trp	Phe	Lys	Leu	Leu	Pro	Ser	Arg	Pro
1				5					10					15	

Gln	Leu	Trp	Gly	Leu	Glu	Lys	His	Arg	Ile	Leu	Arg	Leu	Lys	Glu	Leu
			20					25					30		

Arg	Arg	Lys	Leu	Ala	Lys	Leu	Ala	Arg	Arg	Glu	Lys	Asn	Ser	Arg	Asp
		35					40					45			

Ile

<210> 5088

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5088

Lys	Leu	Lys	Leu	Leu	Gln	Arg	Phe	Leu	Lys	Lys	Trp	Lys	His	Tyr	Thr
1				5					10					15	

Asp	Leu	Leu	Leu	Ser	His	Leu	Leu	Tyr	Lys	Lys	Pro	Gln	Lys	Arg	Arg
			20					25					30		

Ser	Gly	Trp
		35

<210> 5089

<211> 52

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5089

Met	Phe	Lys	Trp	Phe	Lys	Lys	Leu	Leu	Arg	Lys	Tyr	Gln	Arg	Leu	Thr
1				5					10					15	

Leu	Lys	Asn	Lys	Ser	Ala	Ala	Ala	Lys	Tyr	Asn	Leu	Phe	Arg	Arg	Arg
			20					25					30		

Arg Cys Lys Arg Cys Leu Thr Arg Ser Ala Cys Ala Met Trp Met Gln
 35 40 45

Lys Ile Ser Leu
 50

<210> 5090
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5090

Leu Met Lys Trp Leu Arg Lys Tyr Leu Lys Leu Leu Ser Arg Met Ser
 1 5 10 15

Ala Lys Ala Asn Ser Arg Lys Ile Leu Val Lys Lys Glu Leu Asn Lys
 20 25 30

Leu

<210> 5091
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5091

Met Met Arg Tyr Tyr Arg Lys Trp Ile Lys Leu Ile Pro Pro Leu Arg
 1 5 10 15

Met Lys Lys Ala Asn Arg Leu Ala Arg Ala Val Ala Leu Tyr Gln Trp
 20 25 30

Ala Lys

<210> 5092
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5092

Leu Leu Lys Leu Tyr Arg Lys Trp Met Lys Lys Leu His Lys Lys Cys
 1 5 10 15

Ala Ser Ala Arg Phe Ala Ile Ile
 20

<210> 5093

<211> 47

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5093

Arg Leu Lys Phe Tyr Thr Arg Met Leu Arg Leu Leu Ser Arg Thr Arg
 1 5 10 15

Asp Thr Ser Phe Arg Asn Lys Gly Arg Ala His Arg Arg Ala Val Leu
 20 25 30

Met Gln Ile Arg Leu Arg Arg Trp Thr Ala Ala Lys Val Met Ala
 35 40 45

<210> 5094

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5094

Lys Leu Lys Trp Phe Arg Arg Phe Leu Lys Ile Tyr Arg Arg Thr Cys
 1 5 10 15

Leu Asp Phe Leu Tyr Cys Pro Ala Asp Lys Arg Lys Ala Leu Leu Val
 20 25 30

Gln Lys

<210> 5095

<211> 85
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5095

Phe Leu Arg Leu Leu Lys Lys Phe Leu Lys Lys Phe Ser Cys Asn Ala
 1 5 10 15

Ala Glu Ala Asn Arg Lys Pro Asn Leu Arg Met His Pro Ala Trp Tyr
 20 25 30

Arg Arg Cys Ala Ala Leu Arg Gly Lys Trp Ala Met Arg Ala Ala Glu
 35 40 45

Tyr Gly Asn Ser Arg Asp Trp Ala Ala Gly Leu Phe Lys Arg Lys Arg
 50 55 60

Leu Ile Leu Arg Lys Glu Glu Leu Lys Ile Arg Ile Ala Leu Ile Ala
 65 70 75 80

Lys Glu Met Cys Val
 85

<210> 5096
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5096

Phe Met Arg Tyr Leu His Arg Phe Trp Lys Lys Leu Gln Arg Leu Arg
 1 5 10 15

Arg Leu Lys Arg Gln Phe Pro Asn Ala Asn Leu Glu Ala
 20 25

<210> 5097
 <211> 75
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5097

Arg Met Arg Trp Leu Ser Arg Phe Leu Lys Met Trp Pro Gln Leu Ile
1 5 10 15

Leu Lys Lys Arg Arg Arg Ile Phe Tyr Gly Ala Thr Met Val Met Ala
20 25 30

Arg Leu Lys Lys Leu Ile Lys Lys His Lys Cys Trp Arg Ala Ala Val
35 40 45

Arg Leu Lys Ala Arg Ala Pro Pro Leu Ile Lys His Ala Ala Arg Lys
50 55 60

Gly Ala Lys Gln Val Gly Met Ile Ala Trp Lys
65 70 75

<210> 5098

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5098

Lys Leu Arg Phe Phe Lys Arg Tyr Phe Lys Leu Leu Pro Arg Lys Gln
1 5 10 15

Met Trp Leu Cys Ala
20

<210> 5099

<211> 31

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5099

Lys Tyr Lys Tyr Trp Ser Arg Leu Leu Arg Lys Leu Arg His Lys Lys
1 5 10 15

Leu Ile Tyr Leu Arg His Ala Glu Ala Arg Ala Asn Asp Tyr Leu
20 25 30

<210> 5100
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5100

Arg Leu Lys Tyr Leu Lys Arg Met Phe Lys Leu Tyr Arg Lys Arg Tyr
 1 5 10 15

Pro Val Asp Arg Leu Glu Leu Pro Ala Ala Ser Cys Leu His Lys Glu
 20 25 30

Ala Tyr

<210> 5101
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5101

Arg Leu Lys Trp Phe Lys Arg Leu Met Arg Leu Ile Ser Asn Pro Leu
 1 5 10 15

Leu Ala Ala Ile Ile Arg Arg Arg His Asn Ala Pro Tyr
 20 25

<210> 5102
 <211> 67
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5102

Lys Leu Arg Leu Trp Lys Lys Leu Leu Arg Lys Tyr Arg Lys Arg Asn
 1 5 10 15

Thr Arg Tyr Ala Trp Ser Leu Leu Lys Ala Ser Glu Ala Ala Val Leu
 20 25 30

Arg Leu Pro Pro Tyr Trp Tyr Gln Arg Cys Arg Lys Pro Leu Val Gly
 35 40 45

Lys Gln Lys Ala Lys Ser Glu Ala His Arg His Ala Ala Arg Asp Glu
 50 55 60

Trp Gly Arg
 65

<210> 5103
 <211> 74
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5103

Lys Leu Arg Phe Leu Pro Lys Phe Phe Lys Leu Trp Lys Lys Leu Trp
 1 5 10 15

Ala Lys Arg Asn Leu Ala Leu Ala Thr Gly Phe Trp Val Ala Ser Lys
 20 25 30

Gln Asn Lys Lys Arg Gln Arg Leu Glu Ala Ala Lys Leu Lys Asp Asp
 35 40 45

His Lys Lys Ala Gln Leu Gly Lys Ile Lys Asn Lys Ser Asn Glu Met
 50 55 60

Leu Leu Arg Ser Lys Leu Pro Lys Thr Arg
 65 70

<210> 5104
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5104

Arg Met Lys Leu Trp Arg Arg Ile Trp Lys Lys Tyr Arg Ser Ala Lys
 1 5 10 15

Ala Ala Arg His Arg Ala Gln Ala Lys Met Leu Val Cys Pro Leu Leu

20

25

30

Gln Lys Lys Pro Leu Tyr Val Cys
 35 40

<210> 5105
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5105

Arg Phe Lys Phe Met Thr Arg Leu Ile Lys Tyr Ile Lys Arg Leu Leu
 1 5 10 15

Lys Leu Leu Tyr Lys Ala His
 20

<210> 5106
 <211> 38
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5106

Lys Leu Arg Leu Leu His Lys Leu Leu Arg Lys Phe Cys Cys Lys Asp
 1 5 10 15

Ala Ala Gln Leu Lys Ala Arg Met Pro Asp Lys Leu Ile Ala Met Val
 20 25 30

Thr Trp Leu Leu Arg Cys
 35

<210> 5107
 <211> 37
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5107

Met Ile Arg Phe Tyr Lys Lys Leu Leu Arg Leu Tyr Lys Arg Ala Ala

Ala Glu Gly Leu Ala
65

<210> 5110
<211> 51
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 5110

Arg Leu Lys Leu Ile Ser Lys Met Leu Arg Tyr Trp Arg Gln Val Leu
1 5 10 15

Ala Lys Lys Phe Lys Lys Leu Thr Leu Lys Leu Arg Asp Leu Ile Gln
20 25 30

Arg Val Ala Tyr Leu Gln Arg Asp Ser Leu Leu Lys Asn Leu Arg Val
35 40 45

Ala Met Thr
50

<210> 5111
<211> 41
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 5111

Tyr Met Arg Leu Leu Gln Lys Met Met Lys Phe Phe Lys Lys Pro Arg
1 5 10 15

Val Leu Ala Ala Asp Asp Arg Leu Lys Ser Pro Ala Ala Thr Ala Leu
20 25 30

Ser Lys Asn Tyr Thr Leu Ala Lys Arg
35 40

<210> 5112
<211> 32
<212> PRT
<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5112

Met	Leu	Arg	Leu	Met	Arg	Lys	Leu	Leu	Arg	Lys	Tyr	Arg	Lys	Leu	Lys
1				5					10					15	

Pro	Ile	Cys	Thr	Ala	His	Lys	Leu	Cys	Leu	Val	Ala	Asn	Lys	Arg	Arg
			20					25					30		

<210> 5113

<211> 62

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5113

Met	Tyr	Arg	Phe	Tyr	Lys	Lys	Ile	Leu	Arg	Lys	Tyr	Arg	Asn	Ala	Ile
1				5					10					15	

Trp	Lys	Lys	Ala	Tyr	Ala	Ala	Phe	Arg	Ala	Ala	Lys	Asp	Pro	Met	Arg
			20					25					30		

Arg	Arg	Lys	Glu	Ala	Glu	Pro	Leu	Pro	Ile	Ser	Leu	Asn	Leu	Lys	Lys
		35					40					45			

Arg	Arg	Ala	Cys	His	Lys	Asn	Ala	Ala	Glu	Leu	Ala	Tyr	Arg
	50					55					60		

<210> 5114

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5114

Leu	Leu	Arg	Tyr	Phe	His	Arg	Tyr	Ile	Lys	Lys	Leu	Lys	Ser	Ala	Leu
1				5					10					15	

Val	Arg	Arg	Ala	Asn	Arg	Arg	Asn	Lys	Leu	Pro	Ala	Ile	Val	Arg	Lys
			20					25					30		

Leu

<210> 5115
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5115

Ile Leu Arg Tyr Leu Arg Arg Trp Leu Arg Lys Leu Thr Lys Ile Pro
 1 5 10 15

Lys Asp Asn Lys Ala Gly Ala Ala Ile Lys Phe Ala
 20 25

<210> 5116
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5116

Lys Leu Arg Tyr Leu Thr Lys Leu Leu Arg Met Leu Lys Lys Lys Met
 1 5 10 15

Leu Tyr Ser Leu Val Lys Val Ser Arg
 20 25

<210> 5117
 <211> 68
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5117

Arg Trp Lys Trp Leu Lys Arg Met Tyr Lys Lys Leu Arg Asn Arg Ala
 1 5 10 15

Pro Leu Glu Pro Thr Thr Val Leu Lys Lys Ser Arg Leu Pro Arg Ala
 20 25 30

Asp Arg Ala Ala Leu Leu Arg Gln Arg Thr Ala Arg Gly Lys Asp Ser

35

40

45

Pro Ala Trp Leu Met Ser Ser Phe Phe Leu Arg Lys Arg Ala Lys Pro
 50 55 60

Phe Trp Phe Leu
 65

<210> 5118

<211> 93

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5118

Lys Phe Lys Ile Phe Lys Lys Trp Leu Lys Lys Ile Lys Lys Leu His
 1 5 10 15

Ala Leu Arg Leu Arg Ala Val Thr Arg Arg Leu Ala Ala Leu Phe Glu
 20 25 30

Cys Ala Arg Lys Ala Ala Val Lys Asp Leu Ala His Thr Phe Lys Gln
 35 40 45

Trp Ala Ile Ser Leu Pro Met Cys Ser Lys Ala Lys Trp Tyr Leu Gly
 50 55 60

Lys Pro Leu Leu Tyr Glu Lys Ala Met Met Leu Ala Phe Thr Arg Val
 65 70 75 80

Arg Leu Ala Arg Leu Asn Ile Glu Leu Phe Asp Asp Arg
 85 90

<210> 5119

<211> 43

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5119

Ile Met Arg Phe Phe Lys Lys Trp Phe Lys Lys Phe Arg Gln Ala Leu
 1 5 10 15

Arg Trp Arg Ala His Ala Lys Arg Cys Leu Val Leu Leu Lys Ala Ser
 20 25 30

Arg Gln Thr Ala Thr His Leu Lys Lys Gly Ala
 35 40

<210> 5120
 <211> 39
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5120

Ile Ile Lys Tyr Leu Arg Lys Met Met Arg Arg Leu Arg Arg Leu Lys
 1 5 10 15

Leu Leu Phe Lys Arg Lys Thr Lys Ala Glu Leu Ser Leu Cys His Leu
 20 25 30

Pro Arg Ala Trp Ala Thr Lys
 35

<210> 5121
 <211> 51
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5121

Lys Phe Arg Leu Trp Thr Arg Tyr Leu Lys Tyr Leu Thr Arg Leu Lys
 1 5 10 15

Ala Ala Met Leu Ala Leu Ser Ala Lys Ile Cys Lys Ala Ala Trp Lys
 20 25 30

Arg Arg Val Arg Arg Ala Ala Arg Thr Arg Leu Arg Lys Tyr Trp Lys
 35 40 45

Asn Lys Ala
 50

<210> 5122

<211> 69
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5122

Arg Ile Arg Ile Ile Lys Arg Phe Leu Lys Lys Trp Arg Lys Leu Arg
 1 5 10 15

Ala His Ser Cys Pro Met Ser Cys Gly Trp Ala Cys Ala Leu Arg Leu
 20 25 30

Lys Arg Arg Ala Trp Asp Thr Phe Lys Asn Leu Trp Phe Leu Arg Asp
 35 40 45

Leu Thr Lys Ala Leu Arg Val Lys Leu Arg Arg Ala Ile Trp Trp Gly
 50 55 60

Ala Leu Ala Ala Ser
 65

<210> 5123
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5123

Ile Leu Arg Phe Leu Arg Lys Trp Leu Lys Arg Phe Thr Cys His Phe
 1 5 10 15

Arg Ala Lys Leu Leu Arg Lys Ala Leu Leu Gly Ala Lys Arg Arg Ile
 20 25 30

Asp Gln Ala
 35

<210> 5124
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5124

Arg Ile Arg Trp Met Asn Arg Leu Leu Lys Arg Ile Arg Arg Ala Gln
 1 5 10 15

Cys Phe Val Lys Ala Ala Tyr Trp Arg Tyr Leu Leu Lys Arg Val Trp
 20 25 30

Lys Ala Met Ala Trp Ser Lys Cys
 35 40

<210> 5125

<211> 85

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5125

Lys Leu Lys Leu Met Lys Lys Leu Leu Lys Arg Ile Lys Arg Asn Phe
 1 5 10 15

Arg Arg Lys Leu Ala Gln Ala Ser Leu His Ala Leu Glu His Trp Ile
 20 25 30

Asp Leu Leu Lys Pro Arg Arg Leu Ser Asp Leu Asp Pro Tyr Ala Ile
 35 40 45

Ser Thr Lys Ala Lys Ile Ala Arg Met Lys Ala Gln Tyr Tyr Thr Gly
 50 55 60

Lys Cys Ala Val Thr Ala Ala Arg Trp Ala Lys Thr Pro Leu Met Leu
 65 70 75 80

Leu Arg Phe Phe Cys
 85

<210> 5126

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5126

Tyr Leu Lys Met Leu Thr Lys Leu Phe Arg Arg Phe Lys Thr Ala Arg
 1 5 10 15

Tyr Pro Arg Ala
 20

<210> 5127
 <211> 47
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5127

Lys Phe Lys Leu Trp Arg Lys Phe Tyr Lys Leu Ile Arg Ser Lys His
 1 5 10 15

His Ala Leu Leu Asp Arg Ile Lys Met Lys Asp Leu Ser Met Lys Asn
 20 25 30

Val Gly Phe Ile Ala Ala Arg Ala Glu Lys Leu Leu Lys Thr Ala
 35 40 45

<210> 5128
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5128

Arg Phe Lys Leu Leu Lys Lys Trp Phe Lys Arg Leu Gln Cys Val Lys
 1 5 10 15

Thr Arg Leu Ala Ser Ala Ala Val Asn Lys Ala Lys
 20 25

<210> 5129
 <211> 62
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5129

Lys Leu Arg Leu Tyr Lys Lys Tyr Ile Arg Lys Met Gln Arg Lys Gln
 1 5 10 15

Tyr Thr Arg Ala Arg Ala Pro Lys Ala Lys Arg Leu Leu Ser Lys Ser
 20 25 30

Tyr Val Ile Ser Pro Gly Arg Ala Leu Ala Leu Pro Gln Lys Asp Leu
 35 40 45

Tyr Lys Leu Trp Leu Ala Lys Ala Glu Ser Asp Leu Ala Cys
 50 55 60

<210> 5130

<211> 52

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5130

Arg Ile Lys Leu Met His Arg Trp Phe Lys Lys Leu Lys Arg Lys Tyr
 1 5 10 15

Cys Leu Val Glu Lys Lys Leu Asp Tyr Ala Ala Val Ala Arg Ile Ala
 20 25 30

Cys Lys Leu Val Arg Ile Ala Ala Ala Asp Glu Lys Leu Leu Tyr Ile
 35 40 45

Ala Ala Thr Met
 50

<210> 5131

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5131

Leu Leu Arg Ile Tyr Asn Lys Ile Phe Lys Lys Leu Arg Cys Leu Lys
 1 5 10 15

Met His Val Leu Arg

20

<210> 5132
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5132

Lys Phe Arg Met Leu Cys Arg Trp Trp Lys Leu Leu Arg Pro Leu Ile
 1 5 10 15

Thr Arg Arg Arg Leu Arg Val Leu Ala Ala Met Lys Ala
 20 25

<210> 5133
 <211> 49
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5133

Phe Phe Lys Met Phe Lys Arg Leu Leu Lys Arg Phe Lys Lys Leu Leu
 1 5 10 15

Arg Met Leu Cys Leu Ala Lys Glu Asn Ala His Gly Lys Gly Glu Tyr
 20 25 30

Ala Asn Pro Phe Lys Lys Ala Lys His Leu Leu Cys Cys Arg Asn Leu
 35 40 45

Tyr

<210> 5134
 <211> 70
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5134

Met Leu Lys Ile Tyr Lys Arg Leu Leu Arg Leu Tyr Thr Lys Lys Lys

[illegible]

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<210> 5135
<211> 50
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 5135
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Arg Tyr Arg Leu Ile Thr Arg Leu Tyr Lys Arg Tyr Arg Pro Arg Gly
1          5          10          15
Ser Phe Thr Leu Val His Lys Lys Arg Lys Ala Pro Gln Arg Phe Ala
          20          25          30
Pro Phe Glu Ala Lys Lys Ala Leu Ser Ala His Gly Lys Gly Ala Arg
          35          40          45
Ala Leu
          50

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<210> 5136
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 5136
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Arg Phe Lys Trp Leu Lys Arg Phe Tyr Arg Lys Leu Arg Gln Gln Ile
1 5 10 15

Lys Val Leu Ala Leu Ile Lys Pro Ala Lys Trp Ala Phe Trp
 20 25 30

<210> 5137
 <211> 26
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5137

Arg Phe Arg Phe Leu Cys Arg Leu Ile Lys Leu Met Arg Asn Leu Leu
 1 5 10 15

Tyr Lys Pro Leu Leu Arg Pro Lys Asn Val
 20 25

<210> 5138
 <211> 47
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5138

Arg Phe Lys Tyr Leu Arg Arg Leu Phe Arg Lys Leu Lys Lys Phe Ile
 1 5 10 15

Trp Lys Gly Asp Phe Leu Leu Thr Lys Trp Trp Ala Phe Leu His Ala
 20 25 30

Lys Val Arg Ala Lys Pro Arg His Ser Arg Glu Ala Ala Phe Tyr
 35 40 45

<210> 5139
 <211> 82
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5139

Leu Met Arg Leu Ile Lys Lys Trp Tyr Lys Tyr Met Arg Cys Leu Leu
 1 5 10 15

Leu Pro Lys Leu Leu Ala Tyr Ala Lys Pro Leu Asn Ala Lys Met Ala
 20 25 30

Leu Thr Arg Met Arg Lys Lys Arg Val Arg Ala Met Leu Asp Met His
 35 40 45

Ala Val Ala Arg Met Gln Leu Ala Trp Lys Asp Glu Ala Leu Asp Ala
 50 55 60

Leu Asn Leu Val Tyr Lys Arg Arg Gly Ala Val Arg Leu Glu Glu Met
 65 70 75 80

Phe Tyr

<210> 5140
 <211> 44
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5140

Lys Trp Lys Trp Leu Arg Lys Leu Trp Lys Tyr Phe Arg Lys Leu Asn
 1 5 10 15

Gln Leu Lys Leu Leu Trp Leu Ala Asn Tyr Ala Arg Cys Pro Gln Lys
 20 25 30

Tyr Arg Leu Lys Lys Met Leu Lys Trp Asn Val Leu
 35 40

<210> 5141
 <211> 55
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5141

Leu Leu Lys Ile Leu Thr Lys Met Phe Lys Arg Leu Lys Lys His Lys
 1 5 10 15

Thr Asn Arg Ala Leu Arg Leu Ile Lys Ile Met Val Lys Ala Leu Asn

20

25

30

Lys Ala Lys Leu Lys Ala Tyr Pro Tyr Leu Lys Leu Val Arg Ile Lys
 35 40 45

Glu Ile Arg His Arg His Gly
 50 55

<210> 5142

<211> 60

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5142

Arg Phe Arg Met Tyr Lys Arg Ile Leu Lys Leu Leu Arg Arg Pro Lys
 1 5 10 15

Phe Pro Leu Ile Ile Met Cys Phe Trp Asn Arg Asp Trp Arg Pro Ala
 20 25 30

Leu Asn Leu Ala Lys Cys Glu Ser Glu Arg Arg Arg Tyr Ile Ile Leu
 35 40 45

Ala Ala Leu Lys Lys Leu Phe Lys Ala Ala Gln Lys
 50 55 60

<210> 5143

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5143

Arg Leu Lys Trp Leu Cys Lys Phe Tyr Arg Leu Leu Pro Arg Ala Arg
 1 5 10 15

Lys Leu Leu Arg Gly Trp Glu Tyr Gly Thr Ala His Asn
 20 25

<210> 5144

<211> 31

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5144

Arg Leu Arg Trp Trp Cys Arg Leu Trp Arg Arg Met Lys Lys Ala Ala
1 5 10 15

Phe Ala Phe Lys Gly Gln Leu Lys Leu Ser Thr Glu Leu Ala Asn
20 25 30

<210> 5145

<211> 38

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5145

Arg Leu Arg Leu Phe His Arg Ile Tyr Arg Lys Leu Lys Arg Gly Ile
1 5 10 15

Gln Asp Ala Trp Arg Leu Arg Leu Gln Glu Met Leu Ala Leu Lys Lys
20 25 30

Gln Lys Lys Leu Tyr Leu
35

<210> 5146

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5146

Lys Leu Lys Phe Leu Asn Arg Ile Trp Arg Met Leu Cys Cys Leu Ala
1 5 10 15

Ala Pro Leu Glu Val Gly Lys Arg Tyr Lys Lys
20 25

<210> 5147

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5147

Lys Trp Lys Phe Ile Gln Arg Phe Phe Arg Arg Tyr Thr Lys Ala Tyr
1 5 10 15

Asp Lys Leu Leu Leu Leu Leu
20

<210> 5148

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5148

Tyr Ile Lys Leu Met Arg Lys Phe Met Lys Leu Leu Lys Lys Ile Ile
1 5 10 15

Ala Leu Thr Arg Tyr Ala Lys Tyr
20

<210> 5149

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5149

Lys Met Arg Tyr Phe Ser Lys Trp Leu Arg Trp Ile Lys Lys Ser Ala
1 5 10 15

Ala Leu Ala Tyr Lys Pro Leu Lys
20

<210> 5150

<211> 39

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5150

Lys Met Arg Met Phe Lys Lys Ile Phe Arg Phe Trp Thr Asn Leu Ala
 1 5 10 15

Ala Cys Ala Cys Arg Leu Ala Ile Ala Arg Leu Cys Cys Leu Leu Glu
 20 25 30

Gly Glu Leu Arg Lys Arg Leu
 35

<210> 5151

<211> 44

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5151

Arg Leu Arg Met Leu His Arg Leu Trp Arg Lys Phe Arg Arg Thr Asp
 1 5 10 15

Arg Met Trp Arg Arg Ala Tyr His Lys Gln Arg Leu Asp Phe Asp Leu
 20 25 30

Leu Ala Leu Gln Ser Ala Ala Arg Lys Asp Ile His
 35 40

<210> 5152

<211> 57

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5152

Arg Phe Lys Phe Leu Lys Arg Met Leu Lys Arg Phe Lys Lys Ala Ala
 1 5 10 15

Cys Lys His Tyr Pro Ile Lys Lys Leu Arg Thr Arg Asn Leu Pro Cys
 20 25 30

Pro Leu Met Thr His Ala Gly Ser Arg Leu Leu Gln Leu Lys Arg Arg
 35 40 45

Leu Thr Ala Gln Arg Leu Gln Ile His
 50 55

<210> 5153
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5153

Lys Met Arg Met Leu Arg Arg Trp Ile Lys Leu Leu Asn Lys Ala Lys
 1 5 10 15

Val Ala Leu Phe Gln Gly
 20

<210> 5154
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5154

Trp Met Lys Leu Phe Lys Lys Met Leu Arg Leu Met Thr Lys Ile Ile
 1 5 10 15

Gln Ala Thr Thr Leu Arg Lys Lys Leu
 20 25

<210> 5155
 <211> 50
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5155

Arg Leu Arg Trp Met Arg Arg Tyr Leu Lys Leu Ile Arg Ser Ile Leu
 1 5 10 15

Arg Ala Ala Ala Ala Arg Ala Tyr Ala Asn Ala Pro Trp Gln Leu Tyr
 20 25 30

Arg Phe Leu Ala Arg Leu Trp Trp Gly His Lys Asn Ala Asn Arg Leu
 35 40 45

Arg Ala
 50

<210> 5156

<211> 86

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5156

Phe Met Lys Phe Leu Arg Lys Trp Leu Lys Phe Met Lys Arg Ala Ser
 1 5 10 15

Gln Val His Cys Leu Lys Lys Leu Leu Asn Ala Arg Leu Thr Phe Met
 20 25 30

His Lys Pro Arg Lys Arg Ala Val Leu Arg Arg Ser Ala Arg Pro Gly
 35 40 45

Cys Glu Lys Cys Ala Met Arg Cys Thr Val Lys Ala Arg Arg Leu Asp
 50 55 60

Leu Phe Arg Leu Cys Gln Ala His Ala Ala Arg Gln Ile Cys Leu Lys
 65 70 75 80

Ile Gln Lys Lys Arg Leu
 85

<210> 5157

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5157

Leu Phe Lys Phe Met Arg Arg Leu Leu Arg Arg Trp Pro Lys Leu Lys
 1 5 10 15

Arg Leu Pro Leu Glu Pro Asp Val

20

<210> 5158
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5158

Lys Leu Arg Ile Leu Arg Lys Ile Met Arg Lys Trp His Ser Leu Arg
 1 5 10 15

Ala Thr Gly Gln Gly Thr Phe Ala Lys Ala Leu Ala Pro Lys Leu Lys
 20 25 30

Asp Arg

<210> 5159
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5159

Lys Trp Lys Leu Met Lys Arg Met Leu Arg Tyr Leu Gln Asn Lys Leu
 1 5 10 15

Leu Ala Leu His Phe Val His Ala Arg Pro Ala Arg His Arg His Gln
 20 25 30

Gly His Lys Ala Tyr Lys Ala Lys
 35 40

<210> 5160
 <211> 83
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5160

Arg Phe Lys Leu Leu Ser Lys Leu Tyr Arg Lys Tyr His His Lys Lys

1				5					10					15		
Ala	Asp	His	Leu	Ala	Leu	Leu	Phe	Arg	Lys	Arg	Gly	Cys	Ala	Gln	Leu	
			20					25					30			
Arg	Tyr	Ala	Lys	Gln	Arg	Leu	Arg	Ala	Arg	Lys	Ile	Lys	Gln	Ile	Ala	
		35					40					45				
Tyr	Lys	Ala	Trp	Ala	Leu	Trp	Ala	Glu	Ser	Gly	Arg	Arg	Met	Gln	Leu	
	50					55					60					
Lys	Asp	Leu	Thr	Leu	Leu	Phe	Ala	Met	Ala	Arg	Gly	Ala	Leu	Trp	Met	
65					70					75					80	

Arg Ile Arg

```
<210> 5161
<211> 48
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 5161
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Trp Phe Arg Leu Leu His Arg Phe Tyr Lys Lys Leu Lys Arg Ala Glu
1 5 10 15

Lys Arg Asp Leu Tyr Leu Leu Lys Lys Cys Leu Phe Lys Leu Lys Gln
20 25 30

Ala Ile Arg Thr Lys Lys Asn Ala Leu Cys Ala Asp Lys Arg Cys Leu
35 40 45

```
<210> 5162
<211> 70
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 5162
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Arg Leu Arg Leu Ile Arg Lys Phe Phe Arg Met Phe Thr Arg Val Pro
1 5 10 15

Ala Asp His His Ser Lys Ala Asn Ala Leu Gln Lys Arg His Leu Lys
 20 25 30

Ala Tyr Tyr Ala Ala Leu Ala Ile Lys Leu Leu Lys Val His Arg Lys
 35 40 45

Gly Lys Arg Trp Leu Ala Phe Asp Arg Val Pro Asn Ala Lys Asn Leu
 50 55 60

Gly Trp Arg Leu Lys Leu
 65 70

<210> 5163
 <211> 79
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5163

Arg Tyr Arg Leu Leu Lys Arg Phe Trp Arg Lys Leu Arg Pro Ile Ala
 1 5 10 15

Arg His Asn Asp Leu His Leu Ala Thr Trp Leu Leu Leu Lys Lys Asp
 20 25 30

Arg His Ala Phe Ile Gln Tyr Leu Leu Ser Lys Arg Met His Arg Arg
 35 40 45

Lys Lys Leu Val Ile Ser Lys Arg Arg Ile Asn Glu Lys Arg Leu Phe
 50 55 60

Ala Ser Arg Ser Leu Leu Asp Asp Ala Arg Trp Asp Ala Ser Arg
 65 70 75

<210> 5164
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5164

Met Phe Lys Ile Phe Arg Lys Trp Leu Arg Arg Leu Gln Arg Ala Asn

1 5 10 15

Leu Pro Leu Asn Leu Pro Arg
20

<210> 5165
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 5165

Phe Phe Lys Phe Phe Arg Arg Leu Met Arg Arg Met Arg Pro Phe Leu
1 5 10 15

Leu Lys Cys Leu Val Ala Ser Thr Glu Ala Ala Ala Phe Glu Arg Trp
20 25 30

Leu Lys Arg Ala Arg Tyr Ala
35

<210> 5166
<211> 33
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 5166

Lys Met Arg Ile Met Arg Lys Ile Ile Lys Leu Phe Arg Arg Ala Lys
1 5 10 15

Leu Cys His His Cys Lys Phe Lys Asn Ala Glu Leu Ala Leu Leu Asn
20 25 30

Leu

<210> 5167
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 5167

Lys Leu Lys Ile Ile His Lys Met Tyr Lys Arg Ile Arg Pro Leu Pro
 1 5 10 15

His Lys Ala Tyr Ala Leu Leu Arg Arg Met Arg Gln Met Leu
 20 25 30

<210> 5168

<211> 65

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5168

Arg Phe Arg Met Trp Lys Lys Phe Leu Lys Lys Phe Asn Pro Met Asp
 1 5 10 15

Ala Gly Leu Arg Cys Ile Ala Leu Ser Leu Lys Phe Gly Ser Leu Lys
 20 25 30

Phe Val Leu Lys Ile Lys Arg Leu Trp Ser Arg Lys His Ala Arg Leu
 35 40 45

Asp Arg Arg Cys Lys Arg Lys Ala Leu Ala Phe Ala Val Arg Gly Leu
 50 55 60

Leu
 65

<210> 5169

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5169

Arg Phe Lys Leu Trp Lys Arg Ile Phe Arg Arg Ile Arg Lys Leu Ala
 1 5 10 15

Ser Ala Asn Thr Lys Lys Met Ala Leu Gly Cys Leu Leu Leu Thr Arg
 20 25 30

Thr Gly

<210> 5170
 <211> 27
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5170

Leu Leu Arg Phe Phe Arg Arg Phe Ile Lys Lys Ile His Arg Lys Pro
 1 5 10 15

His Gln Tyr Lys Ala Ala Leu Leu Leu Ala Arg
 20 25

<210> 5171
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5171

Lys Phe Lys Leu Leu Cys Lys Leu Trp Arg Leu Trp Ser Ser Lys Lys
 1 5 10 15

Lys Ala Trp His
 20

<210> 5172
 <211> 45
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5172

Lys Tyr Lys Tyr Tyr Pro Arg Leu Tyr Lys Arg Leu Cys Arg Ile Lys
 1 5 10 15

Leu Arg Gln Leu Ala Ala Glu Leu Leu Leu Met Leu Tyr Gly Glu
 20 25 30

Arg Lys Arg Ser Met Leu Lys Thr Val Met Thr Asp Arg
 35 40 45

<210> 5173
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5173

Phe Tyr Lys Tyr Leu Arg Arg Leu Phe Arg Leu Ile Arg Arg Met Lys
 1 5 10 15

Leu Ala Leu Thr Arg
 20

<210> 5174
 <211> 58
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5174

Lys Leu Arg Leu Phe Lys Lys Met Ile Arg Lys Leu His Arg Lys Ala
 1 5 10 15

Val Ala Arg Phe Asp Lys Lys Cys Tyr Arg Lys Ala Ala Lys Leu Pro
 20 25 30

Ala Leu Leu Thr Gly Trp Ala Val His Trp Met Glu Lys Gln Arg Ala
 35 40 45

Lys Ile Arg Leu Pro Pro Cys Ser Cys Thr
 50 55

<210> 5175
 <211> 26
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5175

Tyr Phe Lys Leu Phe Arg Lys Leu Tyr Lys Lys Met Arg Arg Leu Ala
 1 5 10 15

Trp Gly Leu Lys Met Arg Glu Gly Leu Ala
 20 25

<210> 5176

<211> 75

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5176

Arg Phe Arg Leu Tyr Arg Lys Leu Leu Lys Arg Phe Arg Arg Lys Phe
 1 5 10 15

Arg Tyr Leu Trp Leu Thr Gly Gly Ile Leu Glu Tyr Lys Leu Ile Leu
 20 25 30

Asn Ala Arg Asn Leu Val Lys Ala Cys Lys Ala Tyr Thr Pro Ser Lys
 35 40 45

Arg Arg Ala Ala Asp Arg Leu Leu Ala Pro Gln Trp Leu Ala Ile Lys
 50 55 60

Met Lys Ala Arg Met Ile Leu Ser Ser Pro Ile
 65 70 75

<210> 5177

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5177

Lys Trp Lys Met Leu Cys Arg Phe Leu Arg Phe Tyr Thr Arg Ala Ala
 1 5 10 15

Asp Asp Leu Leu Gly Arg Asn Gln Ala Arg Ala Arg Phe Ala Ala Gly
 20 25 30

Lys

<210> 5178
 <211> 51
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5178

Arg Phe Lys Phe Ile Lys Arg Ile Trp Arg Arg Trp Arg Ser Lys Lys
 1 5 10 15

Leu Gly Gly Ala Leu Asn Lys Ser Thr Leu Asn Lys Arg Lys Met Phe
 20 25 30

Ala Leu Leu Leu Ser Arg Cys Lys Leu Cys Arg Ala Met Val Arg His
 35 40 45

Ala Leu Val
 50

<210> 5179
 <211> 37
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5179

Lys Leu Arg Trp Trp His Lys Leu Leu Lys Lys Phe Arg Arg Asp Leu
 1 5 10 15

Ser Phe Trp Arg Pro Met Leu Phe Leu Lys Thr Lys Ser Ala Leu Glu
 20 25 30

Glu Arg Phe Arg Leu
 35

<210> 5180
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5180

Lys Leu Arg Leu Trp Arg Lys Leu Leu Arg Leu Tyr Lys Lys Met Lys
1 5 10 15

Arg Ala Leu Lys Trp Met Gln Leu Leu His Ala Lys Glu Gly
20 25 30

<210> 5181

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5181

Arg Leu Lys Trp Phe Arg Arg Ile Leu Arg Arg Ile Gln Cys Gln Ala
1 5 10 15

Lys Thr Leu Ala Thr Glu Lys Ser Leu
20 25

<210> 5182

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5182

Arg Phe Lys Tyr Phe Lys Arg Ile Phe Arg Leu Leu Gln His Tyr Lys
1 5 10 15

Asn Asn Ala Ala Lys Ala Lys Leu Leu
20 25

<210> 5183

<211> 47

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5183

Leu Tyr Arg Leu Ile Arg Lys Leu Leu Lys Arg Ile Ser Lys Asn Val

1 5 10 15

Leu Gln Arg Val Asp Val Lys Ala Ala Lys Val Arg Val Asn Leu Ala
 20 25 30

Lys Met Gln Ala Leu Ala Phe Ala Gly Asn Pro Lys Glu Asn Ala
 35 40 45

<210> 5184
 <211> 42
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5184

Trp Ile Lys Ile Met Pro Arg Leu Leu Arg Arg Leu Lys Arg Leu Asp
 1 5 10 15

His Met Pro Leu Leu Leu Leu Cys Arg His Arg Lys Lys Ala Ser Arg
 20 25 30

Arg Leu Leu Cys Lys His Lys Lys Tyr Thr
 35 40

<210> 5185
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5185

Leu Leu Arg Ile Ile Arg Arg Tyr Tyr Lys Leu Phe Lys Lys Ser Leu
 1 5 10 15

Leu Leu Leu Lys Leu Ala Lys
 20

<210> 5186
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5186

Lys Ile Arg Met Ile Lys Lys Phe Leu Arg Leu Trp Lys Gln Trp Cys
 1 5 10 15

Leu Lys Thr Leu Arg Ala Leu Phe Leu Ser Thr Leu Ala Glu Ala Arg
 20 25 30

Lys Leu His Asp
 35

<210> 5187

<211> 81

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5187

Lys Leu Lys Leu Phe Lys Arg Ile Trp Lys Leu Leu Lys Lys Ala Thr
 1 5 10 15

Asp Met Lys Phe Gln Arg Ser Asn Phe Phe Lys Arg Val Ala Asp Leu
 20 25 30

Arg Asp Leu Phe Ala Leu Leu Tyr Arg Ala Lys Ala Gln Ile Cys Gln
 35 40 45

Ala Arg Trp Trp Lys Lys Pro Arg Arg Ala Ser Thr Cys Arg Ser Lys
 50 55 60

Thr Gln Asn Arg Lys Leu Leu Ala Ala Ala Leu Glu Tyr Asn Arg Trp
 65 70 75 80

Lys

<210> 5188

<211> 46

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5188

Ile Leu Lys Trp Leu Cys Arg Phe Leu Lys Leu Phe Asn Gln Asp Leu
 1 5 10 15

Asn Val Cys Gly Arg Ala Arg Ala Arg Leu Ala Phe Thr Arg Leu Leu
 20 25 30

Lys Leu Ala Lys Lys Arg Lys Gln Leu Asp Ala Cys Arg Trp
 35 40 45

<210> 5189

<211> 64

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5189

Leu Tyr Lys Leu Leu Pro Lys Leu Leu Arg Lys Trp Lys Lys Thr Asp
 1 5 10 15

Lys Ile Ala Lys Lys Gln Glu Arg Ala Val Arg Ser Ala Glu Leu Lys
 20 25 30

Arg Asn Ile Trp Ser Leu Lys Ala Leu Leu Ala His Trp Lys Phe Arg
 35 40 45

His Lys Leu Leu Gly Leu Phe Asp Phe Glu Leu His Ala Glu Trp Ser
 50 55 60

<210> 5190

<211> 70

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5190

Phe Leu Lys Tyr Ile Thr Lys Phe Phe Arg Met Leu Gln Asn Lys Arg
 1 5 10 15

Leu Arg Val Leu Ala Leu Asp Ala Met Lys Ala Met Pro Arg Lys Pro
 20 25 30

Lys Arg Ser Val Leu Tyr Arg Asn Ala Lys Lys Pro Asn Arg Asp Glu

35

40

45

Arg Leu Leu Ala Asp Trp Leu Cys Arg Arg Leu Lys Ile Asn Arg Ala
 50 55 60

Leu Gln Lys Ala Pro Leu
 65 70

<210> 5191
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5191

Leu Tyr Arg Ile Tyr His Arg Tyr Leu Lys Arg Phe Lys His Leu Ala
 1 5 10 15

Tyr Arg Arg Thr Gln Ala Leu
 20

<210> 5192
 <211> 26
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5192

Arg Leu Lys Phe Phe Asn Lys Trp Phe Lys Lys Tyr Lys Arg Leu Tyr
 1 5 10 15

Lys Asn Lys Ala Leu Pro Leu Ala Ala His
 20 25

<210> 5193
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5193

Lys Ile Lys Met Leu Ser Arg Trp Leu Lys Arg Leu Arg Lys Met Ala

<210>	5194
<211>	40
<212>	PRT
<213>	Artificial Sequence

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<220>
<223>  Computer-generated peptide variant
<400>  5194
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Leu Phe Lys Leu Phe Arg Lys Phe Ile Lys Lys Leu Arg Arg Arg Pro
1 5 10 15

Ser Ala Ile Leu Phe Lys Leu Asp Leu Gly Leu Ala Gly Leu Ser Ala
20 25 30

Val Lys Lys Val Met Asp Ala Ser
35 40

<210>	5195
<211>	100
<212>	PRT
<213>	Artificial Sequence

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<220>
<223>  Computer-generated peptide variant
<400>  5195
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Leu Leu Lys Leu Phe Lys Lys Tyr Trp Lys Trp Met Lys Lys Lys Met
1 5 10 15

Pro Pro Ala Cys Ile Leu Gly Ala Arg Asp Ala Ile Leu Lys His Arg
20 25 30

Leu Lys Lys Thr Arg Ala Lys Arg Ala Ser Asn Lys Arg His Tyr Leu
35 40 45

Thr Gln Met Lys His Lys Glu Arg Lys Gly Ala Arg Ala Lys Gln Phe
50 55 60

Gln Cys Ala Ala Lys Cys Ala Arg Ala Trp Trp Arg Asp Leu Val Arg
 65 70 75 80

Leu Gln Asn Arg Arg Ala Lys Met Pro Gln His Leu Cys Met Gly Ala
 85 90 95

Leu Lys Gly Lys
 100

<210> 5196
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5196

Arg Leu Arg Phe Tyr Thr Arg Leu Leu Arg Arg Trp Lys Gln Leu Val
 1 5 10 15

Leu Ser Ala Lys Arg Trp Met Gly Met
 20 25

<210> 5197
 <211> 54
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5197

Lys Leu Arg Tyr Ile His Lys Leu Phe Lys Leu Trp Arg Thr Arg Arg
 1 5 10 15

Ala Ala Leu Ala Ala Ala Ala Ser Ala Lys Met Gln Ala Pro Gly Gln
 20 25 30

Leu Arg Val Pro Ile Gln Thr Lys Gln Arg Ala Thr Thr Met Arg Leu
 35 40 45

Gln Asp Lys Ala Arg Pro
 50

<210> 5198

<211> 71
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5198

Leu Phe Arg Phe Leu Thr Lys Met Phe Lys Leu Ile Lys Arg Lys Arg
 1 5 10 15

Asp Ile Lys Asn Leu Tyr Ser Ala Leu Trp Met Arg Ala Leu Tyr Leu
 20 25 30

Leu Ile Lys Asp Leu Phe Ala Arg Asn Arg Leu Lys Leu Leu Gln Lys
 35 40 45

Gly Ala Arg Ala Asn Ala Glu Ala Pro Gly Met Lys Pro Ala Thr Gln
 50 55 60

His Ala Ala Lys Glu Thr Ala
 65 70

<210> 5199
 <211> 78
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5199

Tyr Phe Lys Ile Phe Lys Lys Leu Trp Arg Lys Tyr Arg Lys His Lys
 1 5 10 15

His Leu Ile Leu Ala Gly Ile Val Arg Leu Leu Gln Lys Met Gln Leu
 20 25 30

Lys Gly Leu Cys Lys Phe Arg Ala Lys Leu Val Asn Leu Leu Ser Pro
 35 40 45

Leu Cys Lys Tyr Arg Arg Trp Arg Arg Ala Val Ala Cys Gly Leu Lys
 50 55 60

Met Pro Asp Phe Ala Ile Pro Ala Ala Leu Leu Tyr Lys Ala
 65 70 75

<210> 5200
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5200

Arg Leu Lys Leu Tyr Arg Lys Met Phe Lys Leu Tyr Arg Lys Glu Lys
 1 5 10 15

Lys Gly Arg Met Ala Leu Ala Pro Leu His Gly Ala
 20 25

<210> 5201
 <211> 81
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5201

Arg Met Arg Trp Leu Lys Lys Met Ile Arg Phe Leu His Arg Gln Met
 1 5 10 15

Lys Leu Ala Ala Pro Leu Leu Ala Leu Tyr His Ser Ala Arg Asn Ala
 20 25 30

Cys Asp Ala Phe Arg His Arg Asn Phe Leu Gln Gly Tyr Gln Ile Lys
 35 40 45

Tyr Phe Asn Lys Gly Lys Met Leu Ala Leu Ile Asp Arg Leu Arg Leu
 50 55 60

Ala Ala Ala Ala Leu Arg Ala Ala Gly Ala Met Lys Glu Arg Lys Gln
 65 70 75 80

Ala

<210> 5202
 <211> 49
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5202

Lys Ile Arg Phe Tyr Asn Arg Trp Leu Arg Trp Phe Arg Lys Ala Trp
 1 5 10 15

Ile Met Ala His Thr Arg Leu Lys Leu Ala Asp Ser Lys Trp Cys Trp
 20 25 30

Ala Ala Trp Cys Trp Lys Lys Asp Arg Arg Leu Arg Leu Phe Ala Leu
 35 40 45

Lys

<210> 5203

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5203

Arg Phe Lys Leu Phe Gln Lys Met Met Arg Ile Leu Asn Lys Phe Leu
 1 5 10 15

Tyr Arg Pro Ala His Leu Lys Arg Arg Leu Ala Asn Gln
 20 25

<210> 5204

<211> 43

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5204

Leu Tyr Arg Met Trp Ser Arg Ile Ile Lys Arg Leu Arg Lys Leu Met
 1 5 10 15

Lys Ala Phe Cys Ala Ala Lys Arg Tyr Ser Lys Thr Ile Gln Ala Ala
 20 25 30

Arg Gln Asp Arg Arg Ala Leu Tyr His Lys Phe

35

40

<210> 5205
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5205

Ile Leu Lys Leu Leu Arg Lys Leu Phe Arg Lys Leu Ser Cys Leu Leu
 1 5 10 15

Arg Asp Lys Lys Met Cys His Ala Ala
 20 25

<210> 5206
 <211> 93
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5206

Leu Leu Arg Leu Ile Lys Arg Leu Phe Lys Lys Phe Asn Arg Gly Ala
 1 5 10 15

Lys Lys Thr Leu Met Tyr Gln Arg Ala His His Arg Ala Arg Ser Met
 20 25 30

Leu Lys Val Asn Ala Ile Leu Gln Trp Arg Lys Arg Ser Asn Cys Asp
 35 40 45

Ala Thr Lys Ala Ala Met Glu Lys Phe Leu Asn Lys Leu Phe Leu Glu
 50 55 60

Lys Met Val Glu Arg Leu Arg Lys Lys Arg Ser Arg Ala Thr Val Gly
 65 70 75 80

Arg Met Leu Thr Leu Leu Tyr Lys Lys Arg Lys Gly His
 85 90

<210> 5207
 <211> 38
 <212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5207

Lys Ile Lys Leu Leu Lys Lys Phe Leu Lys Phe Ile His Asn Ala Lys
1 5 10 15

Leu Arg Glu Lys Lys Arg Leu Gln Leu Ala Trp Asp Ala Leu Phe Cys
20 25 30

Leu Lys Glu Ala Val Gln
35

<210> 5208

<211> 63

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5208

Phe Leu Lys Ile Leu Lys Arg Met Met Arg Leu Leu Gln Pro Leu Lys
1 5 10 15

Ala Arg Arg Lys His Ile Glu Arg Trp Lys Ala Arg Lys Thr Cys Cys
20 25 30

Leu Lys Leu Asp Ala Pro Tyr Leu Ala Cys Leu Leu Arg Trp Glu Pro
35 40 45

Ile Tyr Arg Arg Tyr Ile Ala Arg Ala Lys Arg Met Pro Pro Asn
50 55 60

<210> 5209

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5209

Leu Trp Arg Leu Tyr Cys Arg Leu Ile Lys Lys Leu Arg Pro Arg Gly
1 5 10 15

Gln Ala Lys Ala Phe Cys Arg His Leu Leu Ala Val
 20 25

<210> 5210
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5210

Phe Leu Arg Leu Met Pro Lys Phe Trp Arg Leu Ile Arg Asn Val Leu
 1 5 10 15

His Ala Lys Leu Lys Ser Val Met Arg Lys Ala Lys Arg Pro Lys Lys
 20 25 30

Leu Ala Leu Ala
 35

<210> 5211
 <211> 79
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5211

Lys Leu Arg Phe Ile Lys Arg Trp Leu Arg Trp Ile Lys Arg Leu Leu
 1 5 10 15

Gly Lys Val Arg Thr Leu Asn Gly Leu Ala Asn Thr Ala Arg Arg Arg
 20 25 30

Leu Lys Tyr Phe Val Arg Thr Arg Leu Lys Lys Arg Leu Glu Asn Gln
 35 40 45

Leu Ala Gly Lys Ala Ala Pro Phe Asp Ser Leu Asn Ser Ala Ala Lys
 50 55 60

Asp Arg Ala Thr Arg Trp Leu Asn Ala Leu Val Leu Leu Ser Trp
 65 70 75

<210> 5212

<211> 42
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5212

Arg Leu Lys Tyr Leu Cys Arg Trp Trp Lys Lys Leu Arg Gln Ala Val
 1 5 10 15

Arg Lys Ala Lys Leu Phe Lys Lys Asn Lys Thr Tyr Pro Lys Leu Glu
 20 25 30

His Asp Gln Leu Ala Glu Asn Leu Leu Ala
 35 40

<210> 5213
 <211> 55
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5213

Lys Leu Lys Phe Tyr Arg Arg Leu Leu Arg Lys Phe Gln Ser Arg Ala
 1 5 10 15

Val Lys Lys Leu Gly Ala Ile Phe Ile Lys Ile Lys Gly Lys Lys Val
 20 25 30

Arg Ala Pro Val Lys Ala Asn Tyr Ala Ser Leu Leu Ala Ala Ser Gln
 35 40 45

Cys Gly Arg Met Lys Ala Leu
 50 55

<210> 5214
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5214

Leu Leu Lys Trp Phe Cys Arg Phe Tyr Arg Lys Leu Thr Pro Thr Ile

1 5 10 15

Thr Ala Ala Leu Lys Met Ala Lys Leu
20 25

<210> 5215
<211> 56
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 5215

Phe Leu Arg Phe Leu Lys Lys Leu Trp Lys Arg Phe Cys Lys Leu Ala
1 5 10 15

Ala Thr Lys Leu Met Gly Ser Ala Leu His Ala Lys Asn Leu Thr Leu
20 25 30

Leu Lys Thr Ser Lys Phe Glu Arg Pro Val Tyr Ala Ala Asp Leu Leu
35 40 45

Gln Ala Val Ser Asp His Lys Lys
50 55

<210> 5216
<211> 43
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 5216

Lys Trp Arg Trp Phe Gln Arg Trp Leu Arg Lys Ile Arg Arg Asp Lys
1 5 10 15

Lys Glu Gly Asn Arg Ala Cys Arg Leu Ala Pro Lys Phe Leu Lys Ala
20 25 30

Gln Ala Leu Pro His Gly Leu Leu Ala Phe Phe
35 40

<210> 5217
<211> 43
<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5217

Phe Leu Lys Leu Trp Thr Arg Ile Trp Arg Ile Tyr Lys Lys Phe Leu
1 5 10 15

Lys Gly Lys Arg Gln Lys Glu Met Arg Leu Leu Ile Ala Lys Met Leu
20 25 30

Ala Pro Leu His Arg Trp Leu Tyr Leu Leu Ala
35 40

<210> 5218

<211> 49

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5218

Arg Phe Lys Tyr Leu Arg Arg Leu Phe Lys Lys Trp His Lys Arg Tyr
1 5 10 15

Lys Phe Tyr Trp Leu Arg His Val Lys Leu Tyr Pro Leu Lys Arg Ala
20 25 30

Ser Ala Ala Leu Asp Lys Leu His Leu Val Gln Leu Ala Ala Asp Gln
35 40 45

Lys

<210> 5219

<211> 65

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5219

Met Ile Lys Phe Leu His Lys Leu Ile Lys Lys Leu His Lys Lys Arg
1 5 10 15

Pro Ala Trp Gln Lys Lys Glu Arg Leu Glu Lys Arg Cys Asn Leu Ala
 20 25 30

Ala Val Lys Arg Leu Lys Ala Gln Trp Val Leu Phe Lys Asp Leu Arg
 35 40 45

Pro Leu Glu Arg Asp Leu Leu Thr Gln Arg Ala Gly Phe Lys Trp Ala
 50 55 60

Thr
 65

<210> 5220
 <211> 89
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5220

Lys Phe Lys Trp Ile Pro Arg Ile Phe Lys Leu Phe Arg His Arg Lys
 1 5 10 15

Arg Gln Leu Ser Ala Leu Phe Arg Lys Ala Ala Leu Phe Lys Arg Leu
 20 25 30

Pro Pro Glu Met Arg Arg Leu Leu Tyr Met Arg Arg Lys Leu Lys His
 35 40 45

Ala Asp Ser Leu Ala Gly Ala Ala Lys Leu Asp Arg Arg Ala Arg Pro
 50 55 60

Lys Cys Arg Phe Pro Leu Leu Ser Asn Leu Phe Ala Asp Leu Ala Cys
 65 70 75 80

Leu Lys Gly Arg Arg Ala Leu Gln Gln
 85

<210> 5221
 <211> 59
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5221

Lys Leu Arg Leu Tyr Arg Lys Phe Phe Lys Arg Tyr Arg Asn Cys Arg
 1 5 10 15

Lys Asp Ser Arg Lys Lys Val Trp Thr Val His Leu Thr Ala Arg Arg
 20 25 30

Ala His Ala Pro Pro Thr Arg Arg Val Leu Glu Asn Ala Ala Ala Tyr
 35 40 45

Leu Arg Pro Pro Arg Leu Ala Ala Asp Ala Val
 50 55

<210> 5222

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5222

Phe Leu Lys Leu Leu Thr Arg Ile Trp Arg Lys Leu Thr Arg Arg Phe
 1 5 10 15

Gln Asn Glu Ala
 20

<210> 5223

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5223

Trp Met Lys Phe Met Arg Lys Leu Tyr Arg Arg Tyr Ser Arg Met Arg
 1 5 10 15

Cys Lys Leu Leu Asn Leu Leu Phe Arg Asn Thr Arg Ala Leu Lys Ala
 20 25 30

Ala

<210> 5224
 <211> 64
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5224

Ile Phe Lys Tyr Leu Arg Arg Phe Ile Lys Arg Trp Arg Pro Leu Leu
 1 5 10 15

Ile Gly Trp Lys Val Asp Arg Ala Leu Ala Leu Asp Glu Lys Met Leu
 20 25 30

Gly Asp Gly Ala Leu Leu Glu Ile Leu Ala Leu Glu Phe Lys Leu Lys
 35 40 45

Ala Arg Lys Met Ala Ala Thr Arg Arg Lys Leu Lys Ala Val Lys Trp
 50 55 60

<210> 5225
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5225

Lys Tyr Arg Met Met Pro Lys Leu Ile Lys Lys Leu Gln Gln Lys Ala
 1 5 10 15

Arg Cys Leu Ala
 20

<210> 5226
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5226

Leu Met Arg Ile Leu Lys Arg Trp Ile Arg Lys Leu Asn Lys Arg Lys
 1 5 10 15

Val Asp Ala Ala Leu Arg Lys Ala Leu Leu Leu Arg
 20 25

<210> 5227
 <211> 67
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5227

Arg Phe Arg Phe Leu Gln Lys Leu Leu Arg Arg Phe Arg Arg Thr Ala
 1 5 10 15

Ala Trp Glu Ile Ser Leu Cys Asp Arg Leu Lys Ala Ile His Tyr Trp
 20 25 30

Leu Ala Asn Gly Lys Ala Arg Arg Leu Ala Lys Cys Arg Cys Ser Ile
 35 40 45

Lys Ile Ala Glu Lys Ala Ala Thr Phe Leu Phe Phe Cys Arg Asn Ile
 50 55 60

Arg Ala Arg
 65

<210> 5228
 <211> 67
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5228

Arg Tyr Lys Phe Trp Ser Lys Trp Tyr Arg Lys Ile Arg Arg Leu Val
 1 5 10 15

Lys Asp Val Arg Ala Pro His Ala Arg Leu Ser Val Lys Pro Gly Trp
 20 25 30

Glu Ala Gly Ala Leu Arg Leu Lys Leu Gln Ala His Leu Pro Leu Val
 35 40 45

Arg Ala Ala Lys Arg Leu His Phe Ala Gly Val Lys Ala Glu Lys Ala

50

55

60

Leu Ala Lys
65

<210> 5229
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 5229

Met Met Lys Phe Leu Lys Lys Leu Phe Arg Lys Leu Gln Lys Leu Thr
1 5 10 15

Leu Asn Lys Leu Arg Asn Met Trp His Arg Asp Lys Ser Leu
20 25 30

<210> 5230
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 5230

Lys Leu Arg Leu Tyr Gln Arg Met Phe Lys Phe Tyr Lys Lys Cys Lys
1 5 10 15

Gln Arg Leu Thr Leu Leu Ala Ala Leu Gly Gln
20 25

<210> 5231
<211> 45
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 5231

Lys Trp Arg Phe Phe Lys Lys Leu Phe Lys Tyr Leu Arg Thr Lys Val
1 5 10 15

Ala Tyr Leu Tyr Met Leu Arg Asp Ala Ala Ser Pro Arg Thr Ile Ala

20

25

30

Ala Lys Asn His Arg Ala Lys Asp Pro Leu Arg Arg Arg
 35 40 45

<210> 5232

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5232

Arg Met Lys Leu Leu Lys Arg Phe Phe Arg Met Ile Pro Thr Gly Tyr
 1 5 10 15

Ala Met Lys Thr Ala Leu Gln Gly Arg Lys Ala Arg Arg Arg Leu Cys
 20 25 30

Ala Asn Pro Ala
 35

<210> 5233

<211> 49

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5233

Leu Ile Arg Phe Met Lys Lys Trp Tyr Arg Arg Leu Arg Lys Arg Ala
 1 5 10 15

Val Lys Ala Ala Ala Glu Ser Asn Arg Arg Leu Asn Arg Cys Lys Leu
 20 25 30

Ile Asn Asn Glu Glu Leu Ala Gln Ala Lys Lys Lys Pro Leu Ala Lys
 35 40 45

Ala

<210> 5234

<211> 44

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5234

Lys Phe Arg Phe Leu Cys Arg Met Leu Lys Trp Leu Arg Arg Arg Ala
1 5 10 15

Ala Asn Leu Arg Lys His Arg Ser Lys Leu Thr Leu Leu Arg Asp Glu
20 25 30

Ala Asn Leu Ala Tyr Lys Lys Lys Lys His Gln Thr
35 40

<210> 5235

<211> 56

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5235

Arg Leu Arg Met Trp Lys Arg Leu Phe Arg Leu Leu Lys Lys Arg Lys
1 5 10 15

Leu Ala Leu Lys Pro Ala Lys His Met Cys Leu Cys Gly Ala Lys Leu
20 25 30

Leu Arg Leu Arg His Lys Asp Gly Leu Gln Tyr Lys Lys Phe Lys Arg
35 40 45

Thr Leu Cys Lys Phe Leu Ser Gly
50 55

<210> 5236

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5236

Tyr Leu Lys Tyr Ile His Lys Leu Phe Arg Leu Phe Lys Gln Pro Leu
1 5 10 15

Ala Ala Asn Arg
20

<210> 5237
<211> 60
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 5237

Trp Trp Lys Leu Leu Lys Lys Met Trp Lys Trp Met Arg Arg Leu Glu
1 5 10 15

Arg Arg Cys Gly Ala Phe Ile Cys Ala Ala Ala Phe Lys Arg Leu Trp
20 25 30

Lys Asp Arg Ala Trp Leu Arg Val Lys Thr Pro Phe Asp Leu Cys Ala
35 40 45

Ala Ser Cys Pro Lys Lys Lys Leu Cys Ala Ile Lys
50 55 60

<210> 5238
<211> 68
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 5238

Arg Phe Arg Leu Phe Arg Arg Phe Leu Arg Leu Met Lys Lys Lys Thr
1 5 10 15

Arg Leu Asn Lys Gly Ala Asn Lys Pro His Lys Phe Leu Arg Gly Arg
20 25 30

Ile Cys Tyr Asp Leu Arg Met Asn Leu Ala Thr Asp Arg His Glu Asn
35 40 45

Arg Ala Trp Leu Leu Trp Pro Met Ala Lys Leu Gln Lys Ala Lys Asn
50 55 60

Lys Lys Leu Pro

65

<210> 5239
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5239

Lys Leu Arg Leu Phe Asn Arg Met Met Arg Arg Leu Arg Cys Leu Ala
 1 5 10 15

Leu Lys Arg Leu His Arg His Trp Pro Phe Leu Lys Leu Lys
 20 25 30

<210> 5240
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5240

Trp Leu Lys Met Leu Asn Arg Leu Leu Arg Leu Tyr Lys Arg Tyr Asn
 1 5 10 15

Gly Ala Val Ala Ala Leu Cys Lys His Arg Val Ile
 20 25

<210> 5241
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5241

Met Leu Lys Leu Leu Arg Lys Leu Phe Lys Leu Tyr Arg Lys Ala Asp
 1 5 10 15

Ser Lys Met Met Lys Lys Tyr Ala Val Met His Ala Leu Arg
 20 25 30

<210> 5242

<211> 86
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5242

Lys Ile Arg Trp Tyr Arg Arg Met Leu Arg Trp Ile Arg Thr Leu Arg
 1 5 10 15

Asp Thr Trp Lys Asp Glu Arg Arg Phe Trp Arg Gln Arg Ala Lys His
 20 25 30

Arg Lys Arg Ala Phe Arg Ala Lys Pro Thr Trp Cys Ala Met Pro Arg
 35 40 45

Trp Arg Ala Asn Cys Arg Leu Ala Ser Ser Lys Leu Leu Ile Pro Cys
 50 55 60

His Leu Asn Leu Ser Arg Ala Lys Leu Ala Ala Leu Ile Ile Leu Ile
 65 70 75 80

Met Lys Leu Lys Leu Lys
 85

<210> 5243
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5243

Lys Leu Lys Tyr Leu Arg Arg Phe Phe Lys Lys Phe Lys Arg Ala Lys
 1 5 10 15

Asn Ala Ala Leu Arg Ala Leu Gly Ile Thr Leu His Lys Arg Ile Leu
 20 25 30

Gln

<210> 5244
 <211> 32
 <212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5244

Leu Phe Arg Tyr Leu Ser Lys Ile Phe Arg Lys Leu Thr Arg Ala Ala
1 5 10 15

Lys Met Ala Gly Leu Phe Phe Ile Arg Arg His Lys Arg Gly Phe Ala
20 25 30

<210> 5245

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5245

Ile Leu Lys Leu Tyr Lys Lys Phe Leu Lys Leu Leu Lys Cys Lys Ser
1 5 10 15

Cys His Leu Leu Gly Ile Leu His Arg Arg Arg Tyr
20 25

<210> 5246

<211> 43

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5246

Arg Leu Arg Leu Tyr Lys Lys Leu Met Arg Arg Leu Cys Arg Leu Gln
1 5 10 15

Ile Phe Ala Thr Ala Ala Arg Arg Lys Leu Glu Ser Arg Gly Asn Leu
20 25 30

Tyr Asn Ala Asn Leu Ser Met Gly Leu Glu Thr
35 40

<210> 5247

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5247

Arg Leu Lys Phe Tyr Lys Lys Ile Tyr Arg Lys Leu Arg Ser Gln Ala
1 5 10 15

Leu Leu Ala Leu Asn Ala Arg Arg Tyr Ile Lys Pro Asp Cys Asp Glu
20 25 30

Val Lys

<210> 5248

<211> 52

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5248

Lys Leu Arg Met Leu Arg Arg Leu Leu Lys Met Trp Lys Lys Lys Asp
1 5 10 15

Leu Ala His Leu Ser Trp Gln Leu Leu Gln Met Trp Ala His Ala Ala
20 25 30

Cys Lys Lys Glu Asp Lys Thr Tyr Lys Gly Pro Lys Gln Trp Pro His
35 40 45

Ala Lys Arg Leu
50

<210> 5249

<211> 60

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5249

Phe Trp Arg Tyr Phe Arg Lys Tyr Phe Lys Lys Leu Lys Cys Gln His
1 5 10 15

Arg Met Arg Lys Leu Ile Pro Asn Thr Ala Leu Ala Ala Arg Arg Ala
 20 25 30

Lys Ser Leu Tyr Lys Lys Glu Ile Glu Ala Asn Ala Lys Ser Met Leu
 35 40 45

Asp Gly Tyr Lys Lys Ala Val Lys Ala Ala Leu Asn
 50 55 60

<210> 5250
 <211> 78
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5250

Met Leu Lys Met Phe Thr Arg Leu Phe Arg Met Leu Asn Arg Ala Ser
 1 5 10 15

Arg Tyr Arg Ala Lys Gly Ser Arg Leu Leu Met Cys Ala Val Arg His
 20 25 30

Ser Gln Arg Ser Tyr Cys Ala Leu Gly Ile Trp Thr Ala Thr Leu Arg
 35 40 45

Arg Ala Arg Leu His Ile Lys His Met Ala Arg Lys Thr Gln Ala Leu
 50 55 60

Lys Ile Leu Arg Trp Trp Trp Arg Lys Lys Ala Ala Arg Ala
 65 70 75

<210> 5251
 <211> 31
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5251

Arg Leu Lys Ile Leu Lys Arg Met Phe Arg Arg Leu Arg Thr Thr Ala
 1 5 10 15

Phe Lys Lys Tyr Asn Lys Pro Ala Lys Ser Ala Ala Leu Gln Ser

20

25

30

<210> 5252

<211> 64

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5252

Met	Met	Arg	Leu	Trp	Cys	Lys	Phe	Leu	Lys	Lys	Phe	Pro	Ser	Cys	Ser
1				5					10					15	

Ala	Asp	Lys	His	Ala	Ala	Arg	Phe	His	Lys	Lys	Val	Gln	Thr	Arg	Gln
			20					25						30	

Leu	Lys	Val	Ala	Ala	Tyr	Leu	Ala	Trp	Gln	Arg	Ala	Lys	Ala	Leu	Thr
		35					40					45			

Leu	Lys	Leu	Asp	Lys	Asp	Ala	Ala	Arg	Gly	Arg	Arg	Gly	Ala	Arg	Gly
	50					55					60				

<210> 5253

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5253

Phe	Phe	Lys	Leu	Phe	Asn	Arg	Phe	Met	Arg	Lys	Met	Cys	Arg	Leu	Lys
1				5					10					15	

Thr	Trp	Ala	Lys	Leu	Ala	Ala	Leu	Ala	Leu	Arg	Gln	Ala	Leu	Lys	Pro
			20					25					30		

Lys	Lys	Ala	Arg	Asp	Leu	Leu	Gly
		35					40

<210> 5254

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5254

Phe Leu Lys Leu Tyr Arg Lys Leu Phe Lys Arg Leu Cys Arg Leu Lys
 1 5 10 15

Lys Lys Leu Asp Arg Leu His Leu Met
 20 25

<210> 5255

<211> 53

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5255

Tyr Leu Lys Ile Phe Gln Lys Met Trp Lys Met Ile Lys Ser Leu Lys
 1 5 10 15

Leu Asn Ala Lys Tyr Leu Lys Asn Gln Leu Lys Asn Ala Lys Ala Met
 20 25 30

Pro Arg Glu Asn Arg Tyr Gly Arg Leu Leu Glu Arg Ala Arg Gln Lys
 35 40 45

Leu Ala Cys Lys Leu
 50

<210> 5256

<211> 76

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5256

Arg Phe Arg Tyr Leu Asn Arg Trp Leu Lys Phe Met Arg Lys Lys Leu
 1 5 10 15

Ala Pro Leu Leu Met Gln Ile Lys Arg Val Leu Ala Lys Lys Arg Leu
 20 25 30

Ser Arg Gly His Asn Arg Asp Ala Arg Lys Ala Trp Gly Asp Asp Asp
 35 40 45

Ala Ala Leu Arg Lys Ala Met Arg Met Ala Pro His Ala Ala Leu Ala
 50 55 60

Met Gln Ala Ala Cys Ala Ile Arg Gln Val Arg Phe
 65 70 75

<210> 5257
 <211> 51
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5257

Lys Phe Arg Leu Trp Asn Lys Ile Phe Lys Phe Leu Arg Arg Gly Ala
 1 5 10 15

Met Leu Phe Leu Ala Lys Phe Phe Arg Val Leu Lys Leu Lys Leu Gly
 20 25 30

Ser Cys Lys Ala Ala Ser Leu Cys Leu Met Glu Ser Ala Leu Leu Lys
 35 40 45

Gly His Lys
 50

<210> 5258
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5258

Phe Phe Lys Met Leu Arg Lys Met Leu Lys Arg Leu Lys Cys Ala Ser
 1 5 10 15

Lys Thr Ala Ala Met Thr
 20

<210> 5259
 <211> 61
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5259

Tyr	Ile	Lys	Leu	Tyr	Pro	Lys	Phe	Leu	Arg	Lys	Phe	Arg	Ser	Asp	Leu
1				5					10					15	

Gln	Cys	Arg	Leu	Leu	Lys	Leu	Ile	Ala	Leu	Asp	Lys	Phe	His	Lys	Lys
			20					25					30		

Trp	Arg	Leu	Arg	Trp	Phe	Lys	Ala	Lys	Lys	Ala	Arg	Trp	Lys	Ile	Arg
		35					40					45			

Lys	Tyr	Tyr	Phe	Leu	Arg	Pro	Leu	Trp	Ala	Ala	Met	Lys
	50					55					60	

<210> 5260

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5260

Phe	Trp	Arg	Leu	Leu	Pro	Lys	Leu	Leu	Arg	Trp	Leu	Arg	Ser	Arg	Arg
1			5						10					15	

Asp	Arg	Trp	His	Leu	Ala	Ala	Gly
			20				

<210> 5261

<211> 47

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5261

Trp	Trp	Arg	Leu	Phe	Ser	Lys	Leu	Leu	Arg	Lys	Leu	His	Thr	Lys	Lys
1				5					10					15	

Met	Cys	Ser	His	Asn	Lys	Cys	Leu	Cys	Gly	Trp	Trp	Ala	Lys	Arg	Arg
			20					25					30		

Ala	Val	Pro	Arg	Gln	Leu	Ala	Leu	Gly	Ala	Arg	Lys	Asn	Ala	Arg
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

35

40

45

<210> 5262

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5262

Phe Leu Arg Phe Phe Gln Lys Phe Leu Arg Ile Leu Arg Lys Arg Lys
 1 5 10 15

Arg Lys Ala Arg Ala Val Glu Asn Met Val Asn Phe Ala Arg Ala Leu
 20 25 30

Leu Gly Lys
 35

<210> 5263

<211> 38

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5263

Met Phe Arg Phe Leu Arg Lys Leu Phe Lys Arg Leu Lys Gln Ile Arg
 1 5 10 15

Arg Lys Phe Trp Arg Asp His Leu Ala Ala His Leu Phe Ile Lys Leu
 20 25 30

Tyr Asn Arg Gln Ala Leu
 35

<210> 5264

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5264

Arg Tyr Arg Phe Leu Arg Arg Tyr Leu Lys Lys Phe Arg Pro Gln Ala

1 5 10 15

His Val Ile Ala Ala Ala Arg Leu His Arg Tyr Ala Glu
20 25

<210> 5265
<211> 75
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 5265

Ile Phe Arg Phe Leu Lys Lys Leu Phe Lys Arg Ile Gln Arg Ala Gly
1 5 10 15

Lys His Trp His Lys Ser Ser Arg Arg Lys Ala Pro Thr Lys Ala Arg
20 25 30

Asp Gln Lys Val Leu Arg Leu Ala Leu Pro Lys Ala Lys Lys Phe Arg
35 40 45

Asp Asp Ala Leu Val Lys Met Ala Leu Lys Asp Asn Arg Thr Ala Leu
50 55 60

Arg Asp Glu Ile Ala Ile Tyr Arg Pro Trp Ala
65 70 75

<210> 5266
<211> 66
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 5266

Arg Leu Lys Met Met Arg Lys Tyr Leu Lys Arg Ile Lys Lys Ala Arg
1 5 10 15

Glu Arg Cys His Arg Arg Ile Cys Gly Trp Trp Arg Pro His Leu Ala
20 25 30

Tyr Ile Glu Ala Glu Ala Asn Phe Lys Met Asp Glu Arg Arg Lys Lys
35 40 45

Arg Cys Ala Arg Met Asp Met Ala Cys Pro Ala Arg Ala Leu Ala Leu
 50 55 60

Ala Ala
 65

<210> 5267
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5267

Lys Phe Lys Leu Leu Thr Lys Phe Leu Lys Met Tyr Arg Arg Leu Val
 1 5 10 15

Arg Val Ala Phe Glu
 20

<210> 5268
 <211> 58
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5268

Arg Ile Lys Leu Leu Lys Lys Leu Met Arg Phe Met His Ser Leu Lys
 1 5 10 15

Ile Ala Tyr Leu Gly Arg Asp Val Asn Lys Glu Phe Leu Ile His Ala
 20 25 30

Ala Lys Arg Ala Lys Met Arg Ser Arg Lys Ser Ala Lys Met Leu Gln
 35 40 45

Arg Lys Trp Arg Asn Ala Glu Phe Ala Thr
 50 55

<210> 5269
 <211> 38
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5269

Arg	Leu	Arg	Leu	Trp	Arg	Arg	Tyr	Leu	Arg	Arg	Tyr	Ser	His	Lys	Tyr
1				5					10					15	

Ala	Trp	Leu	Leu	Val	Tyr	Ala	Leu	Ile	Lys	Gly	Lys	Arg	Trp	Glu	Leu
			20					25					30		

Glu	Leu	Ala	Thr	Ile	Glu
					35

<210> 5270

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5270

Leu	Leu	Lys	Leu	Phe	Lys	Arg	Phe	Leu	Arg	Arg	Phe	His	Lys	Gly	Gly
1				5					10					15	

Asp	Leu	Ala	Tyr	Trp	Lys	Ser
						20

<210> 5271

<211> 52

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5271

Lys	Phe	Arg	Tyr	Phe	Arg	Lys	Phe	Leu	Arg	Arg	Leu	Arg	Thr	Lys	Ala
1				5					10					15	

Lys	Ser	Lys	Arg	Arg	Leu	Leu	Arg	Lys	His	Arg	Arg	Asn	Arg	Val	Val
			20					25					30		

Gly	Tyr	Tyr	Trp	Asp	Trp	Leu	Lys	Leu	Ala	Ile	Asp	Leu	Asp	Trp	Gly
		35					40					45			

Ala	Leu	Leu	Ala
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50

<210> 5272
 <211> 47
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5272

Lys Leu Arg Leu Phe Lys Lys Leu Ile Arg Arg Phe Pro Pro Arg Val
 1 5 10 15

Lys Arg Ala Arg Ala Phe Leu Lys Val Lys Arg Asn Thr Ala Tyr Lys
 20 25 30

Phe Lys Arg Ala Phe Leu Leu Pro Ala Asp Asp Leu Lys Ala Cys
 35 40 45

<210> 5273
 <211> 49
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5273

Tyr Leu Lys Leu Ile Cys Arg Tyr Ile Lys Ile Leu Arg Arg Ser Lys
 1 5 10 15

Arg Asn Ala Leu Lys Arg Arg Thr Met Glu Ala Pro Lys Leu Met Leu
 20 25 30

Leu Lys Pro Ser Arg Asn Gly Met Cys Lys Arg Arg Ala Ala His Ala
 35 40 45

Asp

<210> 5274
 <211> 56
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5274

Arg	Leu	Arg	Met	Leu	Arg	Lys	Tyr	Phe	Lys	Lys	Phe	Lys	Ser	Leu	Lys
1				5					10					15	

Leu	Lys	Arg	Phe	Gly	Gly	Lys	Ala	Lys	Arg	Ala	Gln	Lys	Leu	Ala	Asp
			20					25					30		

Trp	Ala	Asp	Arg	Arg	Leu	Tyr	Pro	Val	Gln	Ala	Pro	Thr	Tyr	Leu	Arg
		35					40					45			

Val	Arg	Trp	Lys	Ile	Leu	Ala	Gly
50						55	

<210> 5275

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5275

Leu	Leu	Lys	Phe	Ile	Asn	Arg	Phe	Leu	Arg	Lys	Leu	Pro	Lys	Asp	Arg
1				5					10					15	

Leu	Pro	Asn	Ala	Tyr	Ile	Arg	Cys	Glu	Thr	Lys	Lys	Leu	Ala	Leu	Leu
			20					25					30		

Ala

<210> 5276

<211> 31

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5276

Met	Leu	Lys	Phe	Leu	Arg	Lys	Met	Tyr	Arg	Lys	Met	Arg	Asn	Ala	Ala
1				5					10					15	

Ser	His	Cys	Lys	Arg	Gly	Ala	Phe	Arg	Ala	Arg	His	Ala	Pro	Ala
			20					25					30	

<210> 5277
 <211> 27
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5277

Leu Tyr Lys Leu Met Thr Arg Leu Ile Arg Arg Phe Arg Lys Thr Gly
 1 5 10 15

Leu Lys Leu Asp Val Arg Ala Ala Lys Thr Cys
 20 25

<210> 5278
 <211> 61
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5278

Lys Leu Lys Met Phe Arg Lys Phe Phe Lys Leu Phe Lys Arg Asn Leu
 1 5 10 15

Ala Gly Gly Arg Asn Ala Asp Gly Glu Ser Thr Asn Leu Arg Leu Leu
 20 25 30

Lys Ser Val Met Trp Trp Arg Arg Gln Lys Arg Thr Gln Leu Arg Arg
 35 40 45

Ala Ile Ala Lys Lys Lys Ala Leu His His Phe Ala Ala
 50 55 60

<210> 5279
 <211> 67
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5279

Arg Leu Lys Ile Trp Lys Lys Trp Leu Lys Leu Phe Lys Lys Val Tyr
 1 5 10 15

Ser Glu Pro Lys Met Arg Asp Leu Trp Lys Ala Val Ala Asp Ser Asp
 20 25 30

Ala Glu Val Arg Val Lys Ala Met Thr Arg Pro Phe Ala Gly Lys Phe
 35 40 45

Phe Ala Lys Leu Leu Ala Arg Lys Arg Arg Leu Trp Leu Lys Ala Trp
 50 55 60

Arg Cys Leu
 65

<210> 5280
 <211> 74
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5280

Phe Leu Arg Trp Leu Arg Arg Phe Tyr Lys Trp Trp Cys Arg Arg His
 1 5 10 15

Leu Phe Leu Val Lys Cys Ala Val Leu Gln Arg Gly Val Ala Ala Ala
 20 25 30

Leu Ala Arg Arg Phe Pro Met Tyr Leu Ala Val Cys Lys Ala Arg Arg
 35 40 45

Leu Lys Glu Arg Leu Leu Arg Lys His Leu Ala Trp Ile Arg Ala Leu
 50 55 60

Leu Glu Pro His Arg Arg Ile Leu Pro Ala
 65 70

<210> 5281
 <211> 50
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5281

Leu Trp Lys Leu Met His Arg Leu Leu Arg Lys Phe Arg Arg Ala Asp

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1                               5                               10                               15

Ala Ala Met Leu Gly Ser Arg Lys Lys Asn Thr Ala Asn Lys Ala Ala
      20                               25                               30

Leu Tyr Arg Lys Lys Lys Gln Glu Leu Lys Phe Gly Arg Lys Gln Lys
      35                               40                               45

Ala Leu
      50

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<210>	5282
<211>	60
<212>	PRT
<213>	Artificial Sequence
<220>	
<223>	Computer-generated peptide variant
<400>	5282

Arg	Met	Lys	Leu	Leu	Gln	Arg	Phe	Phe	Arg	Tyr	Leu	Thr	Thr	Thr	Tyr
1				5					10					15	
Lys	Leu	Ala	Ala	Ala	Lys	His	Cys	Leu	Lys	Phe	Lys	Lys	Met	Met	Lys
			20					25					30		
Trp	Gln	Arg	Arg	Thr	Ala	Lys	Asn	Lys	Ala	Leu	Cys	Ala	Ser	Arg	Lys
		35					40					45			
Asp	Trp	Arg	Arg	Ser	Ile	Leu	Thr	Leu	Ala	Cys	Ser				
	50					55					60				

<210>	5283
<211>	42
<212>	PRT
<213>	Artificial Sequence
<220>	
<223>	Computer-generated peptide variant
<400>	5283

Lys Phe Lys Leu Trp Lys Lys Met Leu Lys Lys Trp Lys Asn Arg Arg
1 5 10 15

Phe Cys Asn Ala Glu Ala Ala Ala Ile Lys His Cys Leu Leu Lys Glu
20 25 30

Ala Leu Lys Phe Arg Lys Cys Ala Trp Pro
 35 40

<210> 5284
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5284

Lys Met Lys Tyr Leu Arg Lys Trp Phe Arg Leu Leu Cys Arg His Gly
 1 5 10 15

Lys Ala His Leu Ala Gln
 20

<210> 5285
 <211> 48
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5285

Lys Leu Lys Tyr Leu Arg Arg Tyr Leu Lys Phe Phe Asn Lys Cys Ala
 1 5 10 15

Leu Lys Arg Leu Leu Pro Ala Gly Ser Thr Gln Trp Pro Leu Arg Ala
 20 25 30

Lys Val Asp Glu Lys Leu Ala Lys Trp Ser Lys Tyr Tyr His Leu Leu
 35 40 45

<210> 5286
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5286

Trp Phe Lys Phe Met Lys Lys Ile Phe Arg Arg Leu Asn Lys Arg Ala
 1 5 10 15

Leu Ile Ala Leu Arg Ala Cys
20

<210> 5287
<211> 42
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 5287

Lys Leu Arg Ile Phe Lys Arg Ile Leu Arg Phe Leu Asn Asn Phe Thr
1 5 10 15

Gln Ile Ser Arg Ala Lys Lys Val Leu Leu Lys Pro Ala Leu Val Lys
20 25 30

Asp Trp Lys Ala Arg Lys Leu Arg Glu Ala
35 40

<210> 5288
<211> 26
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 5288

Arg Leu Lys Tyr Phe Pro Arg Leu Leu Arg Ile Tyr Cys Lys Thr His
1 5 10 15

Arg Arg Lys Leu Ala Trp Leu Pro Leu Trp
20 25

<210> 5289
<211> 41
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 5289

Ile Trp Lys Leu Leu Gln Arg Tyr Leu Lys Lys Leu Lys Arg Arg Gly
1 5 10 15

Leu Val Leu Thr Met Thr Arg Arg Asp Arg Ala Leu Met Arg Leu Lys
 20 25 30

Leu Leu Phe Trp Gly Leu Lys Lys Ala
 35 40

<210> 5290

<211> 71

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5290

Leu Leu Lys Leu Leu Lys Lys Trp Ile Lys Lys Leu Gln Asn Asp Glu
 1 5 10 15

Val Leu Arg Met Trp Met Trp Leu Phe Pro Ala Ala Lys His Met Asn
 20 25 30

Trp Asn Gly Ala Ser Ala Ala Arg Lys Ala Ser Leu Val Ala Phe Phe
 35 40 45

Gly Arg Lys Lys Arg Ala Asn Ala Cys Leu Lys Arg Arg Ala Gln Leu
 50 55 60

Lys Trp Arg Leu Val Arg Ala
 65 70

<210> 5291

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5291

Arg Trp Arg Trp Leu Ser Arg Leu Trp Arg Arg Leu Arg His Asn Arg
 1 5 10 15

Arg Arg Leu Ala Ala Ala Thr Lys Ala Met Ala Asp Arg
 20 25

<210> 5292

<211> 50
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5292

Leu Trp Lys Leu Leu Thr Arg Ile Leu Lys Leu Phe Arg Lys Arg Lys
 1 5 10 15

Arg Arg Val Leu Lys Ile Asn Leu Leu Leu Lys Leu Leu Arg Lys Pro
 20 25 30

Gly Ala Gln Leu Trp Lys His Cys Gln Arg Leu Ala Pro His Glu Ser
 35 40 45

Ala Ile
 50

<210> 5293
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5293

Arg Leu Lys Ile Leu Pro Lys Phe Tyr Arg Leu Tyr Lys Lys Gln Leu
 1 5 10 15

Arg Gly Leu Ser Trp Arg Arg Ala Thr Ala Leu Ser Arg Ala Glu Trp
 20 25 30

Met Lys

<210> 5294
 <211> 56
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5294

Arg Leu Arg Phe Phe Gln Arg Tyr Met Lys Arg Tyr Lys Thr Trp Arg

1 5 10 15

Met Arg Arg Val Leu Arg His Pro Gln His Phe Ala Arg Ala Ala Ala
20 25 30

Gly Lys Ala Glu Trp Ala Ala Leu Asn Arg Met Lys Leu Gly Arg Lys
35 40 45

His Met Leu Asn Leu Ala Ala Lys
50 55

<210> 5295
 <211> 31
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant
 <400> 5295

Lys Ile Arg Leu Leu Arg Arg Leu Trp Lys Leu Leu Cys Thr Lys Cys
1 5 10 15

Ala Ala Pro Leu His Ala Leu Arg Tyr Ile Ile Arg Gly Arg Cys
20 25 30

<210> 5296
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant
 <400> 5296

Lys Trp Lys Met Leu Cys Lys Met Leu Lys Arg Leu Ser Lys Leu Lys
1 5 10 15

Lys Pro Ala Cys Ala Asp Lys Glu Val Thr Asp Lys Leu Gln
20 25 30

<210> 5297
 <211> 38
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5297

Arg	Tyr	Arg	Tyr	Leu	Asn	Arg	Tyr	Leu	Arg	Phe	Leu	Lys	Arg	Thr	Arg
1				5				10					15		

Val	Ala	Leu	Asn	Ile	Phe	Lys	Ala	Thr	Tyr	Ala	Tyr	Thr	Ile	Lys	Leu
			20					25					30		

Arg	Lys	Arg	Tyr	Met	Leu
					35

<210> 5298

<211> 43

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5298

Arg	Leu	Arg	Leu	Trp	Arg	Lys	Met	Trp	Lys	Leu	Phe	Lys	Cys	Ala	Arg
1				5				10						15	

Leu	Leu	Ala	Met	Trp	Arg	Arg	Lys	Gln	Leu	Met	Glu	Tyr	Lys	Glu	Arg
			20					25					30		

Asn	Ala	Pro	Arg	Trp	Cys	Ala	Arg	Glu	Thr	Trp
		35					40			

<210> 5299

<211> 51

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5299

Leu	Leu	Lys	Phe	Leu	Arg	Arg	Tyr	Phe	Lys	Lys	Leu	Gln	Gln	Ile	Pro
1				5				10						15	

Lys	Ala	Ile	His	Arg	Lys	Gly	Leu	Pro	Ala	Val	Cys	Asp	Cys	Leu	Ala
			20					25					30		

Arg	Ala	Asp	Lys	Glu	Ala	Pro	Leu	Arg	Val	Lys	Ala	Val	Asn	Lys	Ala
		35					40					45			

Ala Ala Gly
50

<210> 5300
<211> 65
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 5300

Lys Leu Arg Trp Leu Asn Arg Leu Met Lys Leu Met Lys Lys Lys Phe
1 5 10 15

Leu Lys Ala Arg Phe Lys Phe Ile Arg Pro Arg His Phe His Phe Arg
20 25 30

Phe Lys Val Ile Lys Tyr Ala Gly Val Lys Ala Phe Cys Arg Ala Ala
35 40 45

Leu Leu Leu Leu Ala Trp Asp Arg Thr Tyr Leu Phe Ser Leu Thr Lys
50 55 60

Gln
65

<210> 5301
<211> 22
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 5301

Leu Leu Lys Ile Leu Ser Arg Phe Ile Lys Lys Leu Arg Arg Ala Lys
1 5 10 15

Leu Leu Arg Met Asp Phe
20

<210> 5302
<211> 27
<212> PRT
<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5302

Leu	Trp	Arg	Leu	Ile	Ser	Lys	Met	Leu	Arg	Lys	Leu	Arg	Asn	Val	Thr
1				5					10					15	

Arg	Met	Ala	Arg	Gln	Leu	Phe	Ala	Ala	Ala	Tyr
			20					25		

<210> 5303

<211> 67

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5303

Lys	Phe	Lys	Trp	Leu	Arg	Arg	Leu	Leu	Lys	Tyr	Leu	Lys	Pro	Thr	Ala
1				5					10					15	

Arg	Val	Tyr	Ala	Leu	Pro	Leu	Ala	Leu	Ile	Lys	Ala	His	Arg	Leu	Leu
			20					25					30		

Ala	Leu	Glu	Ala	Asn	Gly	Cys	Arg	Met	Ala	Lys	Asn	Asn	Ile	Ile	Leu
		35						40				45			

Cys	Arg	Cys	Met	Leu	Met	Leu	Trp	Lys	Arg	Pro	Pro	Lys	Asp	Lys	Arg
	50					55					60				

Lys	Asp	Lys
65		

<210> 5304

<211> 49

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5304

Phe	Trp	Arg	Leu	Ile	Cys	Lys	Leu	Met	Arg	Lys	Leu	Arg	Lys	Trp	Leu
1				5					10					15	

Tyr	Ala	Pro	His	Lys	Ala	Ala	Thr	Lys	Gly	Lys	Leu	Lys	Leu	Asn	Arg
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

<210>	5305
<211>	25
<212>	PRT
<213>	Artificial Sequence
<220>	
<223>	Computer-generated peptide variant
<400>	5305

Tyr Leu Arg Ala Lys Leu Leu Gly Lys
20 25

<210>	5306
<211>	97
<212>	PRT
<213>	Artificial Sequence
<220>	
<223>	Computer-generated peptide variant
<400>	5306

Thr Leu Val Cys Ala Tyr Gln Trp Leu Ser Val Val Leu Cys Leu Ala
20 25 30

Lys Arg Phe Gln Tyr Arg Tyr Lys Ala Trp Leu Leu Phe Cys Asp Gly
35 40 45

Ala Asn Ile Arg Leu Lys Glu Arg Lys Leu Asn Glu Thr Lys Lys His
50 55 60

Pro Trp Lys Lys Trp Leu Val Leu Lys Arg Thr Lys Met Trp Arg Met
65 70 75 80

Leu His Ala Arg Ala Lys Gln Lys Asp Gln Ala Lys Leu Lys Ala Ser
 85 90 95

Lys

<210> 5307

<211> 55

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5307

Arg Leu Lys Tyr Leu Cys Arg Trp Leu Lys Phe Trp Arg Lys Met Ser
 1 5 10 15

Gln Leu Arg Asn Ile Val Leu Lys Gly Leu Lys Leu Asp Ser Ala Leu
 20 25 30

Met Cys Arg Ala Ala Leu Trp Ser Lys Arg Lys Ala Cys Lys Thr Leu
 35 40 45

Leu Gln Leu Ile Gly Arg Ala
 50 55

<210> 5308

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5308

Lys Met Lys Leu Met Cys Lys Trp Phe Lys Lys Leu Asn Ser Lys Leu
 1 5 10 15

Leu Ala Gln Phe Asn Leu Arg Cys Lys
 20 25

<210> 5309

<211> 39

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5309

Lys	Phe	Arg	Phe	Leu	Lys	Arg	Leu	Trp	Lys	Arg	Leu	Lys	Lys	Leu	Leu
1				5				10						15	

Gln	Ile	Arg	Lys	Tyr	Leu	Glu	Lys	Met	Phe	Phe	Val	Ala	Thr	Pro	Ala
			20					25					30		

Lys	Gln	Gln	Leu	Tyr	Thr	Leu
			35			

<210> 5310

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5310

Leu	Phe	Lys	Trp	Leu	Ser	Arg	Phe	Tyr	Lys	Arg	Leu	Lys	Arg	Thr	Ser
1				5				10						15	

Met	Leu	Leu	Leu	Thr	Asn	Leu	Trp	Arg
			20				25	

<210> 5311

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5311

Lys	Leu	Arg	Ile	Tyr	Lys	Lys	Leu	Leu	Lys	Leu	Tyr	Thr	Thr	Pro	His
1				5				10						15	

Ser	Ala	Tyr	Ala
			20

<210> 5312

<211> 58

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5312

Arg	Met	Arg	Leu	Tyr	His	Lys	Tyr	Leu	Lys	Arg	Leu	Lys	Thr	Arg	Asn
1				5					10					15	

Ile	Lys	Leu	Ala	Gln	Lys	His	Tyr	Val	Arg	Trp	Lys	Ala	Cys	Tyr	Leu
		20						25					30		

Ala	Arg	Asn	Leu	Met	Ala	Met	Arg	Ala	Asn	Gly	Ala	Ile	Arg	Gly	Gln
		35					40					45			

Leu	Arg	Leu	Lys	Tyr	Ser	Ser	Ala	Thr	Ala
50					55				

<210> 5313

<211> 71

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5313

Arg	Leu	Lys	Leu	Phe	Arg	Arg	Ile	Trp	Lys	Leu	Phe	Lys	Arg	Gln	Met
1				5					10					15	

Leu	Thr	Asn	Gln	Arg	Lys	Ala	Ala	Met	Leu	Gly	Ile	Gln	Thr	Lys	Ala
		20						25					30		

Arg	Asn	Asp	Arg	Ala	Glu	Ala	Lys	Pro	Gln	Ala	Asn	Ala	Arg	Arg	Ile
		35					40				45				

Ala	Trp	Pro	Ala	Ile	Ala	Gln	Arg	Ala	Ala	Arg	Phe	His	Ala	Arg	Ala
50					55						60				

Lys	Cys	Lys	Ala	Trp	Thr	Cys
65					70	

<210> 5314

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5314

Leu Leu Lys Phe Tyr Arg Arg Leu Leu Arg Arg Met Lys Lys Ser Gln
1 5 10 15

Met Lys Leu His Gly Ala Arg Glu His Lys Ala His Lys Leu Leu Ala
20 25 30

<210> 5315

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5315

Phe Leu Lys Leu Met Arg Lys Phe Leu Lys Leu Ile Ser Arg Glu Arg
1 5 10 15

Gln His Ala Ser Arg Met Leu
20

<210> 5316

<211> 45

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5316

Leu Tyr Lys Met Leu Lys Arg Trp Leu Arg Arg Leu Arg Arg Ala Arg
1 5 10 15

Thr Lys His Ala Asn Leu Asp Trp Phe Gly Pro Lys Ser Thr Ala Arg
20 25 30

Phe Val Arg Lys Ala Arg Gln Ala Leu Asp Ile Leu Thr
35 40 45

<210> 5317

<211> 37

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5317

Lys Leu Lys Trp Leu Ser Arg Met Ile Arg Lys Ile Arg Arg Asn Ala
 1 5 10 15

Arg Gly Ala Ala Pro Ser Lys Lys Cys Leu Gly Met Arg Ile Ala Ala
 20 25 30

Ala Ser Leu Gly Arg
 35

<210> 5318

<211> 41

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5318

Arg Leu Lys Tyr Phe Pro Lys Phe Phe Arg Tyr Leu Pro Lys Arg Leu
 1 5 10 15

Lys Leu Ala Glu Ala Glu Lys Trp Leu Ala His Asp Leu Arg Asn Glu
 20 25 30

Leu His Lys Gln Ala Lys Met Leu Lys
 35 40

<210> 5319

<211> 89

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5319

Arg Leu Lys Leu Leu Lys Arg Ile Ile Arg Tyr Phe Arg Lys Lys Trp
 1 5 10 15

Leu Lys Cys Leu Arg Lys Val Cys Gln Gln Gln Phe Leu Ala Leu Gln
 20 25 30

Lys Leu Ser Leu Lys Ala Leu Thr Glu Phe Gln Ile Val Gln Lys Leu
 35 40 45

Lys Ala Met Lys Arg Ala Val Val Ala Glu Phe Ile Arg Arg Arg Ala
 50 55 60

Arg Arg Val Leu Leu Ala Leu Arg Arg Tyr Cys Ala Ser Met Asp Ala
 65 70 75 80

Pro Gln Gln Leu Glu Tyr Arg Ala Asp
 85

<210> 5320
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5320

Arg Met Lys Leu Ile Lys Lys Leu Leu Arg Met Leu Ser Cys His Phe
 1 5 10 15

Pro Glu Ala Arg
 20

<210> 5321
 <211> 79
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5321

Leu Phe Arg Met Leu Lys Lys Met Leu Arg Lys Leu Cys Gln Cys His
 1 5 10 15

Lys Tyr Lys Thr Thr Thr Gln Leu Lys Ala Gln Arg Leu Ala Ala Lys
 20 25 30

Leu Val Asn Gly Arg Arg Ala Arg Lys Ile Lys Gly Lys Cys Ile Leu
 35 40 45

Phe Arg Asp Thr Cys Ser Gly Ala Val Val Phe Thr Ala Leu Leu Tyr
 50 55 60

Arg Trp Leu Trp Lys Ala Val Arg Lys Ala Leu Arg Ala Ala Ile

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<220>
<223> Computer-generated peptide variant
<400> 5322
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Gln Arg Lys Ala Phe
85

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<220>
<223>    Computer-generated peptide variant
<400>    5323
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Arg Ile Arg Ile Leu Ser Tyr Pro Lys Asp Ala Trp Asn
35 40 45

<210> 5324
 <211> 80
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5324

Arg Phe Arg Phe Phe Arg Lys Trp Phe Lys Arg Leu Lys Lys Leu Gln
 1 5 10 15

Trp Leu Cys Asn Leu Arg His Pro Asp Gln Ile Leu Trp Arg Leu Lys
 20 25 30

Phe Ala Met Lys Arg Ala His Lys Arg Gly Val Leu Lys Lys Lys Asn
 35 40 45

Phe Leu Ala Arg Glu Pro Gln Ala Lys Thr Trp Met Gln His Lys Tyr
 50 55 60

Ala Leu Asn Arg Gln Lys Leu Val Ala Ala Ala Ser Arg Arg Leu Ala
 65 70 75 80

<210> 5325
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5325

Phe Tyr Arg Leu Ile Thr Arg Leu Phe Lys Arg Leu Arg Arg Ser Lys
 1 5 10 15

Arg Leu Phe Arg Leu Ala Arg Val Arg Thr Leu Arg Ala Met Glu Ala
 20 25 30

Asp

<210> 5326
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5326

Leu	Phe	Lys	Tyr	Met	Lys	Arg	Met	Leu	Lys	Lys	Phe	Pro	Ser	Glu	Arg
1				5				10						15	

Glu	Leu	Ala	Tyr	Ala	Arg	Ile	Ile	Leu	Lys	Gln	Arg	Leu
			20					25				

<210> 5327

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5327

Lys	Leu	Lys	Leu	Phe	Asn	Arg	Ile	Leu	Arg	Arg	Leu	His	Arg	Ser	Arg
1				5				10						15	

Leu	Arg	Ala	Phe	Val	Arg	Ser	Leu	Leu	Leu	Glu	Arg	Pro	Ala
			20					25					30

<210> 5328

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5328

Ile	Leu	Arg	Leu	Leu	Asn	Lys	Ile	Phe	Arg	Arg	Tyr	Arg	Asn	Lys	Leu
1				5				10						15	

Lys	Asp	Met	Met	Arg	Lys	Tyr	Glu	Gln	Ser	Ala	Ala	Ala
			20					25				

<210> 5329

<211> 43

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5329

Leu Leu Lys Trp Leu Asn Lys Phe Leu Lys Arg Leu Thr Arg Ala Gly
 1 5 10 15

Lys Ala Pro Glu Arg Leu Asp Leu Thr Arg Ala Asn Gly Lys Arg Arg
 20 25 30

Pro Pro Met Gly Ala Gln Lys Arg Thr Val Thr
 35 40

<210> 5330
 <211> 55
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5330

Arg Tyr Arg Ile Ile Lys Lys Ile Ile Lys Arg Trp Asn Arg Ala Ala
 1 5 10 15

Arg Lys Leu Met Tyr Gly Phe Ala Leu His Lys Glu Lys Leu Leu Met
 20 25 30

Leu Ala Ile Ser Ala Glu Thr Ala Leu Lys His Arg Glu Leu Leu Glu
 35 40 45

Tyr Arg Leu Gly Lys Ile Leu
 50 55

<210> 5331
 <211> 69
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5331

Arg Ile Arg Leu Met Gln Arg Met Phe Arg Arg Leu Ser Cys Leu Val
 1 5 10 15

Arg Leu Arg Arg Lys Asn Ile Lys Glu Gln Cys Arg Met Leu Asp Arg
 20 25 30

Arg Ala Ala Thr Arg Phe Leu Ile Leu Arg Leu Gln Ala Gly Arg Ser

35

40

45

Gln Asp Asn Asn Glu Ala Lys Arg Ala Asn Asn Arg Glu Leu Ala Lys
 50 55 60

Ala Ala Cys Leu Ala
 65

<210> 5332
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5332

Ile Phe Lys Phe Leu Pro Arg Leu Leu Arg Lys Leu Arg Lys Leu Ala
 1 5 10 15

Ala Arg Arg Val Lys Leu Ala Met Leu Lys Thr Lys Gln Thr Arg Cys
 20 25 30

<210> 5333
 <211> 63
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5333

Arg Leu Arg Leu Tyr Lys Lys Phe Tyr Lys Leu Ile Lys Asn Arg Lys
 1 5 10 15

Ser Lys Arg His Ala Cys Val Asp Leu Glu Leu Tyr Arg Lys Lys Leu
 20 25 30

Ala Gly Asn Asn Glu Arg Leu Arg Arg Tyr Ala Arg Leu Ser Gly Gly
 35 40 45

Ala Tyr Gly Leu Leu Asn Gly Ala Leu Gln Cys Leu Pro Ala Phe
 50 55 60

<210> 5334
 <211> 74
 <212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5334

Arg Leu Arg Trp Leu His Arg Leu Phe Lys Met Ile Arg Lys Gln Leu
1 5 10 15

Leu Tyr Cys Ala Cys Leu Ala Thr Gly Phe Cys Asn Arg Arg Leu Tyr
20 25 30

Leu Lys Arg Thr Cys Lys Val Gln Gly Arg Trp Ala Ala Leu Glu Trp
35 40 45

Leu Lys Arg Leu Phe Lys Phe Lys Leu Ala Thr Ala Met Ser Lys Glu
50 55 60

Pro Leu Asn Ser Ala Arg Leu Phe Leu Leu
65 70

<210> 5335

<211> 42

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5335

Lys Trp Lys Leu Met Thr Arg Trp Phe Arg Lys Trp Lys Arg Leu His
1 5 10 15

Lys Arg Ile Ser Ala Ala Lys Gln His Arg Leu Gly Phe Ala Ala Leu
20 25 30

Lys Arg Leu Lys Lys Thr Ala Phe Gly Leu
35 40

<210> 5336

<211> 87

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5336

Arg Leu Arg Phe Phe Lys Arg Ile Phe Lys Met Leu Arg Ser Arg Thr
 1 5 10 15

Asp Arg Met Arg Arg Tyr Thr Asp Trp Arg Arg Ile Ala Leu Asn Ala
 20 25 30

Trp Arg Leu Lys Gly Thr Trp Arg Arg Lys Leu Ser Phe Ala Leu Pro
 35 40 45

Arg Glu Ala Glu Ser Ala Ala Arg Lys Ala Ser Leu Leu Leu Leu Val
 50 55 60

Leu Pro His Ala Asn Phe Met Leu Asp Phe Ile Ala Tyr Lys Lys Lys
 65 70 75 80

Lys Lys Lys Phe Met Ala Lys
 85

<210> 5337

<211> 69

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5337

Lys Leu Lys Phe Phe Pro Arg Met Phe Arg Arg Tyr Lys Arg Ala Leu
 1 5 10 15

Ser Glu Pro Leu Thr Asp Arg Ala Gly Gly Glu Phe Ala Val Arg Ala
 20 25 30

Arg Lys Asp Leu Ala Ala Lys Lys Arg Asp Leu Cys Lys Lys Ala Leu
 35 40 45

Tyr His Gln Phe Arg Ala Ala Thr Leu Arg Gln Leu Arg Asp Ser Ala
 50 55 60

Lys Gln Val Phe Leu
 65

<210> 5338

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5338

Tyr Trp Lys Tyr Ile Arg Lys Leu Met Lys Met Phe Arg Lys Gln Thr
1 5 10 15

Arg Glu Leu Lys Ala Leu Leu Met Leu Arg Ser Leu Met Tyr Leu Leu
20 25 30

<210> 5339

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5339

Arg Phe Arg Tyr Leu Asn Arg Met Trp Arg Lys Leu Arg Lys Met Met
1 5 10 15

Lys Gln Ala Ala Leu Cys Ala Asn Thr Cys Leu Glu Val Ala Pro Lys
20 25 30

Ala Arg

<210> 5340

<211> 60

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5340

Arg Leu Arg Ile Trp Ser Arg Met Leu Arg Met Met Arg Lys Lys Tyr
1 5 10 15

Leu Ala Ala Met Leu Arg Leu Gly Met Tyr Ile Asn His Pro Leu Pro
20 25 30

Ala Ala Lys Lys Arg Ala Leu Glu Leu Ala Arg Ala Leu Phe Thr His
35 40 45

Gln Glu Leu Met Gln Tyr Thr Arg Leu Arg Met Ala
 50 55 60

<210> 5341
 <211> 31
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5341

Lys Trp Arg Leu Leu Lys Arg Phe Trp Arg Met Leu His Ser Lys Thr
 1 5 10 15

Lys Arg Trp Ala Lys Asp Met Ala Arg Lys Ala Met Leu Trp Ala
 20 25 30

<210> 5342
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5342

Leu Leu Arg Phe Phe Lys Lys Trp Phe Lys Leu Leu Lys Lys Leu Ala
 1 5 10 15

Arg Asn Glu Trp Leu Glu His Lys
 20

<210> 5343
 <211> 37
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5343

Ile Phe Arg Leu Leu Lys Lys Tyr Leu Lys Lys Phe Lys Lys Ala Ala
 1 5 10 15

Lys Thr Asp Ala Ala Ala Cys Glu His Leu Asn Lys Val Val Lys Trp
 20 25 30

Arg Asp Gln Ala Gly
35

<210> 5344
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 5344

Lys Leu Lys Leu Ile Arg Lys Phe Leu Arg Leu Ile Thr Arg Ile Asn
1 5 10 15

Arg Val Ile Glu Ala
20

<210> 5345
<211> 51
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 5345

Arg Met Arg Phe Met Cys Arg Ile Phe Arg Leu Leu Arg Gln Ala Arg
1 5 10 15

Arg Ala Ala Arg Lys Ala Met Gly Leu Thr Arg Tyr Arg Leu Ala Arg
20 25 30

Leu Ala Asp Arg Tyr Asn Ile Leu Tyr Ile His Lys Asp Glu His Lys
35 40 45

Ala Lys Glu
50

<210> 5346
<211> 42
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 5346

Lys Phe Lys Leu Tyr Arg Arg Leu Phe Arg Ile Tyr Gln Asn Lys Leu
 1 5 10 15

Ala Ala Arg Leu Ala Ala Leu Gln Lys Lys Cys Ile Asn Arg Cys Arg
 20 25 30

Val Ile Ala Lys Gly Leu Gly Glu Arg Met
 35 40

<210> 5347
 <211> 46
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5347

Lys Phe Arg Tyr Leu Lys Arg Phe Trp Arg Leu Met Arg Arg Leu Asn
 1 5 10 15

His Lys Arg Ala Gly Cys Glu Lys Asp Phe Ala Lys Arg Ala Ala Cys
 20 25 30

Phe Ala Arg Asp Lys Thr Leu Leu Thr Leu Asn Lys Met
 35 40 45

<210> 5348
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5348

Arg Leu Arg Leu Met Thr Lys Tyr Leu Lys Trp Phe Cys Arg Arg Trp
 1 5 10 15

Phe Ala Leu Trp
 20

<210> 5349
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5349

Leu	Met	Arg	Trp	Leu	His	Lys	Leu	Leu	Lys	Ile	Phe	Arg	Arg	Lys	Glu
1				5					10					15	

Ala	Arg	Gly	Asn	Lys	Phe	Ile	Arg	Ser	Ala	Leu	Glu	Leu	Gly	Ala	Val
			20					25					30		

<210> 5350

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5350

Arg	Leu	Lys	Trp	Met	Lys	Arg	Leu	Trp	Arg	Tyr	Leu	His	Lys	Leu	Arg
1				5				10					15		

Leu	Ala	Arg	Trp	Phe	Leu
			20		

<210> 5351

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5351

Leu	Phe	Arg	Leu	Ile	Ser	Lys	Leu	Leu	Lys	Arg	Ile	Lys	Lys	Lys	Val
1				5					10					15	

Phe	Ala	Pro	Lys	Glu	Ala	Val	Lys	Lys	Val	Pro	Ile	His	Leu	Leu	Leu
			20					25					30		

Lys	Lys	Leu	Trp
		35	

<210> 5352

<211> 37

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5352

Met	Phe	Arg	Leu	Phe	Arg	Arg	Met	Trp	Lys	Arg	Leu	Arg	Arg	Lys	Asp
1				5					10					15	

Lys	Gln	Ala	Lys	Gly	Glu	Lys	Leu	Leu	Glu	His	Gln	Leu	Arg	Leu	Leu
			20					25					30		

Thr	Phe	Ser	Leu	Ala
			35	

<210> 5353

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5353

Lys	Tyr	Lys	Phe	Phe	Lys	Arg	Ile	Leu	Arg	Arg	Ile	His	His	Leu	Arg
1				5					10					15	

Lys	Met	Ala	Gly	Cys	Leu	Leu	Ala	Arg	Ser	Ala	Ala	Tyr	Lys	Leu	Ala
			20					25					30		

Lys	His	Cys	Arg	Ala	Ala	Arg	His
		35				40	

<210> 5354

<211> 53

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5354

Arg	Leu	Lys	Tyr	Phe	Lys	Lys	Tyr	Leu	Arg	Lys	Ile	Arg	Cys	Ala	Glu
1				5					10					15	

Leu	Ser	Ala	Lys	Leu	Leu	Ala	Gln	Phe	Leu	Lys	Arg	His	Glu	Ala	Ile
			20					25					30		

Leu	Phe	Ser	Tyr	Lys	Arg	Ala	Ala	Gln	Met	Ala	Thr	Leu	Thr	Ile	Glu
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

35

40

45

Arg Pro Ala Arg Leu
50

<210> 5355
<211> 96
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 5355

Lys Leu Lys Phe Leu Arg Lys Leu Phe Lys Tyr Tyr His Ser Ala Ala
1 5 10 15

Val Leu Ala Lys Lys Leu Leu Ala Glu Lys Thr Leu Thr Ala Asp Ala
20 25 30

Gly Gly Thr Arg Leu Thr Cys Arg Pro Arg His Ser Lys Trp Leu Leu
35 40 45

Phe Thr Ile Pro Lys Lys Gln Phe Leu Ser Leu Lys Ala Lys Arg Pro
50 55 60

Cys Ala Val Asn Gln Ala Leu Asp Lys Leu Leu Lys Pro Ala Pro Arg
65 70 75 80

Leu Arg Pro Ala Asp His Met Arg Arg Phe Leu Ser Trp Lys Ala Arg
85 90 95

<210> 5356
<211> 41
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 5356

Arg Phe Lys Leu Ile Lys Arg Trp Met Lys Lys Leu Arg His Leu Leu
1 5 10 15

Met Arg Ser Leu Cys Lys Ala Lys Gly Arg Leu Arg Ala Leu Gly Ala
20 25 30

Ala Glu Leu Lys Lys Ser Lys Gln Asp
 35 40

<210> 5357
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5357

Phe Leu Lys Leu Leu Ser Arg Leu Tyr Arg Arg Leu Ser Cys Arg Leu
 1 5 10 15

Arg Val His Gln Ile Ala Arg Leu Leu Lys Trp His Ala Ala His Lys
 20 25 30

Arg Asn Leu Ala Lys Asp Leu Gly
 35 40

<210> 5358
 <211> 38
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5358

Tyr Trp Lys Phe Tyr Arg Lys Phe Leu Arg Lys Phe Arg Thr Leu Leu
 1 5 10 15

Ile Ala Phe Arg Gln Val Ala Ala Val Gly Asp Ala Ala Leu Leu Ala
 20 25 30

Tyr Gln Arg Arg His Leu
 35

<210> 5359
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5359

Leu Met Lys Tyr Leu Lys Arg Phe Leu Lys Lys Phe Lys Arg Leu Ala
 1 5 10 15

Arg Arg Leu Tyr Arg Met Lys Ala Gly Ala Gly His Arg Ala Val Asp
 20 25 30

Met His Leu
 35

<210> 5360
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5360

Lys Tyr Arg Phe Leu His Arg Leu Met Lys Tyr Leu Gln Lys Asn Arg
 1 5 10 15

Arg Phe Lys Leu Lys Thr Lys His Thr Met Ala Leu Ala Tyr Cys Arg
 20 25 30

Ala Ala Gly Gly Pro Tyr Ala Lys
 35 40

<210> 5361
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5361

Lys Leu Lys Leu Trp Lys Arg Ile Leu Arg Met Phe Lys Lys Ala Asp
 1 5 10 15

Asp Leu Arg Thr Lys Gln Arg Thr Gln Pro Ala Ala Ala Glu Thr Val
 20 25 30

<210> 5362
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5362

Lys Leu Arg Trp Leu His Lys Trp Phe Lys Arg Leu Pro Lys Lys Phe
 1 5 10 15

Arg Cys Leu Asp Leu Leu Leu Phe Val Gly Arg Tyr Thr Leu Thr Arg
 20 25 30

<210> 5363

<211> 38

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5363

Ile Phe Lys Leu Phe Thr Arg Leu Leu Arg Arg Leu Cys Asn Lys Ala
 1 5 10 15

Tyr Gly Leu Lys Pro His Arg Tyr Thr Leu Pro Leu Arg Arg Cys Leu
 20 25 30

Arg Lys Gly Phe Tyr Leu
 35

<210> 5364

<211> 55

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5364

Lys Leu Arg Met Tyr Arg Lys Leu Leu Lys Lys Tyr Lys Arg Ala Ala
 1 5 10 15

Arg Arg Leu Ala His Leu Tyr His Gln Asp Lys Trp Phe Ala Glu His
 20 25 30

Arg Leu Thr Leu Ile Leu Lys Lys Ala Leu Trp Tyr Val Asp Gln Phe
 35 40 45

Lys Ser Pro Arg Ala Asn Ala

50

55

<210> 5365

<211> 91

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5365

Arg Tyr Lys Leu Phe Asn Lys Phe Met Arg Arg Trp Arg Gln Tyr Leu
 1 5 10 15

Lys Ile Arg Val Ala Ala Lys Asn Leu Arg Arg Arg Pro Lys Ala Lys
 20 25 30

Trp Leu Leu Thr Arg Phe Ser Phe Thr Val Leu Ala Asn Leu Ala Leu
 35 40 45

Cys His Lys Thr Leu Pro Arg Arg Ala Val Asn Lys Thr Lys Ala Arg
 50 55 60

Lys Leu His Arg Arg Ile Arg Lys Leu Leu Arg Pro Pro Cys Arg Arg
 65 70 75 80

Leu Tyr His Cys Val Ala Leu Asn Leu Ile Ile
 85 90

<210> 5366

<211> 51

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5366

Phe Ile Arg Tyr Phe His Arg Leu Leu Arg Arg Tyr Ser Gln Leu Val
 1 5 10 15

Ala Arg Gly Ala Thr Phe Ala Ala Ala Arg Met Glu Thr Leu Lys Leu
 20 25 30

Val Thr Pro Arg Glu Lys Leu Ala Leu Lys Leu Arg Phe Trp Lys Lys
 35 40 45

Lys Trp Leu
50

<210> 5367
<211> 22
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 5367

Arg Leu Lys Leu Leu Pro Arg Met Leu Arg Lys Leu Pro Ser Asp His
1 5 10 15

His Thr Arg Leu Leu Lys
20

<210> 5368
<211> 69
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 5368

Arg Ile Lys Leu Met Ser Arg Phe Ile Arg Arg Leu Arg Gln Gly Leu
1 5 10 15

Thr Lys Asp Ala Leu Thr Arg Lys Phe Arg Ala Glu Phe Leu His Arg
20 25 30

Leu Lys Ala Arg Val Ala Ala Ala Leu Val Lys Ala Ala Leu Leu Leu
35 40 45

Leu Leu Asp Ala Leu Thr Lys Cys Lys Cys Gln Ile Val Asn Val Glu
50 55 60

Lys His Ile Leu Gly
65

<210> 5369
<211> 50
<212> PRT
<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5369

Ile	Leu	Arg	Met	Leu	Gln	Lys	Leu	Ile	Lys	Leu	Tyr	Arg	Arg	Ala	Leu
1				5					10					15	

Ile	Leu	Pro	Ser	Glu	Ala	Ala	Phe	Arg	Arg	Ala	His	Glu	Ala	Ser	Leu
			20					25					30		

Phe	Glu	His	Pro	Ala	Asn	Cys	Lys	Asp	Lys	Lys	Leu	Lys	Ile	Gly	Ala
		35					40					45			

Ala	Arg
	50

<210> 5370

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5370

Lys	Met	Arg	Leu	Trp	Arg	Lys	Tyr	Ile	Arg	Met	Met	Cys	Ser	Leu	Lys
1				5					10					15	

Lys	Leu	Glu	Lys	Ala	Phe	Leu	Lys	Leu	Cys	Leu	Leu	Asn
			20				25					

<210> 5371

<211> 60

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5371

Tyr	Tyr	Lys	Met	Tyr	Gln	Arg	Ile	Phe	Lys	Arg	Met	His	Lys	Leu	Met
1				5					10					15	

Leu	Cys	Lys	Cys	Leu	Met	Gln	Leu	Leu	Phe	Glu	Ala	Leu	Pro	Arg	Lys
			20				25						30		

Phe	Lys	Ser	Arg	Arg	Lys	Leu	Trp	Cys	Leu	Ala	Arg	Arg	Cys	Lys	Asp
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

35

40

45

Ser Lys Ala Asp Arg Lys Ala Leu Thr Asn Leu Lys
 50 55 60

<210> 5372
 <211> 31
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5372

Lys Phe Lys Tyr Ile Arg Arg Leu Leu Lys Tyr Leu Ser Lys Lys Arg
 1 5 10 15

Ala Ile Lys Ala Lys Trp Ala Lys Ala Leu Asp Ala Ile Pro Gln
 20 25 30

<210> 5373
 <211> 74
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5373

Trp Trp Lys Ile Phe Lys Arg Leu Phe Lys Lys Phe His Arg Glu Ala
 1 5 10 15

Ala Arg Arg Leu His Arg Ser Leu Leu Leu Glu Leu Met Pro Gln Lys
 20 25 30

Leu Glu Leu Thr Pro Gln Phe Pro Phe Ala Arg Arg Arg Ala Arg Gly
 35 40 45

Tyr Met His Ala Arg Lys Leu Arg Trp Asp Ala Ser Leu Asp Leu Leu
 50 55 60

Glu Pro Asn Arg Arg Ala Ala Lys Arg Thr
 65 70

<210> 5374
 <211> 31
 <212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5374

Lys Tyr Arg Leu Phe Arg Arg Tyr Phe Arg Phe Leu Ser Thr Arg Ala
1 5 10 15

Ala Lys Lys His Lys Tyr Ala Asp Ala Leu Met Arg Ala Phe Met
20 25 30

<210> 5375

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5375

Ile Trp Lys Trp Met Pro Arg Leu Leu Lys Leu Trp Lys Lys Ala Arg
1 5 10 15

Ala Leu Arg Arg Lys Trp Gln Pro Ala Gln Thr Ala Ala
20 25

<210> 5376

<211> 45

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5376

Lys Phe Lys Leu Trp Lys Lys Leu Trp Lys Leu Leu Lys Ser Gly Leu
1 5 10 15

Cys Leu Tyr Leu Arg Trp Ala Ala Leu Lys Cys Met Arg Arg Gln Leu
20 25 30

Gly Ser Leu Ala Gln Cys Arg Asp Pro Phe Arg Cys Val
35 40 45

<210> 5377

<211> 52

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5377

Lys Leu Arg Leu Trp Arg Lys Met Tyr Lys Leu Leu Arg Cys Cys Lys
1 5 10 15

Ala Arg Pro Glu Arg Arg Pro Ser Ala Gln Gln Cys Ile Leu Ala Val
20 25 30

Glu Leu Pro Leu Thr Lys Leu Ala Ser Asp Ala Ala Arg Arg Ala Arg
35 40 45

Met Tyr Leu Val
50

<210> 5378

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5378

Arg Phe Arg Leu Trp Asn Lys Trp Leu Arg Leu Leu Pro Arg Tyr Lys
1 5 10 15

Leu Gln Arg Asp Leu Leu Leu Lys
20

<210> 5379

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5379

Leu Leu Lys Leu Met Gln Lys Phe Trp Lys Lys Phe Arg Gln Ala Leu
1 5 10 15

Arg Lys Glu Leu Leu Leu
20

<210> 5380
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5380

Met Leu Lys Leu Tyr Lys Arg Leu Tyr Arg Lys Ile Lys Asn Pro Asn
 1 5 10 15

Leu Ala Leu Leu Leu Ala Gly Asn Arg Trp Ala Arg Ser Leu Leu Tyr
 20 25 30

Lys Gln Gly Asp Val Ala Thr Tyr
 35 40

<210> 5381
 <211> 38
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5381

Lys Tyr Lys Phe Leu Arg Lys Leu Phe Lys Arg Phe Arg Arg His Ile
 1 5 10 15

Gly Leu Asn Leu Lys Leu Ser Trp Arg Asn Leu Phe Ala Ala Arg Gly
 20 25 30

Gln Arg Phe Ala Gln Met
 35

<210> 5382
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5382

Leu Phe Lys Phe Tyr Lys Lys Leu Ile Arg Met Leu Ser Asn Leu Arg
 1 5 10 15

Lys Asn Phe Leu Val Ala Glu Leu Tyr Lys Glu Lys Lys
20 25

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<210> 5383
<211> 22
<212> PRT
<213> Artificial Sequence
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<220>
<223> Computer-generated peptide variant

<400> 5383

Lys Leu Lys Tyr Leu His Arg Ile Leu Lys Lys Leu Pro Asn Leu Arg
1 5 10 15

His Thr Ala Gly Lys Val
20

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<210> 5384
<211> 29
<212> PRT
<213> Artificial Sequence
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<220>
<223> Computer-generated peptide variant

<400> 5384

Lys Leu Arg Leu Tyr Thr Lys Ile Leu Lys Arg Leu Lys Lys Ile Lys
1 5 10 15

Lys Lys Leu Lys Asp Leu Phe Leu Leu Met Tyr Leu Val
20 25

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<210> 5385
<211> 61
<212> PRT
<213> Artificial Sequence
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<220>
<223> Computer-generated peptide variant

<400> 5385

Arg Phe Arg Leu Trp Arg Arg Phe Trp Arg Leu Phe Lys Arg Ala Thr
1 5 10 15

Ile Gly Lys Ala Ala Gln His Ala Ala Pro Asn Arg Ser Ala Leu Lys
20 25 30

Tyr Glu Lys Arg Asp Tyr Ala Lys Lys Pro Lys Ala Glu Ala Trp Leu
 35 40 45

Cys Lys Lys Leu His Lys Asn Phe Val Ala Ala Asp His
 50 55 60

<210> 5386
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5386

Arg Leu Lys Leu Phe Ser Lys Leu Tyr Arg Arg Leu Gln Lys Ala Ala
 1 5 10 15

Ala Asp Val Arg
 20

<210> 5387
 <211> 80
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5387

Leu Leu Lys Trp Phe Ser Arg Tyr Phe Arg Arg Ile Lys Lys Val Leu
 1 5 10 15

Lys Leu Thr Thr Trp Tyr Arg Phe Lys Cys Asp Leu Arg Arg Pro Leu
 20 25 30

Arg Phe Leu Ala Leu Arg Pro Arg Arg Asn Ala Val Ser Ala Arg Ala
 35 40 45

Leu Phe Glu Ala Ala Cys Arg Cys Tyr His Leu Glu Ala Gly Ala Arg
 50 55 60

Arg Lys Ser Asn Tyr Phe Lys Leu Ala Phe Arg Ala Ser Arg Tyr Pro
 65 70 75 80

<210> 5388

<211> 69
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5388

Lys Trp Lys Met Phe Cys Arg Leu Phe Arg Arg Leu Lys Arg Asp Lys
 1 5 10 15

Ala Lys Val Ser Gln Gly Gln Leu Lys Lys Arg His His Ala Leu Leu
 20 25 30

Cys Arg Phe Arg Leu His Met Cys Ile His Phe Cys Arg Ile Glu Tyr
 35 40 45

Ala Arg Ile Arg Leu Leu Arg Arg Ala Ala Arg Leu Trp His Asp Lys
 50 55 60

Ala Glu Ala Val Lys
 65

<210> 5389
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5389

Tyr Phe Arg Ile Phe Arg Arg Leu Leu Arg Ile Phe His Arg Ala Ile
 1 5 10 15

Leu Ala Lys Arg Val
 20

<210> 5390
 <211> 59
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5390

Lys Ile Arg Phe Leu Asn Lys Phe Ile Lys Lys Trp Arg Arg Glu Ala

Lys	Leu	Arg	Phe	Met	Arg	Lys	Leu	Ile	Lys	Leu	Phe	Lys	Ser	Lys	Leu
1				5					10					15	
Lys	Arg	Lys	Val	Ser	Leu	Ser	Thr	Val	Ala	Leu	Leu	Arg	Cys	Ala	Asn
			20					25					30		
Leu	Ile	Arg	Leu	His	Trp	Arg	Leu	Ala	Arg	Arg	Arg	Leu	Met	Lys	Ser
		35					40					45			
Gly	Ile	His	Leu	Lys	Cys	Lys	Met	Ser	Lys	Glu	Thr	Pro	Asp	Leu	Asn
	50					55					60				
Arg	Arg	Met	Ser	Trp	Leu	Ala	Arg	Lys	Leu	Cys	Leu	Lys	His	Lys	
65					70					75					

Phe Ile Arg Leu Trp Pro Arg Leu Leu Lys Arg Phe Arg Lys Met Arg
1 5 10 15

Pro Arg Leu Thr Arg Trp Arg Ile Gly Asn Arg Arg Leu His Arg Lys
 20 25 30

Ala Phe Phe Leu Ala Arg Leu Gln Ala Ile Lys Leu Phe Gly Gly Ala
 35 40 45

Arg Val Ile Leu Leu Trp Lys His
 50 55

<210> 5393
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5393

Lys Met Arg Leu Trp Lys Arg Leu Ile Lys Met Phe Arg Pro Lys Arg
 1 5 10 15

Asp Leu Ala Val Glu Ala Arg Met Ala Tyr Ala Trp Lys Ala Pro Gly
 20 25 30

Lys Ala Arg
 35

<210> 5394
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5394

Lys Phe Arg Leu Met Arg Lys Trp Leu Lys Trp Ile Lys Lys Leu Glu
 1 5 10 15

Pro Gly Ala Ala Ser
 20

<210> 5395
 <211> 92
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5395

Arg	Tyr	Lys	Trp	Phe	Arg	Lys	Leu	Tyr	Lys	Lys	Phe	Arg	Cys	Leu	Tyr
1				5					10					15	

Lys	Arg	Glu	Ala	Thr	Ala	Arg	Ala	Ala	Asp	Ser	Arg	Leu	Leu	Ala	Ala
		20					25						30		

Phe	Arg	Arg	Glu	Pro	Gln	Trp	Asp	Val	Ile	Arg	Arg	Arg	Asn	Leu	Asp
		35					40					45			

Gly	Leu	Leu	Thr	Asn	Ala	Gln	Gly	Leu	Lys	Phe	Lys	Gln	Gly	Lys	Arg
	50					55					60				

Leu	Leu	Leu	Gly	Arg	Gln	Cys	Arg	Gln	Arg	Leu	Asp	Lys	Asp	Ser	Leu
65					70					75					80

Leu	Glu	Ala	Ala	Glu	Leu	Ala	Ala	Val	Ala	Gln	Pro
			85						90		

<210> 5396

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5396

Lys	Trp	Lys	Met	Tyr	Arg	Lys	Trp	Trp	Lys	Leu	Leu	Arg	Lys	His	Ala
1				5					10					15	

Pro	Arg	Phe	Arg	Ala	Arg	Ala	Gly	Phe	Ala	Ala	Leu	Met	Ala	Ala	Gly
			20					25					30		

Lys

<210> 5397

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5397

Arg Leu Lys Leu Ile Gln Lys Leu Ile Lys Tyr Met Arg Lys Lys Ala
1 5 10 15

Phe Glu Leu Asn Asp Ala Gln Leu
20

<210> 5398

<211> 43

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5398

Arg Ile Arg Met Phe Thr Lys Leu Met Lys Leu Leu Arg His Arg Ala
1 5 10 15

Lys Lys Leu Arg Lys Leu Ala Lys Trp Leu Tyr Lys Val Gln Ser Asn
20 25 30

Gly Ala Leu Ala Tyr Arg Thr Arg Ser Ser Phe
35 40

<210> 5399

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5399

Tyr Leu Lys Ile Phe Arg Lys Phe Leu Lys Arg Leu Arg His Met Ala
1 5 10 15

Thr Leu Arg Asp Gly
20

<210> 5400

<211> 80

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5400

Tyr Leu Arg Leu Trp Lys Lys Met Met Arg Leu Ile Arg Pro Ala Met
1 5 10 15

Leu Arg Glu Leu Ala Arg Lys Met Cys Lys Lys Glu His Leu Trp His
20 25 30

Pro Ala Gly Ala His Gly Leu Ile Asn Thr Lys Leu Glu Trp His Leu
35 40 45

Leu Ala Ser Ser Trp Lys Ala Ala Ala Gly Ser Ala Gly Trp Tyr Lys
50 55 60

Arg Ala Ala Arg Leu Lys Ala Ala Lys Glu Glu Ala Ala Met Lys His
65 70 75 80

<210> 5401

<211> 52

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5401

Met Leu Lys Met Leu Arg Lys Met Phe Lys Phe Phe Gln Arg Leu Ala
1 5 10 15

Arg Cys Gly Glu Ala Lys His Glu Cys Phe Ala Leu Glu Lys Lys Asn
20 25 30

Asn Ile Arg His Arg Leu Lys Arg Asn Arg Ala Arg Lys Asn Leu Phe
35 40 45

Ala Arg Leu Leu
50

<210> 5402

<211> 43

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5402

Arg Leu Arg Phe Leu Pro Arg Leu Tyr Arg Lys Phe Ser Pro Ala Arg
 1 5 10 15

Leu Lys Val Lys Leu Asn Thr Arg Lys Thr Ala Cys Asp Arg Phe Asn
 20 25 30

His Lys Arg Asp Met Leu Met Ala Met Leu Leu
 35 40

<210> 5403
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5403

Leu Met Lys Leu Ile His Lys Leu Phe Arg Lys Leu Asn Pro Ala Asp
 1 5 10 15

Lys Leu Thr Leu Gly Lys Met Lys Arg Lys Asn Trp Arg Asn Leu Arg
 20 25 30

Ala Gln

<210> 5404
 <211> 27
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5404

Lys Tyr Arg Trp Leu Thr Arg Leu Tyr Arg Arg Phe Lys Arg Ala Ser
 1 5 10 15

Ala Leu His Ala Pro Lys Leu Leu Gln Ile Asn
 20 25

<210> 5405
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5405

Leu	Leu	Arg	Leu	Tyr	Lys	Lys	Phe	Met	Arg	Leu	Leu	Lys	Ser	Arg	Phe
1				5					10					15	

Leu	Asp	Asn	Asn	Ile	Arg	Trp	Ala	Asn	Asp	Ala	Ala	Ala	Met	Lys	Lys
			20					25					30		

Phe

<210> 5406

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5406

Arg	Leu	Lys	Leu	Trp	Arg	Lys	Phe	Phe	Lys	Lys	Leu	Asn	His	Asp	Leu
1				5					10					15	

Leu	Arg	Cys	His	Asp	Thr	Gln	Met	Ala	Phe	Arg	Tyr	Leu	Ser	Ala	Lys
			20					25					30		

Lys Lys

<210> 5407

<211> 80

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5407

Lys	Ile	Arg	Leu	Phe	Arg	Lys	Tyr	Met	Arg	Arg	Tyr	Lys	Arg	Asp	Arg
1				5					10					15	

Ala	Ala	Ile	Ala	Arg	Gly	Met	Asp	Val	Glu	Ala	Thr	Leu	Lys	Lys	Tyr
			20					25					30		

Ala Pro Ser Met Leu Gln Ala Leu Gly Leu Ser Ile Leu Asn Phe Leu

35

40

45

Cys His Ala Arg Lys Glu Ala Glu Lys Tyr Pro Leu Gly Thr Ala Ala
 50 55 60

Arg Lys Ala Phe Asn Gln Ala Phe Ala Asn Arg Leu Lys Ala Ala Lys
 65 70 75 80

<210> 5408

<211> 57

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5408

Arg Trp Lys Leu Leu Arg Arg Ile Tyr Lys Arg Trp Lys Thr Pro Arg
 1 5 10 15

Glu Leu Val His Ala Trp Leu Leu Trp Ala Arg Lys Arg Ala Tyr Leu
 20 25 30

Met Lys Lys Leu Glu Met Leu Pro Asn Arg Arg Ile Ala Asp Lys Cys
 35 40 45

Arg Cys Gln Leu Lys Leu Ala Met Val
 50 55

<210> 5409

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5409

Arg Leu Lys Leu Met Thr Lys Phe Ile Lys Arg Phe Lys Gln Lys Ala
 1 5 10 15

Leu Trp Leu Met Leu Leu Lys Glu Glu Ile
 20 25

<210> 5410

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5410

Arg	Ile	Lys	Phe	Tyr	Arg	Arg	Leu	Leu	Arg	Arg	Met	Arg	Asn	Leu	Trp
1				5					10					15	

Met	Ala	Ala	Leu	Arg	Arg	Glu	Asn	Leu
			20				25	

<210> 5411

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5411

Phe	Met	Arg	Leu	Leu	His	Lys	Tyr	Leu	Arg	Leu	Leu	Pro	Lys	Leu	Ala
1				5					10					15	

Ala	Leu	Gln	Glu	Phe	Arg	Lys	Glu	Ser	Lys	Pro	Lys	Leu	Lys	Gln	Pro
			20					25					30		

Arg Tyr

<210> 5412

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5412

Lys	Ile	Arg	Leu	Trp	Pro	Lys	Leu	Met	Arg	Lys	Leu	Lys	Arg	His	Ala
1				5					10					15	

Ala	Ala	Asp	Ser	Glu	Asn	Lys
				20		

<210> 5413

<211> 42

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5413

Arg Tyr Lys Leu Phe Ser Lys Phe Leu Arg Arg Met Arg Arg Met Ile
1 5 10 15

Ile Ala Ser Glu Lys Ile Gln Arg Cys Ala Asn Cys Lys Lys Trp Leu
20 25 30

Leu Tyr Lys Trp Leu Ala Ala Ala Arg Lys
35 40

<210> 5414

<211> 78

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5414

Arg Met Lys Leu Leu Cys Arg Phe Leu Lys Leu Leu Arg Thr Asp Ala
1 5 10 15

Lys Pro Ala Ala Glu Ala Thr Thr Arg Lys Arg Leu Ala Arg Asn Arg
20 25 30

Trp Gly Ala Leu Gln Arg Lys Trp Arg Asn Pro Ile Arg Tyr Ile Gly
35 40 45

Ala Leu Gln Lys Leu Lys Ile Leu Lys Lys Gly Val Arg Ala Gln Gly
50 55 60

Leu Ala Arg Ala Arg Met Lys Lys Lys Leu Val Trp Arg Val
65 70 75

<210> 5415

<211> 54

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5415

Tyr Leu Lys Phe Phe Lys Lys Leu Ile Arg Lys Phe Thr Arg Pro Ala
 1 5 10 15

Arg Leu Arg His Arg Leu Ile Arg Ser Ser Arg Ala Phe Arg Trp Ala
 20 25 30

Leu Ile Leu Leu Val Leu Ile Phe Cys Gly Gln Cys Lys Ala Leu Gln
 35 40 45

Ala Ala Ala Tyr Arg Met
 50

<210> 5416
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5416

Lys Phe Lys Leu Phe Cys Arg Phe Leu Arg Arg Leu Arg Pro Arg Ala
 1 5 10 15

Lys Gly Ser Met Ala Gln Asp Gln Ala
 20 25

<210> 5417
 <211> 79
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5417

Trp Trp Arg Ile Leu Arg Arg Met Trp Arg Lys Phe Arg Lys Tyr Arg
 1 5 10 15

Gly Arg Asn Ala Ala Arg Asn Pro Gly Arg Lys Gly Tyr Lys Gly Met
 20 25 30

Ala Leu Leu Ala Leu Ala Arg Ile Pro Ala Asn His Lys Val Lys Gln
 35 40 45

Ile Ala Arg Leu Glu Ala Arg Trp Tyr Ala Lys Ala Lys Pro Lys Ile

50

55

60

Val Phe Ala Lys Leu Ala Leu Asn Asp Ala Ala Leu Phe Arg Ser
 65 70 75

<210> 5418
 <211> 31
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5418

Tyr Met Arg Leu Leu Lys Lys Leu Trp Arg Lys Tyr Cys Arg Leu Ala
 1 5 10 15

Arg Gly Asp Cys Trp Glu Ala Val Lys Lys Leu Asp Thr Leu Lys
 20 25 30

<210> 5419
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5419

Lys Ile Lys Leu Ile Asn Lys Leu Leu Lys Arg Phe Lys Thr Ala Thr
 1 5 10 15

Pro Lys Leu His Ala Val Pro Ile Ala Pro Arg Gly Leu
 20 25

<210> 5420
 <211> 42
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5420

Leu Ile Arg Leu Phe Asn Arg Phe Trp Lys Arg Met Lys Arg Arg Leu
 1 5 10 15

Lys Trp Thr Gly Leu Arg Pro Arg Ala Gly Asp Phe Arg Thr Arg Leu

20

25

30

Leu Cys Leu Lys Thr Tyr Ala Asn Ala Lys
 35 40

<210> 5421

<211> 95

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5421

Lys Leu Lys Trp Leu Gln Lys Phe Leu Arg Arg Phe Arg Asn Leu Lys
 1 5 10 15

Arg Val Met Phe Lys Arg Pro Gln Ala Asp Tyr Asp Ile Lys Ala Asn
 20 25 30

Ile Thr Lys Ala Lys Ile His Ala Ala Ala Lys Arg Ala Asn Cys Lys
 35 40 45

Lys Ala Ala Arg Arg Phe Lys Thr Met Tyr Ala Thr Ala Arg Leu Lys
 50 55 60

Ala Trp Ala Arg Leu Trp Lys Leu Ala Arg Lys Met Arg Phe Gln Asp
 65 70 75 80

Thr Leu Glu Lys Ala Leu Ala Val Thr Leu Gln Leu Gln Thr Gln
 85 90 95

<210> 5422

<211> 37

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5422

Lys Leu Lys Met Leu Ser Arg Phe Trp Lys Leu Leu Arg Arg Leu Leu
 1 5 10 15

Val Ile Thr Leu Leu Gln Asn Arg Lys Leu Asp Val Ala Val Gln Arg
 20 25 30

Arg Arg Asn Ser Gly
35

<210> 5423
<211> 31
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 5423

Arg Phe Lys Met Phe Lys Lys Leu Met Lys Lys Phe Thr Lys Cys Phe
1 5 10 15

Leu Glu Thr Lys Lys Pro Ala Asp Ala Leu Leu Trp Ala Leu Arg
20 25 30

<210> 5424
<211> 37
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 5424

Arg Phe Lys Leu Trp Asn Lys Leu Leu Arg Lys Leu Arg His Leu Asn
1 5 10 15

Leu Val Met Lys Thr Ala Ala Phe Leu Arg Val Trp Cys Leu Tyr Leu
20 25 30

Val Arg Thr Lys Thr
35

<210> 5425
<211> 58
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 5425

Arg Met Lys Met Leu Arg Arg Phe Leu Arg Lys Leu Arg Arg Lys Trp
1 5 10 15

Arg Glu Trp Leu Arg Leu Arg Arg Lys Val Ala Cys Gly Ser Asp Ala
 20 25 30

Lys Thr Ala Phe Asp Thr Ile Gln Arg Ala Trp Arg Gly Gln Leu Leu
 35 40 45

Val Asn Ala Ala Phe Lys Ala Arg Ala Ser
 50 55

<210> 5426
 <211> 39
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5426

Leu Leu Arg Ile Met His Arg Trp Tyr Lys Ile Leu Lys Lys Arg Ala
 1 5 10 15

Arg Lys Asp Arg Asn Leu Phe Lys Lys Ala Glu Asp Thr Ser Ala Thr
 20 25 30

Ile Ala Phe Ala Leu Gly Arg
 35

<210> 5427
 <211> 26
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5427

Met Trp Arg Leu Leu Lys Lys Trp Leu Arg Lys Phe Arg His Lys Gln
 1 5 10 15

Gln Gln Leu Ala Pro Trp Leu Ile Lys Ala
 20 25

<210> 5428
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5428

Tyr Leu Lys Phe Leu Asn Arg Phe Phe Lys Lys Met Gln Arg Met Leu
 1 5 10 15

Ala Arg Leu Leu Leu Tyr
 20

<210> 5429

<211> 74

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5429

Ile Tyr Lys Leu Trp Ser Lys Leu Phe Lys Arg Met Ser Cys Ala Val
 1 5 10 15

Ser Gln Pro Cys Ala Glu Arg Arg Phe Lys Lys Phe Asn Arg Ala Gly
 20 25 30

Thr Lys Leu Ala Tyr Arg Leu Cys Leu Arg His Asn Tyr Lys Ala Arg
 35 40 45

Leu Asp Arg Ala Leu Ile Trp Lys Ala Arg Arg Leu Lys Asn Lys Arg
 50 55 60

Tyr Ala Arg Gly Ala Lys Lys Pro Ile Ala
 65 70

<210> 5430

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5430

Phe Leu Arg Tyr Phe Arg Arg Leu Ile Lys Lys Leu Gln Cys Arg Cys
 1 5 10 15

Leu Tyr Ala Leu Lys Leu Leu Met Arg Cys Ala Tyr Ala Asp Lys His

20

25

30

Lys Gln Trp Ser Lys Arg Lys Tyr
 35 40

<210> 5431

<211> 77

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5431

Arg Ile Arg Trp Met Lys Arg Met Leu Lys Tyr Trp Pro Lys Ala Lys
 1 5 10 15

Leu Arg Leu Phe Ala Leu Met Ala Gln Met Ala Lys Arg Leu Gln Ala
 20 25 30

Ile Asp Pro Leu Arg Gly Trp Ala Thr Arg Ala Arg Leu Lys Pro Thr
 35 40 45

Ala Gly Asp Cys Lys Arg Lys Phe Lys Ala Val Cys Ala Ala Gln Leu
 50 55 60

Leu Gln Gly Ala Ala Leu Arg Ala Val Gln Asp Gln Asn
 65 70 75

<210> 5432

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5432

Met Met Lys Leu Leu Lys Arg Phe Trp Lys Leu Met Lys Thr Asn Met
 1 5 10 15

Leu Asn Ala Lys Lys Leu
 20

<210> 5433

<211> 56

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5433

Arg Met Arg Leu Trp Arg Lys Phe Phe Lys Leu Leu Lys Lys Thr Thr
1 5 10 15

Trp His Arg Ile Arg Asn Ala Arg Ala Ala Tyr Ile Arg Lys Ala Tyr
20 25 30

Met Arg Thr Ala Ala Glu Met Arg Leu Leu Thr Thr Leu Lys Lys Leu
35 40 45

Ala Arg Leu Leu Leu Thr Asn His
50 55

<210> 5434

<211> 61

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5434

Arg Tyr Arg Tyr Leu His Lys Leu Ile Arg Tyr Ile Gln Lys Arg Asn
1 5 10 15

Leu Glu Lys Leu His Ala Lys Leu Leu Val Lys Phe Lys Gln Gln
20 25 30

Ala Trp Asp Leu Asn Tyr Arg Arg His Phe Asp Val Val Glu Leu Arg
35 40 45

Lys Arg His Cys Arg Leu Lys Leu Asp Arg Ala Ala Leu
50 55 60

<210> 5435

<211> 67

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5435

Lys Met Arg Ile Leu Arg Lys Phe Phe Arg Arg Phe Thr Pro Thr Arg
 1 5 10 15

Lys Arg Ala Thr Lys Trp Ile Ile Arg Arg Arg Leu Met Pro Arg Ser
 20 25 30

Leu Ala Met Val Ala Leu Ala Thr Arg Lys Ala Asn Ala Thr Arg Ile
 35 40 45

Glu Leu Pro Ala Arg Tyr Ala Leu Glu Ala Cys Asp Val Ala Tyr Leu
 50 55 60

Thr Ala Lys
 65

<210> 5436
 <211> 38
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5436

Phe Trp Arg Phe Leu Arg Lys Tyr Leu Arg Phe Tyr Arg Gln Ala Leu
 1 5 10 15

Ala Trp Arg Cys Ala Ala Ser Arg Gln Trp Leu Leu Leu Met Tyr Leu
 20 25 30

Lys Gln Asn Arg Phe Ala
 35

<210> 5437
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5437

Leu Phe Lys Met Ile Lys Lys Leu Phe Lys Tyr Phe Asn Arg Arg Ala
 1 5 10 15

Cys His Ala Lys Ala Met Leu Arg Asn Leu Gln Gly Arg Ala

20

25

30

<210> 5438

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5438

Lys Trp Lys Met Leu Arg Lys Leu Leu Arg Met Leu His Gln Trp Ser
 1 5 10 15

Arg Leu Arg Val Arg Leu Asp Ala Gly Ala Lys Leu
 20 25

<210> 5439

<211> 45

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5439

Leu Ile Arg Phe Ile Cys Arg Leu Ile Lys Leu Phe Arg Arg Ala Arg
 1 5 10 15

Trp Leu Ala Lys His Lys Ala Glu Ala Lys Ala Gly Gly Lys Met Ile
 20 25 30

Arg Ala Arg Asp Arg Lys Leu Cys Val Glu Asn Ser Tyr
 35 40 45

<210> 5440

<211> 47

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5440

Trp Leu Lys Phe Leu Lys Lys Met Leu Arg Leu Phe Arg Arg Arg Thr
 1 5 10 15

His Ala Thr Ala Lys Leu Phe Arg Lys His Ala Glu Gln His Cys Leu

20

25

30

Leu Lys Phe Asn Lys Val Ile Arg Trp Ala His Arg Val Met Lys
 35 40 45

<210> 5441

<211> 51

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5441

Trp Phe Lys Leu Leu Lys Lys Leu Met Arg Lys Leu Asn Lys Leu Pro
 1 5 10 15

Thr Ala Pro Lys Thr Ala Ala Lys Met Gln Leu Trp Leu Met Asn Arg
 20 25 30

Lys Gln Gln Asp Gly Ser Phe Leu Leu Leu Ile Glu Leu Arg Ala Glu
 35 40 45

Leu Arg Ala
 50

<210> 5442

<211> 50

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5442

Phe Leu Arg Ile Leu Arg Lys Ile Ile Arg Arg Phe Lys Arg His Leu
 1 5 10 15

Met Val Ala Pro Arg Ala Lys Ala Ile Asn Tyr His Leu Arg Ala Ala
 20 25 30

Ser Val Arg Cys Arg Gly Cys Met Ala Ile Ala Met Arg Ala Ser Ala
 35 40 45

Arg Lys
 50

<210> 5443
 <211> 54
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5443

Phe Leu Arg Phe Tyr Cys Lys Ile Ile Lys Lys Leu Thr Arg Met Lys
 1 5 10 15

Ala Ile Ile Arg Ala His Arg Arg Ala Leu Val Arg Arg Ala Ala Ala
 20 25 30

Tyr Arg Asp Leu Ser Arg Arg Glu Ile Leu Arg Leu Phe Lys Lys Ala
 35 40 45

Arg Ile Leu Arg Ser Ala
 50

<210> 5444
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5444

Arg Leu Lys Ile Tyr His Lys Tyr Met Arg Met Leu Pro Thr Arg Glu
 1 5 10 15

Arg Leu Ala Leu Arg Ala Arg Phe Ile Gly Lys His Leu Lys Ala Ala
 20 25 30

Tyr Leu Arg
 35

<210> 5445
 <211> 26
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5445

Leu Ile Lys Phe Met Thr Lys Ile Phe Lys Lys Leu Lys Lys Ala Leu
 1 5 10 15

Pro His Lys Glu Asp Gln Arg Leu Leu Ala
 20 25

<210> 5446
 <211> 49
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5446

Lys Tyr Arg Met Phe Arg Arg Tyr Trp Arg Arg Leu Arg Asn Leu Ala
 1 5 10 15

Arg Arg Ala Arg Gln Arg Pro Trp Val Ala Asn Gly Cys Gly Cys Leu
 20 25 30

Arg Val His Ala Ala Lys Lys Ala His Arg Ala Phe Ser Leu Leu Cys
 35 40 45

Arg

<210> 5447
 <211> 31
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5447

Arg Phe Arg Leu Leu Arg Lys Leu Leu Lys Leu Phe Arg Lys Lys Arg
 1 5 10 15

Arg Arg Ala Phe Ile Cys Gly Leu Ala Leu Pro Arg Ser Leu Ser
 20 25 30

<210> 5448
 <211> 37
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5448

Lys	Leu	Lys	Trp	Leu	Arg	Arg	Met	Phe	Lys	Met	Leu	His	Ser	Leu	Ser
1				5					10					15	

Gln	Arg	Thr	Gly	Leu	Thr	Lys	Ala	Lys	Ala	Phe	Ala	Thr	Thr	Lys	Val
			20					25					30		

Arg	Arg	Asp	Ala	Lys
				35

<210> 5449

<211> 60

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5449

Arg	Tyr	Arg	Leu	Leu	Ser	Lys	Ile	Trp	Arg	Met	Leu	Arg	Arg	Pro	Met
1				5					10					15	

Trp	Arg	Gly	Asp	Leu	Phe	Val	Lys	Phe	Asn	Gln	Arg	Lys	Leu	Ala	Lys
			20					25					30		

Leu	Ala	Lys	Arg	Gly	Gln	Glu	Ala	Lys	His	Glu	Arg	Lys	Lys	Lys	Phe
		35					40					45			

Tyr	Leu	Pro	His	Ala	Lys	Leu	Gly	Cys	Leu	Leu	Asn
	50					55					60

<210> 5450

<211> 99

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5450

Phe	Leu	Arg	Tyr	Tyr	Lys	Arg	Phe	Met	Arg	Lys	Met	Lys	Lys	Gly	Leu
1				5					10					15	

Arg	Asn	Ser	Asn	Gln	Ala	Met	Lys	Gln	Leu	Val	His	Leu	Ala	Lys	Ala
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

20

25

30

Tyr Ala Cys Lys Arg Trp Leu Ala Leu Tyr Arg Arg Met Thr Arg Cys
 35 40 45

Asp Lys Lys Lys His Val Arg Arg Leu Lys Leu Phe Tyr Val Ile Lys
 50 55 60

Leu Lys Leu Leu Cys Leu Pro Arg Leu Leu Gln Ala Arg Ala Met Arg
 65 70 75 80

Leu Cys Pro Met Lys Leu Ala Phe Lys Val Lys Pro Ala Ala Pro Lys
 85 90 95

Arg His Arg

<210> 5451

<211> 55

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5451

Met Phe Arg Leu Leu Asn Lys Leu Ile Arg Arg Leu Gln Arg Arg Met
 1 5 10 15

Ala Thr Pro Ile Arg Gly Ala Val Lys Lys Arg Met Leu Leu Arg Cys
 20 25 30

Leu Ile Asp Leu Leu Arg Ile Ala Tyr Arg Arg Ala Ala Arg Leu Ser
 35 40 45

Asp Tyr Asn Leu Lys Leu Ala
 50 55

<210> 5452

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5452

Lys Leu Lys Ile Ile Lys Lys Ile Tyr Arg Arg Leu Asn Pro Glu Ala
 1 5 10 15

Val Leu Glu Cys Lys Lys Phe Arg Ser Ala Ala Ala Ala Pro Ala Val
 20 25 30

Arg Lys Tyr Ala
 35

<210> 5453
 <211> 38
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5453

Met Leu Arg Leu Leu Gln Arg Phe Ile Lys Arg Phe Ser Arg Ala Trp
 1 5 10 15

Arg Lys Arg Ser Glu Ser Ile Leu Thr Lys Leu Leu Tyr Gly Arg Glu
 20 25 30

Ala Lys Leu Met Gln Arg
 35

<210> 5454
 <211> 26
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5454

Arg Met Lys Leu Met Lys Arg Phe Phe Lys Arg Phe Lys Pro Met Asp
 1 5 10 15

Ala Arg Leu Asp Leu Ala Ala Ser Lys Leu
 20 25

<210> 5455
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5455

Phe	Phe	Arg	Ile	Ile	Arg	Arg	Tyr	Met	Arg	Leu	Phe	Asn	Thr	Arg	Lys
1				5					10					15	

Ala	Tyr	Gln	Ala	Met	Arg	Leu	Trp	Arg	Leu	Arg	Leu	Lys	Arg	Met	Pro
			20					25					30		

Leu Leu

<210> 5456

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5456

Leu	Met	Lys	Leu	Phe	Thr	Lys	Leu	Leu	Arg	Phe	Leu	Thr	His	Ala	Gln
1				5					10					15	

Lys	Pro	Arg	Ala	His	Lys
			20		

<210> 5457

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5457

Arg	Ile	Arg	Leu	Leu	Arg	Lys	Trp	Tyr	Lys	Ile	Leu	Gln	Lys	Leu	Gly
1				5					10					15	

Ser	His	Leu	Ala	Ile
			20	

<210> 5458

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5458

Ile	Leu	Lys	Phe	Phe	Arg	Lys	Trp	Ile	Arg	Arg	Leu	Arg	Cys	Glu	Gln
1				5				10						15	

Ala	Leu	Gly	Asp	Pro	Lys	Ile	Thr	Leu	Lys	Leu	Ala	Ala	Asn	Met	Arg
			20					25					30		

Asn	Arg	Ala	Arg
			35

<210> 5459

<211> 80

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5459

Leu	Leu	Lys	Leu	Met	Arg	Arg	Leu	Phe	Arg	Arg	Phe	Arg	Gln	Ala	Val
1				5				10					15		

Val	Lys	Arg	Lys	Asp	Asn	Asn	His	Cys	Leu	Ala	Ala	Arg	Ala	Met	Leu
			20					25					30		

Lys	Arg	Leu	Arg	Arg	Met	Pro	Ser	Cys	Val	Lys	Pro	Asn	Trp	Ala	Gln
		35				40						45			

Pro	Leu	Gly	Arg	Lys	Met	Arg	Lys	Ala	Phe	Ala	Lys	Arg	Leu	Pro	Asn
	50				55						60				

Arg	Leu	Leu	Pro	Thr	Lys	Ile	Lys	Ile	Ser	Leu	Tyr	Leu	Asn	Leu	Trp
65					70					75					80

<210> 5460

<211> 81

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5460

Met	Leu	Lys	Leu	Leu	Lys	Lys	Phe	Leu	Arg	Lys	Phe	Cys	Thr	Ala	His
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

1 5 10 15

Gly Phe Asn Lys Leu Leu Leu Ala Leu Tyr Lys Asn Lys Ala Val Ala
20 25 30

Asp Ala Leu Leu Ile Arg Ile Lys Arg Gln Lys Arg Cys Tyr Arg Pro
35 40 45

Ala Cys Arg Ala His Phe Tyr Val Ile Cys Lys Leu Ala Lys Glu Gly
50 55 60

Cys Ile Glu Asp Ala Ala Arg Ala Glu Asp Leu Arg Leu Leu Gln Lys
65 70 75 80

Lys

<210> 5461
 <211> 76
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5461

Arg Leu Arg Tyr Met Lys Lys Leu Tyr Arg Met Phe Lys Lys Ala Glu
1 5 10 15

Phe Ala Asp Leu Ala Leu Asn Arg Arg Tyr Arg Lys Ala Leu His Gly
20 25 30

Ile Leu Arg Glu Asn Trp Leu Lys Ile Leu Ala Arg Leu Tyr Leu His
35 40 45

Ala Ile Arg Leu Ala Arg Arg Asn Arg Thr Asp Leu Lys Lys Arg Cys
50 55 60

Lys Ala Glu His Pro Leu Ala Gly Leu Pro Leu Thr
65 70 75

<210> 5462
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5462

Leu Ile Arg Ile Leu Arg Arg Leu Phe Arg Tyr Leu Lys Lys Asn Leu
 1 5 10 15

His Val Tyr Lys Ala Arg Asp Leu Val Leu Gly Ile Gly
 20 25

<210> 5463

<211> 77

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5463

Ile Leu Lys Tyr Phe Pro Arg Phe Phe Lys Lys Phe Lys Arg Lys Val
 1 5 10 15

Arg Thr Ala Met Met Ile Cys Ala Arg Lys Ala Gln Pro Asn Phe Thr
 20 25 30

Asp Leu Leu Lys Arg Leu Lys Arg Ala Met Arg Ala Arg Lys Val Thr
 35 40 45

Ala Leu Arg Glu Trp Arg Leu Glu Ala Leu Leu Ala His Arg Asn Pro
 50 55 60

Phe Asn Ala Leu Lys Arg Tyr His Ala Asp Ala Ala Cys
 65 70 75

<210> 5464

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5464

Lys Trp Lys Leu Leu Arg Arg Trp Phe Arg Lys Leu Pro Thr Glu Tyr
 1 5 10 15

Lys Met Leu Val Met Leu Arg Leu Ala Lys Ser Ser

20

25

<210> 5465
 <211> 37
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5465

Arg Leu Lys Trp Ile Lys Arg Met Leu Arg Leu Phe Lys Arg Phe Asp
 1 5 10 15

Cys Ala Arg Ala Ile Ser Pro Lys Lys Leu Trp Ile Gly Arg His Leu
 20 25 30

Cys Arg Tyr Leu Ala
 35

<210> 5466
 <211> 45
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5466

Tyr Leu Arg Leu Leu Gln Lys Trp Ile Arg Arg Leu Gln Lys Arg Ala
 1 5 10 15

Ser Arg Ala Asp Lys Ala Arg Trp Leu Leu Arg Lys Leu Asp Asn Ser
 20 25 30

Met Leu Gly Asp Ala Leu Ala Ala Lys Tyr Gly Tyr Gln
 35 40 45

<210> 5467
 <211> 48
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5467

Arg Trp Lys Ile Ile Asn Lys Ile Phe Lys Trp Phe Gln Lys Ala Asp

1 5 10 15

Tyr Lys Ala Ala Lys Val Leu Ala Arg Ala Arg Lys Leu Asp Ala Cys
20 25 30

Arg Val Ser Ala Lys Trp Ala Arg Ala Arg Met Leu Thr Lys Arg Pro
35 40 45

<210> 5468

<211> 62

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5468

Arg Phe Lys Leu Phe Arg Lys Leu Leu Arg Tyr Tyr Lys Pro Ala Phe
1 5 10 15

Pro Gly Leu Asp Ala Ala Tyr Asn Phe Lys Lys Ala Gln Met Ala Lys
20 25 30

Glu Ala Cys Arg Pro Gln Gly Leu Lys Val Leu Phe Ala Ala Lys Arg
35 40 45

Val Trp Gly Asp Thr Ala Ala Arg Lys Arg Leu Ile Ala Ala
50 55 60

<210> 5469

<211> 49

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5469

Leu Ile Arg Phe Leu Pro Lys Trp Leu Arg Arg Phe Ser Pro Leu Arg
1 5 10 15

Arg Phe Glu Ala Asn Phe Lys Leu Ala Ala Trp Met Lys Arg Lys Asn
20 25 30

Cys Thr Leu Cys Lys Leu Leu Ile Lys His Ala Tyr Leu Ala Arg Lys
35 40 45

Lys

<210> 5470
 <211> 74
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5470

Ile Tyr Lys Tyr Leu Pro Arg Leu Phe Arg Lys Ile Gln Pro Arg Asp
 1 5 10 15

Ala Met Ser Gln Thr Tyr Val Lys Lys Arg Ala Leu Ala Ser Cys Leu
 20 25 30

Ala Arg Leu Cys Phe Ala Arg Leu Arg Leu Ala Gly Arg Thr Leu Ala
 35 40 45

Leu Met Met Glu Lys Lys Leu Leu Leu Arg Leu Asp Lys Arg Arg Ile
 50 55 60

Cys Gln Gln Asn Trp Gln Arg Lys Arg Leu
 65 70

<210> 5471
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5471

Lys Leu Arg Phe Ile Arg Arg Tyr Tyr Lys Trp Trp Arg Arg Ile Glu
 1 5 10 15

Ala Leu Ala Ala Phe
 20

<210> 5472
 <211> 46
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5472

Leu	Leu	Arg	Leu	Met	Ser	Arg	Phe	Leu	Arg	Trp	Tyr	Asn	Lys	Met	Arg
1				5					10					15	

Leu	Ala	Gly	Arg	Asp	Met	Lys	Pro	Lys	Ala	Arg	Asp	His	Lys	Ala	Arg
			20					25					30		

Asp	Arg	Leu	Met	Lys	Cys	Ala	Glu	Leu	Val	Arg	Arg	Val	Leu
		35					40					45	

<210> 5473

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5473

Leu	Leu	Lys	Leu	Trp	Asn	Lys	Leu	Trp	Lys	Phe	Leu	Arg	His	Val	Arg
1				5					10					15	

Thr	Cys	Arg	Glu	Leu	Thr	Ala	Cys	Pro	Lys	Arg	Glu	Arg
			20					25				

<210> 5474

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5474

Arg	Tyr	Arg	Met	Met	Arg	Lys	Met	Leu	Lys	Ile	Leu	Arg	Arg	Met	Asn
1				5					10					15	

Leu	Lys	Leu	Ala	Asn	Ala	Ala	Arg	Lys	Leu	Gly	Gln
			20					25			

<210> 5475

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5475

Lys	Met	Arg	Phe	Leu	His	Lys	Met	Ile	Lys	Arg	Phe	Lys	Gln	Ala	Leu
1				5					10					15	

Leu	Arg	Gln	His	Asn	Thr	Ala	Ala	Gly	Ala	Arg
			20					25		

<210> 5476

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5476

Met	Met	Lys	Met	Leu	Arg	Arg	Leu	Phe	Lys	Arg	Phe	Lys	Lys	Ala	Arg
1				5					10					15	

Ala	Leu	Thr	Ala	Val	Met	Arg	Leu	Arg	Cys	Ser	Leu	Ala	Glu	Tyr	Lys
			20					25					30		

His	Trp	Arg	Ala
			35

<210> 5477

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5477

Arg	Leu	Lys	Phe	Leu	Ser	Lys	Leu	Phe	Lys	Phe	Trp	Lys	Asn	Leu	Leu
1				5					10					15	

Pro	Ala	Leu	Arg	Asp	Ser
					20

<210> 5478

<211> 52

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5478

Arg	Leu	Arg	Met	Leu	Lys	Arg	Leu	Ile	Arg	Met	Leu	Cys	Cys	Trp	Gly
1				5					10					15	

Arg	Lys	Leu	His	Cys	Trp	Phe	Gln	Gln	Ala	Ala	Tyr	Arg	Leu	Leu	Phe
			20					25					30		

Val	Thr	Lys	Lys	Ala	Asn	Leu	His	Lys	Cys	Arg	Ala	Cys	Ser	Arg	Ala
		35					40					45			

Ala	Arg	Leu	Leu
			50

<210> 5479

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5479

Leu	Leu	Lys	Phe	Met	Gln	Arg	Leu	Leu	Arg	Lys	Leu	Lys	Arg	Ile	Leu
1				5					10					15	

Ala	Leu	Asp	Gly	Leu	Asn	Thr	Arg	Gly	Val	Thr	Lys	Leu
			20					25				

<210> 5480

<211> 65

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5480

Arg	Leu	Arg	Leu	Ile	Cys	Arg	Ile	Met	Lys	Trp	Phe	Lys	Gln	Ile	Lys
1				5					10					15	

Ser	Lys	Arg	Leu	Ala	Leu	Val	Arg	Phe	Trp	Ala	Arg	Asn	Asp	Leu	Arg
			20					25					30		

Leu	Leu	Met	Gly	Leu	Asp	Pro	Gly	Met	Leu	Lys	Arg	Lys	Asp	Val	Glu
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

35

40

45

Lys Val Arg Ala Val Ala Ala Leu Ile Val Ala Lys Glu Leu Lys Leu
 50 55 60

Asp
 65

<210> 5481
 <211> 38
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5481

Arg Leu Lys Leu Leu Arg Arg Leu Tyr Arg Leu Leu Arg Lys Lys Asn
 1 5 10 15

Gln Phe Asp Thr Arg His Ala Met Asp Ile Arg His Phe Val Gly Leu
 20 25 30

Val Asn Ala Ala Leu Leu
 35

<210> 5482
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5482

Arg Met Lys Met Leu Asn Lys Phe Leu Arg Lys Tyr Gln Ser Ala Arg
 1 5 10 15

Leu Gly Ala Arg Ser Ala Leu Lys
 20

<210> 5483
 <211> 60
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5483

Lys Trp Arg Ile Leu Ser Lys Met Phe Lys Lys Leu Arg Arg Cys Ala
 1 5 10 15

Ala Met Arg Gly Asn Leu Lys Val Arg Arg Tyr Phe Arg Ala Leu Lys
 20 25 30

Lys Lys Gln Met His Trp Ala Ser His Ala Leu Lys Ala Tyr Gln Trp
 35 40 45

Pro Lys Ala Tyr Lys Phe Arg Ala Leu Ala Lys Ala
 50 55 60

<210> 5484

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5484

Lys Leu Lys Leu Phe His Lys Leu Leu Lys Lys Trp Lys Pro Leu Asp
 1 5 10 15

His Leu Phe Arg Lys Cys
 20

<210> 5485

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5485

Leu Trp Arg Leu Leu Gln Lys Ile Phe Lys Lys Ile Thr Lys Arg Asn
 1 5 10 15

Ala Ile Arg Asn Asp Leu Leu Leu Lys
 20 25

<210> 5486

<211> 42

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5486

Lys Met Arg Met Leu Lys Arg Leu Leu Lys Arg Leu Arg Asn Ala Arg
1 5 10 15

Arg Leu Gly Lys Leu Lys Ala Glu Lys Leu Lys Arg Leu Cys Glu Val
20 25 30

His Glu Thr Gln Pro Ala Asp His Gly Trp
35 40

<210> 5487

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5487

Met Leu Arg Leu Leu Ser Arg Phe Leu Lys Lys Tyr Arg Arg Glu Leu
1 5 10 15

Leu Ala Val Gln Phe
20

<210> 5488

<211> 76

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5488

Ile Leu Arg Leu Phe Arg Arg Phe Leu Lys Arg Leu Lys Lys Gly Lys
1 5 10 15

Arg Glu Ala Leu Arg Asn Gln Lys Ser Met Phe Cys Ala Phe Gln Glu
20 25 30

Lys Thr Lys Thr Lys Arg Phe Lys Lys Leu Lys Leu Tyr Ala Ala Arg
35 40 45

Ile Cys Gly Lys His Asn Ala Ile Leu Ala Arg Ser Asp Ala Arg Met
 50 55 60

Ile Glu Arg Ile Leu Thr Leu Thr Ala Phe Lys Gln
 65 70 75

<210> 5489

<211> 39

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5489

Phe Leu Lys Phe Met Lys Lys Trp Leu Lys Lys Phe Arg Pro Lys Gln
 1 5 10 15

Leu Glu Asp Ile Lys Gly Ala Asp Lys Leu Ala Phe Leu Ala Gly Arg
 20 25 30

Val Tyr Leu Val Leu Ala Lys
 35

<210> 5490

<211> 95

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5490

Arg Phe Lys Leu Ile Cys Lys Leu Met Arg Tyr Leu Ser Arg Ile Met
 1 5 10 15

Pro Lys Leu Ala Ala Trp Leu Cys Trp Gln Leu Tyr Ala Arg Leu Gln
 20 25 30

Lys Arg Lys Ala Cys Ser Arg Lys Leu Lys Gln Arg Asn Gln Lys Arg
 35 40 45

His Met Cys Leu Leu Val Glu Arg Leu Gln Lys Phe Leu Pro Ile Leu
 50 55 60

Gly Leu Ala Arg Leu Ala Trp Lys Lys Leu Thr Ala Met Trp Lys Arg

<220>
<223> Computer-generated peptide variant

Leu Tyr Lys Phe Met Pro Arg Leu Tyr Arg Met Tyr Gln Arg Leu Leu
1 5 10 15

Ala Ala Gln Asn Gln Ala Lys Arg Thr Ala Gln Ala Arg Ala His Leu
20 25 30

Arg Lys Ile Cys Lys Asn Ala Pro Asn Lys Asp Ala Arg
35 40 45

<220>
<223> Computer-generated peptide variant

Leu Met Lys Leu Leu Lys Lys Phe Tyr Lys Arg Phe Arg Arg Asp Arg
1 5 10 15

Phe Ala Gln Asn Arg Leu Lys Arg Met Lys Ala His Leu Ile Phe Phe
20 25 30

Leu Ala Ala Gln Ala Asn Phe Lys Met Ala Asp Arg Lys Ala Ala Tyr
35 40 45

Met Ala Arg Ala Asp Met Arg Lys Thr Pro Ile Val Ala Ala His Asp
50 55 60

Leu His Arg Glu Leu Lys Phe Ala Leu Asn Lys Tyr Lys Met Thr Asn
65 70 75 80

<210> 5493
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5493

Arg Leu Arg Leu Phe His Arg Leu Leu Arg Leu Ile His Lys Gln Leu
 1 5 10 15

Pro Ala Ile Lys Gln
 20

<210> 5494
 <211> 91
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5494

Lys Ile Lys Leu Leu Thr Arg Tyr Phe Lys Lys Ile Ser His Lys Lys
 1 5 10 15

Gln Val Lys Cys Leu Pro Asp Phe Ile Leu Ala Ala Tyr Lys Leu Met
 20 25 30

Ala Asp Glu Cys Arg Ala Arg Pro Lys Arg Val Arg His Lys Ala Leu
 35 40 45

Gly Gly Lys Gly Ile Phe Ala Gln Lys Lys Arg Ala Ile Arg His Ser
 50 55 60

Ala Arg Arg Ala Gln Lys Leu Trp Arg Ala Glu Ala Lys Ala Lys Gln
 65 70 75 80

Glu Ala Gln Leu Lys Pro His Leu Ala Ala Tyr
 85 90

<210> 5495
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5495

Lys	Trp	Lys	Leu	Leu	Gln	Lys	Trp	Tyr	Arg	Lys	Phe	Lys	Arg	Pro	Leu
1			5					10						15	

Leu	Ala	Ala	Cys	Leu	Ala	Ala	Met	Ala	Glu	Ile	Arg	Val	Pro	Ser	His
			20				25						30		

<210> 5496

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5496

Leu	Trp	Arg	Met	Tyr	Lys	Lys	Leu	Ile	Lys	Trp	Trp	Arg	Asn	Lys	Gln
1				5				10						15	

Leu	Leu	Val	Leu	Lys	Asn	Asp	Ala	Asp	Leu	Arg	Val	Arg	Lys	Ala	Leu
			20				25						30		

Ala Leu

<210> 5497

<211> 51

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5497

Phe	Ile	Arg	Leu	Leu	Ser	Lys	Ile	Phe	Arg	Leu	Leu	Lys	Lys	Arg	Asp
1			5					10						15	

Arg	Pro	Lys	Lys	His	His	Leu	Arg	Phe	Ala	Arg	Lys	Cys	Ala	Cys	Ala
			20				25					30			

Tyr	Pro	Arg	Lys	Arg	Ala	Leu	Gly	Met	Leu	Leu	Arg	Ser	Arg	Leu	Cys
			35				40					45			

Leu Thr Lys

50

<210> 5498
 <211> 31
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5498

Phe Leu Lys Leu Leu Arg Lys Phe Ile Arg Ile Trp Asn Arg Arg Met
 1 5 10 15

His Phe Ala Leu Ala Arg Tyr Leu Gly Gly Ala Asn Ala Leu Lys
 20 25 30

<210> 5499
 <211> 56
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5499

Lys Leu Lys Leu Leu Ser Lys Leu Trp Lys Trp Leu Arg Arg His Tyr
 1 5 10 15

Ala Arg His Ala Asp Lys Cys Ala Val Phe Thr Cys Lys Tyr Leu Tyr
 20 25 30

Leu Gln Lys Ala Asn Arg Trp Arg Leu Lys Leu Leu Asp Lys Arg Phe
 35 40 45

Gly Ala Leu Lys Ser Ala Lys Trp
 50 55

<210> 5500
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5500

Trp Ile Lys Tyr Leu Asn Lys Met Leu Lys Arg Leu His Arg Gln Leu

1 5 10 15

Leu Lys Asp Ala Gly Ala Ala Val Gln Pro Lys Val Arg Leu Lys Ala
 20 25 30

Ala Ala Arg Ala Gly Lys Pro Leu
 35 40

<210> 5501
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5501

Tyr Leu Lys Leu Phe Lys Arg Met Leu Lys Lys Leu Arg Ser Ala Lys
 1 5 10 15

Ala Asp Pro Tyr
 20

<210> 5502
 <211> 51
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5502

Arg Phe Lys Leu Leu Arg Lys Leu Tyr Lys Arg Leu Thr Pro Ser Ile
 1 5 10 15

Asp Thr Lys Leu Tyr Arg Lys Arg Ile Asp Lys Lys Lys Asn Ala Leu
 20 25 30

Val Leu Leu Gln Pro Ala Ala Pro Ser His Gln Trp His Arg Gln Lys
 35 40 45

Leu Ala Leu
 50

<210> 5503
 <211> 51
 <212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5503

Met Ile Lys Leu Tyr Arg Lys Phe Phe Lys Arg Leu Lys Lys Ser Leu
1 5 10 15

Phe Leu Asn Ala Phe Arg Ala Arg Arg Lys Ser Leu Leu Gln Ala Leu
20 25 30

Leu Tyr Asn Lys Lys Tyr Ser Arg Arg His Met Ala Tyr Thr Glu Ala
35 40 45

Cys Ala Leu
50

<210> 5504

<211> 53

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5504

Ile Tyr Lys Leu Leu Lys Arg Trp Leu Arg Leu Phe Lys Arg Phe Thr
1 5 10 15

Leu Ser Ala Leu Leu Leu Asn Ala Lys Arg Thr Ala Leu Gly Ala His
20 25 30

Leu Gln Leu Phe Lys Gly Asn Pro Arg Ala His Pro His Val Arg Glu
35 40 45

Asp Gln Arg Ala Lys
50

<210> 5505

<211> 65

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5505

Arg Phe Arg Phe Tyr Cys Arg Trp Trp Arg Arg Phe Lys Lys Lys Gln
 1 5 10 15

Arg Pro Lys Lys Leu Trp Ala Ala Ala Asn Val Tyr Tyr Tyr Gly Leu
 20 25 30

Leu Leu Phe Lys Leu Lys Arg Leu Arg Phe His Leu Ala Leu Ala Cys
 35 40 45

Gly Leu Thr Asp Ser Ala Glu Asp Gln Ala Lys Val Leu Leu Lys Lys
 50 55 60

His
 65

<210> 5506
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5506

Trp Tyr Arg Leu Leu His Lys Leu Phe Arg Leu Phe Arg Ser Arg Arg
 1 5 10 15

Leu Tyr Leu Asn
 20

<210> 5507
 <211> 43
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5507

Leu Leu Lys Leu Ile His Arg Ile Leu Lys Phe Met Pro Lys Glu Ala
 1 5 10 15

Lys Arg Met Ala Lys Leu Leu Ala Phe Gln Met Ala Asp Ala Arg Phe
 20 25 30

Ala Pro Met Gly Asn Val Asp Arg Arg Leu Leu

35

40

<210> 5508

<211> 64

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5508

Phe Leu Lys Ile Leu Lys Arg Leu Leu Lys Ile Leu Cys Lys Leu Ala
 1 5 10 15

Leu Met Gln Ser Arg His Leu His Leu Asp Ile Trp Ala Thr Arg Ala
 20 25 30

Gln Ala Asp Trp Tyr Arg Arg Leu Arg Lys Ser Pro Trp Arg Lys Leu
 35 40 45

Asp Ala Arg Phe Lys Leu Ala Arg Lys His Cys Asn Asn Pro Ser Ala
 50 55 60

<210> 5509

<211> 69

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5509

Leu Leu Arg Trp Met Lys Arg Trp Phe Lys Trp Trp Asn Pro Ala Ala
 1 5 10 15

Ala Arg Met Phe Thr Leu Lys Leu Leu Asp Arg Trp Asn Ala Val Ala
 20 25 30

Phe Tyr Lys Ala Ile Lys Asn Ala Gly Cys Met Leu Arg Lys Arg Arg
 35 40 45

Lys Thr Ala Gln Ile Phe Val Gly Arg Lys Lys Val Lys Phe Pro Lys
 50 55 60

Lys Arg Ala Leu Ala
 65

<210> 5510
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5510

Lys Leu Arg Leu Ile Cys Arg Tyr Phe Arg Met Ile Lys Lys Ala Leu
 1 5 10 15

Val Arg Ala Leu
 20

<210> 5511
 <211> 70
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5511

Lys Phe Lys Leu Phe Lys Arg Phe Leu Arg Phe Leu Lys Arg Arg Lys
 1 5 10 15

Asn Ala Ser Leu Cys Cys Asp Lys Val Leu Ala Phe Arg Ala Ala Tyr
 20 25 30

Pro Ala Ala Lys Gln Arg Gly Pro Gly Gln Glu Arg Cys Trp Lys Gly
 35 40 45

Ala Arg Lys Lys His Ala Cys Ala Lys Trp Leu Ala Thr Ala Trp Glu
 50 55 60

Ala Lys Gln Leu Gly Leu
 65 70

<210> 5512
 <211> 76
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5512

Leu Ile Lys Phe Leu Lys Arg Tyr Ile Arg Arg Phe Lys Gln Arg Ala
 1 5 10 15

Arg Asp Gly Ile Ala Arg Ala Arg Asn Tyr Gln Thr Val Ala Arg Leu
 20 25 30

Leu Leu Val Cys Arg Ala Ala Arg Lys Ala Ile Leu Val Arg Lys Leu
 35 40 45

His Arg Leu Glu Cys Lys Ala Lys Leu Met Ser Lys Glu Leu Gln Leu
 50 55 60

Gln Lys Phe Leu Phe Asn Ala Leu Ser Ala Tyr Asn
 65 70 75

<210> 5513
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5513

Trp Leu Arg Ile Leu Thr Arg Phe Phe Lys Lys Tyr Lys His Leu Lys
 1 5 10 15

Ala Asp Ala Arg Leu Leu Trp Gly Arg Arg His Leu
 20 25

<210> 5514
 <211> 84
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5514

Trp Phe Arg Leu Leu Thr Arg Phe Leu Arg Lys Trp Lys Gln Val Lys
 1 5 10 15

Leu Leu Leu Ser Leu Pro Ala Cys Pro Glu Val Leu Ala Leu Glu Ala
 20 25 30

Cys Ile Tyr Pro Lys Arg Glu Lys Val Met Arg Ala Ala Leu Arg Ala

35

40

45

Ala Leu Leu Val Cys Ala Glu Ala Phe Ala Arg Arg Ala Arg Arg Trp
 50 55 60

Ala Leu Pro Asp Arg Met Arg His Asp Met Arg Lys Gln Gly Lys Lys
 65 70 75 80

Cys Ser Leu Asp

<210> 5515

<211> 68

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5515

Arg Leu Arg Tyr Met Arg Lys Ile Leu Lys Arg Leu Arg Arg Leu Leu
 1 5 10 15

Gln Ala Lys Lys Ala Cys Leu Gly Arg Arg Leu Arg Arg Cys Arg Leu
 20 25 30

Ala Ala Thr Asp Glu Lys Asn Leu Lys Leu Phe Pro Leu His Ser Thr
 35 40 45

Lys Pro Met Leu Pro Arg Leu Met Lys Leu Lys His Lys Ile His Leu
 50 55 60

Asn Asn Ala Val

65

<210> 5516

<211> 38

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5516

Lys Leu Arg Leu Met Lys Lys Ile Phe Lys Lys Leu Gln Lys Cys Cys
 1 5 10 15

Ala Val Leu Leu Asp Ser Lys His Arg Arg Pro His Phe Ala Ala Met
 20 25 30

Glu Cys Val Lys Ala Ala
 35

<210> 5517
 <211> 69
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5517

Lys Leu Arg Phe Tyr Ser Lys Tyr Met Lys Arg Leu Arg Pro Met Arg
 1 5 10 15

Leu Glu Asn Leu Lys Leu Asp Cys Ile Leu Leu Ala Leu Met Trp Ala
 20 25 30

Ile Ser Ala Gln Gln Lys Leu Glu Ala Leu Leu Gly Ser Lys Tyr Phe
 35 40 45

Gln Leu Leu Gly Arg Arg Phe Ile Arg Lys Asn Thr Leu Lys Lys Leu
 50 55 60

Arg Gln Leu Pro Leu
 65

<210> 5518
 <211> 49
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5518

Lys Tyr Arg Phe Phe Lys Arg Phe Leu Arg Leu Leu Ser Ser Leu Arg
 1 5 10 15

Ile Leu Ser Thr Lys Trp Leu Phe Tyr Pro Asp Lys Leu Leu Leu Ile
 20 25 30

Lys Phe Gln Ala Arg Arg Thr Leu Leu Lys Met Ser Arg Arg Val Leu

35

40

45

Val

<210> 5519

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5519

Arg	Tyr	Arg	Leu	Leu	Arg	Lys	Leu	Leu	Lys	Lys	Leu	Lys	Arg	Ile	Leu
1				5					10					15	

Gly	Ala	Leu	Leu	Arg	Gly	Ala	Ala	Leu	Gln	Arg	Arg	Arg	His	Ala	Glu
			20					25					30		

Ala	Ala	Cys	Tyr	Asp	Gly	Arg	Ala
		35				40	

<210> 5520

<211> 56

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5520

Ile	Leu	Arg	Leu	Leu	Arg	Arg	Trp	Tyr	Lys	Leu	Tyr	Asn	Thr	Leu	Met
1				5					10					15	

Ala	Ala	Leu	Arg	His	Asp	Pro	Leu	Tyr	Asp	Ala	Phe	Ala	Pro	Arg	Lys
				20				25					30		

Ala	Ala	Lys	His	Arg	Leu	Cys	Asp	Val	Ser	Gln	Lys	Arg	Gln	Leu	Asp
		35					40					45			

His	Ile	Ala	Ala	Arg	Arg	Leu	Lys
	50					55	

<210> 5521

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5521

Lys Leu Lys Leu Tyr Thr Arg Phe Met Lys Lys Tyr Lys Lys His Leu
1 5 10 15

Ala Lys Arg Leu Leu Ala Asn Ala Leu Leu Thr
20 25

<210> 5522

<211> 62

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5522

Lys Phe Arg Leu Ile Cys Arg Met Leu Lys Arg Leu Asn Arg Thr Arg
1 5 10 15

Leu Leu Arg Glu Thr Val Cys Ser Ala Arg Gln Ala Lys Lys Phe Trp
20 25 30

Ala Arg Ala Ala Asp Asn Ala Leu Glu Arg Tyr Gly Asp Arg Asn Leu
35 40 45

Ala Leu Ala Val Arg Lys Ile Ala Leu Leu Phe Cys Phe Lys
50 55 60

<210> 5523

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5523

Lys Leu Arg Met Trp Lys Arg Leu Met Arg Trp Leu Gln Pro Thr Leu
1 5 10 15

Leu Arg Ala Met Ile Lys Ser
20

<210> 5524
 <211> 41
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5524

Met Leu Lys Tyr Leu Lys Lys Trp Phe Arg Arg Tyr His Asn Phe Arg
 1 5 10 15

Phe Leu His Leu His Lys Leu Leu Arg Leu Pro Asp Leu Lys Lys Leu
 20 25 30

Glu Val Gly Lys Arg Arg Arg Ala Asn
 35 40

<210> 5525
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5525

Arg Phe Lys Phe Leu Lys Arg Ile Leu Arg Arg Leu Arg His Thr Phe
 1 5 10 15

Leu Val Thr Leu Lys Ala Ala Leu Val Ala Met Gly Arg Lys Arg Gln
 20 25 30

Phe

<210> 5526
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5526

Phe Leu Arg Met Phe Ser Lys Phe Leu Arg Trp Tyr Asn Gln Pro Arg
 1 5 10 15

Arg Leu Phe Ala Ala Arg Leu Leu Gln Glu Arg Ala Arg
 20 25

<210> 5527
 <211> 58
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5527

Lys Tyr Lys Ile Tyr Cys Arg Phe Met Lys Lys Leu Arg Thr Leu Arg
 1 5 10 15

Cys Thr Leu Leu Glu Leu Cys Phe Arg Leu Asn Arg Ala Met Cys Ile
 20 25 30

Trp Leu Arg Lys Leu Leu Arg Lys Leu Lys Arg Asn Lys Leu Ala Thr
 35 40 45

Ala Trp Lys Ile Asn Lys Arg Thr Cys Asn
 50 55

<210> 5528
 <211> 65
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5528

Ile Leu Lys Trp Met Thr Lys Phe Leu Arg Phe Leu Arg Arg Arg Val
 1 5 10 15

Pro Leu Arg Lys Gln Arg Leu Gly Leu Pro Arg Ser Met Pro Arg Leu
 20 25 30

Ala Arg Leu Leu Leu Ile Leu Lys Ile Tyr Thr Leu Trp Leu Met Ser
 35 40 45

Arg Leu Leu Gly Gly Trp Arg Lys Arg Arg Trp Leu Lys Arg Pro Arg
 50 55 60

Arg

65

<210> 5529
 <211> 37
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5529

Arg Leu Arg Phe Leu Thr Arg Leu Tyr Arg Trp Leu Thr Arg Val Cys
 1 5 10 15

Leu Lys Lys Asp Leu Lys Ala Ile Lys Leu Gly Leu Thr Ile Ala Gly
 20 25 30

Lys Leu Cys Glu Asn
 35

<210> 5530
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5530

Phe Met Arg Leu Leu Arg Lys Met Ile Arg Lys Phe Pro Lys Ala His
 1 5 10 15

Arg Tyr Ala Cys Lys Val Tyr Ala Asn Ala Ala Leu
 20 25

<210> 5531
 <211> 37
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5531

Leu Phe Lys Phe Phe Lys Arg Leu Phe Lys Tyr Leu Pro Cys Lys Phe
 1 5 10 15

Lys Glu Trp Met Leu Lys Arg Ala Lys Ile Leu Lys Arg Cys Asn His

20

25

30

Val Ala Leu Leu Lys
35

<210> 5532

<211> 56

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5532

Phe Ile Arg Tyr Trp Arg Arg Leu Leu Arg Arg Tyr Arg Lys Trp Lys
1 5 10 15

Gly Ser Ala Gln Pro Arg Arg Ile Arg Lys Trp Leu Gln Asp Gln Leu
20 25 30

Leu Ala Ala Pro Ala Glu Leu Ala Asn Lys Ala Met Leu Phe Trp Asn
35 40 45

His Leu Ser Leu Lys Ala Thr Lys
50 55

<210> 5533

<211> 58

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5533

Lys Leu Arg Phe Ile Lys Lys Ile Ile Arg Leu Phe Arg Arg Cys Met
1 5 10 15

Ala Leu Lys Leu Ala Arg Thr Arg Lys Cys Val Ala Ala Lys Ala Lys
20 25 30

Ala His His Met Leu Lys Cys Ala Arg Leu Trp Gly His Trp Ile Lys
35 40 45

Asn Trp Asp Arg Tyr Asp Arg Arg Leu Leu
50 55

<210> 5534
 <211> 73
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5534

Arg Phe Arg Met Leu Lys Arg Phe Met Arg Arg Leu Arg Lys Leu Ala
 1 5 10 15

Arg Lys Leu Arg His Ala Val Ser His Leu Asn Phe Glu Glu Arg Cys
 20 25 30

Arg Arg Gln Glu Cys Lys Ala Ala Leu Pro Leu Glu Gly Asn Ala Arg
 35 40 45

Gly Ser Lys Pro Leu Ile Arg Ile Leu Ala Lys Ser Arg Met Ala Arg
 50 55 60

Lys His Leu Glu Ala Lys Ala Pro Cys
 65 70

<210> 5535
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5535

Arg Trp Arg Leu Phe Lys Lys Tyr Leu Lys Leu Leu Arg His Arg Cys
 1 5 10 15

Ala His Cys Lys Trp Asp Leu Lys Pro Asn Ala Phe Met
 20 25

<210> 5536
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5536

Lys Leu Lys Ile Leu Thr Lys Met Trp Lys Lys Leu Arg Thr Asp Leu
 1 5 10 15

Lys Met Val Ala Leu
 20

<210> 5537
 <211> 38
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5537

Arg Leu Lys Met Leu Lys Arg Leu Met Lys Phe Tyr Arg Ser Ser His
 1 5 10 15

Ile Trp Val Arg Cys Arg Lys Ala Ala Ala Lys Arg Leu Leu Gly Leu
 20 25 30

Cys Gln Ala Val Cys Lys
 35

<210> 5538
 <211> 45
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5538

Arg Ile Arg Leu Leu Pro Lys Trp Trp Arg Leu Tyr Arg Arg Ser Cys
 1 5 10 15

Leu Met Lys Pro Ala Arg His Ala Leu Phe Lys Glu Ile Leu Ala His
 20 25 30

Gln Gly Lys Gly Ala Lys Arg Ala Pro Arg Ala Leu Val
 35 40 45

<210> 5539
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5539

Trp	Met	Lys	Leu	Ile	Lys	Lys	Leu	Leu	Lys	Phe	Met	Gln	Lys	Arg	Glu
1				5					10					15	

Ala	Leu	Tyr	Ser
			20

<210> 5540

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5540

Arg	Phe	Arg	Leu	Phe	Lys	Lys	Tyr	Phe	Lys	Leu	Ile	Lys	Lys	Leu	Arg
1				5					10					15	

Val	Arg	Arg	Gln	Met	Tyr	Leu	Arg	Leu	Ala	Leu	Leu	Ile	Cys
			20					25					30

<210> 5541

<211> 38

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5541

Arg	Leu	Lys	Leu	Phe	Lys	Lys	Met	Leu	Lys	Trp	Tyr	Asn	Arg	Ala	Arg
1				5					10					15	

Cys	Ala	Arg	Ile	Leu	Ala	Trp	Leu	Trp	Val	Leu	Lys	Asn	Tyr	Ile	Arg
			20					25					30		

Ala	Phe	Asn	Glu	Ile	Arg
					35

<210> 5542

<211> 77

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5542

Tyr	Phe	Lys	Phe	Leu	Arg	Lys	Ile	Met	Arg	Arg	Phe	Lys	His	Lys	Leu
1				5					10					15	

Lys	Gln	Phe	Lys	Arg	Leu	Pro	Arg	Thr	Lys	Phe	Asn	Lys	Lys	Gln	Tyr
			20					25					30		

Tyr	Asp	Arg	Leu	Ile	Leu	Leu	Glu	Phe	Leu	Leu	Thr	Phe	Leu	Lys	Leu
		35					40					45			

Ala	Ala	Asp	Ala	Ala	Thr	Ala	Leu	Ala	Pro	Lys	Leu	Ala	Gly	Lys	Asp
	50					55					60				

Arg	Lys	Phe	Ala	Lys	Gln	Asn	His	Ser	Tyr	Ala	Lys	Lys
65					70					75		

<210> 5543

<211> 64

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5543

Arg	Trp	Arg	Leu	Leu	Arg	Lys	Leu	Leu	Arg	Arg	Leu	Lys	Lys	Leu	Thr
1			5						10					15	

Glu	Met	Lys	Ala	Cys	Asn	Ala	Glu	Arg	Leu	Leu	Gly	Arg	Arg	Arg	Pro
			20					25					30		

Arg	Lys	Met	Met	Leu	Arg	Gln	Lys	His	Lys	Lys	Ala	Leu	Trp	Asn	Gln
		35					40					45			

Leu	Gly	Ala	Gln	Ser	Met	Leu	Leu	Leu	Cys	Glu	Thr	Leu	Ala	Glu	Asp
	50					55					60				

<210> 5544

<211> 63

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5544

Trp Trp Arg Ile Leu Arg Lys Leu Leu Arg Arg Leu Arg His Leu Cys
 1 5 10 15

Arg Lys Ala Lys Leu Arg Gln Met Pro Leu Lys Glu Ser Ala Asp Phe
 20 25 30

Arg Phe Cys Ala Trp Glu Gly Asp His Ala Gln Asp Ala Ala Val Ser
 35 40 45

Lys Arg Lys Lys Gln Met Lys Asn Arg Leu Lys Lys Met Ala Gly
 50 55 60

<210> 5545

<211> 60

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5545

Arg Met Lys Leu Leu Pro Arg Phe Phe Lys Lys Met Cys Pro Arg Leu
 1 5 10 15

Tyr Cys Lys His Ala Tyr Phe His Asn Pro Leu Lys Lys Arg Ala Pro
 20 25 30

Leu Phe Arg Leu Gln Leu Ile Phe Leu Lys Gly Ala Glu Ser Leu Lys
 35 40 45

Leu Arg Arg Arg Ala Arg Met Pro Arg Leu Trp Leu
 50 55 60

<210> 5546

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5546

Lys Met Arg Trp Met Lys Lys Phe Leu Lys Met Leu Lys Arg Phe Leu
 1 5 10 15

Ala Leu Arg Gln Lys Ala Gly Leu Glu Ala Arg Leu Ile Val Gln Ile
 20 25 30

Lys Gly Ile Asn Arg Arg Ile Pro
 35 40

<210> 5547

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5547

Phe Leu Lys Leu Met Thr Arg Tyr Ile Arg Leu Phe Arg Asn Asn Arg
 1 5 10 15

Ala Tyr Lys Ile Ala Ala Ala
 20

<210> 5548

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5548

Ile Leu Lys Met Ile Asn Lys Ile Leu Lys Arg Ile Ser Arg Leu Leu
 1 5 10 15

Ala Tyr Asp Arg His Asn Met Lys Lys His Ala Leu Pro Leu Ala Lys
 20 25 30

Pro Ala Phe Leu Pro Met Ala Arg
 35 40

<210> 5549

<211> 80

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5549

Leu Leu Lys Leu Leu His Lys Leu Trp Arg Tyr Met Asn Arg Leu Glu
 1 5 10 15

Cys Asp His Ala Arg Ala Gly Leu Ala Lys Lys Met Phe Ala Lys Ala
 20 25 30

Ala Ala Arg Leu Ser Leu Arg His Lys Ser Gly Met Lys Ala Asp Phe
 35 40 45

Ala Arg Leu Tyr Arg Leu Lys Lys Gly Asp Ser Lys Ala Lys Lys His
 50 55 60

Leu Lys Lys Cys Val Gly Met Thr Glu Val Leu Arg Lys Asp Gln Leu
 65 70 75 80

<210> 5550
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5550

Phe Phe Lys Trp Leu Lys Arg Leu Tyr Lys Phe Leu Ser His Asn Ile
 1 5 10 15

Arg Ala Leu Cys Arg Leu Ala Glu Leu Lys Lys Ala Lys
 20 25

<210> 5551
 <211> 81
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5551

Phe Trp Arg Phe Ile Arg Arg Phe Tyr Lys Lys Leu Arg Lys Asp Lys
 1 5 10 15

His Lys Arg Ser Ala Leu Leu Ser Asp Asn Lys Met Lys Leu Arg Ala
 20 25 30

Asn Ile Ala Ala Asp Arg Arg Ile Asp Ser Ser Arg Lys Ala Arg Ala

35

40

45

Arg Asp Arg Pro Arg Gly Ile Leu Pro Arg Glu Pro Leu Ala Leu Tyr
 50 55 60

Ala Phe Lys Ala Arg Ser Lys Leu Met Asp Cys Ala Ala Tyr Ala Ile
 65 70 75 80

Met

<210> 5552
 <211> 80
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5552

Arg Phe Lys Tyr Leu Arg Lys Phe Tyr Lys Lys Leu Cys Lys Leu Phe
 1 5 10 15

Gln Thr Asn Leu Ala Leu Pro Asp Met Glu Val Ala Arg Gln Asp Lys
 20 25 30

Val His Ala Pro Ala Lys Phe Ala Ala Asp Leu Leu Trp Ala Lys Gln
 35 40 45

Leu Met Ala Lys Lys Met Trp Lys Arg Gly Leu Leu Gly Lys Lys Tyr
 50 55 60

Met Arg Ala Leu Leu Asp Leu Lys Ile Ala Ala Glu Ala Gly His Ala
 65 70 75 80

<210> 5553
 <211> 50
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5553

Arg Trp Lys Leu Tyr Arg Arg Leu Phe Arg Ile Leu Asn Gln Tyr Ile
 1 5 10 15

Ala His Lys Leu Gly Lys Arg Leu Lys Arg Ile Leu Gln Arg Leu Ala
 20 25 30

Cys Val Lys Ser Leu Tyr Leu Ala Gln Arg Lys Leu Asn Met Leu Thr
 35 40 45

Ser Trp
 50

<210> 5554
 <211> 83
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5554

Lys Leu Arg Met Leu Lys Lys Trp Ile Arg Phe Ile Cys Arg Ile Asp
 1 5 10 15

Leu Lys Trp Ala Gly Thr Arg Arg Lys Gln Glu Cys Ala Ala Asn Arg
 20 25 30

Ala Trp Lys Pro Leu Lys Arg Asn Ser Trp Arg Ala Ala Phe Ile Gly
 35 40 45

Cys His Arg Arg Glu Asn Lys Lys Ala Val Met Lys Trp Arg Arg Ile
 50 55 60

Tyr Ala Lys Phe Ser Ala Ala Leu Asn Leu Leu Leu His Phe Lys Ala
 65 70 75 80

Leu Leu Arg

<210> 5555
 <211> 60
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5555

Arg Ile Lys Phe Leu Lys Lys Leu Phe Arg Met Leu Arg Ser Ala Lys

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1           5           10           15
Ser Gln Gln Lys Lys Ala Arg Met Leu Arg Ala Pro Leu Leu Arg Leu
          20          25          30

Asn Val Met Ser Arg Arg Tyr Asp Val Arg His Ala Asn Leu Ala Arg
          35          40          45

Ala Cys Phe Gly Phe Leu Ala Asp Asn Gly Lys Asp
          50          55          60

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<210>	5556
<211>	65
<212>	PRT
<213>	Artificial Sequence
<220>	
<223>	Computer-generated peptide variant
<400>	5556

Leu	Leu	Lys	Ile	Leu	Arg	Lys	Leu	Tyr	Arg	Lys	Phe	Lys	Lys	Ala	Cys
1				5					10					15	
Tyr	Trp	Trp	Tyr	Ala	Val	Thr	Asn	Asn	Gln	Cys	Ala	Gln	Tyr	Ser	Arg
			20					25					30		
Ala	Leu	Lys	Arg	Gln	Lys	Arg	His	Arg	Cys	His	Leu	Arg	Leu	Ala	Ala
		35					40					45			
Ala	Asp	Asn	Lys	Leu	Cys	Ala	Lys	Ala	Leu	Ala	Ala	Ile	Asp	Ser	Leu
	50					55					60				

Leu
65

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<210> 5557
<211> 29
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 5557
```

Leu Trp Arg Leu Leu Asn Lys Ile Leu Lys Leu Phe Ser Ser Ile Arg
1 5 10 15

Lys His Leu Lys Leu Ala Lys Lys Tyr Tyr Ser Ala Leu
 20 25

<210> 5558
 <211> 100
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5558

Arg Met Arg Phe Phe Arg Arg Leu Tyr Arg Arg Leu Lys Ser His Arg
 1 5 10 15

Val Leu Met Leu Thr Leu Thr Met Arg Asn His Leu Leu Cys Ser Lys
 20 25 30

Leu Ser Gln Arg Lys Tyr Leu Arg Lys Asn Leu Leu Lys Ile Ala Ala
 35 40 45

Val Met Trp Leu Arg Ala Arg Trp Arg Pro Leu Arg Lys Ala Val Asp
 50 55 60

Leu Asn Leu His Leu Arg His Gly Leu Gln Leu Leu Ala Trp Phe Arg
 65 70 75 80

Leu Ser Pro Ala Lys Ala Leu Ala Ala His Asn Lys Ala Glu Pro Pro
 85 90 95

Ala Trp Glu Val
 100

<210> 5559
 <211> 70
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5559

Met Met Arg Leu Phe Arg Arg Leu Phe Lys Lys Leu Arg Lys Leu Gly
 1 5 10 15

Asp Thr Ala Asp Ala Lys Lys Asn Lys Lys Tyr His Ser Ser Trp Arg

20 25 30

Ala Leu Met Lys Glu His Arg Val Thr Lys Lys Glu Thr Ala Ala Lys

35 40 45

Ala Arg Leu Met Asn Arg Leu Leu Ser Leu Asn Gly Leu Ala Gln Leu
50 55 60

Asn Val Ala Pro Lys Phe
65 70

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<210> 5560
<211> 49
<212> PRT
<213> Artificial Sequence
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<220>
<223> Computer-generated peptide variant

<400> 5560

Phe Leu Arg Ile Met Lys Lys Leu Leu Lys Lys Met His Arg Arg Trp
1 5 10 15

Leu Ser Leu Ala Leu Arg Met Gly Pro Met His Met Lys Ala Arg Lys
20 25 30

Leu Tyr Arg Ala Leu Ala Phe Lys Ala Cys Arg Ser Gln His Pro Leu
35 40 45

Ala

<210>	5561
<211>	67
<212>	PRT
<213>	Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 5561

Met Phe Lys Leu Phe Lys Lys Trp Trp Lys Met Phe Lys Ser Lys Glu
1 5 10 15

Asn Lys Gln Arg Ile Leu Ala Leu Lys Asn Leu Ser Arg Leu Pro Phe
20 25 30

His Ile Arg Lys Ala Arg Gln Ala Thr Gln Gln Ser Lys Glu His Leu
 35 40 45

Lys Lys Lys Lys Leu Ala Lys Leu Met Leu Tyr Gln Leu Phe Ala Gln
 50 55 60

Arg Lys Ala
 65

<210> 5562
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5562

Arg Met Lys Met Leu Pro Lys Leu Phe Arg Lys Leu Asn Arg Ala Gly
 1 5 10 15

Arg Gly Gly Gln Ser Ala Leu
 20

<210> 5563
 <211> 61
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5563

Arg Trp Arg Ile Phe Pro Lys Ile Leu Arg Tyr Leu Arg Thr Met His
 1 5 10 15

Ala Leu Gly Ala Lys Phe Gln Lys Arg Ala Gln Thr Lys Lys Gln Leu
 20 25 30

Ala Leu Lys Ala Arg Arg Phe Lys Ala Thr Lys Lys Arg Lys Ala Ala
 35 40 45

Leu Ala Lys Phe Arg Met Asn Thr Lys Gln Cys Ala Arg
 50 55 60

<210> 5564

<211> 61
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5564

Arg Tyr Arg Trp Phe Arg Arg Tyr Leu Lys Lys Phe Arg Lys Tyr Ala
 1 5 10 15

Thr Leu Asn Ala Met Lys Cys Gln Arg Glu Leu Leu Leu Trp Gln Ile
 20 25 30

Lys Lys Leu Gly Leu Thr Arg Ala Arg Lys Ala Met Ala Ser Ala Pro
 35 40 45

Arg His Leu Lys Leu Trp Leu Leu Asp Ile Lys Val Asp
 50 55 60

<210> 5565
 <211> 64
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5565

Arg Phe Lys Leu Leu Lys Lys Leu Leu Arg Phe Tyr Lys Lys Glu Pro
 1 5 10 15

Arg Tyr Met Leu Arg Gly Arg Glu Tyr Arg Pro Ser Ala His Thr Cys
 20 25 30

Ala Thr Arg Ala Leu Lys Cys Trp Gly Ala Thr Leu Arg Cys Thr Asn
 35 40 45

Arg Arg Ala Gln Ala Arg Ala Arg Phe Gln Gly Lys Arg Ala Ala Pro
 50 55 60

<210> 5566
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5566

Arg Leu Arg Phe Leu Arg Lys Phe Trp Arg Leu Trp Thr Arg Ala Met
1 5 10 15

Gly Leu Arg Arg Asp Ala Ser Leu Gln
20 25

<210> 5567

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5567

Leu Phe Arg Tyr Phe Lys Arg Leu Leu Lys Arg Ile Lys Asn Thr Ala
1 5 10 15

Phe Lys Leu Leu Leu Ala Ala Arg Leu
20 25

<210> 5568

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5568

Lys Leu Arg Leu Phe Arg Lys Leu Leu Arg Lys Tyr Pro Pro Ala Lys
1 5 10 15

Tyr Ala Ile Met Ile Arg Cys Ile Thr Gly Gln Leu Lys Arg
20 25 30

<210> 5569

<211> 48

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5569

Arg Trp Arg Ile Tyr Lys Lys Leu Leu Lys Lys Leu His Pro Lys Lys

Ala Ala Thr Pro Asn Ala Pro Arg Leu Leu Arg Lys Pro Arg Ser Met
20 25 30

Val	Arg	Asn	Ala	Ala	Gly	Arg	Leu	Ser	Thr	Ala	Arg	Arg	Lys	Leu	Thr
		35					40					45			

<210>	5570
<211>	29
<212>	PRT
<213>	Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 5570

Leu Phe Lys Leu Ile Arg Lys Phe Phe Arg Leu Ile Arg Cys Leu Ala
1 5 10 15

Leu Lys Asn Asp Asn Leu Leu Tyr Lys Leu Lys Leu Lys
20 25

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<210> 5571
<211> 60
<212> PRT
<213> Artificial Sequence
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<220>
<223> Computer-generated peptide variant

<400> 5571

Arg Met Arg Trp Leu Lys Arg Phe Met Lys Trp Phe Gln Ser Asn Arg
1 5 10 15

Lys Leu Cys His Leu Lys Lys Ala His Val Ile Gly Phe Ile Lys Ala
20 25 30

Leu Ala Met Arg Ala Ala Leu Trp Lys Tyr Asp Leu Met Asp Ala Lys
35 40 45

Leu Gln Arg Asn Arg Val Leu Ala Thr Ala Leu Leu
50 55 60

<210>	5572
<211>	58
<212>	PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5572

Ile Phe Arg Leu Trp Arg Arg Tyr Leu Arg Arg Leu Pro Lys Leu Ile
1 5 10 15

Leu Asn Ile Ala Trp Asp Ala Pro Leu Gly Asn Arg Leu Arg Arg Pro
20 25 30

Met Ala Tyr Ala Leu Leu Asp Arg Phe Arg Val Phe Lys Ala Arg Pro
35 40 45

Arg Ala Pro Leu Gly Pro Arg Gln Arg Met
50 55

<210> 5573

<211> 58

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5573

Arg Leu Lys Phe Leu Asn Arg Met Ile Lys Lys Tyr Lys Lys Ala Met
1 5 10 15

Lys Pro Ile Val His Ala Leu Ala Cys Arg Arg Pro Ile Leu Lys Ile
20 25 30

His Phe Lys Leu Gly Arg Met Ala Arg Lys Arg Leu Trp Lys Ala Glu
35 40 45

Leu Ser Trp Glu Met Lys Cys Leu Leu Lys
50 55

<210> 5574

<211> 46

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5574

Leu Leu Lys Ile Tyr Cys Lys Phe Leu Arg Arg Leu Ser His Arg Asn
 1 5 10 15

Cys Arg Lys Ala Gly Gln Ile Ala Ala Asn Ala Ala Ala Arg Ala Cys
 20 25 30

Cys Cys Arg Val Lys His Arg Lys Arg Arg Gln Lys Ile Asn
 35 40 45

<210> 5575

<211> 63

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5575

Phe Tyr Lys Trp Ile Lys Arg Tyr Tyr Lys Lys Met Lys Lys Lys Cys
 1 5 10 15

Met Glu Ala Asp Lys Cys Ala Leu Ala Leu Met Lys Leu Val Ala Ala
 20 25 30

Asn Leu Lys Ala His Ser Lys Arg Pro Cys Leu Ala Leu Lys Ala Arg
 35 40 45

Lys Lys Ala Lys Val Glu Arg Gln Pro Thr Lys Asp Trp Leu Ala
 50 55 60

<210> 5576

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5576

Phe Tyr Arg Trp Leu Arg Lys Ile Leu Lys Arg Ile Arg Lys Gln Ala
 1 5 10 15

Thr Ser Ala Lys Leu Ala Arg Thr Lys Leu Lys His Pro Tyr Asp Tyr
 20 25 30

Ala Ala

<210> 5577
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5577

Ile Leu Arg Met Leu Gln Arg Leu Phe Lys Lys Trp Arg Lys Ser Trp
 1 5 10 15

Gln Ala Ala Arg Lys Gly Ala Ser
 20

<210> 5578
 <211> 64
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5578

Arg Leu Lys Ile Ile Pro Lys Phe Leu Arg Phe Phe Thr His Leu Cys
 1 5 10 15

Ala Pro Arg Lys Arg Val Tyr Arg Lys Leu Lys Ile Trp Lys Trp Leu
 20 25 30

Trp Ala Ala Ala Ser Cys Asp Ile Ala Ala Leu Lys Arg Ala Leu Arg
 35 40 45

Lys Lys Arg Ala Leu Leu Thr His Ala Gln Leu Ile Lys Ala Lys Arg
 50 55 60

<210> 5579
 <211> 73
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5579

Tyr Trp Arg Tyr Phe Arg Arg Tyr Ile Lys Lys Trp Gln Lys Ser Leu

[illegible]

<210>	5580
<211>	72
<212>	PRT
<213>	Artificial Sequence
<220>	
<223>	Computer-generated peptide variant
<400>	5580

[illegible]

<210>	5581
<211>	52
<212>	PRT
<213>	Artificial Sequence
<220>	
<223>	Computer-generated peptide variant
<400>	5581

Leu Ile Arg Phe Phe Thr Arg Leu Leu Arg Leu Tyr Arg Lys Leu Ser
 1 5 10 15

Lys Gln Ala Pro Asp Leu Arg Tyr Lys Ile Lys Gln Pro Ala Gln Glu
 20 25 30

Arg Leu Arg Lys Asp Lys Leu Arg Lys Tyr Ser Asp His Val Leu Arg
 35 40 45

Lys Ala Asp Met
 50

<210> 5582
 <211> 80
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5582

Trp Leu Lys Phe Leu Arg Arg Ile Leu Lys Arg Phe Lys Thr Leu Phe
 1 5 10 15

Asn Asn Glu Asp Leu Leu Arg Ala Arg Trp Pro Gly Glu Lys Ser Cys
 20 25 30

Cys Phe Leu Arg Lys Asp Gln Arg Gln Gly Ala Arg Ile Gln Leu Arg
 35 40 45

Lys Arg Leu Trp Ser Ile Arg His Ala Ala Lys Ala Ile Gly Arg Arg
 50 55 60

Ala Ala Met Ala Ala Ile Tyr Ile Arg Ala Asp Lys Met Arg Ala Ala
 65 70 75 80

<210> 5583
 <211> 41
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5583

Arg Tyr Arg Leu Leu Arg Lys Leu Leu Lys Leu Leu Pro Lys Thr Tyr

Lys Glu Leu Ala Leu Leu Leu Pro Gln Ala Arg Gly Leu Lys Lys Lys

20 25 30

Leu Met Cys Lys Leu Ala Pro Asp Ile
35 40

<210>	5584
<211>	32
<212>	PRT
<213>	Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 5584

Arg Leu Arg Leu Phe Gln Arg Trp Met Arg Lys Leu Lys Cys Asp Phe
1 5 10 15

Tyr Ala Lys Leu Trp Ala Tyr Pro Tyr Leu Lys Ala Asp Ala Asp Lys
20 25 30

<210>	5585
<211>	50
<212>	PRT
<213>	Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 5585

Ile Phe Arg Tyr Leu Arg Arg Met Phe Arg Phe Leu Lys Arg Ser Lys
1 5 10 15

Gln Ala Met Arg Trp Leu Ala Gly Asp Leu Cys Leu Phe Met Lys Ala
20 25 30

Cys Asp Tyr Leu Leu Arg Leu Met Asp Lys Lys Met Leu Ala Ala Lys
35 40 45

Ala Arg
50

<210>	5586
<211>	31
<212>	PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5586

Arg	Phe	Lys	Tyr	Trp	Lys	Lys	Leu	Phe	Lys	Leu	Leu	Thr	Arg	Met	Ile
1				5					10					15	

Gly	Lys	Leu	Leu	Glu	Leu	Arg	Leu	Asn	Pro	Gln	Ala	Lys	Leu	Lys
		20						25					30	

<210> 5587

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5587

Lys	Met	Lys	Tyr	Phe	Lys	Lys	Leu	Trp	Arg	Ile	Tyr	Lys	Asn	Asp	Arg
1				5					10					15	

Leu	Glu	Thr	Leu	Ala	Lys	Arg	Cys	Ala	Leu	Glu	Asp	Gln	Arg	Cys	Arg
			20					25					30		

Leu	Arg	Arg	Ala	His	Ala	Phe	Ala
		35					40

<210> 5588

<211> 49

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5588

Lys	Leu	Lys	Leu	Met	Lys	Arg	Leu	Phe	Lys	Lys	Leu	His	His	Leu	Leu
1				5					10					15	

Lys	Ala	Lys	Leu	Cys	Arg	Pro	Arg	Met	Glu	Ser	Lys	Arg	Phe	Ile	Pro
			20					25					30		

Ala	Lys	Ala	Lys	Ser	Ala	Cys	Leu	Asn	Gln	Lys	Glu	Leu	Ile	Lys	Met
		35					40					45			

Trp

<210> 5589
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5589

Lys Leu Arg Leu Trp Arg Arg Ile Phe Lys Lys Leu Arg Lys Leu Asp
 1 5 10 15

Cys Ser Cys Glu Gly Ala Phe Leu Lys Leu Gln Ile Val Ala Phe Leu
 20 25 30

<210> 5590
 <211> 51
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5590

Arg Tyr Arg Met Leu Arg Lys Phe Phe Arg Leu Tyr Arg Lys Arg Leu
 1 5 10 15

Ala Gln Gly Ala Arg Ile Met Leu Val Asn Leu Tyr Glu Lys Arg Leu
 20 25 30

Leu Ser Asn Gly Tyr Gln Asp Ile Leu Lys Pro Ala Arg Ala Ala Arg
 35 40 45

Thr Leu Ala
 50

<210> 5591
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5591

Phe Leu Arg Leu Met Arg Arg Phe Tyr Arg Leu Leu Thr Pro Leu Tyr
 1 5 10 15

Leu Thr Ser His Val Leu Arg Lys Ala
 20 25

<210> 5592

<211> 52

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5592

Met Met Arg Phe Leu Cys Arg Met Phe Lys Leu Leu Lys Lys Ala Leu
 1 5 10 15

Arg Asp Leu His Thr Pro Leu Arg Tyr Lys Met Pro Ala Arg Leu Cys
 20 25 30

His Lys His Leu Lys Arg Lys Lys Gly Ala Lys His His Thr Ala Arg
 35 40 45

Met Arg Lys Ala
 50

<210> 5593

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5593

Leu Phe Lys Phe Phe Arg Arg Phe Leu Arg Arg Phe His Gln Arg Asn
 1 5 10 15

Leu Tyr Lys Leu Lys Leu Ala Leu His Phe Asp Leu Ala Met
 20 25 30

<210> 5594

<211> 63

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5594

Arg	Trp	Lys	Leu	Leu	Lys	Lys	Met	Phe	Arg	Arg	Leu	Arg	Ser	Arg	Glu
1				5					10					15	

Lys	Ala	Trp	Thr	Lys	Ala	Val	Ser	Leu	Arg	Lys	Leu	Asp	Ala	Ala	Lys
			20					25					30		

Arg	Ala	Lys	Lys	Lys	Thr	Ile	Thr	Cys	Lys	Cys	Leu	Val	Gly	Cys	Phe
		35					40					45			

Ser	Lys	Asn	Leu	Arg	Trp	Ala	Ala	Ala	Val	Leu	Ile	Lys	Ser	His
	50					55					60			

<210> 5595

<211> 56

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5595

Phe	Ile	Lys	Trp	Phe	Arg	Lys	Phe	Tyr	Arg	Arg	Leu	Lys	Arg	Ile	Arg
1				5					10					15	

Ala	Ile	Leu	Ala	Gln	Ala	His	Ser	Ala	Met	Leu	Val	Ala	Leu	Arg	Ala
		20						25					30		

Leu	Ala	Cys	Val	Lys	Lys	Cys	Lys	Arg	Cys	Tyr	Ala	Gln	Val	Ser	Arg
		35					40					45			

Leu	Lys	Val	Leu	Gly	Ala	Val	Leu
	50					55	

<210> 5596

<211> 70

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5596

Lys	Phe	Arg	Met	Phe	Arg	Lys	Tyr	Leu	Lys	Trp	Phe	Lys	Arg	Pro	Cys
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

1					5					10					15				
Trp	Glu	Leu	Asp	Leu	Leu	Pro	Lys	Leu	Arg	Arg	Ile	Lys	Ser	Asp	Cys				
			20						25										
Tyr	Lys	Arg	Lys	Lys	Lys	Phe	Leu	Ala	Thr	Val	Ala	Gln	Lys	Lys	Glu				
			35						40										
Ala	Asp	Phe	Leu	Arg	Met	Arg	Met	Arg	Asp	Leu	Arg	Ala	Ala	Leu	Val				
			50						55										
Ala	Arg	Glu	Gly	Ala	Leu														
65					70														

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<210> 5597
<211> 33
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 5597
```

Arg Ile Arg Leu Leu Arg Lys Leu Leu Arg Leu Phe Lys Arg Glu Ala
1 5 10 15

Tyr Ile Lys Trp Glu Leu Leu His Cys Gly Leu Arg Cys Val Ala Gly
20 25 30

Thr

<210>	5598
<211>	37
<212>	PRT
<213>	Artificial Sequence
<220>	
<223>	Computer-generated peptide variant
<400>	5598

Arg Leu Arg Leu Leu Gln Lys Ile Ile Lys Phe Leu Arg Lys Trp Phe
1 5 10 15

Lys Ile Arg Ile Ser Arg Leu Thr Leu Met Trp Pro Ala Thr Arg Val
20 25 30

Leu Phe Arg Ala Ala
35

<210> 5599
<211> 53
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 5599

Arg Trp Lys Leu Leu Lys Lys Leu Leu Lys Lys Leu Lys Lys Glu Cys
1 5 10 15

Lys Ala Cys Leu Pro Leu Gln Met Val Lys Arg Ser Cys Ala Ile Leu
20 25 30

Ala Leu Ile Cys Arg Ala Cys Lys Leu Asp Phe Cys Leu Ser Asn Leu
35 40 45

Lys Trp Arg Thr Tyr
50

<210> 5600
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 5600

Arg Ile Lys Tyr Phe Arg Lys Tyr Leu Arg Phe Leu Arg Lys Ala Gly
1 5 10 15

Asn Ser Ala Leu His
20

<210> 5601
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 5601

Leu Phe Lys Trp Tyr Ser Arg Phe Met Lys Leu Leu Arg Arg Leu Arg
 1 5 10 15

Pro Leu Ile Lys
 20

<210> 5602
 <211> 65
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5602

Lys Met Arg Leu Leu Arg Lys Leu Trp Arg Tyr Phe Ser Ser Leu Arg
 1 5 10 15

Arg Lys Arg Arg Met Val Phe Ala Lys Lys Tyr Asn Arg Asp Ala Gln
 20 25 30

Val Ala His Met Asp Leu Leu Leu Arg Leu Ala Lys Tyr Asp Leu Tyr
 35 40 45

Lys Ile Gly Asp Gly Leu Arg Cys Ala Arg Arg Leu Asn Leu Lys Lys
 50 55 60

Arg
 65

<210> 5603
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5603

Trp Leu Arg Phe Leu Ser Arg Met Leu Lys Lys Leu Lys Pro Ala Cys
 1 5 10 15

Arg Trp Pro Arg
 20

<210> 5604

<211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5604

Tyr Ile Lys Leu Tyr Thr Arg Leu Leu Lys Arg Tyr Lys Arg Leu Arg
 1 5 10 15

Asn Ala Arg Pro Leu Arg Thr Glu Leu Glu Thr Val Arg Ala Leu Trp
 20 25 30

Leu His Leu Ala Tyr Leu Lys Arg
 35 40

<210> 5605
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5605

Lys Tyr Lys Leu Phe Arg Arg Leu Leu Lys Arg Leu Arg His Ser Lys
 1 5 10 15

Ala Tyr Ile Ser Pro Ala Ile Thr Lys Lys Leu Ser Gln Leu Trp Ala
 20 25 30

Met Arg Lys
 35

<210> 5606
 <211> 27
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5606

Arg Ile Lys Ile Leu Lys Arg Leu Leu Arg Arg Ile Lys Thr Gln Val
 1 5 10 15

Ala Gln Ala Tyr Ala Lys Leu Lys Met Cys Leu

20

25

<210> 5607
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5607

Lys Leu Lys Met Met Lys Arg Phe Phe Arg Leu Phe Ser Ser Ala Cys
 1 5 10 15

Lys Lys Gly Ile Leu Ala Leu Pro Lys Ala Trp Ser Ala Leu Leu Phe
 20 25 30

Lys Asp Lys Arg Arg Thr Lys Glu
 35 40

<210> 5608
 <211> 89
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5608

Lys Phe Lys Leu Phe Lys Arg Leu Leu Arg Lys Tyr Pro Lys Leu Ala
 1 5 10 15

Ala His Lys Ala Arg Arg Ala Glu Leu Pro Lys Arg Glu Leu Lys Lys
 20 25 30

Glu Ala Arg Ala Asp Arg Glu Val Leu Leu Ser Pro Leu Trp Arg Arg
 35 40 45

Phe Ala Phe Gly Lys Gln Ala Ala Leu Gly Met Lys Tyr Lys Lys Arg
 50 55 60

Asn Lys Phe Lys Leu Arg Leu Gly Pro Gln Leu Cys Arg Phe Thr Arg
 65 70 75 80

Leu Met Val Thr Thr Pro Ser Tyr Asp
 85

<210> 5609
 <211> 54
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5609

Arg Trp Arg Phe Ile Arg Arg Ile Leu Lys Arg Leu His His Pro Ala
 1 5 10 15

Ala Leu Met Thr Ala Ala Lys Leu Ala Thr Ser Val Pro Glu Lys Ala
 20 25 30

Lys Leu Gly Arg Lys Leu Thr Tyr Leu Met His Thr Ala Lys Lys Leu
 35 40 45

Leu Cys Glu Lys Gln Ile
 50

<210> 5610
 <211> 46
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5610

Lys Leu Arg Met Trp Lys Lys Phe Ile Lys Arg Phe Lys Arg His Ala
 1 5 10 15

Val Lys Ala Ala Leu Arg Gly Gly Arg Leu Thr Leu Ala His Ser Asp
 20 25 30

Lys Asn Leu Phe Arg Pro Ala Lys Met Ala Lys Tyr Leu Ala
 35 40 45

<210> 5611
 <211> 56
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5611

Leu Leu Arg Leu Leu Arg Lys Ile Phe Lys Tyr Leu Lys Ser Phe Arg
 1 5 10 15

Lys Leu Ala Lys Ala Glu Lys Ile Gln Leu Arg Leu Arg Cys Ala Lys
 20 25 30

Leu Ser Leu Arg Ala Ser Ile Met Thr Ser Tyr Ala Leu Lys Asp Ala
 35 40 45

Gln Trp Leu Leu Cys Arg Arg Arg
 50 55

<210> 5612
 <211> 38
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5612

Arg Phe Lys Trp Leu Lys Lys Phe Phe Lys Leu Leu Lys Cys Arg Glu
 1 5 10 15

Glu Ala Leu Met Glu Leu Asn Ala Thr Ala His Leu Lys Lys Arg Gln
 20 25 30

Val Gly Arg His Phe Lys
 35

<210> 5613
 <211> 70
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5613

Leu Ile Arg Trp Trp His Lys Phe Ile Lys Lys Phe Asn Lys Pro Ile
 1 5 10 15

Thr Val Gly Arg Trp Ala Ala Gly Val Asn Ala Lys Leu Lys Lys Gln
 20 25 30

Ala Asn Arg Ala Ala Ala Ala Ser Pro Lys Trp Pro His Lys Arg Arg

35

40

45

Leu Arg Leu Arg Ala Cys Arg Val Ala Arg Leu Arg Val Arg Glu Lys
 50 55 60

Ala Glu Gly Arg Val Lys
 65 70

<210> 5614
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5614

Tyr Leu Arg Tyr Ile Asn Arg Leu Leu Arg Arg Leu Lys Arg Ala Lys
 1 5 10 15

Leu Tyr Asp Ile Ala Asp Gln Arg Lys Leu Ser Ala Arg
 20 25

<210> 5615
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5615

Leu Phe Lys Phe Leu Thr Arg Leu Trp Arg Lys Phe Gln Ser Leu Thr
 1 5 10 15

Gln Ala Phe Trp Val Arg Gly Lys Leu Arg Arg Ala Arg Arg Leu Trp
 20 25 30

Arg Leu

<210> 5616
 <211> 27
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5616

Lys Leu Arg Trp Leu Arg Arg Trp Leu Arg Lys Ile Arg Thr Arg Gln
1 5 10 15

Ala Lys Ile Ala Phe Leu Ser Phe Leu Leu Gln
20 25

<210> 5617

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5617

Arg Leu Arg Tyr Tyr Pro Lys Tyr Leu Arg Lys Leu Lys His Leu Lys
1 5 10 15

Met Ala Thr Lys Met Gly Val Leu Glu Ala Ser Arg
20 25

<210> 5618

<211> 52

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5618

Arg Trp Lys Leu Ile Lys Arg Met Leu Lys Ile Leu Pro Thr Leu His
1 5 10 15

Ala Lys Pro Ser Ala Ala Arg Arg Ala Leu Leu Gly Met Leu Lys Ile
20 25 30

Thr Leu Arg Lys Phe Lys Arg Lys Leu Arg Pro Arg Leu Gly Ala Arg
35 40 45

Ile Arg Leu Leu
50

<210> 5619

<211> 92

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5619

Ile Phe Lys Leu Phe Lys Lys Leu Met Lys Met Leu Lys Arg Asn Val
1 5 10 15

Leu Ala Leu Ile Leu Arg Arg Tyr Gly Cys Leu Gly Arg Ala Lys Lys
20 25 30

Lys Lys Leu Arg Leu Trp Asn Gly Thr Tyr Trp Asp Arg Arg Gly Ala
35 40 45

Arg Gly Ser His Ile Cys Lys Ile Met His Ala Lys Leu Lys Gly Cys
50 55 60

Leu Arg Glu Arg His Met Lys Lys Gly Ala Leu Thr Lys Val Leu Leu
65 70 75 80

Leu Lys Lys Ala Val Trp Ala Leu Tyr Lys Ser Cys
85 90

<210> 5620

<211> 38

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5620

Arg Ile Arg Phe Tyr Arg Lys Phe Leu Lys Arg Trp Lys Pro Ser Phe
1 5 10 15

His Arg Leu Ala Asn Ala Gln Ala Lys Thr Gln Lys His Gly Glu Leu
20 25 30

Ala Lys Thr Leu Ala Leu
35

<210> 5621

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5621

Leu Leu Arg Ile Leu Lys Arg Leu Ile Arg Arg Met Asn Lys Leu Phe
 1 5 10 15

Gly Pro Leu Asp Lys Glu Gly Ala Gln Ala Leu Met
 20 25

<210> 5622

<211> 49

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5622

Leu Phe Lys Leu Ile Arg Lys Phe Leu Arg Lys Phe Thr Arg Glu Leu
 1 5 10 15

Gly Leu Lys Pro Ala Lys Leu Lys His Arg Arg Ala Ala Leu Tyr Cys
 20 25 30

Gly His Tyr Leu Ala Pro His Arg Lys Asn Lys Trp Gly Val Trp Trp
 35 40 45

Leu

<210> 5623

<211> 75

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5623

Phe Ile Lys Trp Trp Arg Arg Leu Trp Lys Leu Met Arg Arg Asn Lys
 1 5 10 15

Asn His Arg Glu Trp Ala Glu Pro Ala Ala Arg Asn Ala Ala Leu Val
 20 25 30

Lys Arg Arg Ile Lys Lys Val Ala Gly Met Leu Leu Leu Lys Phe Lys

35

40

45

His Val Leu Arg Ser Ala Cys Cys Phe Asp Leu Arg Glu Ala Ala Lys
 50 55 60

Ser Asn Arg Lys Val Gln Ala Arg Leu Trp Leu
 65 70 75

<210> 5624

<211> 90

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5624

Lys Leu Lys Leu Leu Lys Arg Leu Tyr Arg Lys Trp Pro Arg Leu Arg
 1 5 10 15

Arg Tyr Lys Pro Lys Arg Phe Met Met Lys Met Ala Leu Asp Trp Phe
 20 25 30

Val Asn His Leu Leu Ser Phe Val Lys Ala Arg Met Phe Ala Phe Arg
 35 40 45

Leu Lys Asn Arg Pro Ala Arg Arg His Leu Asn Glu Pro Tyr Arg Ser
 50 55 60

Lys Ala Val Gly Arg Met Lys Cys Trp Trp Ala Lys Pro Cys Leu Leu
 65 70 75 80

Ala Lys Leu Trp His Leu Trp Ala Leu Arg
 85 90

<210> 5625

<211> 81

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5625

Lys Trp Lys Trp Tyr Arg Lys Phe Leu Lys Lys Phe Lys Ser Ile Arg
 1 5 10 15

Glu Leu Arg Lys Leu Lys Arg Leu Arg Gly Cys Gln Arg Ala Arg His
 20 25 30

Leu Pro Pro His Cys Ala Lys Gln Gln Lys Glu Lys Ala Leu Leu Ser
 35 40 45

Leu His Lys Ser Val Arg Arg Leu Tyr Leu Tyr Ala Trp Ile Ala Arg
 50 55 60

Cys Ala Lys Cys Arg Lys Leu Ser Trp Arg Ile Met Asp Leu Ala Ala
 65 70 75 80

Arg

<210> 5626
 <211> 74
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5626

Arg Tyr Arg Trp Leu Arg Arg Phe Leu Lys Leu Leu Arg Arg Arg Ser
 1 5 10 15

Gln Ala Cys Val Thr Arg Leu Leu Tyr Lys Lys Arg His Gln Leu Leu
 20 25 30

Ala Arg Thr His Leu Val Asp Lys Leu Ser Thr Tyr Lys Pro Asp Lys
 35 40 45

Lys Lys Leu Arg Ala Ala Ser Ile Asn Val Phe Gln Ala Ala Leu Asn
 50 55 60

Ile Lys Asp Trp Cys Leu Thr Arg Glu Arg
 65 70

<210> 5627
 <211> 72
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5627

Trp	Ile	Lys	Met	Leu	Arg	Lys	Leu	Ile	Lys	Arg	Leu	Gln	Cys	Tyr	Ala
1				5					10					15	

Ala	His	Leu	Leu	Leu	Arg	Arg	Arg	Arg	Ala	Ser	Leu	Leu	Lys	Ala	Arg
		20					25						30		

Ala	Ala	Lys	Lys	Arg	Arg	Val	Glu	Ile	Arg	Trp	Arg	Arg	His	Tyr	Leu
		35					40					45			

Leu	Leu	Trp	Asn	Asp	Thr	Cys	Leu	Trp	Ala	Met	Val	Arg	Arg	Cys	Lys
	50					55					60				

Asn	Tyr	His	Trp	Lys	Gly	Arg	Asp
65					70		

<210> 5628

<211> 46

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5628

Lys	Leu	Arg	Ile	Leu	Cys	Arg	Leu	Tyr	Arg	Arg	Trp	Arg	His	Lys	Lys
1				5					10					15	

Glu	Gln	Lys	Met	Leu	Leu	Lys	Lys	Asp	Phe	Met	Ala	Phe	Met	Ile	Ala
		20						25					30		

Leu	Leu	Gln	Lys	Ala	Ala	Pro	Val	Tyr	Phe	Leu	Val	Arg	Arg
		35					40					45	

<210> 5629

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5629

Phe	Leu	Arg	Met	Leu	Thr	Lys	Leu	Phe	Arg	Lys	Met	Arg	Arg	Leu	Phe
1				5					10					15	

Gln Thr Lys Ala
20

<210> 5630
<211> 79
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 5630

Lys Trp Lys Ile Trp Gln Arg Ile Phe Arg Met Ile Asn Cys Pro Cys
1 5 10 15

Leu Arg Arg Lys Leu Lys Gly Pro Ala Leu Gly Ala Arg Lys Leu Glu
20 25 30

Lys Arg Met Thr Lys Thr Ala Lys Lys Ile Glu Leu Asn Ala Arg Arg
35 40 45

Arg Ile Ala Gln Arg Glu Arg Phe Leu Ala Ala Lys Phe Ala Ala Arg
50 55 60

Thr Ala Leu Phe Lys Lys His Lys Asn Gln Ala Thr Ala Thr Val
65 70 75

<210> 5631
<211> 82
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 5631

Phe Phe Lys Phe Trp His Lys Met Tyr Arg Met Phe Arg Gln Ala Glu
1 5 10 15

Lys Pro Ala Gly Asn His His Glu Ala Arg Ala Thr Cys Arg Ile Lys
20 25 30

Asn Asn Lys Glu Lys Leu Leu Lys Lys Lys Tyr Lys Gln Arg Trp Ala
35 40 45

Lys Asp Leu Gln Tyr Ala Leu Ser Lys Leu Arg Lys Glu Ala Ala Ala

50

55

60

Ala Ala Ile Leu Ala Ser Lys Arg Gly Ala Arg Arg Lys Arg Cys Lys
 65 70 75 80

Phe Lys

<210> 5632
 <211> 26
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5632

Leu Leu Arg Leu Leu Arg Lys Phe Phe Arg Lys Phe Arg His Glu Arg
 1 5 10 15

Asn Met Cys Ile Tyr Leu Leu Arg Ala Ala
 20 25

<210> 5633
 <211> 84
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5633

Arg Met Lys Ile Trp Thr Lys Phe Ile Arg Leu Phe Arg Lys Arg Asn
 1 5 10 15

Lys His Gly Leu Ala Lys Arg Gln Ile Val Leu Lys Arg Lys Arg Ile
 20 25 30

Lys Ala Gln Val Ala Ala Leu Gln Val Asp Leu Leu Asp Pro Asn Leu
 35 40 45

Ala Trp Ala Lys Ser Tyr Lys Arg Asp Lys Glu Leu Cys Asp Ala His
 50 55 60

Leu Thr Lys Ala Asn His Arg Leu Ala Ser Gln Lys Leu Arg Lys Ala
 65 70 75 80

Cys Leu Ala Gln

<210> 5634
 <211> 49
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5634

Trp	Met	Lys	Phe	Trp	Lys	Arg	Tyr	Phe	Lys	Arg	Leu	Thr	Arg	Gln	Phe
1				5					10					15	

Leu	Arg	Gly	Gln	Trp	Met	Lys	Lys	Gln	Ala	Lys	Ala	Leu	Leu	Leu	Gln
			20					25					30		

Val	Ala	Arg	Leu	Ser	Asn	Thr	Lys	Pro	Ser	Phe	Leu	Ala	Arg	Leu	Lys
		35					40					45			

Leu

<210> 5635
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5635

Arg	Trp	Lys	Trp	Trp	His	Lys	Leu	Phe	Arg	Arg	Phe	Arg	Arg	Met	Ala
1				5					10					15	

Leu	Lys	Tyr	Ala	Arg	Glu	Gln	Ala	Asn	Leu	Arg	Ser	Trp	Leu	Lys	Ala
			20					25					30		

<210> 5636
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5636

Arg Ile Lys Leu Trp His Arg Leu Trp Arg Leu Trp Pro Arg Ala Gln
 1 5 10 15

Ala Asn Ala Ala Arg Cys Pro Leu Lys Arg Asp Leu
 20 25

<210> 5637
 <211> 58
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5637

Arg Trp Arg Tyr Phe Lys Arg Phe Leu Lys Lys Phe Arg Lys Thr Arg
 1 5 10 15

Glu Asn Gln Leu Arg His Cys Tyr Cys Ala Ala Ala Ala Phe Leu Ala
 20 25 30

Arg Ala Lys Trp Ala Ala Leu Ala Asp Ile Arg Leu Ala Gln Lys Leu
 35 40 45

Arg Tyr Arg Tyr Asn Tyr Asp Ala Tyr Asn
 50 55

<210> 5638
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5638

Tyr Phe Lys Leu Phe Arg Arg Phe Leu Arg Leu Met Lys Lys Leu Asn
 1 5 10 15

Glu Arg Lys Leu Pro Arg Phe Ala Leu Val Leu Arg Trp Lys Asp Leu
 20 25 30

Leu Leu Tyr Ala
 35

<210> 5639

<211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5639

Leu Leu Arg Ile Tyr Ser Lys Phe Trp Lys Lys Trp Gln Lys Leu Asn
 1 5 10 15

Lys Ala Lys Leu Ser
 20

<210> 5640
 <211> 47
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5640

Leu Leu Arg Leu Tyr Lys Lys Leu Trp Arg Lys Ile Lys Lys Asn Arg
 1 5 10 15

Lys Lys Gln Cys Cys Glu Thr Trp Leu Ile Asp Arg Ala Met Val Gly
 20 25 30

Ala Arg Leu Pro Tyr Leu Ala Arg Leu Asn Ala Cys Lys Leu Gly
 35 40 45

<210> 5641
 <211> 55
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5641

Phe Leu Lys Ile Ile Lys Arg Phe Leu Arg Leu Leu Arg Lys Ala Thr
 1 5 10 15

Lys Arg Pro Ser Ser Tyr Ser Ala Lys Arg Trp Lys Glu Asp Leu Phe
 20 25 30

Lys Leu Asp Ile His Arg Lys Lys Leu Leu Pro Ile Cys Ser Ala Glu

35

40

45

Thr Lys Ala Ala Asp Ala Ala
 50 55

<210> 5642

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5642

Phe Phe Lys Ile Leu Gln Arg Met Tyr Arg Lys Phe His Lys Lys Glu
 1 5 10 15

Leu Ala Lys Ala Ala Arg Arg Pro Leu Arg Trp Phe Leu Val Ala Cys
 20 25 30

<210> 5643

<211> 91

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5643

Leu Met Arg Phe Tyr His Arg Leu Phe Arg Lys Ile Arg Thr Ile Lys
 1 5 10 15

Lys Arg Met Lys Arg His Tyr Ser Ala Ala Asn Arg Ile Arg Asp Ile
 20 25 30

Lys Thr Trp Val Asn Arg Ala Ile Arg Ala Arg Ala Glu Leu Leu Val
 35 40 45

Arg Glu Arg Leu Leu Arg Ala Tyr Leu Lys Leu Arg Leu Phe Asp Glu
 50 55 60

Thr Arg Cys Leu Phe Gln Lys Leu Asn His Phe Met Glu Ala Leu Phe
 65 70 75 80

Arg Leu Ala Ala Ala Ala Lys Ser Arg Ser Lys
 85 90

<210> 5644
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5644

Leu Leu Arg Leu Phe Arg Lys Leu Leu Lys Ile Leu His Lys Pro Lys
 1 5 10 15

Thr Ala Arg Lys Ala Ala Ser Lys Gly Lys Thr Ile Arg Leu
 20 25 30

<210> 5645
 <211> 88
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5645

Trp Ile Arg Ile Tyr Lys Arg Met Phe Arg Lys Phe Arg Cys Ala Ala
 1 5 10 15

Ile Leu Arg Asn Phe Tyr Leu Lys Leu Arg Asp Gln Phe Ile Phe Lys
 20 25 30

Lys Ile Lys Leu Gly Arg Thr Asp Ala Arg Thr Ala Ala Lys Leu Gln
 35 40 45

Ala Ala Arg Tyr Arg Arg Leu Lys Ala Pro Ala Ala Asn Ala Lys Ala
 50 55 60

Lys Met Lys Arg Val Thr Tyr Val Ala Thr Trp Ile Tyr Leu Glu Lys
 65 70 75 80

Leu Ala Ala Lys Tyr Asn Lys Trp
 85

<210> 5646
 <211> 63
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5646

Arg Trp Lys Leu Phe Cys Lys Tyr Leu Arg Lys Phe Lys Arg Leu Leu
 1 5 10 15

Tyr Arg Ala Ala Ala Tyr Glu Leu Leu Val Gln Arg Ser Ala Asp Tyr
 20 25 30

Ala Ser Arg Met Arg Cys Leu Ile Leu Trp Ala Thr Lys Arg Phe Val
 35 40 45

Tyr Arg Pro Ile His Lys Ala Arg Asp Ala Arg Lys Gly Leu Arg
 50 55 60

<210> 5647

<211> 54

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5647

Lys Leu Lys Trp Tyr Pro Lys Leu Leu Arg Ile Trp Arg Arg Ala Pro
 1 5 10 15

Ala Leu Gly Thr Thr Arg Ala Leu Asp Met Lys Thr Leu Glu Ile Arg
 20 25 30

Ala Ser Lys Tyr Leu Arg Glu Ala Gly Ala Arg Thr Trp Lys Ala Leu
 35 40 45

Gln Leu Gln Ala Ser Leu
 50

<210> 5648

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5648

Lys Leu Arg Leu Tyr Lys Lys Leu Leu Arg Leu Phe Arg Arg Gln Ala

1 5 10 15

Lys Leu Pro Arg Ala
20

<210> 5649
<211> 37
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 5649

Lys Ile Arg Leu Phe Lys Lys Phe Leu Lys Lys Leu Lys Arg Gly Asn
1 5 10 15

Leu Ile Lys Lys Arg Ser Leu Phe Trp Asp Tyr His Ala Ala Asp Leu
20 25 30

Trp Ala Gln Leu Ile
35

<210> 5650
<211> 71
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 5650

Leu Leu Arg Leu Met Asn Lys Phe Phe Arg Arg Leu Arg Lys Asn Leu
1 5 10 15

Tyr Trp Gly Asn Asn Lys Lys Asn Ala Lys Arg Ala Arg Arg Ala Leu
20 25 30

Val Leu Lys Lys Ala Val Asp Val Asp Glu Ala Arg Leu Met Ala Cys
35 40 45

Val Leu Arg Arg Leu Pro Ile Ile Asp Leu Arg Leu Asn Arg Gly Ile
50 55 60

His Glu Ala Tyr Arg Phe Arg
65 70

<210> 5651
 <211> 85
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5651

Lys Tyr Lys Leu Tyr Ser Lys Phe Leu Arg Arg Leu Gln Ser Leu Lys
 1 5 10 15

Leu Asp Pro Glu Ile Lys Leu Lys Met Gln Asn Asp Tyr Gly Lys Ala
 20 25 30

Arg Leu Ser Trp Cys Pro Lys Leu Leu Lys Ala Val Thr Gln Leu Leu
 35 40 45

Arg Lys Lys Leu Phe Trp Lys Leu Pro Arg Gln Lys Gln Arg Ala Met
 50 55 60

Arg Gly Leu Lys Lys Gln Lys Leu Gly Met Arg Gln Ala Asn Arg Lys
 65 70 75 80

Arg Leu Ala Leu His
 85

<210> 5652
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5652

Lys Leu Arg Ile Trp Arg Arg Met Trp Arg Met Leu Lys Ser Glu Lys
 1 5 10 15

Leu Ala Ala Ala Tyr Trp Cys Cys Leu Leu Leu Gln Lys Leu Trp Ala
 20 25 30

Thr His

<210> 5653

<211> 26
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5653

Leu Ile Arg Ile Phe Thr Lys Leu Leu Arg Leu Ile Arg Arg Asn Lys
 1 5 10 15

Gly Leu Arg Leu Val Met Leu Ser Ala Arg
 20 25

<210> 5654
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5654

Arg Ile Arg Tyr Leu Arg Lys Leu Tyr Arg Arg Leu Gln Lys Ala Ala
 1 5 10 15

Phe Lys Asp Trp Arg Ser Leu Cys Ala Tyr Asp Ala Arg Met Tyr Arg
 20 25 30

Arg Lys His Glu Thr Leu Ala Leu
 35 40

<210> 5655
 <211> 48
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5655

Phe Tyr Arg Trp Leu Cys Arg Leu Leu Lys Lys Ile Lys Ser Tyr Leu
 1 5 10 15

Arg Met Ala Pro Gln Lys Lys Thr Ser Asn Arg Glu Leu Met Leu Tyr
 20 25 30

Thr Leu Arg Ala Gly Trp His Arg Arg Gln Ala Leu Arg Arg Ala Leu

35

40

45

<210> 5656

<211> 41

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5656

Leu Phe Arg Leu Leu Arg Lys Phe Tyr Lys Ile Leu Lys Lys Gln Leu
 1 5 10 15

Ala Leu His Arg Ser Thr Lys Asp Gln Tyr Leu Asp Lys Arg Gln Ala
 20 25 30

Arg Leu Lys Lys Tyr Ala Ala Ser His
 35 40

<210> 5657

<211> 49

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5657

Lys Leu Lys Phe Ile Arg Lys Tyr Leu Lys Arg Phe Thr Arg Arg Leu
 1 5 10 15

Ala Ala Lys Leu Ser His Ala Asp Leu Cys Leu Asp Ala Val Cys Gln
 20 25 30

Leu Arg His Thr Glu Ala Val Asp Arg Gln Leu Lys Ile Ala Cys Asn
 35 40 45

Ala

<210> 5658

<211> 50

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5658

Leu Ile Lys Leu Leu Lys Arg Leu Tyr Lys Lys Trp Lys Lys Thr Leu
 1 5 10 15

Lys Arg Gln Leu Leu Lys Ala Pro Met Cys Ala Arg Val Lys Ile Arg
 20 25 30

Asp Ile Gln Glu Arg Cys Tyr Asp Ala Met Arg His Ala Ser Ala Lys
 35 40 45

Ala Ala
 50

<210> 5659

<211> 39

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5659

Arg Ile Lys Phe Met Lys Lys Leu Leu Arg Lys Phe Pro Arg His Lys
 1 5 10 15

Leu Leu Leu Tyr Lys Cys Ser Ala Arg Thr Ala Ala Val Val Ala Ala
 20 25 30

Met Lys Pro Gln Gly Lys Cys
 35

<210> 5660

<211> 47

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5660

Leu Ile Lys Met Tyr Gln Lys Tyr Leu Arg Lys Ile Arg Arg Arg Ala
 1 5 10 15

Lys Ala Glu Cys Asp Pro Arg Ile Tyr Ala Asp Leu Glu Leu Arg Ala
 20 25 30

Ala Ala Met Leu Cys Met Arg Lys Leu Ala Pro Pro Asn Ala Lys
35 40 45

<210>	5661
<211>	48
<212>	PRT
<213>	Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 5661

Trp Leu Arg Ile Phe Ser Arg Leu Phe Arg Lys Leu Lys Cys Leu Lys
1 5 10 15

Ala Trp Ile Leu Met Ser Leu Gln Arg Arg Pro Lys Ala Leu Lys Lys
20 25 30

Cys Trp Leu Gly Arg Ala Gly Gly Arg Tyr Asn Leu Lys Lys Cys Glu
35 40 45

<210>	5662
<211>	22
<212>	PRT
<213>	Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 5662

Leu Ile Lys Ile Leu Arg Lys Leu Phe Arg Ile Ile Lys Lys Arg Glu
1 5 10 15

Ala Tyr Trp Tyr Leu Ala
20

<210>	5663
<211>	82
<212>	PRT
<213>	Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 5663

Arg Leu Arg Phe Leu Lys Lys Phe Ile Lys Lys Phe Lys Lys Asp Arg
1 5 10 15

Ala Gln Gly Lys Leu Lys Lys Phe Leu Leu Phe Pro Tyr Ala Gln Trp
 20 25 30

Ala Lys Ala Lys His Lys Ile Ala His Leu Asn Leu Thr Ala Ala Ala
 35 40 45

Ala Pro Tyr Val Lys Ala Phe Phe Lys Pro Ala Arg Cys Leu Leu Ala
 50 55 60

Lys Arg Trp Lys Tyr Met Arg Ala Gly Gly Val Ile Leu Phe Phe Leu
 65 70 75 80

Leu Gln

<210> 5664
 <211> 51
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5664

Arg Leu Lys Leu Tyr Lys Lys Leu Phe Lys Met Phe Gln Arg Leu Ile
 1 5 10 15

Leu Asn Ala Leu Arg Lys Tyr Tyr Cys Ala Ala His Trp Ala Leu Ala
 20 25 30

Val Leu Arg Lys Ser Glu Arg Cys Cys Arg Ala His Met Ala Ala Thr
 35 40 45

Ala Cys Lys
 50

<210> 5665
 <211> 51
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5665

Leu Leu Arg Leu Trp Asn Arg Leu Met Lys Leu Leu Arg His Met Arg

1 5 10 15

Arg Asp Arg Arg Leu Arg Asp Trp Leu Thr Lys Pro Phe Trp Lys Ile
20 25 30

Arg Glu Arg Thr Leu Trp Arg Val Val Ala Leu Arg Arg Leu Trp Lys
35 40 45

Ala Ala Trp
50

<210>	5666
<211>	33
<212>	PRT
<213>	Artificial Sequence
<220>	
<223>	Computer-generated peptide variant
<400>	5666

Lys Leu Lys Leu Phe Lys Lys Met Leu Lys Lys Ile Ser Arg Ile Arg
1 5 10 15

Arg Leu Lys Gln Met Arg Val Arg Asp Leu Ala Ala Asn Ala Cys Leu
20 25 30

Ala

<210>	5667
<211>	65
<212>	PRT
<213>	Artificial Sequence
<220>	
<223>	Computer-generated peptide variant
<400>	5667

Leu Leu Lys Leu Phe Thr Lys Phe Ile Arg Leu Leu Pro Asn Leu Arg
1 5 10 15

Arg Leu Ala Val Pro Ser Lys Pro Asp Leu Leu Ala Leu Pro Lys Lys
20 25 30

Ala Arg Trp Ala Val Asp Ser Asp Asn Lys Lys Gln Thr Met Arg Leu
35 40 45

Lys Met Thr Lys Arg Lys Ile Lys Asp His Gly Ala Ala Ala Val Arg
 50 55 60

Asn
 65

<210> 5668
 <211> 49
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5668

Lys Tyr Lys Phe Leu Asn Arg Phe Tyr Arg Leu Phe Lys Lys Glu Thr
 1 5 10 15

Arg Cys Pro Trp Leu Ala Leu Asn Leu Leu Val Leu Arg Ile Asp Leu
 20 25 30

Arg Thr Lys Arg Arg Ala Asn Lys Asp Ala Gly Ala Ala Leu Lys Lys
 35 40 45

Arg

<210> 5669
 <211> 52
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5669

Lys Trp Lys Leu Trp Arg Lys Leu Leu Lys Leu Ile Arg Cys Ala Tyr
 1 5 10 15

Leu Leu Phe Lys Leu Ser His Asn Val Gln Leu Thr Lys Ala Arg Leu
 20 25 30

Asp Met Gln Ile Ala Asn Lys Thr Ser Leu Phe Val Lys Arg Leu Pro
 35 40 45

Leu Arg Arg Trp

50

<210> 5670
 <211> 56
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5670

Lys Trp Arg Ile Phe Thr Arg Tyr Met Arg Lys Leu Asn His Ala Gln
 1 5 10 15

Met Asn Leu Thr Leu Lys Lys Ala Arg Lys Gln Ile Ala Ala Ala Met
 20 25 30

Ala Ser Ala Glu Arg Leu Ala Tyr Ala Leu Tyr Ser Val Lys Lys Leu
 35 40 45

Lys Arg Leu Leu Arg Ala Ala Arg
 50 55

<210> 5671
 <211> 45
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5671

Ile Phe Lys Phe Leu Cys Lys Trp Met Lys Lys Leu Asn Arg Lys Lys
 1 5 10 15

Thr Asp Lys Ala Val Leu Asn His Lys Lys Leu Arg Ala Leu Ala Arg
 20 25 30

Arg Gln Ala Val Ser Leu Phe Arg Asn Lys Ser Tyr Ala
 35 40 45

<210> 5672
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5672

Leu Leu Arg Trp Leu Arg Arg Leu Leu Arg Leu Tyr Arg Lys Leu Thr
 1 5 10 15

Gln Lys Ala Glu Ala Asp Pro Arg Gly
 20 25

<210> 5673

<211> 78

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5673

Arg Tyr Lys Trp Trp Lys Arg Leu Phe Arg Arg Tyr Ser Cys Lys Lys
 1 5 10 15

Arg Ala Val Ala Arg Leu Thr Ala Ala Gln Leu Ala Met Arg Ile Leu
 20 25 30

Trp Gln Phe Arg Leu Ile Phe Tyr Phe Lys Arg Lys Lys Cys Trp Lys
 35 40 45

Ala Asn Val His Val Cys His Arg Leu Gln Lys Ile Arg Lys Arg Ala
 50 55 60

Val Tyr Ala Ala Leu Leu Arg Leu Leu His Asn Arg Lys Pro
 65 70 75

<210> 5674

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5674

Ile Leu Lys Phe Leu Thr Lys Leu Ile Arg Lys Phe Lys Lys Ala Gln
 1 5 10 15

Tyr Arg Leu Phe Ala His Cys Ser Ala Ala Met Leu Ala Lys Arg Leu
 20 25 30

<210> 5675
 <211> 50
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5675

Arg Leu Arg Leu Phe Thr Arg Met Phe Lys Trp Phe Lys Arg Arg Arg
 1 5 10 15

Ala Lys Arg Lys Gln Leu Ser Trp Tyr Arg Leu Gln Trp Thr Ile Arg
 20 25 30

Leu Leu Cys Ala Leu Lys Arg Lys His Asp Leu Leu Lys Leu Leu Thr
 35 40 45

Gln Arg
 50

<210> 5676
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5676

Phe Leu Arg Leu Trp Gln Arg Trp Leu Arg Arg Ile Lys His Pro Ala
 1 5 10 15

Ala Leu Glu Leu Leu Arg Lys Leu Lys Arg Leu Ile Lys Ile Met Lys
 20 25 30

Glu Ala Tyr Asp
 35

<210> 5677
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5677

Lys Leu Lys Phe Phe Arg Lys Leu Met Arg Tyr Leu Ser Gln Ala His
 1 5 10 15

Ala Lys His Ala Arg
 20

<210> 5678
 <211> 37
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5678

Arg Phe Arg Leu Ile Arg Arg Met Tyr Arg Tyr Leu Thr Thr Lys Gln
 1 5 10 15

Leu Leu Lys Arg Lys Leu Pro His Arg Phe Trp Asp Trp Leu Ser Ala
 20 25 30

Ala Leu Ala Arg Leu
 35

<210> 5679
 <211> 39
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5679

Arg Met Lys Trp Leu Ser Arg Leu Met Arg Lys Leu Lys Lys Tyr Gly
 1 5 10 15

Arg Gly Ala Ala Cys Tyr Ala Phe Leu Ala Gly Asp Lys Leu Lys Ala
 20 25 30

His Thr Leu Asn Phe Lys Tyr
 35

<210> 5680
 <211> 56
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5680

Leu	Phe	Arg	Tyr	Phe	Cys	Lys	Leu	Phe	Lys	Lys	Phe	Arg	Thr	Tyr	Arg
1				5					10					15	

Pro	Gln	Trp	Leu	Leu	Arg	Arg	Ser	Leu	Val	Arg	Ala	Asn	Met	Arg	Arg
			20					25					30		

Lys	Arg	Arg	Thr	Asn	Leu	Ala	Ala	Arg	Arg	Leu	Leu	Asp	Cys	Leu	His
			35				40					45			

Pro	Tyr	Leu	Asp	Arg	Lys	Trp	Glu
	50					55	

<210> 5681

<211> 31

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5681

Met	Trp	Arg	Leu	Tyr	His	Arg	Leu	Ile	Lys	Leu	Trp	Lys	Arg	Ala	Ala
1				5					10					15	

Val	Thr	Lys	Leu	Lys	Lys	Leu	His	Gly	Ile	Cys	His	Leu	Leu	Lys
			20					25					30	

<210> 5682

<211> 50

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5682

Phe	Leu	Arg	Tyr	Leu	Lys	Arg	Phe	Leu	Arg	Leu	Phe	Lys	Lys	Leu	Glu
1				5					10					15	

His	Arg	Pro	Leu	Lys	Leu	Asn	Val	Asn	Leu	Pro	Ala	Lys	Arg	His	Asn
			20					25					30		

Lys	Asp	Thr	Ile	Lys	Ala	Arg	Asp	Ala	Phe	Lys	Arg	Val	Asn	Cys	Leu
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

35

40

45

Arg Asp
50

<210> 5683

<211> 76

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5683

Arg Leu Lys Phe Phe Thr Arg Phe Leu Lys Lys Trp Lys Cys Lys Asp
1 5 10 15

Leu His Tyr Leu His Ala Leu Lys Ala Val Ala Pro Arg Arg Lys Ile
20 25 30

Arg Asn Val Ser Glu Lys Leu Lys Ala Trp Val Gln Asn Ala Cys Leu
35 40 45

Leu Arg Ser Leu Leu Arg Asn His Arg Arg Lys Lys Ala Phe Pro Asp
50 55 60

Asp Lys Ala Lys Lys Ala Ala Asp Gln Gln Gln Leu
65 70 75

<210> 5684

<211> 50

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5684

Phe Leu Lys Trp Leu Lys Arg Met Leu Arg Arg Phe His Cys Ala Phe
1 5 10 15

Ser Leu Leu Lys Met Pro Val Thr Glu Ala Ala Arg Leu Arg Ile Arg
20 25 30

Lys Ile Trp Ala Arg His Arg Phe Tyr Ala Met Ala Leu Lys Arg Lys
35 40 45

Met Lys
50

<210> 5685
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 5685

Leu Met Arg Ile Tyr Lys Arg Tyr Leu Lys Tyr Leu Asn Arg His Leu
1 5 10 15

Lys Leu Trp Ala
20

<210> 5686
<211> 94
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 5686

Leu Phe Arg Phe Trp Lys Lys Phe Trp Lys Arg Leu Arg Lys Arg Ala
1 5 10 15

Tyr Leu Lys Cys Ala Tyr Lys Arg Arg Trp Ala Arg Val Met Tyr Leu
20 25 30

Lys Leu Val Phe Met Asn Lys Arg Leu Ala Leu Ala Leu Leu Gln Lys
35 40 45

His Tyr Leu Arg Phe Glu Arg Leu Leu Ile Arg Thr Leu Leu His Arg
50 55 60

Asp Asp Gln Ser Asn Glu Val Gln Leu Lys Leu Arg Asp His Leu Arg
65 70 75 80

Arg Lys Trp Leu Ala Pro Val Ser Lys Ala Pro Ala Leu Thr
85 90

<210> 5687

<211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5687

Arg Tyr Arg Leu Trp Arg Lys Phe Trp Lys Lys Leu Lys Gln Ile Leu
 1 5 10 15

Asn Lys Lys Leu Pro Ala His Ala Leu
 20 25

<210> 5688
 <211> 63
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5688

Lys Phe Arg Ile Met Lys Lys Leu Leu Lys Phe Leu Ser Gln Phe Leu
 1 5 10 15

Lys Ala Lys Gln Pro Lys Ile Arg Lys Ala Lys Thr Trp Thr Leu Lys
 20 25 30

Val Ala Leu His Phe Lys Lys Tyr Leu Arg Leu Lys Arg Ala Pro Leu
 35 40 45

Phe Ser Gln Lys Lys Arg Leu Lys Leu Asp Leu Ser Ala Lys Leu
 50 55 60

<210> 5689
 <211> 58
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5689

Leu Leu Lys Leu Trp Lys Lys Leu Leu Arg Ile Leu Lys Lys Cys Thr
 1 5 10 15

Arg Asp Arg Leu Leu Ala Pro Ser Leu Gln Ala Ala Asn Cys His His

20

25

30

Tyr Leu Lys Lys Lys Leu Arg Cys Thr Glu Asn Ser Lys Gln Ala Lys
 35 40 45

Arg Phe Leu Glu Phe Glu Trp Pro Leu Leu
 50 55

<210> 5690

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5690

Leu Phe Arg Leu Trp Arg Arg Leu Leu Arg Trp Phe Lys Ser Ala Leu
 1 5 10 15

Asp Ile Ala Asp Ala Lys
 20

<210> 5691

<211> 72

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5691

Arg Phe Arg Tyr Ile Lys Lys Leu Tyr Lys Lys Leu Lys Cys Ala Lys
 1 5 10 15

Leu His Pro Lys Trp Tyr Lys Leu Leu Arg Pro Glu Asn Phe Ser Ala
 20 25 30

Ser Pro Asp Leu Ala Trp Glu Val Leu Pro Lys Ala Asp Tyr Ser Met
 35 40 45

Leu Lys Leu Arg Arg Ala Leu Arg Ala Gly Trp Tyr Arg Tyr Arg Leu
 50 55 60

Asn Leu Pro Lys Lys Arg Ala Leu
 65 70

<210> 5692
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5692

Arg Met Lys Leu Phe Gln Lys Ile Leu Lys Tyr Leu Arg Thr Phe Ala
 1 5 10 15

Arg Gln Lys Ala Lys Leu Ser Ala Lys Met Trp His Thr Pro Leu Leu
 20 25 30

Ala Lys Ile Lys
 35

<210> 5693
 <211> 46
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5693

Lys Tyr Arg Phe Leu Arg Lys Phe Leu Arg Phe Leu Lys Lys Lys Ala
 1 5 10 15

Ala Leu Ala Ala Gln Leu Val Leu Ala Ala Arg Ala Pro Val Arg Ser
 20 25 30

Trp Trp Met Val Lys Thr Ala Leu Thr Lys Lys Ala Arg Ala
 35 40 45

<210> 5694
 <211> 41
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5694

Lys Leu Arg Leu Ile Arg Arg Ile Leu Arg Lys Leu Pro Ser Arg Val
 1 5 10 15

Arg Leu Trp Leu Gln Val Pro Met Asp Ala Glu Gln Arg Lys Leu Arg
 20 25 30

Leu Ala Val Lys Gln Gly Lys Ser Tyr
 35 40

<210> 5695

<211> 65

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5695

Lys Met Lys Leu Trp Thr Lys Ile Tyr Arg Lys Leu Lys Arg Glu Pro
 1 5 10 15

Ala Ser Ala Leu Ile Met Phe Asp Leu Leu Arg Cys Arg Asp Ala Ala
 20 25 30

Val Tyr Arg Cys Ala Leu Thr Lys Ala Cys Val Lys Leu Arg Leu Asn
 35 40 45

Gln Glu Ala Ala Thr Leu Leu Lys Lys Leu Cys Val Val Thr Pro Leu
 50 55 60

Arg

65

<210> 5696

<211> 60

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5696

Lys Leu Lys Tyr Trp Arg Lys Tyr Met Lys Lys Phe Arg His Lys Ala
 1 5 10 15

Lys Leu Ala Arg Leu Cys Pro Gln Ala Leu Ala Lys Lys Arg Ala Gln
 20 25 30

Asp Phe Leu Lys Gln Arg Lys Asn Tyr Val Met Ala Ala Arg Val Asp

35

40

45

Arg Val Tyr Leu Arg Thr Ala Lys Gly Met Ala Leu
 50 55 60

<210> 5697

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5697

Leu Ile Arg Ile Phe Arg Arg Leu Phe Arg Arg Tyr Thr Lys Leu Asn
 1 5 10 15

Met Ala Asn Leu Thr Lys Leu Lys Lys Leu Ser Leu Ile Ala Asp Ala
 20 25 30

<210> 5698

<211> 66

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5698

Tyr Tyr Lys Ile Ile Pro Arg Ile Ile Arg Arg Leu Ser Arg Ala Arg
 1 5 10 15

Leu Lys Leu Pro Asn Met Ala Lys Arg Leu Phe Arg His Leu His Lys
 20 25 30

Lys Cys Tyr Leu Ala Leu Arg Leu Ala Asn Leu Asp Arg Lys Ala Tyr
 35 40 45

Asn Arg Lys Leu Val Met Phe Ala Ala Ile Glu Met Leu Val Ala Ala
 50 55 60

Val Arg
 65

<210> 5699

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5699

Arg Phe Lys Phe Leu His Lys Ile Tyr Lys Phe Phe Lys Lys Ala Arg
1 5 10 15

Lys Ala Leu Gly Ala Thr Leu Ala Lys Glu Pro Leu Gly Arg Ala Cys
20 25 30

Asp Ile Ala His
35

<210> 5700

<211> 88

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5700

Lys Phe Arg Phe Ile Pro Arg Phe Tyr Arg Leu Met Gln Arg Tyr Gly
1 5 10 15

Met Lys Ala Lys Cys Ala Asn Leu Asp Ala Ala Arg Lys Ala Arg Lys
20 25 30

Trp Arg Lys Ala His Ile Arg Gln Lys Leu Glu Ala Thr Thr Leu Arg
35 40 45

Ala Ala His Lys Ser Leu Pro Gln Ala Leu Arg Ala Leu Lys Ser Lys
50 55 60

Ile Gln Arg Leu Lys Gln Arg His Leu Tyr Lys Arg Thr Asn Lys Lys
65 70 75 80

Phe Ala His Ala Lys Lys Gln Ala
85

<210> 5701

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5701

Leu	Leu	Lys	Met	Leu	Thr	Arg	Trp	Leu	Arg	Arg	Tyr	Arg	Lys	Pro	Tyr
1				5				10						15	

Asn	Cys	Ser	Ala	Arg
			20	

<210> 5702

<211> 67

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5702

Leu	Tyr	Arg	Ile	Leu	Lys	Arg	Ile	Tyr	Lys	Trp	Tyr	Gln	Arg	Lys	Phe
1				5				10						15	

Ala	Leu	Lys	Ala	Lys	Lys	Ala	Leu	Arg	Glu	Ala	Ala	Asn	Ser	Arg	Glu
			20				25						30		

Lys	Arg	Phe	Leu	Asn	Ala	Met	Asp	Lys	Glu	Ala	His	Arg	Gln	Ala	Ile
		35				40						45			

Leu	Ala	Leu	Pro	Cys	Ala	Lys	Leu	Lys	Val	Leu	Arg	Gly	Ala	Arg	Glu
	50					55					60				

Trp	Arg	Leu
65		

<210> 5703

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5703

Lys	Trp	Arg	Phe	Tyr	Lys	Arg	Trp	Leu	Lys	Lys	Trp	Lys	Asn	Lys	Ala
1				5				10						15	

Cys	Ala	Lys	Leu	Phe	Leu	Leu	Asp	Ala	Leu	Leu	Ala	Ala
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

20

25

<210> 5704
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5704

Leu Leu Arg Leu Phe Asn Arg Phe Leu Lys Leu Phe Ser Lys Trp Phe
 1 5 10 15

Ala Asn Lys Leu Lys Cys Gly Pro Lys Asn Arg Lys Leu Pro Ala Ala
 20 25 30

Lys

<210> 5705
 <211> 43
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5705

Lys Ile Arg Ile Phe Lys Lys Leu Leu Lys Lys Met Lys Asn Leu Leu
 1 5 10 15

Arg Gln Ile Lys Cys Leu Gly Leu Ser Ala Lys Val Ala Arg Leu Arg
 20 25 30

Cys Tyr Asn Cys Lys Arg Gln Cys Ala Gln Glu
 35 40

<210> 5706
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5706

Arg Phe Lys Phe Leu Lys Arg Trp Phe Lys Lys Phe Lys Pro Leu Ala

1 5 10 15

Leu Ala Met Ser Asn Asn Gln Arg Gly Asp Leu Ala Arg Ala
20 25 30

<210> 5707
<211> 24
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 5707

Arg Leu Arg Leu Ile Lys Arg Phe Leu Arg Arg Phe Thr Pro Leu Ser
1 5 10 15

Tyr Ser Ala Phe Arg His Lys Ala
20

<210> 5708
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 5708

Lys Leu Arg Leu Leu Thr Lys Trp Phe Lys Lys Leu Asn Lys Leu Leu
1 5 10 15

Lys Gln Tyr Asn Thr Phe Arg
20

<210> 5709
<211> 52
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 5709

Lys Met Arg Leu Tyr Thr Lys Phe Trp Lys Leu Ile Lys Gln Cys Ala
1 5 10 15

Thr Pro Thr Met Ala Ala Val Ala Arg Ala Ala Gln Ala Ile Arg His

30

Asn Ala Tyr Lys Lys Ala Tyr Arg Ile Glu Leu Leu Leu Lys Gln Lys
35 40 45

Ala Lys Ala Met
50

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<210> 5710
<211> 52
<212> PRT
<213> Artificial Sequence
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<220>
<223> Computer-generated peptide variant

<400> 5710

Phe Phe Lys Met Ile Lys Arg Leu Leu Arg Arg Leu Lys Lys Met Tyr
1 5 10 15

Leu Leu Gly Ala Ala Glu Lys Ser Lys Leu Asn Pro Ile Arg Leu Ala
20 25 30

Asn Trp Phe Ala His Lys Gly Val Leu Arg Gln Ala His Leu Lys Asn
35 40 45

Ala His Cys Arg
50

<210>	5711
<211>	90
<212>	PRT
<213>	Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 5711

Arg Ile Lys Leu Tyr Gln Arg Phe Ile Arg Lys Leu Ser Ser Met Glu
1 5 10 15

Thr Leu Ala Trp Ala Tyr Tyr Ala His Ser Thr Lys Ala Ala Lys Thr
20 25 30

Tyr Met Trp Asn Arg Leu Ala Thr Arg Arg Ala Ile Val Ser Lys Ala
35 40 45

Lys Glu Lys Arg His Lys Leu Trp Arg Ile Cys Arg Ala Arg Leu Lys
 50 55 60

Asn Ile Pro Ser Leu Leu Lys Val Lys Cys Tyr Ala Cys Leu Leu Arg
 65 70 75 80

Lys Leu Leu Pro Ala Ala Arg Arg Ala Lys
 85 90

<210> 5712
 <211> 31
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5712

Arg Leu Arg Leu Phe Lys Lys Ile Leu Lys Lys Leu Ser Cys Leu Lys
 1 5 10 15

Val Leu Arg Ala Arg Leu Gly Ile Ala Phe Phe Arg Ser Glu Ala
 20 25 30

<210> 5713
 <211> 99
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5713

Arg Phe Arg Met Tyr Pro Lys Phe Leu Arg Leu Trp Asn Lys Ile Cys
 1 5 10 15

Tyr Ala Ala Leu Arg Arg Arg Glu Tyr Glu Ala Lys Leu Arg Arg Asn
 20 25 30

Arg Arg Leu Cys Ala Ile Lys Arg Leu Met Arg Asn Gly Arg Pro Val
 35 40 45

His Ala Leu Glu Trp Ser Gln Asn Ala Leu Arg Ala Met Arg Arg Ala
 50 55 60

Arg Ala Gln Lys Arg Val Leu Ala Val Ala Lys Gly His Leu Ala Lys

Leu Leu Leu Leu

<210> 5716
 <211> 42
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5716

Met	Leu	Arg	Tyr	Tyr	Asn	Lys	Leu	Leu	Lys	Leu	Met	Lys	Thr	Lys	Asp
1				5					10					15	

Leu	Gln	Leu	Arg	Lys	Ala	Ile	Cys	Gln	Tyr	Met	Ala	Trp	Ala	Lys	Trp
			20					25					30		

Val	Ala	Leu	Arg	Glu	Trp	Leu	Leu	Ala	Lys
		35					40		

<210> 5717
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5717

Leu	Ile	Lys	Leu	Leu	His	Lys	Ile	Phe	Lys	Arg	Trp	Ser	Cys	Leu	Asp
1				5					10					15	

Lys	Ala	Gln	Leu	Leu	Asp	Gly	Arg	Arg	Val	Gly	Ala	Ala	Tyr	Ala	Arg
			20					25					30		

<210> 5718
 <211> 45
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5718

Arg	Trp	Lys	Phe	Ile	Thr	Lys	Leu	Leu	Lys	Arg	Leu	Arg	Arg	Leu	Pro
1				5					10					15	

Thr Leu Arg Val Lys Ile Met Glu Phe Lys Ala Ser Ile Thr Lys Cys
 20 25 30

Leu Gln Ser Ser Trp Lys Lys Lys Ala Leu Ala Ala Ser
 35 40 45

<210> 5719

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5719

Leu Phe Lys Ile Trp Lys Lys Met Leu Arg Arg Ile Arg Arg Ala Glu
 1 5 10 15

Gly Ala Trp Asn Ala Asn Arg Asp Asn Ala Ala
 20 25

<210> 5720

<211> 96

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5720

Leu Leu Lys Trp Tyr Arg Lys Phe Trp Arg Lys Met Gln Asn Lys Arg
 1 5 10 15

Glu His Leu Leu His Gly Lys Leu Lys Trp Ala Trp Ala Leu Leu Lys
 20 25 30

Val His Met His Val Ala Arg Pro Lys Asn Leu Ser Asp Ala Ile Lys
 35 40 45

Gln Asn Ser Ala Leu Val Ile Lys Leu Leu Gln Leu Lys Val Phe Trp
 50 55 60

Arg Ala Leu Arg Leu Ala Met His Phe Ala Arg Cys Ala Ala Ala His
 65 70 75 80

Leu Arg Leu Tyr Lys Phe Lys Thr Gln Arg Leu Ala Lys Thr Lys Ala

85

90

95

<210> 5721
 <211> 98
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5721

Lys Ile Arg Phe Leu Gln Lys Phe Ile Arg Lys Phe Pro Arg His Leu
 1 5 10 15

Leu Lys Leu Arg Leu Ile Gln Lys Leu Tyr Gly Lys Ser Leu Ala Cys
 20 25 30

Leu Lys Arg Leu Lys Ile Lys Ala Ala Arg Ile Cys Tyr Ala Ser Leu
 35 40 45

Arg Leu Leu Lys Asp Leu Lys Arg Arg Leu Gln Gln Ala Cys Leu Gln
 50 55 60

Cys Leu Met Ser Tyr Leu Cys Arg His Ala Ala Lys Gln Ala Leu Asp
 65 70 75 80

Lys Lys Lys Asn Val Cys Val Ala Trp Ser Gly Leu Arg Ile Ala His
 85 90 95

Arg Asn

<210> 5722
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5722

Arg Met Lys Met Met Thr Arg Met Trp Arg Phe Phe Lys Lys Leu Ala
 1 5 10 15

Ala Ala Leu Lys Ser
 20

<210> 5723
 <211> 38
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5723

Lys Ile Arg Leu Ile Asn Lys Ile Tyr Arg Met Ile Thr Arg Pro Ala
 1 5 10 15

Ala Met Leu Gln Phe Ser Ala Ala Ile His Lys Arg Ala Leu Leu Lys
 20 25 30

Lys Met Leu Lys Leu Thr
 35

<210> 5724
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5724

Lys Leu Lys Leu Leu Arg Lys Ile Leu Arg Leu Leu Pro Lys Cys Ala
 1 5 10 15

Asn Ala Ile Met Arg Ile Leu Leu Tyr Arg Arg Arg Asn Thr Glu Cys
 20 25 30

Arg Lys Glu Ala Lys Asp Arg Arg
 35 40

<210> 5725
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5725

Ile Leu Lys Tyr Trp Lys Arg Leu Phe Arg Leu Leu Arg His Arg Ala
 1 5 10 15

Lys Thr Glu Leu Arg Gly Thr Leu His Arg Ser Cys Phe
20 25

<210>	5726
<211>	40
<212>	PRT
<213>	Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 5726

Phe Trp Lys Leu Tyr Gln Lys Leu Trp Lys Lys Leu Arg Arg Asn Glu
1 5 10 15

Ala His Tyr Arg Lys Met Tyr Ala Ala Lys Glu Leu Leu Glu His Arg
20 25 30

Arg Gln Gly Glu His Leu Arg Leu
35 40

<210>	5727
<211>	20
<212>	PRT
<213>	Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 5727

Leu Tyr Lys Ile Trp Thr Lys Trp Phe Arg Met Leu Lys Lys Phe Leu
1 5 10 15

Ala Lys Ala Ser
20

<210>	5728
<211>	97
<212>	PRT
<213>	Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 5728

Lys Ile Lys Phe Leu Lys Lys Tyr Met Arg Phe Leu Asn Lys Leu Lys
1 5 10 15

Ala His Gln Lys Ala Lys Ala Lys Val Arg Gly His Arg Trp Lys Gly
 20 25 30

Lys Leu Arg Lys Asp Cys Lys Ala Asn Arg Met Arg Glu Leu Tyr Lys
 35 40 45

Arg Leu Gln Ala Cys Lys Thr His Leu Lys Arg Ala Lys Gln Leu Gln
 50 55 60

Ala Val His Ala Glu Leu Arg Ala Lys Ile Leu Arg Tyr Met Arg Arg
 65 70 75 80

Ile Glu Asn Leu Ala Ala Ala Glu Asn Arg Tyr Gln Leu Pro Tyr Asp
 85 90 95

Lys

<210> 5729
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5729

Lys Tyr Lys Tyr Phe Lys Lys Tyr Leu Lys Arg Phe Lys His Cys Tyr
 1 5 10 15

Ala Cys Glu Ala Lys Leu Leu Asn Leu Ala Lys Cys Thr Trp Pro Leu
 20 25 30

Lys Lys Ala Asn
 35

<210> 5730
 <211> 57
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5730

Lys Phe Arg Phe Phe Lys Arg Phe Leu Lys Trp Met Arg Cys His Ala

1 5 10 15
 Leu Arg Tyr Cys Thr Leu Arg His Ala Arg Arg Glu Arg Ala Phe Leu
 20 25 30
 Gly Gly Asn Thr Met Arg Ala Gln Leu Lys Gly Val Leu Phe Asp Lys
 35 40 45
 Leu Lys Asn Ala Arg Arg Ala Leu Leu
 50 55

<210> 5731
 <211> 32
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Computer-generated peptide variant

 <400> 5731

Phe Phe Arg Phe Ile Arg Arg Phe Leu Arg Leu Leu Thr Lys Pro Met
 1 5 10 15
 Arg Ala Met Trp Cys Ala Ala Arg Lys Ser Leu Leu Leu Lys Arg Leu
 20 25 30

<210> 5732
 <211> 38
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Computer-generated peptide variant

 <400> 5732

Leu Phe Arg Leu Leu Lys Arg Leu Phe Arg Leu Phe Arg Lys Leu Ala
 1 5 10 15
 His Ala Ser Lys Thr Met Met Leu Ala Ala Ile Glu Thr Arg Thr Glu
 20 25 30

Asp Tyr Gly Leu Arg Arg
 35

<210> 5733
 <211> 39
 <212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5733

Ile Leu Lys Leu Phe Lys Lys Phe Leu Lys Lys Leu Cys Arg Ala Leu
1 5 10 15

Tyr Arg Lys Phe Glu Ala Ala Lys Ala Asn Leu Ser Ala Gln Ala Ala
20 25 30

Val Arg Thr Met Ser Asp Asn
35

<210> 5734

<211> 63

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5734

Lys Leu Lys Leu Leu Ser Lys Phe Leu Arg Lys Tyr Gln His Leu Ser
1 5 10 15

Leu Ala His Ile Ala Arg Ala Ile Lys Thr Met Leu Ile Ser Arg Leu
20 25 30

Gly Phe Gly Asp Ser Asn His Pro Ala Arg Lys Arg Ser Trp Leu Lys
35 40 45

Ala Lys Arg Arg Cys Arg Lys Leu Leu Asn Pro Ala Gly His Lys
50 55 60

<210> 5735

<211> 73

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5735

Lys Ile Arg Leu Leu His Lys Tyr Leu Lys Lys Phe Arg Arg Leu Arg
1 5 10 15

Arg Arg Phe Lys Thr Leu Asn Arg Phe Tyr Arg Tyr Lys Trp Cys Ala
 20 25 30

Ile Lys Ala Gln Lys Leu Ala Leu Lys Leu Gln Lys Leu Lys Lys Ile
 35 40 45

Ile Leu Ala Cys Ser His Gly Trp Arg Asp Arg Cys Pro Asp Arg Ala
 50 55 60

Phe Val Phe Ala Arg Ala Leu Ala Met
 65 70

<210> 5736
 <211> 43
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5736

Lys Phe Arg Leu Phe Lys Lys Phe Leu Lys Arg Leu Ser Arg Ala Phe
 1 5 10 15

Leu Ala Pro Gln Lys Tyr Arg Leu Lys Pro Val Ile Asp Lys Ala Leu
 20 25 30

Arg Lys His Leu Gly Asn Gln Arg Ala Thr Asn
 35 40

<210> 5737
 <211> 38
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5737

Arg Ile Lys Tyr Leu Thr Lys Leu Phe Lys Phe Leu His Gln Lys Lys
 1 5 10 15

His Leu Lys Gln His Ala Ala Leu Pro Leu His Leu Tyr Lys Lys Ala
 20 25 30

Pro Asp Leu Pro Ala Lys

35

<210> 5738
 <211> 47
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5738

Lys Ile Lys Leu Tyr His Arg Phe Leu Lys Arg Leu His His Arg Ala
 1 5 10 15

Lys Arg Arg Ala Arg Leu Leu Glu Tyr His Leu Ala Arg His Phe Ala
 20 25 30

Ser Phe Trp Lys Arg His Trp Gln Ala Ala Pro Arg Asn Asn Tyr
 35 40 45

<210> 5739
 <211> 55
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5739

Arg Leu Lys Leu Tyr Arg Arg Trp Tyr Arg Trp Leu Ser Lys Ile His
 1 5 10 15

Ala Ala Lys Asn Arg Tyr Leu Arg His Leu Ala Gln Leu Arg Lys Asp
 20 25 30

Asp Leu Phe Leu Arg Phe Ala Arg Val Cys Gln Glu His Leu Leu Lys
 35 40 45

Lys Ala Leu Cys Gly Leu Ile
 50 55

<210> 5740
 <211> 69
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5740

Lys Leu Arg Leu Leu Ser Arg Leu Trp Arg Arg Leu Lys Ser Asp Pro
 1 5 10 15

Tyr Lys Asn Asn Lys Trp Arg Leu Lys Gln Tyr Leu Ile Arg Leu Asp
 20 25 30

Lys Gln Ala Leu Arg Leu Asp Leu Arg Ser Phe Ala Glu Arg Asn Ile
 35 40 45

Met Phe Trp Leu Gly Arg Leu Ala Leu Lys Met Gln Trp Met Leu Asp
 50 55 60

His Phe Ala Leu Ala
 65

<210> 5741

<211> 67

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5741

Leu Leu Lys Trp Phe Ser Arg Phe Trp Lys Tyr Leu Lys Lys Leu Ala
 1 5 10 15

Ala Lys Asn Glu Leu Cys Lys Ile Val Arg Ala Ala Arg Lys Leu Trp
 20 25 30

Arg Leu Phe Arg Met Ala Lys Met Ala Ala Lys Asp Leu Tyr Val Met
 35 40 45

Trp Asn Asp Lys Lys Val Asp Trp Arg Ile Asn Leu Glu Ala Gln Ala
 50 55 60

Leu Lys Thr
 65

<210> 5742

<211> 54

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5742

Tyr Phe Lys Ile Phe Ser Arg Leu Tyr Arg Arg Leu Arg Cys Val Leu
 1 5 10 15

Leu Leu Thr Leu Lys Lys Phe Lys Leu Lys Ala Leu Ile Lys Phe Leu
 20 25 30

Ile Thr Gly Arg Gly Pro Arg Pro Val Ala Ala Phe Ala Pro Arg Leu
 35 40 45

Ala Lys Lys Lys Lys Asn
 50

<210> 5743

<211> 53

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5743

Phe Leu Arg Trp Met Gln Arg Leu Trp Lys Ile Ile Gln Thr Arg Arg
 1 5 10 15

Pro Arg Asn Arg His Leu Leu His Arg Ala Ala Gly Ile Lys Pro Gly
 20 25 30

Leu Leu Arg Thr Gln Leu Gln Lys Glu Leu Ala Lys Asn Arg Lys Arg
 35 40 45

Ala Lys Lys Pro Leu
 50

<210> 5744

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5744

Lys Met Arg Leu Tyr Arg Arg Leu Leu Arg Phe Tyr Gln Arg Arg Leu

1 5 10 15

Ala His Leu Cys Ala Ile Glu Leu Ser
20 25

<210> 5745
<211> 45
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 5745

Phe Phe Arg Phe Met Thr Lys Leu Phe Arg Lys Ile Arg Asn Ala Pro
1 5 10 15

Ala Ala Lys Asn Asn Met Ser Leu Leu Lys Arg Arg Tyr Lys Leu Arg
20 25 30

Glu Glu Ile Gly Leu Tyr Lys Arg Ala Ala Leu Arg Phe
35 40 45

<210> 5746
<211> 49
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 5746

Ile Leu Lys Leu Leu Lys Lys Trp Met Arg Lys Ile Lys Gln Trp His
1 5 10 15

Tyr Leu Arg Cys Cys Ala Asn Leu Val Ala Lys Leu Pro Cys Arg Lys
20 25 30

Ala Ala Ala Arg Tyr Arg Lys Leu Ser Lys Ala Ser Glu His Phe Leu
35 40 45

Cys

<210> 5747
<211> 86
<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5747

Lys Leu Arg Phe Leu Lys Arg Met Leu Lys Lys Leu Lys Lys Arg Glu
1 5 10 15

Ile Ala Ala Arg Ala Ala Arg His Thr Leu Leu Glu Leu His Lys Lys
20 25 30

Ala Lys Pro Ser Ile Arg Leu Thr Leu His Val Val Met Gly Gly Leu
35 40 45

Pro Arg Arg Phe Glu Trp Ala Tyr Lys Pro Ala Tyr Lys Cys Arg Trp
50 55 60

Leu Arg Gly Leu Lys Ser Arg Ala Cys Val Arg Asn Lys Leu Gly Thr
65 70 75 80

Lys Trp Asn Cys Thr Leu
85

<210> 5748

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5748

Phe Leu Arg Trp Phe Asn Arg Phe Ile Lys Lys Leu Gln Thr Ala Lys
1 5 10 15

Pro Leu Ala Arg
20

<210> 5749

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5749

Lys Leu Lys Phe Leu Cys Arg Phe Phe Lys Lys Phe Arg Pro Lys Leu
 1 5 10 15

Leu Lys Ala Leu Leu
 20

<210> 5750

<211> 62

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5750

Arg Met Arg Phe Phe Arg Lys Ile Met Lys Lys Tyr Asn Lys Lys Cys
 1 5 10 15

Lys Leu Phe Lys Asn Leu Ala Lys Lys Lys Ala Ala Ala Asn Ala Ala
 20 25 30

Phe Leu Val Leu Arg Ala Gly Ser Glu Leu Leu Cys Asn Ala Cys Leu
 35 40 45

Ser Tyr Arg Asn Leu Lys Lys Pro Glu Thr Ala Lys Trp Phe
 50 55 60

<210> 5751

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5751

Leu Leu Lys Phe Trp His Arg Met Phe Arg Met Leu Arg Arg Leu Cys
 1 5 10 15

Met Gly Ala Leu Lys Pro Gly Gln Ala Arg Arg His Arg Ala Leu Phe
 20 25 30

<210> 5752

<211> 45

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5752

Lys Phe Arg Met Tyr Ser Lys Met Trp Lys Ile Leu Lys His Asn Asn
 1 5 10 15

Ala Ile Arg Leu Leu Lys Leu Arg Ala Ser Trp Arg Met Lys Lys His
 20 25 30

Tyr Arg Trp Tyr Leu Ala Ala Lys Gly Ala Val Arg Leu
 35 40 45

<210> 5753

<211> 54

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5753

Arg Leu Lys Met Leu Arg Lys Leu Tyr Lys Leu Tyr Thr His Ala His
 1 5 10 15

Gly Asp Pro His Trp Arg Pro Ala Phe Arg Glu Leu Lys Arg Leu Tyr
 20 25 30

Asn Leu Leu Ser Met Tyr Leu Ala Leu Asp Arg Lys Thr Lys Arg Arg
 35 40 45

Ala Arg Val Tyr Lys Lys
 50

<210> 5754

<211> 92

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5754

Phe Leu Lys Leu Tyr Lys Lys Ile Leu Arg Lys Phe Arg Arg Ala Trp
 1 5 10 15

Leu Ala Gly Arg Ser Ala Arg Ala Cys Ala Asn Leu Gly Arg Met Ala

				20					25					30		
Lys	Leu	Lys	Thr	Arg	Thr	Ile	Lys	Arg	Ile	Tyr	Leu	Lys	Ala	Asn	Lys	
		35					40					45				
Ala	Cys	Arg	Thr	Trp	Leu	Lys	Cys	Tyr	Lys	Leu	Leu	Arg	His	Glu	Glu	
	50					55					60					
Arg	His	Glu	Cys	Arg	Arg	Tyr	Arg	Lys	Ser	Leu	Pro	Ala	Pro	Lys	Arg	
65					70					75					80	
Gly	Gly	Cys	Ala	Pro	Lys	Met	Val	Leu	Lys	Cys	Arg					
				85					90							

<210>	5755
<211>	43
<212>	PRT
<213>	Artificial Sequence
<220>	
<223>	Computer-generated peptide variant
<400>	5755

Phe Leu Lys Ile Phe Cys Arg Trp Ile Arg Lys Ile Pro Arg Ala Phe
1 5 10 15

Leu His Arg Leu Leu Leu Lys His Glu Lys Ile Arg Met Gly Lys Leu
20 25 30

Gly Arg Phe Leu Ser Lys Lys Ala Ile Lys Ala
35 40

<210>	5756
<211>	78
<212>	PRT
<213>	Artificial Sequence
<220>	
<223>	Computer-generated peptide variant
<400>	5756

Tyr Leu Lys Trp Leu Gln Lys Phe Leu Lys Arg Phe Arg Thr Gln Arg
1 5 10 15

Thr Ile Leu Ala Glu Phe Asn Trp Ala Ala Ala Cys Lys Lys Ile Ala
20 25 30

Ala Ser Trp Leu Leu Ala His Leu Ile Leu Asp Ala Lys Ser Ala Ala
 35 40 45

Thr Asn Lys Arg Phe Pro Ala Lys Ala Leu Asn Tyr Lys Lys Lys Ala
 50 55 60

Ala Lys Val Lys Lys Phe Val Lys Leu Pro Gln Leu Ala Lys
 65 70 75

<210> 5757
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5757

Ile Tyr Arg Leu Met Arg Lys Trp Leu Lys Phe Leu Arg Ser Lys Arg
 1 5 10 15

Ala Lys Tyr Ala Leu Lys Leu Arg Ala Gly Ile Lys Thr Met Ile Ser
 20 25 30

<210> 5758
 <211> 85
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5758

Arg Ile Arg Ile Leu Gln Arg Leu Ile Arg Phe Leu Arg Lys Gly Arg
 1 5 10 15

Arg Asn Ile Asp Ala Gly Ala Thr Tyr Arg Lys Met Ile Gly Leu Ala
 20 25 30

Ile Ala Ala Ala Met Ala Arg Arg His Arg Thr Pro Ala Lys Arg Leu
 35 40 45

Ala Val Arg Gln Ala Phe Leu Leu Leu Arg Lys His Leu Arg Leu Met
 50 55 60

Lys Ile Asp Ala Phe Arg Pro Asn Ala Ala Asn Leu Arg Leu Asp Gly

<220>
<223> Computer-generated peptide variant

Phe Phe Lys Leu Leu Arg Arg Trp Trp Lys Leu Phe Lys Gln Thr Lys
1 5 10 15

Ala Ile Leu Arg Ser Ala
35

<220>
<223> Computer-generated peptide variant

Arg Ile Arg Leu Trp Cys Lys Leu Leu Arg Leu Met Asn Arg Gln Glu
1 5 10 15

Ala Leu Pro Ile Arg Leu Lys Arg
35 40

<220>
<223> Computer-generated peptide variant

<400> 5761

Phe Phe Arg Phe Ile Lys Arg Met Leu Arg Leu Leu Lys Lys Glu Lys
1 5 10 15

Ile Lys Ala Arg Leu Ala Ala Ile Ile Lys Ala Cys Leu Val Lys Trp
20 25 30

Leu Ala Phe Lys Lys Ser Asn Glu Lys Cys Leu Ser Arg Met Gly Lys
35 40 45

Ala Arg Lys Ala Ile Leu Asp Lys Arg Trp Tyr Gln Ile Arg Ala Leu
50 55 60

Arg Val Asn Met Met
65

<210> 5762

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5762

Arg Tyr Arg Leu Leu Ser Lys Trp Leu Lys Leu Phe Lys Lys Arg Thr
1 5 10 15

Ser Ala Tyr Arg Leu
20

<210> 5763

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5763

Leu Met Arg Phe Tyr Lys Lys Ile Tyr Arg Leu Leu His Lys Arg Arg
1 5 10 15

Leu Ile Ala Arg Leu Arg Ala Thr Thr Ala Lys Leu
20 25

<210> 5764
 <211> 31
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5764

Arg Trp Arg Leu Phe Arg Lys Ile Leu Arg Phe Leu Arg Ser Cys Thr
 1 5 10 15

Lys Ala Gln Lys Lys Glu Arg Val His Leu Thr Ala Asp Ala Ala
 20 25 30

<210> 5765
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5765

Tyr Trp Arg Leu Leu Arg Lys Met Leu Arg Leu Phe Arg Asn Leu Pro
 1 5 10 15

Ala Thr Leu Gly Arg Arg Cys Ala Val
 20 25

<210> 5766
 <211> 60
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5766

Leu Met Arg Trp Leu Lys Arg Leu Trp Arg Arg Tyr Arg Arg Asn Lys
 1 5 10 15

Met Leu Ala His Asn Cys Arg Arg Arg Ala Lys Ala Ala Ser Trp Ala
 20 25 30

Ala Arg Val Leu Lys Lys Lys Ala Asn Trp Val Ala Trp His Gly His
 35 40 45

Leu Arg Arg Arg Pro Ala Ala Glu His Leu Ile Met
 50 55 60

<210> 5767
 <211> 50
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5767

Leu Met Lys Leu Leu Lys Lys Tyr Tyr Lys Arg Leu Gln Arg Arg Thr
 1 5 10 15

Gly Gly Pro Asp Leu Cys Arg Arg Lys Val Tyr Leu Asp Ser Thr Lys
 20 25 30

Lys Cys Ala Ala Gln Ala Lys Trp Asp Ala Ala Ile Ala Leu Ala Arg
 35 40 45

Leu Lys
 50

<210> 5768
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5768

Leu Ile Lys Phe Phe Asn Arg Phe Tyr Lys Arg Trp Arg Lys Arg Leu
 1 5 10 15

Glu Ala Leu Glu Ala Gly Ala Ile Leu Lys Thr Arg Ala Leu Ser Ala
 20 25 30

His Val Ala Gly
 35

<210> 5769
 <211> 44
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5769

Arg Phe Lys Phe Tyr Arg Arg Leu Ile Lys Trp Met Ser Lys Arg Ser
 1 5 10 15

Ala Trp Leu Pro Ala Arg Leu Lys Arg Asn Thr Trp Leu His His Leu
 20 25 30

Gln Ala Arg Leu Lys Lys Ala Arg Lys Leu Pro Tyr
 35 40

<210> 5770

<211> 71

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5770

Phe Tyr Lys Trp Leu Thr Lys Phe Phe Lys Tyr Met Arg Arg Lys Leu
 1 5 10 15

Arg Gln Arg Leu Ser Leu His Asp Arg Glu Lys Ala Lys Lys Pro Lys
 20 25 30

Gly Leu Lys Ala His Arg His Arg Arg Glu His Ala Leu Leu Phe Lys
 35 40 45

Ala Ala Ala Leu Tyr Pro Ser Ala Leu Asp Leu Tyr Pro Val Ile Ala
 50 55 60

Leu Cys Val Ala Lys Lys Leu
 65 70

<210> 5771

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5771

Met Trp Arg Ile Phe Arg Lys Leu Leu Arg Arg Met Lys Lys Leu Cys

1 5 10 15

Lys Leu Phe Trp His Asp Arg Arg Ile Trp Leu Gln Arg Ala Ala Ala
20 25 30

Gln Asn Leu Gly
35

<210>	5772
<211>	40
<212>	PRT
<213>	Artificial Sequence

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<220>
<223> Computer-generated peptide variant
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<400> 5772

Lys Met Arg Leu Tyr Asn Arg Ile Leu Lys Arg Leu Lys Asn Arg Arg
1 5 10 15

Leu Leu Ala Asp Cys Ala Arg Asn Ala Gly Lys Glu Asp Arg Asn Arg
20 25 30

Met Cys Arg Leu Leu Ala Pro Leu
35 40

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<210> 5773
<211> 25
<212> PRT
<213> Artificial Sequence
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<220>
<223> Computer-generated peptide variant

<400> 5773

Lys Leu Arg Trp Tyr Lys Lys Leu Tyr Lys Arg Leu Arg Lys Thr Ala
1 5 10 15

Ile Ala Glu Ala His Trp Lys Ala Pro
20 25

<210>	5774
<211>	49
<212>	PRT
<213>	Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 5774

Lys Leu Lys Leu Trp Lys Lys Leu Ile Lys Leu Phe Ser Arg Met Leu
 1 5 10 15

Ala Arg Lys Leu Asp Arg Gln Leu Ala Thr Lys Met Arg Met Arg Ala
 20 25 30

Ala Gly Leu Asn Pro Ala Cys Ser Ile Asp Arg Lys Arg Pro Asp Arg
 35 40 45

Gln

<210> 5775

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5775

Arg Tyr Lys Trp Phe Arg Lys Met Leu Lys Leu Ile Arg Arg Gly Met
 1 5 10 15

Lys Tyr Thr Met Pro Lys Lys Leu Glu Leu Ala Arg Ala Ala Leu Cys
 20 25 30

Arg Thr Ala
 35

<210> 5776

<211> 44

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5776

Ile Leu Arg Phe Leu Arg Lys Phe Leu Lys Lys Phe Asn Arg Lys Arg
 1 5 10 15

Leu Ala Ile Leu Met Ala Met Thr Ala Trp Gln Ala Leu Arg Arg Ala
 20 25 30

Ala Arg Trp Lys Trp Gln Leu Tyr Ala Gln Thr Trp
 35 40

<210> 5777
 <211> 45
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5777

Leu Tyr Arg Phe Leu Arg Arg Leu Leu Lys Arg Phe Arg Arg Leu Leu
 1 5 10 15

Pro Asn Leu Asn Ile Asn Leu Arg Glu Lys Asp Leu Gln Lys Asn Ala
 20 25 30

Arg Ile Thr Tyr Cys Ile Lys Lys Pro Arg Val Leu Arg
 35 40 45

<210> 5778
 <211> 41
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5778

Trp Leu Lys Leu Tyr Asn Lys Leu Phe Lys Tyr Tyr Lys Pro Leu Tyr
 1 5 10 15

Ala Thr Asp Ala Val Asp Leu Lys Gln Arg His Ser Lys Ala Thr Ile
 20 25 30

Arg Ser Arg Lys Arg Leu Arg Arg Ala
 35 40

<210> 5779
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5779

Tyr Phe Arg Leu Leu Arg Arg Leu Leu Lys Trp Leu Thr Lys Lys Arg
 1 5 10 15

Leu Phe Met Glu
 20

<210> 5780
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5780

Arg Met Arg Leu Tyr His Arg Trp Trp Lys Lys Ile Cys Lys Lys Leu
 1 5 10 15

Ala Cys Ala Lys Gln Gln Trp Arg Arg Asp Tyr Leu Trp Trp Leu Leu
 20 25 30

Arg Leu Leu Gly
 35

<210> 5781
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5781

Lys Ile Lys Met Phe Cys Lys Leu Tyr Arg Lys Trp Arg Gln Lys Ala
 1 5 10 15

Cys Asn Arg Leu Gln Leu Leu Glu Pro Trp Leu Leu Pro Leu Arg Ala
 20 25 30

Leu Phe

<210> 5782
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5782

Leu Tyr Lys Phe Leu Ser Arg Leu Met Lys Lys Tyr Arg Arg Trp Lys
 1 5 10 15

Leu Arg Ala Lys Met Arg Cys Ile Leu Ala Asp Arg Ala Lys Ala Asp
 20 25 30

Val Leu Arg
 35

<210> 5783

<211> 46

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5783

Phe Leu Lys Phe Phe Lys Lys Phe Ile Arg Ile Tyr Lys Lys Thr Ala
 1 5 10 15

Val Arg Ala Arg Met Ala Lys Arg Trp Ala Cys Tyr Ala Ala Leu Leu
 20 25 30

Tyr Thr Arg Gly Ala Ala Lys Arg Leu Ala Val Arg Thr Ala
 35 40 45

<210> 5784

<211> 31

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5784

Arg Met Lys Leu Leu Gln Arg Phe Leu Lys Ile Phe Pro His Ala Ile
 1 5 10 15

Leu Lys Leu Asp Arg Ala Met Phe Tyr Ala Lys Met Arg Leu Ala
 20 25 30

<210> 5785

<211> 64
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5785

Lys Tyr Arg Leu Trp Arg Arg Phe Phe Arg Trp Ile Lys Thr Glu Lys
 1 5 10 15

Thr Glu Ala Val Thr Leu Glu Ala Lys Lys Ser Leu Arg Ala Leu Leu
 20 25 30

Gly Lys Lys Ala His Cys Asn Arg Tyr Leu Leu Lys Val His Leu Met
 35 40 45

Val Ser Arg Phe Tyr His Leu Lys Leu Ala Leu Ala Lys Tyr Lys Leu
 50 55 60

<210> 5786
 <211> 54
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5786

Arg Tyr Lys Ile Leu Arg Lys Met Met Lys Lys Trp His Thr His Ala
 1 5 10 15

Arg Cys Arg Pro Leu Leu Ala Arg Asn Leu Asp Ala Lys Gly Leu Asn
 20 25 30

His Phe Ala Leu Ala Ala Leu Lys Pro Ala Lys Ser Gln Gln Asp Ile
 35 40 45

Leu Lys Lys Ala Ser Trp
 50

<210> 5787
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5787

Leu Ile Lys Tyr Phe Arg Lys Met Leu Lys Phe Leu Cys Ser Lys His
 1 5 10 15

Lys Lys Cys Ala Glu Lys Met Leu Ser Ala Ala Val Arg Lys Asn Lys
 20 25 30

Ala Val Ala Leu
 35

<210> 5788

<211> 38

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5788

Arg Trp Arg Met Leu Pro Lys Leu Leu Lys Trp Leu Pro Lys Tyr Ala
 1 5 10 15

Phe Ser Ser Ile Leu Gln Leu Ala Lys Asn Leu Leu Lys Leu Gln Arg
 20 25 30

Trp Ala Lys Arg Gln Trp
 35

<210> 5789

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5789

Lys Phe Arg Leu Phe Cys Lys Tyr Tyr Arg Lys Leu Gln Ser Ala Asp
 1 5 10 15

Gly Lys His Arg Leu Glu Leu Ala Ala Lys Leu Ile Ala Ser Glu Lys
 20 25 30

Lys Leu

<210> 5790
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5790

Lys Leu Lys Phe Leu Cys Lys Ile Phe Arg Tyr Met Gln Asn Ala Cys
 1 5 10 15

Lys Arg Ala Leu Arg Pro Leu Arg Ile
 20 25

<210> 5791
 <211> 94
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5791

Lys Phe Lys Met Ile Cys Lys Met Leu Lys Lys Met Lys Thr Cys Gln
 1 5 10 15

Leu Arg Arg Leu Lys Lys Arg Pro Gly Pro Asn Lys Arg Arg Ala Glu
 20 25 30

Ala Phe Pro Ala Thr Met Phe Lys Ala Pro Arg Asp Ala Trp Lys Leu
 35 40 45

Cys Pro Lys Arg Trp Leu Glu Glu Arg Ala Leu Ala Lys Gln Met Ala
 50 55 60

Ala Lys Lys Pro Ala Leu His Leu Ile Met Leu Ala Phe Arg Arg Cys
 65 70 75 80

Ala Lys Lys Lys Leu Cys Ala Gly Gly Leu Lys Gln Gln Ala
 85 90

<210> 5792
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5792

Arg Ile Arg Phe Leu Lys Lys Leu Trp Arg Arg Leu Arg Arg Arg Leu
 1 5 10 15

Lys Pro Leu His Ala Leu Ala His Ile Ala Ala Ala Glu Phe Cys Arg
 20 25 30

Ala Lys Ile
 35

<210> 5793

<211> 38

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5793

Lys Phe Arg Leu Trp Lys Lys Leu Leu Arg Phe Met Arg Arg Ala Leu
 1 5 10 15

Asp Ala Met Ser Ala Ala Met His Gly Met Lys Leu His Arg Gly Arg
 20 25 30

Ile Asn Val Asn Ala Leu
 35

<210> 5794

<211> 47

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5794

Lys Leu Lys Leu Ile Lys Arg Met Tyr Lys Trp Phe Lys Arg Arg Ala
 1 5 10 15

Cys Lys Leu Tyr Leu Gly Ala Phe Lys Met Arg Val Met Ala Ile Leu
 20 25 30

Tyr Ser Pro Asp Asn Trp Glu Ala Ala Leu Lys Glu Leu Arg Lys

35

40

45

<210> 5795

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5795

Phe Met Arg Leu Leu Lys Arg Leu Leu Arg Arg Ile Ser Thr Leu Lys
 1 5 10 15

Leu Gln Arg Ile Lys His Ser Gln
 20

<210> 5796

<211> 55

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5796

Arg Tyr Lys Tyr Leu Pro Arg Leu Met Arg Lys Leu Pro Arg Arg Ala
 1 5 10 15

Lys Asn Gly His Gln Cys Ala Leu Lys Thr Thr Arg Gly Tyr Arg His
 20 25 30

Lys Arg Ala Leu Ala Ala Tyr Ala Gly Ala Lys Ala Tyr Val Gln Ala
 35 40 45

Ile Ala Met Leu Ile Arg Glu
 50 55

<210> 5797

<211> 60

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5797

Leu Phe Arg Leu Leu Arg Arg Ile Phe Lys Ile Met Lys Arg Cys Leu

1				5					10					15		
Thr	Arg	Ala	Arg	Arg	Leu	Ala	Ala	Arg	Leu	Ala	Gly	Ala	Pro	Arg	Lys	
			20					25					30			
Arg	Ala	Lys	Met	Met	Arg	Phe	Val	Glu	Lys	Ala	Leu	Leu	His	Val	Gln	
		35					40					45				
Lys	Val	Ser	Ile	Ala	Ala	Lys	Met	Lys	Glu	Ile	Ile					
	50					55					60					

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<210> 5798
<211> 31
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 5798
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Lys Leu Lys Leu Ile Lys Lys Phe Phe Lys Ile Ile Arg Asn Leu Val
1 5 10 15

Glu His Tyr Arg Ser Arg Leu Ala Ala Arg Cys Lys Val Ala Ala
20 25 30

<210>	5799
<211>	32
<212>	PRT
<213>	Artificial Sequence
<220>	
<223>	Computer-generated peptide variant
<400>	5799

Lys Phe Arg Ile Ile Lys Arg Leu Tyr Lys Met Leu Asn Cys Arg Leu
1 5 10 15

Glu Ala Arg Ala Lys Arg Lys Cys Leu Leu Arg Ala Met Ala Gly Ser
20 25 30

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<210> 5800
<211> 45
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant
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<400> 5800

Leu Phe Arg Leu Met Thr Arg Phe Leu Arg Lys Leu Arg Pro Ala Phe
1 5 10 15

Glu Met Ser Lys Lys Asp Met Arg Ala His Arg Ala Tyr Asp Lys Gly
20 25 30

Leu Lys Ala Thr Leu Lys Arg Lys Glu Arg Ala Lys Leu
35 40 45

<210> 5801

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5801

Arg Leu Lys Met Leu Ser Lys Leu Phe Lys Lys Leu Asn Lys Tyr Asn
1 5 10 15

Arg Lys Ala Ser Ser Cys Arg Lys Tyr Thr Arg Phe Leu Ser Phe Ala
20 25 30

Asp Leu Gln Ala
35

<210> 5802

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5802

Arg Leu Arg Leu Leu Ser Lys Leu Phe Lys Arg Trp Arg Lys Gln Pro
1 5 10 15

Arg Ala Trp Leu Gly Leu Ser Leu Asp Ala Ala Gln Asp Ala Arg Leu
20 25 30

Lys

<210> 5803
 <211> 43
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5803

Lys Leu Lys Tyr Tyr Pro Arg Met Leu Arg Lys Leu Lys Gln Ile Gln
 1 5 10 15

Ala Leu Ala Phe Leu Lys Tyr Asn Ser Cys Arg Lys Arg Lys Arg Trp
 20 25 30

Ala Gln Asn Arg Ala Ala Thr His Ala Tyr Arg
 35 40

<210> 5804
 <211> 39
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5804

Tyr Phe Lys Phe Met Ser Arg Leu Ile Arg Leu Leu Asn Ser Arg Leu
 1 5 10 15

Lys Tyr Met Leu Arg Arg Arg Tyr Lys Ala His Arg Ala Leu Ala Asn
 20 25 30

Cys Ala Ala Glu Arg Ala Trp
 35

<210> 5805
 <211> 48
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5805

Lys Met Lys Phe Phe Lys Arg Phe Met Arg Leu Leu Asn Lys Leu Leu
 1 5 10 15

His Asn Arg Tyr Lys Ser Asn Leu Ala Ser Ser Trp Arg Thr Ser Ala
 20 25 30

Asp Ala Arg Lys Pro Met Ala Met Leu Leu Ala Leu Phe Leu Ala Arg
 35 40 45

<210> 5806

<211> 38

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5806

Arg Trp Arg Tyr Phe Asn Arg Leu Phe Lys Phe Leu Arg Asn Leu Ala
 1 5 10 15

Gly Cys Cys Ala Leu Thr Phe Ile Arg Leu Lys His Pro Leu Arg Arg
 20 25 30

Val Arg Leu Ala Ala Gly
 35

<210> 5807

<211> 78

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5807

Lys Ile Lys Met Met Lys Lys Met Phe Arg Arg Phe Ser Thr Pro Trp
 1 5 10 15

Arg Ala Arg Ala Ala Arg Ser Glu Arg Gly Trp Leu Ala Val Leu Gln
 20 25 30

Arg Lys Ala Pro Leu Pro Arg Phe Gly Leu Leu Phe Lys Trp Ile Arg
 35 40 45

Lys Cys Trp Leu Ala Arg Leu Arg Arg Tyr Leu Arg Ala Arg Glu Asp
 50 55 60

Pro Pro Ala Arg His Ser Arg Arg Leu Leu Thr Ala Gln Ala

<211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5811

Lys Met Lys Leu Leu Gln Arg Leu Met Lys Lys Trp Arg Lys Ala Leu
 1 5 10 15

Ala Cys Leu Trp Glu Leu Leu His Met Lys Lys Arg Ser Lys Cys Ala
 20 25 30

Val Thr Ala Gln Lys Ile Ala Leu
 35 40

<210> 5812
 <211> 87
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5812

Leu Phe Lys Phe Phe Arg Arg Leu Tyr Arg Phe Phe Lys Arg Glu Arg
 1 5 10 15

Leu Arg Ala Gly Leu Ala Ser Arg His Ile Thr Lys Asn Cys Lys Ile
 20 25 30

Ala Met Lys Leu Ala Ala Asn Asn Ala Met Pro Ala Arg Pro Glu Lys
 35 40 45

Lys Leu Met Arg Gln Cys Ala Gln Met Arg Lys Ile Ala Arg Trp Ser
 50 55 60

Gly Trp Ala Ala Lys Lys His Cys Glu Leu Arg Lys Ala Ala His Ser
 65 70 75 80

Ala Asp Ala Leu Arg Lys Glu
 85

<210> 5813
 <211> 31
 <212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5813

Leu Phe Lys Trp Met Arg Arg Phe Leu Arg Leu Trp Arg Arg Ile Leu
1 5 10 15

Lys Ala Glu Leu Met Lys Asp Arg Ala Met Leu Ser Thr Asp Ala
20 25 30

<210> 5814

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5814

Arg Ile Arg Leu Met Lys Lys Leu Trp Arg Lys Met Asn Lys Ala Ala
1 5 10 15

Lys Ala Ser Leu Ala Val
20

<210> 5815

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5815

Arg Leu Arg Tyr Leu Arg Arg Trp Leu Lys Arg Trp Ser Asn Asp Met
1 5 10 15

Leu Lys Lys Leu Leu Arg Gly Gly Leu Arg Ile Ala Leu Glu Arg Lys
20 25 30

Leu

<210> 5816

<211> 81

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5816

Trp Leu Lys Met Leu Lys Lys Leu Phe Arg Lys Leu Lys His Lys Leu
1 5 10 15

Leu Lys Pro Val Ala Asn Ala Arg Leu Cys Tyr Leu Gln Asn Leu Gln
20 25 30

Asp Arg Arg Arg Asp Thr Arg Trp Trp Cys Lys Leu Asp Phe Ala Cys
35 40 45

Tyr Ala Leu Lys Ala Ala Arg Leu His Met His Lys Gly Val Lys Leu
50 55 60

His Gly Gly Asn Ser Arg Gln Leu Ala Ala Leu Leu Val Leu Leu Leu
65 70 75 80

Tyr

<210> 5817

<211> 47

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5817

Ile Met Arg Phe Phe Arg Arg Leu Phe Arg Leu Leu Lys Arg Asn Lys
1 5 10 15

Val Arg Cys Leu Leu Leu Ala Lys Asn Lys Glu Ala Asn Met Gln Arg
20 25 30

Phe Asp Phe Leu Leu Ala Cys Met Glu Ala Lys Ala Arg Ser Trp
35 40 45

<210> 5818

<211> 52

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5818

Arg	Met	Arg	Met	Tyr	Arg	Arg	Phe	Tyr	Arg	Met	Leu	Lys	Arg	Ala	Met
1				5					10					15	

Ala	Arg	Leu	Ala	Glu	Ala	Lys	Leu	Arg	Thr	Ser	Asp	His	Arg	His	Phe
		20						25					30		

Leu	Arg	Pro	Gln	Gly	Trp	Ala	Val	Ala	Ala	Leu	Thr	Lys	Arg	Lys	Ala
		35				40						45			

Asn	Leu	Val	Val
	50		

<210> 5819

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5819

Ile	Trp	Arg	Ile	Leu	Arg	Arg	Leu	Met	Lys	Lys	Leu	Lys	Arg	Arg	Tyr
1				5					10					15	

Gln	Ser	Leu	Met	Ala	Leu	Arg	Gly	Cys	Ala	Leu	Ala	Pro
		20					25					

<210> 5820

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5820

Phe	Met	Arg	Leu	Leu	Lys	Arg	Leu	Phe	Lys	Arg	Met	Cys	Lys	Tyr	Glu
1				5					10					15	

Lys	Arg	Lys	Leu	Leu	Trp	Lys	Ala	Met	Gln	Lys	Leu	Leu	Ala	Glu	Phe
			20				25						30		

<210> 5821

<211> 27
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5821

Leu Phe Arg Leu Leu His Arg Ile Phe Lys Phe Ile Arg Lys Leu Arg
 1 5 10 15

His Ala Met Lys Tyr Leu Arg Ala Cys Asp Glu
 20 25

<210> 5822
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5822

Ile Leu Arg Leu Trp Arg Lys Ile Trp Lys Lys Trp Arg Arg Gln Met
 1 5 10 15

Leu Tyr Lys Gly Ala Leu Ile Lys Met Arg Phe Pro Arg Ala Lys Phe
 20 25 30

Leu Ala Trp Glu Val Ala Gln Leu
 35 40

<210> 5823
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5823

Leu Leu Arg Phe Phe Arg Lys Ile Leu Arg Lys Ile His Arg Lys Leu
 1 5 10 15

Val Lys Tyr Leu Leu Leu Gln Gly Arg Trp His Gly Leu Lys Leu Pro
 20 25 30

<210> 5824

<211> 37
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5824

Lys Leu Arg Leu Leu Lys Arg Phe Trp Lys Leu Leu Lys Gln Phe Thr
 1 5 10 15

Ala Ala Ile Arg Arg His Gly Trp Lys Pro Phe Arg Gly Gly Asn Leu
 20 25 30

Tyr Lys Ala Tyr Lys
 35

<210> 5825
 <211> 46
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5825

Arg Leu Lys Ile Leu Thr Arg Leu Leu Arg Arg Ile Lys Lys Asn Leu
 1 5 10 15

Leu Lys Leu Leu Leu Gln Val Leu Val Ala His Leu Asn Leu Gly Ala
 20 25 30

Ile Lys Ala Met Arg Ser Phe Arg Tyr Arg Asn His Pro Leu
 35 40 45

<210> 5826
 <211> 99
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5826

Arg Leu Lys Ile Phe Lys Arg Leu Phe Arg Phe Leu Lys Thr Phe Leu
 1 5 10 15

Pro Gln Leu Arg Ala Asp Lys Asp Arg Ala Arg Gly Arg Asp Tyr Lys

20

25

30

Ser Ala Ala Leu Gly Cys Leu Gln Ser Gly Ala Cys Trp Trp Cys Cys
 35 40 45

Arg Arg Ala Leu Lys Gly His Leu Arg Ser Trp Ser Ala Thr Lys His
 50 55 60

Lys Ala Lys Arg Ser Trp Lys Cys Arg Lys Ala Leu Val Leu Arg Met
 65 70 75 80

Leu Leu Lys Asp Ala Arg His Thr Ala Tyr Arg Gly Ala Leu Arg Lys
 85 90 95

Lys Pro Ala

<210> 5827

<211> 78

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5827

Lys Leu Arg Leu Phe Cys Arg Met Leu Arg Lys Tyr Arg Ser Ala Lys
 1 5 10 15

Ile Ser Ala Asn Cys Thr Trp Val Ser Tyr Cys Arg Val Tyr Ala Pro
 20 25 30

Leu Leu Leu Phe Ser Asp Arg Glu Asn Lys Lys Ala Met Leu Leu Lys
 35 40 45

Arg Pro Asp Ala His Arg Lys Gly Pro Arg Glu Ala Leu Tyr Leu Arg
 50 55 60

Arg Ala Lys Lys Gly Arg Pro Leu Ala Lys Ala Asp Tyr Lys
 65 70 75

<210> 5828

<211> 67

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5828

Arg	Ile	Lys	Trp	Phe	Arg	Arg	Phe	Trp	Lys	Lys	Ile	Arg	Gln	Gly	Leu
1				5					10					15	

Ala	Leu	His	Arg	Ala	Phe	Leu	Phe	Gly	Arg	Lys	Trp	Arg	Cys	Leu	Leu
			20					25					30		

Lys	Tyr	Arg	Leu	Val	Thr	Asn	Leu	Phe	Ser	Leu	Leu	Asn	Arg	Gln	Ser
		35					40					45			

Lys	Arg	Phe	Thr	Met	Leu	Lys	Arg	Leu	Ala	Thr	Asn	Ala	Leu	Leu	Leu
	50					55					60				

Leu	Lys	Lys
65		

<210> 5829

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5829

Leu	Ile	Lys	Tyr	Tyr	Arg	Lys	Tyr	Trp	Lys	Arg	Leu	Arg	Lys	Ala	Ala
1				5					10					15	

Arg	Thr	Leu	Ser	Ala	Phe	Ala	Ala	Ile	Ser	Thr	Asn	Tyr
			20					25				

<210> 5830

<211> 84

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5830

Lys	Met	Lys	Tyr	Trp	Asn	Lys	Phe	Tyr	Arg	Arg	Leu	Pro	Arg	Ala	Ala
1				5					10					15	

Ala	Arg	Arg	His	Pro	Ala	Ala	Leu	Trp	Arg	Met	Met	Trp	Ala	Leu	His
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

20						25						30					
Leu	Arg	Thr	Ala	Tyr	Lys	Leu	Val	Leu	Ser	Ile	Leu	Asp	Arg	Arg	Arg		
		35					40					45					
Gln	Gly	Gly	Ala	Leu	Phe	Lys	Glu	Ala	Arg	Gln	Ala	Ile	Gly	Arg	Ala		
	50					55					60						
Lys	Phe	Lys	Arg	Asn	Ala	Thr	Ala	Ala	His	Ile	Tyr	Ala	Ala	Leu	Ala		
65					70					75					80		

Ala Met Ile Lys

<210>	5831
<211>	31
<212>	PRT
<213>	Artificial Sequence
<220>	
<223>	Computer-generated peptide variant
<400>	5831

Lys Met Lys Phe Leu His Arg Ile Leu Lys Met Trp Arg Lys Cys Lys
1 5 10 15

Lys Thr Ala Ala Cys Ala Cys Gln Phe Leu Leu Glu Lys Lys Leu
20 25 30

<210>	5832
<211>	45
<212>	PRT
<213>	Artificial Sequence
<220>	
<223>	Computer-generated peptide variant
<400>	5832

Lys Tyr Lys Met Met Arg Arg Leu Leu Arg Arg Ile Pro Arg Ala Lys
1 5 10 15

Cys Ala Tyr Ala Leu Pro Gly Glu Thr Tyr Thr Ala Gly Lys Pro Lys
20 25 30

Ala Trp Arg Lys Arg Ala Met Ala Ala Arg Asn Cys Ile
35 40 45

<210> 5833
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5833

Arg Leu Arg Leu Phe Thr Arg Phe Leu Arg Lys Leu Lys Arg Ala Ala
 1 5 10 15

Asp Trp Ala Gln Lys Arg Lys Ala Ser Arg Ala Cys
 20 25

<210> 5834
 <211> 76
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5834

Arg Leu Lys Leu Trp Lys Lys Leu Met Arg Arg Leu Arg Lys His His
 1 5 10 15

Gln Pro Lys Ala Thr Arg Leu Pro Ser Val Leu Arg Ala Ala Ser Leu
 20 25 30

His Glu Asp Ile Ala Phe Ser Cys Ala Gly Lys Val Gly Asn Trp Ala
 35 40 45

Ala Lys Arg Leu Phe Arg Asp Pro Asn Glu Lys Lys Val Ala Ala Pro
 50 55 60

Ala Arg Trp Arg Cys Val Arg Lys Lys Gly Arg Arg
 65 70 75

<210> 5835
 <211> 45
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5835

Lys Phe Arg Ile Met Arg Arg Ile Leu Lys Arg Phe Asn Lys Lys Ala
 1 5 10 15

Lys Leu Leu Glu Lys Gln Trp Pro Leu Gly Leu Pro Ala Phe Gly Lys
 20 25 30

Arg Ser Leu Glu Asn Lys Leu Trp Ala Leu Ala Ser Pro
 35 40 45

<210> 5836
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5836

Leu Tyr Arg Leu Ile Thr Arg Trp Leu Arg Lys Leu Thr Pro Cys Asn
 1 5 10 15

Leu Lys Trp Arg Ala Thr Ala Trp Leu Arg Ser Arg Arg
 20 25

<210> 5837
 <211> 37
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5837

Lys Phe Arg Trp Leu Arg Lys Ile Leu Lys Phe Leu Arg Arg Ala Met
 1 5 10 15

Gly Ala Tyr Ser Arg Asn Gly Arg Ala Lys Arg Ile Leu His Leu Ala
 20 25 30

Ser Met Lys Trp Tyr
 35

<210> 5838
 <211> 42
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5838

Arg Phe Arg Leu Leu Lys Arg Leu Leu Arg Trp Ile Pro Arg Ala Leu
 1 5 10 15

Asn Ala Ala Trp His Lys Arg Leu Arg Leu Arg Ser Val Cys Arg Ser
 20 25 30

Ala Ala Tyr Gly Lys Tyr Lys Tyr Leu Val
 35 40

<210> 5839

<211> 72

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5839

Met Leu Lys Leu Leu Asn Arg Phe Leu Arg Arg Phe Arg Lys Leu Thr
 1 5 10 15

Cys Leu Trp Leu Val Ala Cys Pro Arg Ala Tyr Ala Lys Gln Ala Met
 20 25 30

His Lys Asn Ile Tyr Gly Ala Arg His Leu Lys Pro Ala Leu Gly Lys
 35 40 45

Trp Lys Thr Lys Ile His Arg Met Val Ala Leu Ala Leu Tyr Gln Ala
 50 55 60

Glu Lys Ala Glu Tyr Arg Ala Leu
 65 70

<210> 5840

<211> 90

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5840

Ile Leu Lys Leu Phe Lys Lys Phe Phe Arg Lys Ile Lys Lys Ala Asp

1					5					10					15				
Tyr	Asp	Leu	Ala	Leu	Glu	Val	Lys	Arg	Lys	Leu	Arg	Asn	Asn	Trp	Ala				
			20				25						30						
Cys	Arg	Lys	Leu	Lys	Asn	Ala	Ala	Leu	Ala	Lys	Ala	Lys	Pro	Cys	Leu				
		35				40						45							
Arg	Thr	Leu	Arg	Met	Gly	Arg	Lys	Lys	Asn	Tyr	Pro	Thr	Lys	Thr	Ala				
50					55						60								
Gly	Gly	Ala	Pro	Leu	Leu	Glu	Lys	Ala	His	Leu	Arg	Leu	Ala	Asn	Leu				
65				70						75						80			
Leu	Leu	Lys	Ala	Ala	Ile	Asp	Arg	Leu	Arg										
				85			90												

<210>	5841
<211>	43
<212>	PRT
<213>	Artificial Sequence
<220>	
<223>	Computer-generated peptide variant
<400>	5841

Lys Leu Lys Leu Leu Arg Lys Leu Leu Lys Tyr Ile Arg Lys Val Gln
1 5 10 15

Leu Ala Ala Lys Arg Thr Lys Ala Ala Ser Leu Arg Leu Phe Trp Ala
20 25 30

Asp Phe Gln Ile Phe Tyr Val Glu His Arg Met
35 40

<210>	5842
<211>	94
<212>	PRT
<213>	Artificial Sequence
<220>	
<223>	Computer-generated peptide variant
<400>	5842

Ile Phe Lys Leu Phe Arg Arg Leu Leu Arg Arg Trp Arg Lys Ala Gln
1 5 10 15

Tyr Ala Lys Phe Cys Gly Val Gln Leu Thr Met Ala Phe Ala His His
 20 25 30

Leu Lys Trp Lys Leu Ala Phe Arg Leu Lys Leu Leu Ala Arg Ala Lys
 35 40 45

Ala Lys Trp Val Phe Arg Glu Gly Asp Gln Pro Gln Tyr Leu Ala Lys
 50 55 60

Lys Trp Ala Arg Gln Phe Arg Arg Ala Lys Gly Leu Lys Arg Lys Arg
 65 70 75 80

His Leu Met Ala Ala Arg Ala Ala Tyr Arg Lys Val Met Lys
 85 90

<210> 5843
 <211> 54
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5843

Lys Met Arg Leu Ile Cys Arg Leu Trp Lys Arg Trp Arg Arg Ser Lys
 1 5 10 15

Leu Met His Cys Gly Pro Ala Gly Ala Leu Ser Leu Lys Leu Glu Arg
 20 25 30

Ala Arg Tyr Ala Glu Ala Lys Gly Leu Ala Lys Glu Asp Gln Ala Leu
 35 40 45

Thr Arg Trp Lys Met Ala
 50

<210> 5844
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5844

Arg Tyr Lys Leu Trp Asn Arg Ile Leu Lys Phe Phe Lys Pro Gly Arg

1 5 10 15

Arg Arg Lys Ala Asp Ala Ala Trp Leu Arg Lys Leu Leu Leu Ile Lys
 20 25 30

His Met Gln Trp
 35

<210> 5845
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5845

Arg Tyr Lys Leu Leu Lys Lys Leu Phe Arg Leu Leu Pro Lys Gln Leu
 1 5 10 15

Ile Asp Ala Asp
 20

<210> 5846
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5846

Met Trp Lys Ile Leu Lys Arg Leu Leu Lys Arg Met Arg Lys Trp Cys
 1 5 10 15

Ala Leu Thr Asn Asn
 20

<210> 5847
 <211> 43
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5847

Arg Met Lys Leu Met Thr Lys Leu Leu Lys Met Leu Arg Arg Asn Ala

1 5 10 15

Ala Arg His Asp Lys Leu Lys Asn Lys Arg Thr Ala Lys Lys Pro Ala
20 25 30

Arg Asp Glu Arg Ala Arg Pro Ala Ala Gly Glu
35 40

<210> 5848

<211> 80

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5848

Ile Leu Lys Phe Met Cys Lys Met Met Arg Lys Trp Lys Lys Ile Ala
1 5 10 15

Leu Arg Arg His Glu Gln Leu Lys Lys Leu Leu Phe Leu Gly Leu Gly
20 25 30

Lys Arg His Lys Ala Leu His Thr Pro Val Leu Arg Val Asp Ile Leu
35 40 45

Phe Trp Leu Thr Arg Leu Arg Leu Leu Arg Arg Lys Met Asp Ala Lys
50 55 60

Lys Leu Trp Tyr Val Lys Cys Ala Asp Arg Arg Lys Gly Lys Gln Leu
65 70 75 80

<210> 5849

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5849

Lys Leu Lys Leu Leu Arg Arg Phe Leu Arg Trp Phe His Lys Ile Pro
1 5 10 15

Glu Ala Ala Arg Cys Tyr Leu
20

<210> 5850
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5850

Arg Phe Lys Leu Leu Arg Lys Met Phe Arg Lys Ile Arg Ser Ala Gln
 1 5 10 15

Asp Cys Lys Ala Pro Met Ala Ala Ala Ala Lys Ala Ala Tyr Ile Ala
 20 25 30

Arg Pro Ala Glu Lys Pro Lys Phe
 35 40

<210> 5851
 <211> 26
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5851

Arg Leu Arg Phe Met Arg Lys Tyr Leu Arg Arg Met Arg Thr Leu Ala
 1 5 10 15

Arg Gly Thr Tyr Glu Trp Cys Ala Ala Leu
 20 25

<210> 5852
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5852

Leu Leu Lys Ile Trp Lys Arg Phe Phe Arg Trp Leu Lys Arg Ala Leu
 1 5 10 15

Trp Phe Gln Tyr Ala Phe Arg Ala Gln Val Ala Ala Arg Trp Ser Leu
 20 25 30

Leu Tyr Lys Arg
35

<210> 5853
<211> 98
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 5853

Leu Phe Arg Met Leu Thr Arg Phe Phe Lys Lys Trp Lys Arg Leu Cys
1 5 10 15

Leu Arg Asn Ile Leu Lys Val Ala Ala Ser Leu Lys Lys Pro Lys Gly
20 25 30

Val Lys Val Glu Asn Tyr Leu Leu Cys Ala Cys Cys Glu Ile Leu Gln
35 40 45

Glu Leu Leu Ile Ala Ala Lys Leu Lys Lys Cys Ile Ala Lys Cys Arg
50 55 60

Arg Leu Leu Cys Gln Met Met Ala Pro Lys Asn Lys Lys Ile Ser Glu
65 70 75 80

Lys Arg Leu Phe Lys Leu Phe Pro His Lys Lys Leu Ala Ala Ile Lys
85 90 95

Ala Ala

<210> 5854
<211> 44
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 5854

Leu Trp Arg Ile Leu Arg Lys Leu Leu Lys Phe Leu Lys Cys Val Ala
1 5 10 15

Lys Gln Lys Ala Val Ala Ala Ala Gly Ala Ala Arg Val Ser Gln Thr

20

25

30

Lys Arg Ala Glu Ala Arg Val Val Arg Val Leu Lys
 35 40

<210> 5855

<211> 43

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5855

Arg Leu Arg Phe Leu Ser Arg Leu Tyr Lys Trp Trp Arg Lys Ser His
 1 5 10 15

Lys Arg Leu Glu Leu His Ala Lys Ala Val Thr Arg Ala Arg Leu Ala
 20 25 30

Ala Cys Ser His Ile Arg Glu Ala Ala Lys Arg
 35 40

<210> 5856

<211> 71

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5856

Phe Tyr Lys Leu Tyr Lys Arg Phe Phe Arg Leu Trp Lys Arg Ala Arg
 1 5 10 15

Asp Gly His Lys Lys Trp Ala Leu Ala Lys Met Ile Ala Ala Leu Tyr
 20 25 30

Ser Phe Gly Arg Tyr Leu Leu Gln Ala Lys Leu Ala Ala Ala Gln Lys
 35 40 45

Lys Asp Lys Leu Gly Glu Lys His Leu Asp Ala Lys Ala Arg Ala Gly
 50 55 60

Trp Val Tyr Lys Ala Lys Glu
 65 70

<210> 5857
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5857

Arg Leu Arg Ile Phe Arg Arg Ile Met Lys Leu Leu Asn Lys His Phe
 1 5 10 15

Met Pro Lys Val Arg Asp Tyr Ala Leu Trp Arg Glu Ala Phe Leu Ala
 20 25 30

Arg Lys Leu Ala Arg Leu Ile Tyr
 35 40

<210> 5858
 <211> 63
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5858

Lys Tyr Lys Tyr Leu Lys Lys Tyr Tyr Arg Arg Phe Arg Pro Leu Arg
 1 5 10 15

Thr Trp Lys Arg Ala Thr Ser Glu Ile Lys Lys Asp Trp Cys Lys Lys
 20 25 30

Asn Ala Ala Ala Arg His Arg Leu Ala Ala Gln Leu Trp Asn Lys Ala
 35 40 45

Leu Lys Val Trp Lys Leu Val Ile Leu Arg Ala Asn Gln Ala Thr
 50 55 60

<210> 5859
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5859

Met Met Arg Leu Ile His Arg Trp Leu Lys Trp Met Arg Arg Phe Gln
 1 5 10 15

Ala Ser Pro Ala Leu Phe Leu Met Ala Met Glu Lys Ala Arg Ala Arg
 20 25 30

Arg Lys

<210> 5860
 <211> 69
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5860

Met Phe Lys Leu Leu Asn Arg Leu Trp Arg Met Leu Lys Arg Asn Ala
 1 5 10 15

Phe Ile Glu Trp Val Lys Val Ala Ala Val Lys Ala Pro Val Lys Lys
 20 25 30

Ala Ala Lys Ser Ala Glu His Leu Ala Ala Leu Leu Phe Leu Phe Leu
 35 40 45

His Cys Trp Lys Leu Lys Ala Lys Met Ser Arg Ala Lys Arg Leu Lys
 50 55 60

Ala Asp Glu Lys Tyr
 65

<210> 5861
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5861

Lys Leu Arg Leu Leu Arg Lys Ile Leu Arg Phe Phe Arg Gln Val Ala
 1 5 10 15

Ala Ala Leu Pro Lys Arg Arg Met Leu Met Glu Gln Trp Arg Leu Arg

20

25

30

Cys Phe Asp
35

<210> 5862

<211> 64

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5862

Arg Leu Arg Met Trp Asn Lys Met Phe Arg Phe Leu Ser Arg Asp Arg
1 5 10 15

Lys Asn Ala Gln Lys Ala Leu Gly Trp Met Arg Leu Arg Arg Leu Ala
20 25 30

Leu Met Glu Gly Ala Ser Gly Arg Gly Gly Ser Lys Trp Thr Ala Lys
35 40 45

Leu Thr Lys Lys Arg Arg Cys Leu Arg Ala Ser Met Lys Leu Arg Asp
50 55 60

<210> 5863

<211> 86

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5863

Tyr Phe Arg Trp Phe Arg Lys Leu Leu Lys Lys Leu Ser His Ser Glu
1 5 10 15

Val Leu Pro Phe Lys Ala Leu Gln Asn Trp Leu Leu Ala Pro His Lys
20 25 30

Leu Leu Ala Leu Pro Leu Lys Lys Val Lys Lys Arg Ala Ala Tyr Glu
35 40 45

Leu Met Tyr Glu Ala Lys Val Arg Leu Met Arg Arg Gln Ala Lys Lys
50 55 60

Arg Ser Asn Lys Pro Val Leu Cys Arg Ala Ile Asn Asn Glu Cys His
 65 70 75 80

Arg Arg Gln Ala Ala Leu
 85

<210> 5864
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5864

Arg Trp Lys Ile Trp Arg Arg Leu Trp Arg Lys Ile Asn Lys Arg Pro
 1 5 10 15

Pro Asn Ala Leu Leu Ala Arg Ala Ala Leu Ala Leu Arg Met Lys Thr
 20 25 30

<210> 5865
 <211> 58
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5865

Arg Leu Lys Tyr Leu Lys Arg Phe Leu Arg Leu Leu Thr His Ile Cys
 1 5 10 15

Met Asp Tyr Ile Ala Leu Cys Cys Lys Leu Lys Ile Lys Lys Lys Ile
 20 25 30

Arg Ile Leu Asn Met Arg Arg Cys Asp Leu Glu Lys His Lys Arg Ala
 35 40 45

Leu Ala Thr Leu Cys Val Ile Lys Lys Tyr
 50 55

<210> 5866
 <211> 27
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5866

Trp	Trp	Lys	Leu	Met	Thr	Arg	Leu	Leu	Lys	Trp	Phe	Arg	Gln	Asn	Arg
1				5					10					15	

Ala	Leu	Phe	Leu	Cys	Arg	Leu	Ala	Arg	Lys	Lys
			20					25		

<210> 5867

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5867

Leu	Phe	Arg	Leu	Met	Ser	Lys	Phe	Trp	Lys	Leu	Phe	Pro	Lys	Ala	Tyr
1				5					10					15	

His	Leu	Leu	Leu	His	Lys	Glu	Leu	Lys	Gly	Leu	Arg	Ala	Lys	Cys	Phe
			20					25					30		

Pro	Lys	Phe	Leu
			35

<210> 5868

<211> 38

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5868

Lys	Trp	Arg	Leu	Phe	Arg	Lys	Trp	Phe	Lys	Arg	Trp	Arg	Arg	Leu	Lys
1				5					10					15	

His	Leu	Leu	Arg	Leu	Glu	Arg	Ala	Met	Leu	Phe	Lys	Pro	Leu	Gly	Leu
			20					25					30		

Cys	Leu	Ala	Gln	Ala	Tyr
					35

<210> 5869

<211> 60
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5869

Leu Leu Lys Leu Tyr Lys Arg Met Leu Lys Lys Ile Thr Thr Asp Glu
 1 5 10 15

Ala Arg Glu Glu Leu Ala Gly Leu Arg Lys Ala Asn Gln Ala Val Ala
 20 25 30

Cys Met Lys Arg Gly Lys Ile Gly Met Ala Asp Leu Arg Ser Ala Lys
 35 40 45

Ser Ala Lys Met Leu Gln Met Asn Arg Met Ala Leu
 50 55 60

<210> 5870
 <211> 66
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5870

Trp Phe Lys Phe Phe His Arg Leu Met Arg Met Met Arg Thr Tyr Thr
 1 5 10 15

Ala Arg Arg Lys Leu Arg Leu Pro Leu Arg Lys Phe Leu Arg Arg Lys
 20 25 30

Lys Ala Lys Lys Leu Ser Leu Cys Lys Ser Ala Ala Tyr Lys Lys Met
 35 40 45

Leu Gln Gln Arg Ala Ile Ala Asp Gly Ala Lys Asn Phe His Leu Leu
 50 55 60

Arg Leu
 65

<210> 5871
 <211> 32
 <212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5871

Lys Tyr Arg Met Leu Lys Arg Leu Leu Arg Lys Tyr Cys Lys Met Gly
1 5 10 15

Glu Lys Ala Ser Ser Pro Arg Thr Pro Pro Leu Leu Thr Leu Ala Lys
20 25 30

<210> 5872

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5872

Lys Met Lys Ile Leu Lys Arg Leu Phe Lys Lys Phe Lys Lys Gln Leu
1 5 10 15

Ala Pro Gln Gln Ala Asp Ser Leu Pro Ala
20 25

<210> 5873

<211> 44

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5873

Tyr Leu Arg Leu Phe Arg Lys Leu Leu Lys Ile Leu Pro Ser Tyr Leu
1 5 10 15

Lys Gly Ala Gln Arg Ala Lys Glu Lys Lys Ile Ile Cys Tyr Lys Leu
20 25 30

Ala Tyr Leu Thr Gly Arg Leu Ser Leu Arg Asn Lys
35 40

<210> 5874

<211> 54

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5874

Phe Leu Lys Phe Phe Cys Lys Tyr Leu Arg Met Leu Lys Lys Cys Met
1 5 10 15

Leu Leu Leu Arg Thr Leu Glu Trp Tyr Arg Ala Ile Pro Leu Arg Ala
20 25 30

Glu Lys Pro Tyr Cys His Arg Gly Leu Lys Ala Ala Lys Ile Pro Trp
35 40 45

Lys Ala Arg Ala Asp Arg
50

<210> 5875

<211> 48

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5875

Lys Phe Arg Leu Leu Gln Arg Trp Phe Lys Trp Phe Lys Lys Arg Phe
1 5 10 15

Lys Arg Lys Ala Ala Asp Cys Leu Ile Asn Leu Ala Met Lys Arg Ala
20 25 30

Leu His Ile Leu Val Ser Asp Val Arg Lys Trp Ala Arg Thr Arg Leu
35 40 45

<210> 5876

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5876

Lys Leu Lys Phe Leu Ser Arg Phe Met Arg Arg Trp Ser Pro Leu Leu
1 5 10 15

His Arg Leu Arg Pro Ala Phe Phe Gln Leu Ala Leu Glu
 20 25

<210> 5877
 <211> 27
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5877

Leu Ile Arg Phe Leu Lys Arg Phe Trp Lys Lys Leu Gln Thr Ala Lys
 1 5 10 15

Phe His Tyr Ala Leu Glu Lys Ser Pro Leu Arg
 20 25

<210> 5878
 <211> 49
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5878

Arg Phe Arg Phe Met Gln Lys Leu Leu Arg Leu Trp Arg Lys Ala Ala
 1 5 10 15

Glu Leu Ala Ala Asn Ala Leu Arg Lys Asp Phe Gln Lys Gln Ala Val
 20 25 30

Pro Tyr Phe Tyr Thr Ile Met Gly Arg Lys Phe Lys Asn Lys Lys Ala
 35 40 45

Leu

<210> 5879
 <211> 84
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5879

Phe Tyr Arg Phe Phe Cys Lys Phe Leu Arg Lys Leu Cys Arg Ala Ala
 1 5 10 15

Ile Ala Ala Gly Lys His Thr Lys Ala Arg Ala Lys His Ala Ala Arg
 20 25 30

His Ser Lys Arg Phe Leu Gln Gly Gln Lys His Tyr Arg Glu Leu Thr
 35 40 45

Leu Phe Ala Arg Ala Lys Gly Leu Arg Thr Lys Arg Ala Ser Pro Ala
 50 55 60

Leu Lys Ala Leu Lys Gln Asn Glu Arg Asn Phe Ile Ala Asn Phe Ala
 65 70 75 80

Ile Leu Leu Ala

<210> 5880
 <211> 26
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5880

Leu Phe Lys Phe Leu His Lys Trp Leu Lys Arg Phe Lys Arg Asn Gly
 1 5 10 15

Ser Leu Ala Lys Leu Ala Lys Ile Phe His
 20 25

<210> 5881
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5881

Arg Ile Lys Leu Leu Lys Lys Met Phe Lys Lys Tyr Lys Thr Pro Arg
 1 5 10 15

Ala Arg Leu Pro Phe Ala Leu His His Leu Ala Tyr Ala Arg Trp Leu

20

25

30

Cys Thr Gln Val Trp Leu Tyr Arg
 35 40

<210> 5882
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5882

Phe Leu Lys Leu Phe Gln Lys Phe Phe Arg Leu Leu Thr Gln Lys Ala
 1 5 10 15

Leu His Lys Ala Lys Ile Lys Phe
 20

<210> 5883
 <211> 56
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5883

Lys Phe Arg Phe Leu Arg Lys Leu Trp Lys Lys Tyr Lys Ser Tyr Ala
 1 5 10 15

Lys Lys Trp Lys Leu Ala Ala Gln Ala Ile Phe Cys Leu Ala Trp Leu
 20 25 30

Tyr Ala Arg Ala Ala Leu Arg Gln Val Ile Asp Ala Asn Cys Gly Asp
 35 40 45

Ala Leu Glu Lys Leu Gly Lys Glu
 50 55

<210> 5884
 <211> 60
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5884

Leu Ile Arg Leu Leu Cys Lys Leu Ile Lys Lys Tyr Arg Cys Leu Gln
1 5 10 15

Thr Ser Glu Ala Arg Gln Arg Arg Leu Tyr Val Tyr Ala Lys Tyr Ala
20 25 30

Leu Leu Ala Ala His Lys Asn Leu Arg Leu Leu Met Arg Met Arg Tyr
35 40 45

Gly Asp Lys Cys Lys Arg Cys Phe Asn Arg Phe Ala
50 55 60

<210> 5885

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5885

Arg Leu Lys Leu Tyr His Arg Leu Leu Lys Tyr Tyr Lys Lys Ile Leu
1 5 10 15

Lys Tyr Asn Lys Leu Phe Asp Thr
20

<210> 5886

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5886

Leu Leu Arg Trp Met Lys Lys Leu Phe Arg Lys Leu Asn Lys Ala Pro
1 5 10 15

Cys Arg Leu Ala Met Lys Lys Glu
20

<210> 5887

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5887

Lys Phe Lys Trp Leu Gln Arg Leu Leu Lys Lys Tyr Arg Lys Leu Val
1 5 10 15

Arg Cys Trp Met Tyr Ala Gln Arg Ala Leu Pro Ala
20 25

<210> 5888

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5888

Lys Leu Lys Ile Leu Gln Arg Leu Met Arg Phe Phe Arg Arg Ala Val
1 5 10 15

Ile Ala Asn Asn Ala Ala Leu Arg His
20 25

<210> 5889

<211> 61

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5889

Leu Tyr Arg Phe Phe Cys Arg Tyr Leu Arg Leu Phe Arg Lys Arg Ala
1 5 10 15

Tyr Ala Val Ser Leu Arg Arg Arg Ala Arg Ala His Asn Ala Leu Gly
20 25 30

Leu Ala Leu Ala Ile Asp Ser Arg Lys Met Ala Trp Arg His Arg His
35 40 45

Lys Ala Asn Lys Glu Ile Leu Asp Arg Arg Leu His Pro
50 55 60

<210> 5890
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5890

Arg Leu Lys Tyr Met Thr Lys Trp Leu Arg Met Tyr Asn Lys Lys Trp
 1 5 10 15

Leu Gly Lys Ala Leu Arg Ile Lys Ile Ala Leu Tyr Ala Leu Lys Leu
 20 25 30

Thr Ser Ala Phe
 35

<210> 5891
 <211> 89
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5891

Arg Ile Arg Phe Leu Lys Arg Met Trp Arg Arg Trp Arg Gln Ile Ala
 1 5 10 15

Gln Ser Leu Arg Ala Glu Ile Ala Lys Leu Lys Ile Lys Ser Glu Thr
 20 25 30

Tyr Cys Leu Gln Lys Met Lys Ala Met Thr Ala Glu Arg Leu Leu Ile
 35 40 45

Leu Leu Phe Ala Ile Asn Ser Asn Ala Leu Ala Leu Trp Thr Glu Lys
 50 55 60

Leu Ala Arg Lys Ile Thr Lys Ser Ala Ala Lys Pro Ala Arg Thr Lys
 65 70 75 80

Cys Ala Leu Gly Ala Tyr His Ala Arg
 85

<210> 5892

<211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5892

Lys Leu Lys Phe Leu Arg Lys Ile Met Lys Arg Phe Thr Arg Ser Leu
 1 5 10 15

Tyr Lys Arg Phe Leu Pro Gln Leu Leu Ser Leu Leu Ile Val Tyr Arg
 20 25 30

Lys

<210> 5893
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5893

Arg Leu Lys Trp Leu Arg Lys Trp Leu Arg Lys Phe Cys Pro Ala Gln
 1 5 10 15

Cys Met Val Arg Ala His Leu Leu Tyr
 20 25

<210> 5894
 <211> 41
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5894

Met Ile Arg Tyr Met Lys Arg Leu Met Lys Tyr Tyr Ser Lys Gly Ala
 1 5 10 15

Ala Ala Leu Asn Gly Cys Arg Lys Arg Arg Leu Leu Thr Leu Ala Arg
 20 25 30

Val Arg Cys Lys Leu Gly Lys Arg Leu

35

40

<210> 5895

<211> 56

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5895

Arg Leu Arg Leu Trp Arg Arg Trp Phe Arg Ile Leu Ser Lys Trp His
 1 5 10 15

Tyr Glu Ser Lys Phe Arg Arg Leu Lys Ala Ala Leu Ser Glu Ala Val
 20 25 30

Asn Arg Ala His Leu Arg Ala Asn Thr Met Lys Arg Leu Arg Leu Tyr
 35 40 45

Ala Asp Val Trp Lys Lys Lys Gln
 50 55

<210> 5896

<211> 69

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5896

Arg Phe Lys Trp Tyr Arg Arg Ile Tyr Arg Arg Met Arg Thr Arg Ser
 1 5 10 15

Ala Lys Ala Ala Ala Leu Lys Leu Lys Trp Arg Pro Gln Leu Leu Val
 20 25 30

Lys Ala Ala Asn Gly His Ala Val Ala His Lys Arg Cys Leu His Leu
 35 40 45

Ala Gln Cys Cys Glu Leu Arg Lys Pro Gly Glu Leu His Arg Lys Leu
 50 55 60

Trp Phe Val Ala Lys
 65

<210> 5897
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5897

Phe Ile Arg Phe Ile Lys Lys Phe Leu Arg Phe Leu Arg Arg Ala Ala
 1 5 10 15

Ile Lys Ser Leu Pro Ala Asn Leu Lys Pro Arg Asp
 20 25

<210> 5898
 <211> 54
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5898

Lys Phe Arg Trp Trp Cys Arg Phe Leu Lys Met Ile Arg Asn Arg Gly
 1 5 10 15

Arg Arg Arg Leu Leu Arg Leu Ala Ala Phe Tyr Ala Leu Thr Asn Arg
 20 25 30

Met Ser Lys His Leu Trp Tyr Ala Arg Ala Arg Asp Gln Met Arg Arg
 35 40 45

Asp Ala Lys Ala Pro Arg
 50

<210> 5899
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5899

Arg Leu Arg Phe Leu Thr Arg Phe Leu Arg Trp Leu Arg Thr Ser Lys
 1 5 10 15

Ser Glu Ile Arg Cys Ala Ala
20

<210> 5900
<211> 44
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 5900

Lys Phe Arg Tyr Phe Gln Lys Phe Leu Lys Arg Leu Cys Lys Met Glu
1 5 10 15

Glu Ser Leu Lys Ala Leu Ala Lys Arg Ala Cys Trp Arg His Asp Lys
20 25 30

Ile Gln Ala Lys Asn Ala Ala Ala Arg Ala Trp Ala
35 40

<210> 5901
<211> 54
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 5901

Lys Leu Arg Leu Phe Arg Arg Leu Tyr Lys Lys Ile Cys Arg Met Tyr
1 5 10 15

Pro Ala Arg Pro Leu Gly Lys Arg Glu Ile His Cys Lys Leu Lys Ala
20 25 30

Met Leu Leu Lys Pro Gly His Lys Arg Leu Ala Leu Arg Lys Ala Asp
35 40 45

His Lys Ala Phe Val Leu
50

<210> 5902
<211> 67
<212> PRT
<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5902

Arg	Leu	Arg	Phe	Met	Asn	Arg	Met	Tyr	Arg	Arg	Phe	Arg	Lys	Gly	Val
1				5					10					15	

Arg	Arg	Ala	Phe	Ile	Ala	Arg	Leu	Ile	Leu	Asn	Trp	Ala	Leu	Ile	Arg
			20					25					30		

Val	Ala	Ser	Leu	Met	Tyr	Ala	Thr	Ala	Thr	Ala	Phe	Lys	Ala	Lys	Arg
		35					40					45			

His	Leu	Leu	Trp	Ala	Lys	Ile	Thr	Ala	Lys	Ala	Arg	Pro	Val	Arg	Lys
	50					55					60				

Lys	Lys	Lys
65		

<210> 5903

<211> 92

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5903

Lys	Leu	Arg	Tyr	Leu	Lys	Lys	Leu	Leu	Arg	Lys	Ile	Lys	Arg	Gly	Gln
1				5					10					15	

Gly	Lys	Gln	Gly	Ser	Phe	Ala	Ala	Leu	Asn	Ala	Ala	Leu	Lys	Ile	Lys
			20					25					30		

Phe	Phe	Gly	Leu	Val	Lys	Val	Leu	Lys	Val	Ser	Ala	Asp	Ala	Ala	Thr
		35					40					45			

Leu	Leu	Pro	Trp	Arg	Val	Ala	Arg	Tyr	Lys	Ala	Arg	Thr	Tyr	Ala	Glu
	50					55					60				

Arg	Phe	Lys	Leu	Glu	Asn	Phe	Lys	Leu	Glu	Pro	Met	Ala	Thr	Lys	Phe
65					70					75					80

Leu	Trp	Ala	Gly	Glu	Leu	Leu	Ala	Arg	Asp	Leu	Pro
				85					90		

<210> 5904
 <211> 37
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5904

Arg Leu Lys Leu Trp Thr Arg Trp Leu Arg Leu Met Arg Lys Arg Leu
 1 5 10 15

Ile Glu Gly Leu Lys Leu Leu Leu Val Lys Asn Ala Gly Thr Phe Arg
 20 25 30

Gly Ile Trp Ala Lys
 35

<210> 5905
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5905

Arg Leu Lys Leu Met Thr Lys Tyr Trp Arg Leu Met Asn Lys Leu Ala
 1 5 10 15

Leu Lys Ser Glu Lys Val Pro Phe Lys
 20 25

<210> 5906
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5906

Lys Tyr Lys Phe Leu Arg Arg Leu Phe Arg Trp Leu Lys Arg Leu Gln
 1 5 10 15

Asp Arg Arg Ala Pro Met Ile Trp Ala Leu Ser Ala Lys Arg Glu Arg
 20 25 30

Ser Asn Ser Leu Leu Ile Leu Lys
 35 40

<210> 5907
 <211> 51
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5907

Leu Phe Arg Trp Leu Cys Arg Phe Met Lys Trp Trp Thr Arg Arg Ala
 1 5 10 15

Lys Ala Leu Ile Leu Ala Pro Thr Ala Ser Arg Thr Arg Leu Leu Ala
 20 25 30

Ile Leu Ala Ala Ile Gly Ala Arg Ala Asn Val Lys Val Ser Ala Lys
 35 40 45

Lys Glu Arg
 50

<210> 5908
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5908

Arg Ile Lys Tyr Leu Thr Lys Met Leu Arg Lys Phe His Thr Ala Ser
 1 5 10 15

Lys Ala Tyr Leu Ile Tyr Lys Gln Leu Asp Ala Ala Ala Ser Lys Leu
 20 25 30

Asn Leu

<210> 5909
 <211> 31
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5909

Lys	Leu	Lys	Phe	Leu	His	Lys	Leu	Ile	Arg	Arg	Leu	Cys	His	Arg	Arg
1				5					10					15	

Ser	Lys	Ile	Met	Arg	Val	Ala	His	Ala	Ala	Phe	Ala	His	Ala	Lys
			20					25					30	

<210> 5910

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5910

Leu	Trp	Lys	Leu	Tyr	His	Arg	Leu	Ile	Arg	Phe	Leu	Cys	Gln	Val	Arg
1				5					10					15	

Arg	Ile	Gly	Ala	Arg	Ala	Leu	Leu	Lys	Arg	His	Arg	Leu	Gly
			20					25					30

<210> 5911

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5911

Lys	Phe	Lys	Phe	Tyr	Lys	Lys	Leu	Met	Lys	Phe	Trp	Arg	Lys	Leu	Asn
1				5					10					15	

Ala	Lys	Ala	Arg	Ala	Lys	Cys	Pro	Asn	Tyr	Leu	Pro	Leu	Gln	Lys	Arg
			20					25					30		

Thr	Gln	Ala	Leu	Arg	Lys	Ala	Ile
		35					40

<210> 5912

<211> 54

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5912

Tyr	Phe	Arg	Leu	Trp	Arg	Arg	Leu	Leu	Arg	Arg	Leu	Lys	Pro	Gln	Asp
1				5					10					15	

Ala	Glu	Pro	Ala	Asn	Gly	Asn	Val	Arg	Ala	Arg	Lys	Arg	Phe	Val	Leu
			20					25					30		

Leu	Leu	Thr	Trp	Cys	Leu	Arg	Ala	Leu	Met	Phe	Cys	Tyr	Ala	Ala	Lys
		35					40					45			

Tyr	Arg	Lys	Phe	Tyr	Ala
		50			

<210> 5913

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5913

Leu	Leu	Lys	Leu	Leu	Arg	Lys	Tyr	Leu	Arg	Leu	Phe	Pro	Lys	Arg	Gly
1				5				10						15	

Ile	Ser	Lys	Ile	Lys	Arg	Lys	Leu	Ala	Glu	Leu	Leu	Thr	Pro	Tyr	Tyr
			20				25						30		

Ala Asp

<210> 5914

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5914

Lys	Ile	Lys	Ile	Leu	Thr	Arg	Phe	Leu	Arg	Leu	Leu	Pro	Asn	Ile	Glu
1				5				10						15	

Ala Ala Ala Gln Arg Ala Lys Met

20

<210> 5915
 <211> 47
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5915

Arg Phe Arg Leu Leu Lys Arg Tyr Ile Arg Leu Leu Cys Lys Leu Arg
 1 5 10 15

Ala Leu Ala Phe Tyr His Leu Arg Arg Leu Leu Lys Leu Phe Leu Met
 20 25 30

Ala Tyr Leu Leu Cys Met Ser Ile Arg Lys Trp Cys Lys Lys Ser
 35 40 45

<210> 5916
 <211> 42
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5916

Lys Phe Lys Trp Ile Thr Lys Leu Ile Lys Lys Phe Arg His Lys Arg
 1 5 10 15

Leu Trp Leu Leu Thr Asn Asn Arg Ala Lys Gln Glu Arg Arg Met His
 20 25 30

Ala Leu Met Asn Leu Lys Ala Lys Leu Met
 35 40

<210> 5917
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5917

Phe Phe Arg Leu Met Arg Lys Leu Met Arg Arg Leu Gln Lys Ala Glu

1 5 10 15

Pro His Ala Glu Leu Ile Arg
20

<210> 5918
<211> 51
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 5918

Leu Tyr Lys Trp Tyr Arg Lys Leu Tyr Lys Phe Leu Gln Lys Pro Arg
1 5 10 15

Pro Leu Asp Gly Ala Cys Val His Ala Arg Gly Lys Lys Asp Leu Tyr
20 25 30

His Lys Arg Leu Trp Lys Ser Ile Arg Ala Ala Lys Ala Lys Arg Trp
35 40 45

Gly Leu Leu
50

<210> 5919
<211> 65
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 5919

Phe Leu Lys Leu Phe Lys Lys Leu Phe Lys Lys Tyr Cys Arg Arg Arg
1 5 10 15

Pro Leu Leu Asp Lys Ala Cys Phe Asn Thr Leu Leu Asp Lys Val Thr
20 25 30

Arg Lys Leu Ala Ser Ala Asp Asn Pro Tyr Leu Gly Arg Gly Ala Asn
35 40 45

Leu Arg Arg Cys Thr Phe Arg Met Ala Arg Phe Arg Tyr Leu Cys Lys
50 55 60

Lys
65

<210> 5920
<211> 50
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 5920

Trp Leu Arg Leu Phe Lys Lys Met Tyr Arg Lys Leu His Asn Asn Leu
1 5 10 15

Asp Lys Arg Gly Ala Ala Phe Cys Asp Leu Lys Val Ala Leu Ser Lys
20 25 30

Met Thr Met Lys Pro Ala Thr Cys Lys Lys Ala Cys Lys Ala Tyr Lys
35 40 45

Ala Ala
50

<210> 5921
<211> 66
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 5921

Leu Phe Arg Leu Phe Pro Lys Tyr Trp Lys Trp Leu Arg Lys Tyr Thr
1 5 10 15

Pro Lys Leu Ile Met Gln Thr Gly His Lys Arg Ile Ala Lys Gln Thr
20 25 30

Lys Asp Leu Arg Arg Ala Pro Ser Leu Asp Lys Ala His Arg Ala Ala
35 40 45

Arg Glu Arg Glu Leu Lys Leu Lys Tyr Tyr Glu Ala Leu Leu Arg Tyr
50 55 60

Ala Arg

65

<210> 5922
 <211> 27
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5922

Lys Tyr Lys Ile Leu Pro Arg Met Leu Arg Arg Leu Lys Arg Gly Leu
 1 5 10 15

Trp His Leu Ser Ala Leu Gln Gln Leu Ala Lys
 20 25

<210> 5923
 <211> 49
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5923

Arg Leu Arg Leu Phe Gln Arg Met Trp Lys Arg Ile Pro Lys Gln His
 1 5 10 15

His Leu Ala Tyr Gln Arg Ile Leu Ser Thr Arg Ser Lys Ala Lys Ala
 20 25 30

Leu Ala Leu Val Arg Lys Tyr Ala Lys Ala Asn Thr Leu Asp Ile Leu
 35 40 45

Tyr

<210> 5924
 <211> 73
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5924

Lys Trp Arg Trp Met Lys Arg Ile Phe Arg Arg Met Ser Lys Asn Val

[illegible]

<210>	5925
<211>	43
<212>	PRT
<213>	Artificial Sequence
<220>	
<223>	Computer-generated peptide variant
<400>	5925

Phe Ile Lys Ile Leu Arg Arg Trp Leu Lys Leu Ile Thr Ser Ala Arg
 1 5 10 15
 Ala Gly Lys His Lys Lys Leu Ala Leu Trp Met Met Ala Leu Ala Arg
 20 25 30
 Leu Leu Tyr Glu Ile Ala Lys Asn Arg Cys Lys
 35 40

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<210> 5926
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 5926
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Met Trp Arg Phe Trp Lys Lys Phe Leu Lys Leu Leu Pro Arg His Leu
1 5 10 15

Asn Gln Lys Lys Ala
20

<210> 5927
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5927

Ile Phe Lys Met Leu Asn Lys Trp Leu Lys Lys Leu Arg Arg Ala Ala
 1 5 10 15

Gly Phe Ser Lys Leu Pro
 20

<210> 5928
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5928

Arg Tyr Lys Leu Leu Arg Arg Leu Trp Arg Lys Leu Asn Lys Leu Asp
 1 5 10 15

Lys Lys Phe Leu Leu Gly His Thr Thr Trp Pro Asp Tyr
 20 25

<210> 5929
 <211> 53
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5929

Arg Phe Lys Leu Leu Lys Lys Leu Ile Lys Arg Phe Thr Thr Leu Arg
 1 5 10 15

Asn Val Leu Leu Lys Leu Lys Gly Asn Gly Leu Lys Thr Arg Ala Ala
 20 25 30

Gln Asn Ala Ala Leu Ala Val Ile Trp Arg Arg Ala Lys Ile Met Pro
 35 40 45

His Leu Trp Lys Arg
50

<210> 5930
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 5930

Leu Phe Arg Trp Tyr Ser Lys Leu Leu Arg Arg Ile Cys Arg Ala His
1 5 10 15

His Arg Gly Ala Met Arg Leu Arg Leu Gln Arg
20 25

<210> 5931
<211> 60
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 5931

Lys Met Arg Phe Phe Lys Lys Trp Met Arg Arg Met Asn His Lys Pro
1 5 10 15

Arg Met Leu Lys Leu Ala Ala Ala Tyr Arg Val Lys Val Leu Ser Ala
20 25 30

Ala Val Ala Asp Met Ala Leu Ala Ser Ala Lys Ala Arg Val Met Pro
35 40 45

Val Val Trp Thr Lys Leu Gly Ala Lys Arg Arg Ala
50 55 60

<210> 5932
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 5932

Tyr Leu Arg Ile Leu Lys Arg Leu Leu Arg Trp Leu His Arg Gly Asp
 1 5 10 15

Ile Gln Ala Lys Asn Gln Lys His Arg Ala Leu Cys
 20 25

<210> 5933

<211> 37

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5933

Tyr Leu Arg Trp Trp Lys Lys Leu Ile Lys Leu Leu Arg Lys Leu Thr
 1 5 10 15

Asp Lys Asp Arg Trp Arg Tyr Thr Leu Ala Gly Ile Leu Lys Asn Arg
 20 25 30

Lys Tyr Leu Pro Cys
 35

<210> 5934

<211> 65

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5934

Leu Tyr Arg Trp Leu Arg Lys Leu Leu Arg Lys Leu Lys Pro Gln Met
 1 5 10 15

Trp Leu Arg Ala Val Pro Thr Lys Leu Lys Phe Gly Lys Cys Leu Lys
 20 25 30

His Ala Pro Trp Ser Ala Lys Leu Met Val Cys Lys Thr Lys Ala Ala
 35 40 45

Leu Met Leu Lys Ser Lys Met Trp Lys Pro Gln His Met Ala Ser Arg
 50 55 60

Lys

65

<210> 5935
 <211> 31
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5935

Lys Trp Lys Leu Leu Arg Lys Leu Tyr Lys Arg Leu Lys Arg Glu Trp
 1 5 10 15

Cys Thr Ala Asp Phe Leu Phe Tyr Leu Leu Cys Leu Arg Leu Ala
 20 25 30

<210> 5936
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5936

Met Trp Lys Leu Trp Lys Arg Leu Phe Lys Phe Leu Gln Pro Arg Pro
 1 5 10 15

Leu Asp Ile Phe Ala Phe His Lys Leu Ala Ala Cys Ala Ala Lys Arg
 20 25 30

Arg Leu

<210> 5937
 <211> 37
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5937

Met Leu Lys Met Tyr Arg Arg Tyr Phe Lys Leu Trp Cys Arg Ala Arg
 1 5 10 15

Trp Cys Ala Ala Arg Met Gln Leu Ala Lys Gly Tyr Ala Asn Arg His

20

25

30

Arg Leu Gly Leu Arg
35

<210> 5938
<211> 29
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 5938

Arg Tyr Arg Phe Leu Pro Arg Phe Leu Arg Arg Phe Arg Cys Ala Val
1 5 10 15

Ser Leu Ala Ala Thr Asn Trp Lys Ala Leu Lys Gln Lys
20 25

<210> 5939
<211> 41
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 5939

Arg Ile Lys Leu Phe Lys Lys Ile Ile Lys Met Tyr Lys Cys Tyr Gln
1 5 10 15

Ala His Cys Leu Leu Lys Leu Ala Ala Ala Met Ile Arg Leu Lys Cys
20 25 30

Lys Cys Gly Arg Tyr Ser Arg Leu Arg
35 40

<210> 5940
<211> 26
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 5940

Arg Leu Arg Phe Leu Lys Arg Leu Trp Lys Lys Leu Lys Arg Cys Ala

1 5 10 15

Val Pro Thr Glu Tyr Trp Tyr Ala Ala Val
20 25

<210> 5941
<211> 54
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 5941

Trp Leu Arg Trp Ile Gln Arg Leu Trp Arg Lys Leu Asn Lys Leu Tyr
1 5 10 15

Leu Gly Val Ala Leu Lys Lys Leu Phe Tyr Lys Lys Arg Ser Ala Arg
20 25 30

Lys Glu Trp Asn Glu Lys Cys Leu Leu Ala Val Phe Pro Ala Ile Pro
35 40 45

Gln Arg Arg Leu Asn Lys
50

<210> 5942
<211> 37
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 5942

Arg Phe Lys Trp Leu Arg Arg Leu Leu Arg Arg Leu Cys Arg Asp Asn
1 5 10 15

Trp Asp Lys Gln Ala Ala Cys Asn Ala His Lys His Arg Tyr Leu Ala
20 25 30

Arg Lys Ala Phe His
35

<210> 5943
<211> 34
<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5943

Tyr Leu Lys Phe Leu Arg Arg Trp Met Lys Lys Trp Lys Gln Lys Lys
1 5 10 15

Arg Leu Ala Leu Leu Leu Phe His Met Ala Asp Arg Gln Leu Lys Leu
20 25 30

Ala Ala

<210> 5944

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5944

Arg Leu Lys Leu Leu Gln Lys Leu Phe Arg Leu Leu Cys Arg Cys Ile
1 5 10 15

Lys Glu Lys Leu Met Gln Tyr Gln Asn Ala Trp
20 25

<210> 5945

<211> 39

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5945

Arg Phe Arg Leu Phe Lys Lys Leu Leu Lys Lys Leu Lys Arg Met Ser
1 5 10 15

Leu Arg Met Gln Arg Asn Arg Lys Leu Tyr Leu Tyr Cys Ala Asn Ala
20 25 30

Arg Ala Asn Trp Leu Gly Glu
35

<210> 5946
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5946

Phe Leu Lys Tyr Phe Ser Lys Leu Phe Arg Leu Phe Arg Lys Arg Leu
 1 5 10 15

Cys Phe Tyr Cys Ala Lys Asn Arg Leu Ala Ser Arg
 20 25

<210> 5947
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5947

Lys Leu Arg Leu Phe His Lys Leu Leu Lys Arg Leu Lys His Leu Asp
 1 5 10 15

Arg Met Ser Thr Leu Arg Ala Ala Val Ser Glu Gln Lys
 20 25

<210> 5948
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5948

Arg Phe Lys Phe Leu Arg Lys Leu Leu Lys Arg Leu Asn Arg Met Pro
 1 5 10 15

Cys Tyr Ile Ala Ala Arg
 20

<210> 5949
 <211> 63
 <212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5949

Phe Leu Arg Phe Leu Arg Arg Phe Leu Arg Trp Leu Arg Lys Cys Ala
1 5 10 15

Ala Ala Asp Gln Arg Ser Glu Ala Arg Leu Gly Leu Leu Leu Arg Glu
20 25 30

Leu Asp Ala Ile Ala Arg Tyr Ala Arg Trp Cys Arg Gly Tyr Arg Val
35 40 45

Asn Gln Ala Tyr Arg Leu Arg Thr Ser Cys His Val Leu Leu Gln
50 55 60

<210> 5950

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5950

Lys Leu Arg Phe Leu Cys Arg Leu Tyr Lys Trp Leu Ser Lys Tyr Trp
1 5 10 15

Leu Phe Lys Lys
20

<210> 5951

<211> 38

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5951

Leu Leu Lys Tyr Met His Arg Trp Leu Lys Arg Leu Gln Lys His Ile
1 5 10 15

Ile Thr Lys Arg Ala Ala Phe Pro Leu Lys Gly Gln Leu Ser Lys Arg
20 25 30

Lys Ala Ala Met Ala Phe
35

<210> 5952
<211> 25
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 5952

Met Phe Arg Leu Leu Lys Arg Phe Tyr Lys Trp Leu Arg Arg Leu Leu
1 5 10 15

Leu Gly Arg Arg Thr Arg Ala Ala Ile
20 25

<210> 5953
<211> 49
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 5953

Arg Leu Arg Leu Phe Arg Arg Leu Leu Arg Lys Phe Pro Arg Leu Glu
1 5 10 15

Cys Leu Phe Pro Lys Gly Ala Lys Tyr Ile Leu Arg Thr Gln Trp Gln
20 25 30

Thr Asp Met Ala Ala Leu Ala Lys Val Lys Lys Leu Glu Thr Leu Gly
35 40 45

Ser

<210> 5954
<211> 38
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 5954

Arg Leu Lys Leu Leu Cys Lys Leu Tyr Lys Lys Ile Arg Asn Ser Ile
 1 5 10 15

Ala Met Arg Ile Ala Met Leu Arg Cys Leu Phe Ser Asp His Ala Gly
 20 25 30

Leu Arg Arg Thr Lys Gln
 35

<210> 5955
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5955

Lys Leu Arg Ile Leu Gln Arg Phe Met Arg Leu Leu Arg Lys Cys Leu
 1 5 10 15

Ile Asp Gln Glu Val Ala Arg Tyr Cys Pro Ala Leu Lys Leu Pro Arg
 20 25 30

Gly His Lys Arg
 35

<210> 5956
 <211> 43
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5956

Arg Trp Arg Phe Leu Arg Lys Ile Phe Arg Lys Phe Ser Arg Lys Ala
 1 5 10 15

Ala Leu Asp Ala Tyr Arg Ala Ile Tyr Ala Ser Ile Lys Leu Lys Leu
 20 25 30

Arg Leu Ala Arg Lys Thr Tyr Ala Tyr Met Trp
 35 40

<210> 5957

<211> 27
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5957

Lys Leu Lys Tyr Leu Ser Arg Phe Leu Lys Phe Leu Asn Lys Arg Ala
 1 5 10 15

Leu Pro Ser Met Phe Lys Met Asp Arg Ala Ala
 20 25

<210> 5958
 <211> 63
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5958

Arg Met Arg Tyr Leu Lys Lys Met Phe Lys Lys Leu Asn Cys Lys Trp
 1 5 10 15

Arg Leu Leu Trp Arg Arg Leu Leu Arg Ala Asp Ala Ala Val Gln
 20 25 30

Arg Arg Ile Arg Thr Asp Glu Tyr His Pro Thr Val Arg Glu Leu Ile
 35 40 45

Ala Ala Arg Glu Leu Lys Leu Gly Lys Arg Ala Met Leu Leu Asn
 50 55 60

<210> 5959
 <211> 58
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5959

Ile Trp Arg Leu Phe Gln Arg Ile Leu Lys Leu Met Arg Lys Leu Cys
 1 5 10 15

Asn Ile Ile Lys Arg Val Gln Phe Phe Pro Arg Met Val Arg Ala Ala

20

25

30

Lys Leu Leu Pro Ala Cys Ala Tyr Arg Gly Thr Arg Arg Ile Lys Ala
 35 40 45

Phe Arg Leu Leu Arg Lys Glu Leu Ala Arg
 50 55

<210> 5960

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5960

Lys Leu Lys Leu Met Arg Arg Leu Tyr Lys Leu Leu Arg His Cys Gly
 1 5 10 15

Lys Asn Ala Asn Trp
 20

<210> 5961

<211> 74

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5961

Phe Ile Lys Ile Tyr Arg Lys Met Leu Arg Phe Leu Thr Pro Arg Leu
 1 5 10 15

Tyr Lys Ala Arg Leu Asp Ala Val Gly Ala Ile Lys Ala Lys Leu Arg
 20 25 30

Arg Arg Met Gly Arg Leu Lys Trp Asn Ile Pro His Leu Leu Arg Asn
 35 40 45

Tyr Leu His Arg Asn Trp Arg Leu Leu Lys Ala Arg His Lys Leu Ser
 50 55 60

Asp Met Asp Arg Ile Ile Gln Lys Lys Lys
 65 70

<210> 5962
 <211> 76
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5962

Leu Tyr Lys Leu Trp Ser Lys Phe Leu Lys Leu Leu Arg Arg Leu Val
 1 5 10 15

Leu Arg Lys Ala Gln Ala Lys Phe Cys Thr Leu Gly Thr Lys His Leu
 20 25 30

Lys Thr Ser Lys Met Thr Met Leu Glu Arg Cys Lys Cys Arg Arg Thr
 35 40 45

Arg Gly Leu Leu Ala Ser Ala Ala His Lys Glu Arg Met Met Lys Ala
 50 55 60

His Ala Trp Lys Glu Leu Thr Glu Leu Ala Leu Gln
 65 70 75

<210> 5963
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5963

Arg Ile Arg Met Leu Thr Arg Trp Leu Lys Lys Leu Arg Arg Arg Thr
 1 5 10 15

Ala Ala Lys Tyr Tyr Ala Arg Leu Arg Ala Thr Ser Lys Trp Ala Ile
 20 25 30

Thr

<210> 5964
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5964

Phe	Leu	Lys	Ile	Leu	Lys	Lys	Leu	Phe	Lys	Tyr	Ile	Gln	Lys	Ile	Leu
1				5					10					15	

Lys	Gln	Val	Leu	Met	Gln	Arg	Gly	Arg	Lys	Ala	Ala	Arg	Leu	Ala	Gly
			20					25					30		

Trp	Leu	Ala	Leu	Arg	Lys	Ile	Val
	35					40	

<210> 5965

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5965

Tyr	Tyr	Arg	Trp	Leu	Arg	Arg	Trp	Leu	Arg	Met	Tyr	Arg	Lys	Pro	Thr
1				5				10					15		

Arg	Glu	Lys	Ala	Gly	Phe	Lys	Asp	Ala	Ile	Leu	Leu	Lys	Arg	Leu	Leu
			20					25					30		

Arg	Tyr	Thr	Ala	Arg	Leu	Asn	Tyr
	35					40	

<210> 5966

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5966

Phe	Met	Arg	Tyr	Ile	Lys	Lys	Leu	Ile	Lys	Leu	Leu	Ser	Lys	Ala	Val
1				5					10					15	

Arg	Lys	Ala	Thr	Gly	Asn	Arg	Trp	Lys	Pro	Leu	Ser	Lys	Ala
			20					25					30

<210> 5967

<211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5967

Phe Phe Lys Leu Leu Thr Arg Leu Leu Lys Phe Met Cys His Leu Leu
 1 5 10 15

Ala Ser Arg Leu Gln Ala Lys Ala Lys Thr Ser Arg Ala Ile Lys Asn
 20 25 30

<210> 5968
 <211> 56
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5968

Arg Met Lys Leu Phe Arg Arg Phe Leu Lys Leu Leu Arg Ser His Ala
 1 5 10 15

Lys Lys Arg Val Arg Ala Lys Gln Cys Ala Leu Val Ser His Arg Asp
 20 25 30

Pro Lys Ser Lys Val Leu Tyr Met Lys Leu Ala Arg Pro His Lys Leu
 35 40 45

Trp Lys Phe Tyr Tyr Asp Asp Ala
 50 55

<210> 5969
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5969

Arg Ile Arg Leu Leu Lys Lys Leu Leu Arg Lys Leu Lys Arg Cys Lys
 1 5 10 15

Gly Met Gln Leu Leu Cys Ala Arg

20

<210> 5970
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5970

Arg Met Lys Phe Phe Lys Lys Leu Trp Arg Lys Trp Thr Cys Ser Ala
 1 5 10 15

Phe Phe Arg Phe Ala Leu Arg Val Leu Ala Lys Pro His Ala Ala Lys
 20 25 30

Gly Ala Glu Arg
 35

<210> 5971
 <211> 27
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5971

Trp Leu Lys Leu Tyr Arg Lys Leu Tyr Lys Trp Leu Arg Lys Cys Ala
 1 5 10 15

Leu Trp Leu Gln Met Arg His Cys Lys Ile Phe
 20 25

<210> 5972
 <211> 73
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5972

Phe Met Arg Tyr Leu Lys Lys Leu Phe Arg Leu Ile Gln Lys Arg Lys
 1 5 10 15

Lys Lys Val Thr Lys Ala Glu Pro Met Pro Ala Gly Ala Tyr Lys Ala

20

25

30

Asp Thr Glu Ser Trp Ala Leu Asn Arg Arg Trp Ala Leu Trp His Arg
 35 40 45

Arg Lys Lys Lys Lys Arg Leu Glu Leu Ser Gln Met Leu Phe Lys Trp
 50 55 60

Gly Ala Lys His Leu Ile Leu Lys Leu
 65 70

<210> 5973

<211> 50

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5973

Phe Trp Lys Leu Phe Arg Arg Phe Tyr Arg Arg Leu His Gln Lys Leu
 1 5 10 15

Lys Arg Thr Thr Met Pro Glu Pro Ala Arg Trp Tyr Trp Ala Lys Arg
 20 25 30

Lys Lys Leu Leu Ala Leu Leu Leu Phe Met His Gly Ala Arg Ala Ser
 35 40 45

Leu His
 50

<210> 5974

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5974

Arg Tyr Lys Tyr Tyr Lys Arg Tyr Leu Arg Arg Leu Lys Arg Asp Lys
 1 5 10 15

Val Pro Leu Ala Leu Ala Tyr Ile Glu Met Ala Asn Leu Leu Pro Asp
 20 25 30

Arg

<210> 5975
 <211> 27
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5975

Phe Phe Lys Met Phe Arg Lys Phe Leu Arg Lys Met Lys Arg Thr Met
 1 5 10 15

Leu Ser Gln Ala Ala Ala Gly Asp Leu Lys Leu
 20 25

<210> 5976
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5976

Arg Trp Arg Leu Met Gln Arg Trp Leu Lys Leu Phe Arg Asn Leu Thr
 1 5 10 15

Ala Tyr Ile Arg Arg
 20

<210> 5977
 <211> 56
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5977

Lys Phe Lys Tyr Ile Arg Arg Leu Ile Arg Tyr Ile Arg Ser Leu Arg
 1 5 10 15

Ala His Leu Ala Ala Arg Leu Leu Ala Ala Lys Lys Arg Leu Ala Met
 20 25 30

Lys Thr Leu Arg Ala Leu Ile Phe Leu Ala Ala His Arg Arg Ile Cys
 35 40 45

Ala Ala Phe Lys Ala Arg Lys Cys
 50 55

<210> 5978

<211> 43

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5978

Leu Leu Arg Tyr Leu Cys Lys Phe Leu Arg Lys Tyr Arg His Ser Ala
 1 5 10 15

Gly His Leu Gly Ala Lys Ala His Leu Thr Gly Trp Glu Gln Gln Lys
 20 25 30

Lys Leu Arg Leu Leu Ser Lys Gln Arg Asp Leu
 35 40

<210> 5979

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5979

Leu Leu Lys Ile Met Lys Lys Phe Tyr Lys Leu Leu Arg Lys Ala Glu
 1 5 10 15

Lys Trp Trp Glu
 20

<210> 5980

<211> 70

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5980

Leu Leu Arg Leu Ile Arg Lys Ile Phe Arg Lys Leu Asn Lys Leu Ala
 1 5 10 15

Tyr Met Arg Lys Ala Ser Val Trp Gly Thr Ser Val Leu Asp Leu Leu
 20 25 30

Arg Lys Asn Thr Ala Leu Arg Trp Leu His Lys Leu Arg Pro Pro Lys
 35 40 45

Leu Tyr Ala Arg Glu Thr Leu Asn Leu Lys Cys Lys Val Lys Pro Arg
 50 55 60

Leu Tyr Ile Trp Leu Lys
 65 70

<210> 5981
 <211> 67
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5981

Ile Leu Arg Leu Leu Ser Lys Phe Leu Arg Lys Tyr Cys Lys Lys Val
 1 5 10 15

Arg Val Cys Glu Cys Met Ile Ala Ala Met Ala Leu Arg Cys Pro Arg
 20 25 30

Ala Glu Lys Lys Arg Ala Lys Gly Arg Leu Ser Val Asp Tyr Trp Pro
 35 40 45

Arg Pro Ala Tyr Pro Leu Ala Asp Leu Arg Arg Ala Asp Ala Arg Lys
 50 55 60

Lys Arg Ser
 65

<210> 5982
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5982

Lys Leu Lys Ile Phe Pro Arg Ile Leu Arg Leu Leu Ser Arg Arg Lys
1 5 10 15

Arg Gln Cys Phe Gly Arg Ile Leu Leu Gln Arg Asn Pro Ala
20 25 30

<210> 5983

<211> 48

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5983

Tyr Phe Arg Tyr Phe Ser Lys Ile Phe Arg Lys Ile Lys Lys Ala Leu
1 5 10 15

Ala Leu Cys Glu Ala Lys Ala Ala Lys Glu Ile Lys Met Pro Lys Leu
20 25 30

Arg Asp His Leu Lys Met Lys Cys Tyr Leu Ala Leu Arg Cys Arg Tyr
35 40 45

<210> 5984

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5984

Arg Met Lys Leu Leu Arg Lys Met Phe Arg Lys Leu Ser Cys Ala Ala
1 5 10 15

Ser Cys Ala Ala
20

<210> 5985

<211> 49

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5985

Lys Leu Lys Tyr Leu Cys Arg Ile Leu Lys Ile Ile Thr Thr Arg Ile
 1 5 10 15

Lys Ala Pro Ala Arg Asp Gln Leu Asp Lys Cys Leu Leu Phe Cys Lys
 20 25 30

Ala Met Lys Met Lys Pro Ala Trp Leu Arg Gly Arg Leu Leu Lys Val
 35 40 45

Asp

<210> 5986

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5986

Arg Phe Arg Trp Phe Arg Lys Leu Phe Lys Arg Leu Pro Thr Asn Ala
 1 5 10 15

Leu Arg Ala Ser Glu Asp Ala Leu Val Gln Arg
 20 25

<210> 5987

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5987

Phe Ile Lys Phe Trp Arg Lys Tyr Leu Lys Met Leu His Cys Leu Leu
 1 5 10 15

Glu Arg Arg Asn Ser Glu Arg Leu Leu Leu Lys Ala Thr Ile Leu Arg
 20 25 30

Ala

<210> 5988
 <211> 94
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5988

Trp Ile Lys Leu Leu Lys Arg Leu Phe Lys Lys Leu Arg Ser His Trp
 1 5 10 15

Arg Glu Gly Glu Thr Leu Tyr Ala Lys Lys Leu Leu Cys Glu Leu Trp
 20 25 30

Lys Leu Trp Gln Leu Leu Ile Lys Lys Leu Ala Arg Ser Ala Lys Ser
 35 40 45

Ala Asp Phe Val Trp Thr Leu Lys Lys Met Leu Met Lys Phe Gln Lys
 50 55 60

Ala Gly Arg Leu Leu Cys Ala Leu Arg Ser Ser Gln Asn Leu Gln Pro
 65 70 75 80

Arg Arg His Lys Lys Met Leu Leu Ala Ser Arg Glu Lys Leu
 85 90

<210> 5989
 <211> 60
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 5989

Arg Ile Arg Leu Tyr Thr Lys Met Phe Lys Phe Leu Lys Arg Arg Leu
 1 5 10 15

Thr Tyr Trp Ser Gly Arg Asp Leu Asp Lys Ile Ala Met Ala Arg Lys
 20 25 30

Ala Ala Gln Gly Leu Ile Leu Lys Lys Leu Ala Ala Lys Ala Glu Met
 35 40 45

Phe Tyr Asn Leu Thr Gly Ile Lys Lys His Lys Leu

50

55

60

<210> 5990

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5990

Lys Leu Lys Met Leu Arg Arg Phe Phe Arg Lys Leu Asn Lys Ala Leu
 1 5 10 15

Gly Gly Asn Pro
 20

<210> 5991

<211> 46

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5991

Leu Leu Lys Leu Leu Thr Arg Phe Leu Lys Tyr Leu His Arg Pro Tyr
 1 5 10 15

Leu Met Asn Arg Leu Arg Arg Gly Arg Glu Ala Gln Glu Pro Leu Ala
 20 25 30

Arg Trp Leu Met Arg Phe Arg Leu His Arg Lys Cys Ala Asp
 35 40 45

<210> 5992

<211> 38

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5992

Lys Leu Lys Phe Met Gln Arg Leu Phe Lys Arg Trp Arg Lys Leu Thr
 1 5 10 15

Pro Gly Lys Ile Ala Ala Pro Phe Val Ala Pro Ala Ile Ala Ile Gln

20

25

30

Lys Lys Ile Lys Arg Leu
35

<210> 5993
<211> 38
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 5993

Lys Leu Arg Phe Phe Lys Lys Phe Leu Arg Leu Trp His Asn Phe Ala
1 5 10 15

Gly Asn Val Arg Ala Leu Leu Arg Trp Ser Arg Lys Ala Gln Phe Ile
20 25 30

Lys His Tyr Leu Arg Leu
35

<210> 5994
<211> 44
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 5994

Phe Phe Arg Phe Trp Thr Lys Leu Leu Arg Arg Phe Lys Arg Leu Leu
1 5 10 15

Thr Leu Gln Met Thr Lys His Lys Arg Lys Val Leu Trp Ala Gly Gly
20 25 30

Tyr Leu Leu Asp Ala Phe Arg Ala Ala Leu Leu Leu
35 40

<210> 5995
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 5995

Met	Trp	Arg	Leu	Met	Arg	Lys	Leu	Trp	Lys	Leu	Leu	Lys	Ser	Ala	Arg
1				5					10					15	

Asp	Gly	Leu	Ala	Asp	Cys	Cys	Lys	Arg	Arg	His	Ile	Lys	Ala	Tyr	Asp
		20						25					30		

<210> 5996

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5996

Lys	Leu	Arg	Leu	Phe	Asn	Arg	Leu	Ile	Arg	Trp	Leu	Lys	Arg	Asn	Leu
1				5					10					15	

Leu	Lys	Ala	Ala	Asp	Gln	Met	Asn	His	Arg
		20						25	

<210> 5997

<211> 52

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5997

Arg	Tyr	Lys	Ile	Phe	Pro	Lys	Tyr	Tyr	Arg	Arg	Leu	Lys	Lys	Phe	Trp
1				5					10					15	

His	Cys	Leu	Ala	Ala	Cys	Phe	Phe	Thr	Arg	Arg	Ala	Lys	Leu	Leu	His
		20						25					30		

Val	Gln	Arg	Lys	Cys	Ala	Leu	Lys	Glu	Ala	Met	Ala	Lys	Ala	Thr	Arg
		35					40					45			

Ala	Lys	Thr	Lys
	50		

<210> 5998

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5998

Lys Met Arg Phe Tyr Thr Lys Leu Met Lys Lys Leu Arg Arg Ala Leu
1 5 10 15

Leu Ala Gly Ser Arg
20

<210> 5999

<211> 67

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 5999

Lys Ile Arg Leu Tyr Lys Lys Tyr Tyr Arg Trp Phe Arg Arg Leu Ala
1 5 10 15

Arg Ser Lys Leu Arg Phe Pro Ala Arg Lys Ala Lys Ala Thr Trp Leu
20 25 30

Ser Leu Ala Gln Arg Gly Trp Val Val Leu Ala Met Ala Arg Leu Leu
35 40 45

Thr Cys Ala Ala Arg Arg Thr Glu Leu Thr Met Arg Asp Met Cys Met
50 55 60

Leu Trp Asn
65

<210> 6000

<211> 39

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6000

Lys Phe Arg Leu Leu Thr Lys Ile Ile Lys Lys Trp Gln Gln Ala Ser
1 5 10 15

Gln Gln Arg Leu Lys Leu Arg Asp Ala Ala Ala Arg Arg Arg Leu Leu
 20 25 30

Lys Ala Leu Gln Phe Met Trp
 35

<210> 6001

<211> 62

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6001

Leu Leu Arg Leu Leu Arg Arg Tyr Tyr Arg Leu Trp Arg Arg Thr Arg
 1 5 10 15

Arg Arg Phe Arg Thr Lys Cys Leu Ala Asp Ser Ile Lys Lys Ala Arg
 20 25 30

Lys Val Phe Thr Asp Asp Asn Arg Asp Ala Asp Leu Leu Arg Lys Ala
 35 40 45

Leu Cys Leu Ala Cys Trp Trp Leu Arg Pro Pro Trp His Arg
 50 55 60

<210> 6002

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6002

Met Phe Lys Leu Phe Lys Lys Phe Leu Lys Leu Leu Asn Lys Leu Lys
 1 5 10 15

Leu Leu Trp Ser Phe Lys Arg Asn Asp Ala Arg Met Lys Gly Arg Ala
 20 25 30

Ser Ala Val Cys Cys His His Arg
 35 40

<210> 6003

<211> 77
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6003

Arg Phe Lys Leu Leu Asn Arg Leu Leu Lys Leu Met His Thr Phe Thr
 1 5 10 15

Lys Trp Lys Leu Leu Cys Trp Met Ala Arg Leu Gly Thr Ser Ile Arg
 20 25 30

Leu Arg Leu Lys Asn Arg Leu Lys Asn Asn Val Lys Leu Leu Asn Ser
 35 40 45

His Leu Arg Asp Leu Lys Leu Cys His Arg Arg Lys Leu Phe Phe Ala
 50 55 60

Arg Asn Arg Arg Gln Leu Asp His Lys Pro Gly Thr Ala
 65 70 75

<210> 6004
 <211> 26
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6004

Arg Ile Arg Leu Phe Ser Lys Leu Leu Arg Leu Phe Lys Arg Lys His
 1 5 10 15

Arg Ala Ser His Thr Tyr Gln Ala Ala Lys
 20 25

<210> 6005
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6005

Phe Ile Lys Ile Leu Cys Arg Trp Ile Arg Lys Ile Pro Arg Arg Ala

1 5 10 15

Ala Ala Leu His
20

<210> 6006
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 6006

Lys Phe Lys Leu Ile Arg Lys Trp Ile Arg Trp Ile Arg Lys Asp Asp
1 5 10 15

Leu Ala Ala Cys Lys Ser Thr Tyr Ala Leu Asp Arg Leu Ala
20 25 30

<210> 6007
<211> 22
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 6007

Arg Leu Arg Phe Leu Arg Lys Leu Met Arg Phe Phe Arg Lys Ser Cys
1 5 10 15

Leu Ala Met Leu Ala Lys
20

<210> 6008
<211> 50
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 6008

Arg Leu Arg Leu Met Arg Lys Phe Leu Lys Arg Tyr Lys Gln Ile Val
1 5 10 15

Arg Trp Phe Arg Asn Pro Arg Leu Asp Val Ala Lys Ala Ala Ala Pro

20

25

30

Glu Lys Arg Arg Asp Ile Ala Ala Tyr Gly Pro Ala His Cys Lys Ala
 35 40 45

Arg Ile
 50

<210> 6009

<211> 47

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6009

Lys Leu Lys Leu Leu Asn Lys Tyr Tyr Arg Arg Leu Arg Arg Ala Asn
 1 5 10 15

Trp Ser His Gln Leu Cys Leu Ala Thr Ile Arg Ser Glu Arg Arg Ser
 20 25 30

Phe Tyr Lys Asn Leu Cys Ala Lys Ala Ala Pro Arg Cys Cys Leu
 35 40 45

<210> 6010

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6010

Lys Met Lys Trp Leu Gln Lys Leu Leu Arg Lys Phe Thr Gln Ala Lys
 1 5 10 15

Cys Pro Ser Phe Ala Lys Phe Leu Arg Leu Ser Ala
 20 25

<210> 6011

<211> 39

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6011

Lys Leu Lys Phe Phe Thr Arg Trp Leu Lys Arg Leu Asn Lys Arg Arg
 1 5 10 15

Tyr Trp Cys Leu Ala Lys Ala Arg Gly Ala Gly Asn Leu Trp Arg Phe
 20 25 30

His Ala Asn Leu Lys Glu Asp
 35

<210> 6012

<211> 38

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6012

Lys Leu Lys Met Phe Lys Lys Met Leu Lys Arg Met His Thr Val Leu
 1 5 10 15

Lys His Arg Gln Gly Tyr Leu Ala Ala Arg Met Gly Arg Arg Leu Gly
 20 25 30

His Leu Asp Ala Lys Pro
 35

<210> 6013

<211> 68

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6013

Arg Leu Lys Leu Leu His Lys Leu Trp Lys Arg Leu Arg Lys Pro Leu
 1 5 10 15

Arg Ala Arg Gly Leu Ala Lys Lys Cys Leu Glu Ser Val Leu Leu Gln
 20 25 30

Leu Leu Gln Asp Arg Pro Arg His Ile Cys Val Leu Met Arg Ala Pro
 35 40 45

Arg Ala Ser Ser Ser His Ile Val Ile Leu Lys Ala Asp Ala Trp Ala
 50 55 60

Thr Glu Pro Lys
 65

<210> 6014
 <211> 46
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6014

Arg Leu Arg Leu Leu Pro Lys Ile Leu Arg Arg Tyr Thr His Ala Pro
 1 5 10 15

Met Cys Met Leu Lys His Ala Met Ala Ala Ala Ile Ala Pro Arg Lys
 20 25 30

Pro Cys Leu Arg Ala Arg Thr Ser Pro Lys Ala Lys Thr Arg
 35 40 45

<210> 6015
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6015

Lys Met Lys Leu Leu Arg Lys Leu Leu Lys Lys Tyr Arg Ser Lys Tyr
 1 5 10 15

Lys Cys Ala Val Ala Ala Arg Ala Ser Arg Thr Leu Ala Tyr Leu Lys
 20 25 30

<210> 6016
 <211> 97
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6016

Arg Phe Lys Trp Phe Lys Lys Leu Leu Lys Leu Phe Thr Pro His Val
 1 5 10 15

Tyr Met Tyr Leu Ala Thr Leu Phe Ser Lys Lys Lys Lys Ala Arg Leu
 20 25 30

Glu Leu Ala Leu Arg Ala Trp Gly Trp Leu Lys Ala Tyr Ala His Gln
 35 40 45

Leu Arg Ile Arg Asp Lys Ala Gln Arg Asn Trp Pro Leu Leu His Lys
 50 55 60

Leu Lys Ile Ala Tyr Lys Lys Ile Asn Lys Leu His Leu Leu Val Leu
 65 70 75 80

Asn Ile His Lys Leu His Arg Val Leu Ala Phe Phe Ala Val Ala Leu
 85 90 95

His

<210> 6017
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6017

Lys Leu Lys Leu Leu Gln Arg Leu Trp Lys Lys Tyr Lys Ser Asn Ala
 1 5 10 15

Ile Asn Leu Gln Thr Trp Leu Cys Leu Ile Lys Arg
 20 25

<210> 6018
 <211> 47
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6018

Arg Phe Arg Leu Leu Lys Lys Met Tyr Lys Lys Leu Arg Lys Glu Lys

<210>	6019
<211>	46
<212>	PRT
<213>	Artificial Sequence
<220>	
<223>	Computer-generated peptide variant
<400>	6019

Val Arg Ile His Val Lys Leu Ala Lys Gln Arg Lys His Leu Tyr Gln
20 25 30

<210>	6020
<211>	21
<212>	PRT
<213>	Artificial Sequence
<220>	
<223>	Computer-generated peptide variant
<400>	6020

Ala Arg Asn Glu Pro
20

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<210> 6021
<211> 63
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant
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<400> 6021

Lys Phe Lys Tyr Leu Lys Arg Leu Tyr Lys Trp Leu Lys Lys Thr Lys
1 5 10 15

His Asn Asn Arg Cys His Gly Cys Leu Leu Gln Lys Cys Leu Arg Glu
20 25 30

Leu Leu Leu Ala Lys Ala Leu Arg Arg Ala Ile Leu Cys Asp Lys Thr
35 40 45

Asn Asp Asn Leu Asn Arg His His Leu Phe Pro Arg Leu Thr Leu
50 55 60

<210> 6022

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6022

Tyr Met Lys Phe Leu Cys Lys Leu Leu Lys Phe Leu Lys Arg Lys Ala
1 5 10 15

Ala Lys Gln Ala
20

<210> 6023

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6023

Tyr Leu Lys Met Phe Arg Lys Tyr Leu Arg Leu Phe Asn Pro Lys Leu
1 5 10 15

Lys Gly Arg Arg Ala Gly Gln Asp Val Trp Gln Ala Ser Ala Arg Ala
20 25 30

Ala Leu

<210> 6024
 <211> 63
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6024

Arg Tyr Arg Leu Tyr Ser Arg Phe Phe Lys Leu Ile Arg Asn Ser Ala
 1 5 10 15

Leu Arg Phe Ser Lys Ser Ala Ala Thr Thr Leu Leu Arg Ser Lys Thr
 20 25 30

Ala Ala His Ser Phe Glu Arg Phe Arg Lys Lys Lys Pro Ala Leu His
 35 40 45

Lys Leu Thr Leu Leu Arg Leu Asn Arg Lys Pro Leu Thr Pro Ile
 50 55 60

<210> 6025
 <211> 27
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6025

Lys Trp Arg Tyr Leu Thr Arg Leu Trp Lys Leu Leu Arg His Ser Leu
 1 5 10 15

Trp Arg Trp Ala Arg Ala Ala Pro Cys Arg Pro
 20 25

<210> 6026
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6026

Lys Phe Arg Leu Phe Arg Lys Ile Leu Arg Arg Leu Asn Pro Asn Lys
 1 5 10 15

Leu Leu Gly Leu Ala Ala Asn Pro Pro Thr Trp Trp Lys
 20 25

<210> 6027
 <211> 57
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6027

Lys Leu Lys Tyr Trp Arg Arg Tyr Phe Arg Leu Phe Asn Arg His Arg
 1 5 10 15

Tyr Asp Phe Lys Leu Met Ala Pro Lys Val Lys Lys Glu Lys Leu Tyr
 20 25 30

Leu Ile Lys Pro Asp Leu Ala Val Ala His Ala Ala Ala Asn Gly Asp
 35 40 45

Ala Ala Lys Leu Leu Ala Arg Asn Asn
 50 55

<210> 6028
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6028

Arg Tyr Arg Ile Leu Gln Lys Tyr Met Arg Arg Leu Arg Asn Ala Ala
 1 5 10 15

Ser Glu Leu Ala Glu Leu Leu Lys Ser Leu Ile Ala Tyr Ile Lys Gly
 20 25 30

Ala Lys Gln Tyr
 35

<210> 6029
 <211> 27
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6029

Met	Trp	Arg	Leu	Leu	Arg	Lys	Phe	Leu	Lys	Lys	Phe	Asn	Lys	Leu	Cys
1				5					10					15	

Lys	Leu	Pro	Glu	Ser	Gln	Lys	Ile	Ala	Ala	Arg
			20					25		

<210> 6030

<211> 64

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6030

Leu	Leu	Lys	Ile	Tyr	Ser	Arg	Leu	Leu	Lys	Trp	Met	Lys	Arg	Pro	Leu
1				5					10					15	

Thr	Ala	Arg	Tyr	Arg	Lys	Leu	Arg	Cys	Leu	Ala	Lys	Phe	Arg	Arg	Arg
			20					25					30		

Thr	Leu	Ala	Ile	Ser	Pro	Lys	Glu	Cys	Val	Lys	Leu	Pro	Tyr	Ala	Ala
		35					40					45			

Pro	Met	Asp	Asp	Gln	Ala	Lys	Ala	Arg	Ala	Pro	Lys	Leu	Gln	Arg	Trp
	50					55					60				

<210> 6031

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6031

Leu	Trp	Arg	Met	Leu	Lys	Arg	Ile	Met	Arg	Lys	Ile	Lys	Asn	Ala	Trp
1				5					10					15	

Ala	Gln	Leu	Pro	Trp	Ala	Arg	Arg
			20				

<210> 6032

<211> 78
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6032

Phe Leu Arg Phe Leu Lys Arg Trp Trp Arg Trp Ile Lys Lys Leu Arg
 1 5 10 15

Arg Ala Asp Asn Ile Ala His Asn Trp Leu Ser Ala Gly Leu Leu Pro
 20 25 30

Ile Lys Gly Cys Ala Ala Leu Asn Phe Met Lys Lys Lys Phe His Ala
 35 40 45

Lys Lys Ile Leu Thr Ala Ala Cys Met Ala Leu Lys Lys Gly Arg Lys
 50 55 60

Glu Lys Arg Lys Leu Ile Val Leu Pro Ala Ala Ala Gly Thr
 65 70 75

<210> 6033
 <211> 31
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6033

Lys Leu Arg Leu Phe Pro Lys Leu Leu Arg Ile Tyr Asn Arg Leu Arg
 1 5 10 15

Pro Lys Ala Leu Leu Arg Thr Phe Val Asn Trp Thr Arg Phe Arg
 20 25 30

<210> 6034
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6034

Phe Phe Arg Ile Phe Lys Lys Ile Leu Arg Arg Leu Lys Lys Asp Ala

1 5 10 15

Gly Ala Leu Ile Leu His Met Tyr Leu Phe Thr Lys Lys Lys Ala Cys
20 25 30

Arg Pro Lys Thr Thr Leu Trp Lys
35 40

<210> 6035

<211> 58

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6035

Arg Leu Lys Phe Met Arg Arg Trp Met Lys Lys Phe Lys Cys Ala Ala
1 5 10 15

Arg Lys Leu Ala Leu Arg Pro Ala Gly Leu Ala Asp Ile Glu Ser Leu
20 25 30

Asn Asp Lys Leu Ser Lys Arg Ala Lys Tyr Ser Leu Gln Pro Arg Arg
35 40 45

Lys Leu Ala Ser Leu Cys Cys Arg Phe Lys
50 55

<210> 6036

<211> 58

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6036

Trp Met Lys Leu Leu Lys Arg Phe Phe Arg Arg Leu Lys Lys Met Ala
1 5 10 15

Lys Leu Lys Asn Cys Ala Arg Arg Leu Met Lys Gly Leu Trp Arg Asp
20 25 30

Phe Glu Lys Val Glu Ala Tyr Arg Cys Met His Arg Lys Ala Thr Asn
35 40 45

Thr Leu Ala Ala Phe Ala Leu Asp Met Ser
 50 55

<210> 6037
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6037

Leu Trp Arg Phe Ile Lys Lys Phe Leu Arg Trp Trp Lys Ser Ala Val
 1 5 10 15

Lys Lys Leu Glu Pro Glu Ala Leu Arg Gly Val Ala Leu
 20 25

<210> 6038
 <211> 42
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6038

Lys Phe Lys Trp Phe Pro Lys Ile Leu Lys Arg Leu Arg Lys Ala Ala
 1 5 10 15

Asp Lys Lys Leu His Pro Gly Gln Lys Leu Arg Arg Arg Ala Leu Leu
 20 25 30

Val Trp Lys Phe Ser Lys Leu Ala Ala Ser
 35 40

<210> 6039
 <211> 48
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6039

Arg Tyr Arg Leu Phe Arg Lys Ile Ile Arg Arg Phe Cys Cys Cys Val
 1 5 10 15

Leu Pro Leu Arg Ala Cys Arg Lys Leu Gly Leu Ala Glu Gln His Leu
 20 25 30

Lys Leu Ala Cys Lys Tyr Lys Leu Phe Gln Lys Ala Lys Leu Leu Phe
 35 40 45

<210> 6040

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6040

Ile Tyr Lys Phe Leu Lys Arg Tyr Tyr Lys Lys Phe Lys Lys Ala Phe
 1 5 10 15

Leu Ala Tyr Ala
 20

<210> 6041

<211> 71

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6041

Arg Trp Arg Met Leu Lys Arg Met Phe Arg Lys Tyr Lys Arg Met Ser
 1 5 10 15

Lys Gln Phe Arg Glu Phe Tyr Ala Leu Lys Pro Leu Val Leu Arg Arg
 20 25 30

His Tyr Ala Lys Leu Leu Asp Arg Leu Gln Ala Lys Glu Trp Lys Ala
 35 40 45

Arg Arg Asn Ala Ala Ala Lys Lys Cys Leu Asn Met Met Cys Ala Arg
 50 55 60

Gln Ala Arg Thr Val Leu Gly
 65 70

<210> 6042

<211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6042

Leu Leu Lys Leu Phe Asn Arg Leu Leu Lys Arg Phe His Ser Ala Tyr
 1 5 10 15

Ser Ala Arg Thr Gln
 20

<210> 6043
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6043

Lys Leu Arg Ile Ile Pro Lys Tyr Tyr Arg Arg Met Ser Arg Leu Gln
 1 5 10 15

Lys Leu Arg Arg Asp Trp Val Asn Ala Ser Asn Arg Cys Ala Ala Ala
 20 25 30

Leu Leu Lys Arg
 35

<210> 6044
 <211> 51
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6044

Lys Leu Lys Leu Leu Asn Lys Leu Trp Lys Lys Leu Arg Arg Val Phe
 1 5 10 15

Ala Phe His Lys Glu Ile Leu Gln Glu Met Lys Tyr Thr Phe Ala Trp
 20 25 30

Leu Trp Glu Gly Thr Leu Ala Arg Lys Ala Leu Leu Ala Arg Trp Lys

35

40

45

Trp Trp Ala
50

<210> 6045

<211> 61

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6045

Arg Tyr Arg Leu Phe Lys Lys Phe Phe Arg Lys Leu Arg Asn Leu Ala
1 5 10 15

Arg Ser Arg Arg Ala Arg Ala Asp Arg Arg Phe Leu Leu Lys Val Gly
20 25 30

Trp Ile Arg Asp Ala Lys Ser Lys Val Ser Val Ala Ala Gln Trp Lys
35 40 45

Ala Gln Trp Arg Leu Leu Arg Gly Ala Leu His Tyr Thr
50 55 60

<210> 6046

<211> 43

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6046

Met Met Arg Ile Leu Cys Arg Leu Phe Arg Arg Leu Arg Arg Leu Val
1 5 10 15

Ala Thr His Val Arg Asp Ala Leu Arg Pro Lys Leu Phe Asn Ala Ala
20 25 30

Tyr Arg Ala Leu Ala Ser Gln Lys Tyr Met Cys
35 40

<210> 6047

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6047

Arg Phe Arg Met Met Lys Arg Ile Phe Arg Arg Leu Lys Lys Leu Ala
1 5 10 15

Lys Ile Ala Leu Ala Thr Ile Leu
20

<210> 6048

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6048

Lys Met Lys Leu Leu Gln Lys Trp Tyr Arg Lys Met Lys Gln Asn Ile
1 5 10 15

Ala Ala Lys Leu His Leu Gly Leu Gln Ala Arg Glu Ala Ala Lys His
20 25 30

Ala Thr Leu Arg Asp Gln Arg Phe
35 40

<210> 6049

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6049

Arg Tyr Arg Ile Phe Lys Lys Leu Phe Arg Phe Leu Cys Arg Leu Ala
1 5 10 15

Leu Arg Glu Gly
20

<210> 6050

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6050

Arg	Phe	Arg	Trp	Tyr	Thr	Arg	Leu	Tyr	Lys	Leu	Leu	Arg	Arg	Tyr	Ala
1				5					10					15	

Arg	Lys	Lys	Ala	Pro	Asp	Leu	Ala	Met	Val
			20					25	

<210> 6051

<211> 41

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6051

Lys	Leu	Arg	Phe	Phe	Pro	Arg	Leu	Leu	Lys	Leu	Met	Thr	Lys	Lys	Leu
1				5					10					15	

Glu	Glu	His	Ala	Ala	Arg	Lys	Phe	Lys	Arg	Met	Trp	Arg	Ser	Ala	Cys
			20					25					30		

Pro	Leu	Leu	Tyr	Cys	Lys	Lys	Met	Met
		35					40	

<210> 6052

<211> 49

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6052

Arg	Trp	Arg	Trp	Trp	His	Arg	Leu	Met	Lys	Arg	Trp	Arg	Lys	Lys	Cys
1				5					10					15	

Ala	Lys	Leu	Ala	Met	Leu	Phe	Trp	Cys	Val	Arg	Leu	Leu	Gln	Lys	Met
			20					25					30		

Glu	Pro	Asn	Pro	Leu	Phe	Leu	Trp	Lys	Leu	Leu	Cys	Ala	Arg	Ala	Pro
		35					40					45			

Arg

<210> 6053
 <211> 45
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6053

Met Met Arg Met Tyr Ser Lys Tyr Leu Arg Lys Phe Pro Arg His Arg
 1 5 10 15

Lys Ala Lys Leu Ala Ala Gln Cys Leu Cys His Thr Leu Lys Gln Pro
 20 25 30

Arg His Pro Phe Ala Ala Arg Leu Leu Ala Arg Arg Asp
 35 40 45

<210> 6054
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6054

Tyr Leu Lys Ile Tyr Arg Lys Phe Tyr Arg Arg Leu Lys Lys Asp Trp
 1 5 10 15

Asn Ala Ile Leu Phe Ala Ser Arg Leu
 20 25

<210> 6055
 <211> 91
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6055

Lys Leu Arg Ile Phe Arg Arg Ile Trp Lys Arg Trp Gln Thr Ser Ser
 1 5 10 15

His Val Ile Arg Arg Ser Lys Lys Asn Asn Lys Tyr Ala Val Arg Pro
 20 25 30

Glu Ala Arg Arg Ile Arg Tyr Lys Pro Leu Val Ile Lys Glu Leu Ala
 35 40 45

Leu His His Ala Arg Leu Lys Ala Asn Glu Pro Met Leu Val Ile Ala
 50 55 60

Gln Leu Trp Glu Lys Ala Leu Lys Lys Phe Ala Ala Arg Lys Lys Leu
 65 70 75 80

Lys Leu Gly Lys Arg Met Ala Leu Leu Tyr Ala
 85 90

<210> 6056

<211> 46

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6056

Arg Met Arg Met Met Arg Arg Phe Leu Arg Met Trp Arg Arg Leu Ala
 1 5 10 15

Gly Ala His Tyr Ala Ala Lys Ala Lys Cys Thr Lys Arg Asn Arg Asp
 20 25 30

Met Asp Leu Asp Ala Leu Lys Ile Tyr Arg Ala Arg Gln Ala
 35 40 45

<210> 6057

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6057

Leu Phe Arg Tyr Tyr Lys Arg Met Trp Arg Lys Leu Ser Lys Arg Thr
 1 5 10 15

Trp Val Val Leu Leu Lys Lys Ser Ala Ala Ala Trp Asp Arg Leu Lys

20

25

30

Met

<210> 6058

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6058

Ile	Leu	Arg	Phe	Leu	Lys	Arg	Leu	Trp	Arg	Lys	Leu	Arg	His	Arg	Gly
1				5				10					15		

Leu	Lys	Ser	Lys	Gln	Ala	Leu	Thr	Leu	Leu	Arg	Glu	Val	Cys	Cys	Lys
			20					25					30		

<210> 6059

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6059

Arg	Leu	Lys	Phe	Leu	Arg	Lys	Phe	Trp	Arg	Trp	Leu	Arg	Pro	Leu	Leu
1				5				10					15		

Arg	Lys	Val	Leu	Tyr	Pro	His	Tyr
			20				

<210> 6060

<211> 42

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6060

Arg	Leu	Arg	Ile	Phe	Arg	Lys	Leu	Phe	Lys	Lys	Ile	Arg	Asn	Ala	Leu
1				5				10					15		

Phe	Pro	Arg	Ala	Ala	Thr	Ile	Phe	Asp	Trp	Pro	Cys	Arg	Arg	Lys	Ala
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

20

25

30

Lys Val Arg Met Arg Leu Leu Asp Trp Leu
 35 40

<210> 6061
 <211> 26
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6061

Met Leu Lys Met Leu Lys Arg Ile Ile Arg Leu Leu Lys Lys Leu Gln
 1 5 10 15

Asn Val Val Ala Lys Lys Leu Asp Lys Cys
 20 25

<210> 6062
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6062

Leu Leu Arg Leu Ile Pro Lys Tyr Tyr Lys Arg Leu Lys Lys Leu Gln
 1 5 10 15

Ala Met Thr Phe Arg Tyr Ser Gln Arg Arg His Ala Arg Asn
 20 25 30

<210> 6063
 <211> 66
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6063

Arg Leu Lys Leu Ile Thr Lys Phe Trp Arg Arg Tyr Arg Pro Leu Ala
 1 5 10 15

Trp His His Asn Thr Ala Arg Arg Pro Asn Leu Leu Ile Glu Phe Arg

25

30

Trp Ala His Gly Ala Asp Leu Asn Lys Lys Leu Asn Ala Arg Asp Leu
35 40 45

Lys Lys Asp Lys Ala Arg Gly Leu Leu Lys Ala Val Lys Ala Met Lys
50 55 60

Gly Gln
65

<210> 6064

<211> 67

<212> PRT

<213> Artificial Sequence

 $\langle 220 \rangle$

<223> Computer-generated peptide variant

<400> 6064

Phe Met Lys Trp Ile Arg Arg Phe Met Lys Arg Phe Lys Cys Arg Arg
1 5 10 15

Glu Ala Leu Pro Cys His Pro Gly Lys Ser Met Leu Ala Arg Val Leu
20 25 30

Leu His Gly Ala Arg Lys Ala Ala Lys Arg Leu Phe Cys Ala Lys Leu
35 40 45

Ala Arg Asp Cys Arg Lys Ala Asn Cys His Cys Arg Asn Asp Ala Arg
50 55 60

Ala Arg His
65

<210> 6065

<211> 83

<212> PRT

<213> Artificial Sequence

 $\langle 220 \rangle$

<223> Computer-generated peptide variant

<400> 6065

Arg Trp Lys Phe Phe Lys Lys Leu Leu Arg Arg Phe Gln Arg Ala His
1 5 10 15

Asp Pro Lys Lys Asn Lys Ile Glu Ile Ser Lys Leu Lys Ala Met Ala
 20 25 30

Ala Leu Thr Ala Ala Leu Pro Asp Lys Asn Gly Gln Ala Tyr Leu Gln
 35 40 45

Lys Met Asp Thr Pro Arg Lys Ala Arg Asp Ala Ser Arg Lys Lys Ala
 50 55 60

Ala Ile Ala Lys Leu Tyr Leu Met Lys Gln Ile Thr Arg Ile Ala Phe
 65 70 75 80

Leu Leu Arg

<210> 6066
 <211> 41
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6066

Phe Trp Arg Phe Leu Arg Arg Phe Phe Arg Met Leu Pro Gln Ala Lys
 1 5 10 15

Cys Asn Ala Trp Arg Ala Arg His Lys Ala Leu Ala Leu Met Ala Ser
 20 25 30

Ile Lys Asp Ala Lys Arg Trp Ala His
 35 40

<210> 6067
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6067

Phe Phe Arg Tyr Trp Ser Lys Leu Phe Arg Leu Trp Lys Arg Ile Asp
 1 5 10 15

Leu Arg Arg Ile Leu Thr Leu Leu Lys Ala Ile Ala Lys Phe Tyr Leu

20

25

30

Ala Ala

<210> 6068

<211> 52

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6068

Leu Leu Arg Phe Leu Arg Lys Leu Tyr Lys Leu Phe Lys His Glu Ala
 1 5 10 15

Arg Ser Ala Met Ala Ala Lys Pro Leu Ala Arg His Arg Leu Ala Leu
 20 25 30

Met Leu Ile Arg His Lys Arg Gln Arg Asp Ser Ser Val Ser Lys Trp
 35 40 45

His Phe Ala Ala
 50

<210> 6069

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6069

Trp Phe Lys Phe Met His Lys Leu Leu Arg Leu Leu Gln Lys Gln Arg
 1 5 10 15

Leu Lys Arg Lys Leu Arg Leu Leu
 20

<210> 6070

<211> 44

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6070

Met Trp Arg Phe Ile Gln Lys Met Met Arg Leu Leu Arg Arg Ala Gly
1 5 10 15

Ala Ala Lys Gly Ala Tyr Asp Leu Lys Pro His Asp Arg Phe Leu Arg
20 25 30

Ala Ala Arg Arg Gln Met Arg Arg Ala Lys Asn Leu
35 40

<210> 6071

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6071

Lys Phe Lys Phe Trp Thr Arg Phe Leu Arg Phe Tyr His Arg Arg Met
1 5 10 15

Lys Leu Leu Ile Ala Phe Ile Leu Leu Leu Glu Phe Lys Ala Lys Ala
20 25 30

Cys Arg Asp Lys
35

<210> 6072

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6072

Lys Phe Lys Leu Met Thr Arg Ile Met Lys Arg Leu Pro Lys Arg Ala
1 5 10 15

Val Met Phe Arg Ala Gln Cys Lys His Ser Ala Ala Leu Arg Gly Leu
20 25 30

Arg

<210> 6073
 <211> 47
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6073

Leu Leu Arg Phe Trp Ser Lys Tyr Phe Arg Lys Phe Arg Lys Asp Arg
 1 5 10 15

Arg Leu Ala Trp Ala Arg Arg Ala Ile Asn Ala Arg Asn Ile Lys Ala
 20 25 30

Leu Lys Gly Asp Arg Leu Gln Ala Tyr Leu Leu Cys Arg Leu Gln
 35 40 45

<210> 6074
 <211> 80
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6074

Leu Trp Lys Leu Met Cys Lys Leu Leu Arg Leu Ile Pro Thr Lys Ile
 1 5 10 15

Ala Arg Gln Met Arg Arg Ile Ile Phe Gly Lys Ala Glu Ala Ala Gln
 20 25 30

Thr Leu Pro Arg Lys Tyr Thr Val Ala Ala Leu Arg Ser Pro Lys Arg
 35 40 45

Gly Met Arg Ala Lys Ala Arg Phe Ser Trp Leu Lys Lys Cys Leu Arg
 50 55 60

Lys Ala Ala Leu Val Arg Lys Met Gly Tyr Asn Phe Leu Lys Ala Leu
 65 70 75 80

<210> 6075
 <211> 56
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6075

Arg Leu Lys Leu Leu Arg Lys Trp Trp Arg Phe Leu Arg Arg Arg Ala
 1 5 10 15

Arg Lys Glu Pro Lys Glu Lys Ala Leu Cys Lys Ser Gly Ser Met Ala
 20 25 30

Phe Trp Asp Gln Leu Lys Thr Lys Val Asn Ala Gln Val Lys Lys Asp
 35 40 45

Lys Leu Leu Ala Leu Arg His Pro
 50 55

<210> 6076

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6076

Arg Trp Arg Leu Tyr Arg Lys Ile Leu Arg Leu Ile Lys Pro Ile Pro
 1 5 10 15

Pro Ala Leu Thr Arg Lys Lys Ser Cys Phe Ala Pro Ala Ala Pro Leu
 20 25 30

Ser Leu Lys Thr Lys Phe Met Lys
 35 40

<210> 6077

<211> 63

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6077

Arg Phe Lys Phe Phe Arg Lys Leu Leu Arg Lys Tyr Cys Asn Arg Arg
 1 5 10 15

Arg Ala Asn Arg Ala Arg Leu Gly Thr Arg Arg Leu Thr Ala Ala Leu

30

Met Ala Asn Ala Ala Leu Ala Pro Ser Leu Arg Ser Arg Leu Val Gly
35 40 45

Ala Gln Lys Ala Arg Met Leu His Asn Leu Gly Pro His Ala Gln
50 55 60

<211> 37

<213> Artificial Sequence

<223> Computer-generated peptide variant

Lys Phe Lys Leu Leu Lys Lys Leu Phe Arg Phe Leu Lys Arg Ala Ala
1 5 10 15

Arg Lys Gly Leu Tyr Gln Ser Lys Leu Gly Val Tyr Leu Arg Leu Asn
20 25 30

Ile Thr Lys Ala Leu
35

<211> 62

<213> Artificial Sequence

<223> Computer-generated peptide variant

Leu Phe Lys Trp Ile Lys Arg Phe Tyr Arg Leu Phe Arg Cys Leu His
1 5 10 15

Gly Tyr Lys Lys Glu Ala Leu Arg Leu Leu Ala Gly Asn Lys Arg Glu
20 25 30

Pro Arg Ile Ala Leu Pro Arg Val Asn Gln Leu Thr Ala Arg Arg Ala
35 40 45

His Leu Gln Ala Leu Gln Lys Arg Ala Arg Gly Ala Arg Ala
50 55 60

<210> 6080
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6080

Lys Leu Arg Phe Leu Arg Arg Tyr Tyr Arg Arg Trp Pro Thr Lys Gln
 1 5 10 15

Leu His Met Ala Met Arg Lys Ala Ser Leu Ala Tyr Leu Leu Leu Gln
 20 25 30

Gln Ser

<210> 6081
 <211> 41
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6081

Arg Tyr Arg Leu Leu Gln Arg Met Trp Arg Phe Tyr Cys Asn Lys Lys
 1 5 10 15

Leu Ala Met Met Leu Leu Trp Tyr Ala Arg Leu Ser Leu Arg Asn Gly
 20 25 30

Leu Lys Leu Arg Trp Arg Ala Thr Phe
 35 40

<210> 6082
 <211> 51
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6082

Phe Leu Arg Trp Met Gln Lys Leu Leu Lys Leu Phe Arg Thr Lys Phe
 1 5 10 15

Arg Ala Trp Cys Tyr Arg Glu Lys Trp Leu Gln Lys Arg His Ala Leu
 20 25 30

Cys Cys Ala Lys Phe Ala Lys Val Lys Ala His Lys Ala Gly Phe Ala
 35 40 45

Ala Leu Ile
 50

<210> 6083
 <211> 56
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6083

Arg Leu Arg Met Phe Arg Lys Leu Ile Arg Lys Leu Arg Lys Phe Arg
 1 5 10 15

Val Thr Tyr Arg Pro Ile Asp Ala Thr Ala Ala Lys Leu Glu Arg Ile
 20 25 30

Trp Trp Leu Lys Ala Gln Lys Trp Leu Arg Thr Pro Leu Lys Glu Arg
 35 40 45

Pro Gln Leu Lys Trp Ile Leu Val
 50 55

<210> 6084
 <211> 63
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6084

Lys Trp Arg Leu Met Cys Lys Leu Trp Lys Trp Leu Lys Lys Lys Asp
 1 5 10 15

Ala Arg Tyr Ala Met Leu Ala Gln Gly Glu Glu Arg Leu Cys Asp Gln
 20 25 30

Pro Phe Thr Ala Tyr Lys Lys Leu Arg Pro Arg Met Lys Lys Pro Lys

35

40

45

Leu Arg Leu Leu Phe Ala Ala Arg His Thr Gln Gly Ala Ala Arg
 50 55 60

<210> 6085

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6085

Leu Leu Arg Phe Leu Ser Arg Leu Tyr Lys Phe Ile Lys Arg Arg Glu
 1 5 10 15

Leu Arg Val Phe
 20

<210> 6086

<211> 46

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6086

Phe Ile Arg Met Phe Asn Arg Ile Leu Arg Lys Met Lys Lys Arg Lys
 1 5 10 15

Leu Val Leu Thr Lys Pro His Gly Ser Asn Phe Leu Trp Ala Arg Leu
 20 25 30

Arg Tyr Thr Ala Leu Leu Arg Arg Lys Ala Cys Gly Lys Ala
 35 40 45

<210> 6087

<211> 60

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6087

Arg Leu Lys Phe Leu Arg Arg Leu Leu Arg Arg Ile Gln Lys Tyr Glu

Lys	Phe	Arg	Trp	Ile	Thr	Arg	Leu	Met	Lys	Tyr	Phe	Lys	Lys	Gly	Trp
1				5					10					15	
Asp	Lys	Ala	Gln	Val	Arg	Tyr	Ala	Leu	Ala	Arg	Arg	Leu	Tyr	Ala	Arg
			20					25					30		
Pro	Ala	Lys	Ala	Ala	Pro	Ile	Cys	Leu	Phe	Thr	Asn	Leu	Phe	Lys	Lys
		35					40					45			

<210>	6089
<211>	31
<212>	PRT
<213>	Artificial Sequence
<220>	
<223>	Computer-generated peptide variant
<400>	6089

Lys Leu Lys Tyr Met Lys Lys Leu Phe Lys Tyr Leu Arg Arg Leu Asp
1 5 10 15

Arg Met Leu Asn Ala Lys Gly Met Gly Arg Gln Leu Leu Leu Ala
20 25 30

<210> 6090
 <211> 37
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6090

Trp Leu Lys Tyr Leu Lys Lys Leu Leu Lys Arg Met Lys Lys Arg Arg
 1 5 10 15

Arg Arg Lys Leu Pro Ala Gln Trp Thr Ala Arg Ala Asn Phe Ala Glu
 20 25 30

Glu Val Asn Leu Tyr
 35

<210> 6091
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6091

Leu Phe Lys Leu Leu Arg Lys Tyr Trp Lys Trp Phe Arg Cys Asn Cys
 1 5 10 15

Trp Asn Cys Arg Ala Leu Thr Arg Ala Lys Ala Arg Cys Cys Leu Ala
 20 25 30

<210> 6092
 <211> 47
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6092

Leu Tyr Arg Trp Leu Thr Arg Leu Phe Arg Arg Phe Pro Arg Asp Leu
 1 5 10 15

Pro Ala Lys Leu Arg Arg Cys Tyr His Val Lys Arg Ser Lys Ala Ala
 20 25 30

Ala Thr Leu Pro Arg Asp Gly Lys Trp Leu Ala Thr Arg Cys Thr
35 40 45

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<210> 6093
<211> 20
<212> PRT
<213> Artificial Sequence
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<220>
<223> Computer-generated peptide variant

<400> 6093

Leu Leu Lys Phe Leu Cys Arg Leu Ile Arg Phe Trp Asn Pro Trp Arg
1 5 10 15

Lys Ala Gly Lys
20

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<210> 6094
<211> 43
<212> PRT
<213> Artificial Sequence
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<220>
<223> Computer-generated peptide variant

<400> 6094

Arg Leu Lys Leu Leu Cys Lys Leu Leu Lys Arg Phe His Cys Ile Leu
1 5 10 15

Ala Ser Ala Ser Pro Leu Arg Arg Leu His Lys Arg Lys Thr Asn Ala
20 25 30

His Asp Arg Lys Gly Lys Glu Arg Leu Arg Asn
35 40

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<210> 6095
<211> 23
<212> PRT
<213> Artificial Sequence
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<220>
<223> Computer-generated peptide variant

<400> 6095

Arg Phe Lys Phe Trp Asn Arg Leu Phe Arg Ile Met Gln Lys Arg Ala
1 5 10 15

Met Arg Ala Asn Ala Ala Leu
20

<210> 6096
<211> 59
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 6096

Phe Leu Lys Leu Met His Arg Phe Leu Lys Leu Leu Arg Arg Lys Leu
1 5 10 15

Phe Leu Arg Arg Arg Ser Ser Ile Leu Gln Ile Glu Trp Leu Arg Trp
20 25 30

Glu His His Ile Phe Glu Arg Arg Lys Gly Lys Ala Arg Gln Ala Leu
35 40 45

Cys Leu Lys Asn Leu Arg Cys Lys Ala Ala Leu
50 55

<210> 6097
<211> 74
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 6097

Arg Phe Arg Leu Leu Cys Arg Trp Tyr Arg Arg Leu Lys His His Leu
1 5 10 15

Ile Ile Lys Arg Leu Gln Lys Leu Leu Lys Asp Leu Leu Arg Leu Leu
20 25 30

Asn Arg Leu Leu Gly Lys Val Arg His Cys Ile Phe Arg Lys Arg Trp
35 40 45

Asn Gly Leu Glu Trp Met Lys Gln Ala Ala Lys Thr Ala Gly Met Thr
50 55 60

Asn Ala Leu Ser Glu Leu Phe Leu Ile Leu

65

70

<210> 6098

<211> 87

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6098

Lys Phe Arg Tyr Ile Gln Lys Leu Ile Arg Leu Ile Lys Arg Leu Gln
 1 5 10 15

Pro Leu Pro Met Leu Arg Lys Ala Leu Asn Val Ala Leu Gln Cys Arg
 20 25 30

Asn Ala Glu Arg Arg Gln Lys Pro Asn Lys Ala Ile Leu Asp Arg Met
 35 40 45

Ala Leu Lys Ala Ala Pro Arg Arg Lys Lys Ala Glu Arg Cys Glu His
 50 55 60

Thr Ala Lys Leu Gln Val Glu Ala Glu Lys Leu Arg Lys Lys Arg Leu
 65 70 75 80

Ala Leu Tyr Gly Thr Arg Gly
 85

<210> 6099

<211> 51

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6099

Arg Met Arg Ile Phe Lys Lys Ile Met Arg Lys Phe Arg Thr Arg His
 1 5 10 15

Ala Gln Lys Lys Ala Leu His His Lys Arg Arg Ala Pro Ala Asp Leu
 20 25 30

Ala Gly Arg Leu Leu Ala Phe Glu Leu Ala Asp Ile Leu Ala Cys Arg
 35 40 45

Tyr Gln Met
50

<210> 6100
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 6100

Phe Leu Arg Tyr Met Gln Lys Ile Ile Arg Tyr Phe His Lys Val Lys
1 5 10 15

Arg Ser Thr Arg Leu Tyr Ala Ala Leu Arg Ile Lys Leu Leu Arg Ile
20 25 30

Lys Pro Lys Ala Ser Lys Ser Ala
35 40

<210> 6101
<211> 55
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 6101

Ile Tyr Lys Ile Leu Cys Arg Met Phe Arg Lys Leu Lys Pro Ala Gln
1 5 10 15

Asp Ser Leu Thr Leu Tyr Ala Gln Ile Lys Leu Glu Ile Phe Trp Lys
20 25 30

Ala Lys Thr Leu Cys Lys Leu Cys Arg Lys Lys Arg Pro Ala Arg Arg
35 40 45

Thr Gln Ala Arg Leu Leu Arg
50 55

<210> 6102
<211> 23
<212> PRT
<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6102

Lys	Tyr	Lys	Leu	Leu	Gln	Arg	Tyr	Leu	Arg	Leu	Leu	Asn	Pro	Ala	Lys
1				5					10					15	

Gly	Lys	Ile	Thr	Ala	Leu	Lys
						20

<210> 6103

<211> 43

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6103

Lys	Phe	Lys	Met	Leu	Arg	Arg	Phe	Leu	Lys	Lys	Leu	Lys	Lys	Val	Gly
1				5					10					15	

Lys	Arg	His	Arg	His	Ala	Arg	Val	Ile	Leu	Gln	Leu	Ser	Asn	Val	Ala
				20				25					30		

Arg	Leu	Ser	Asp	Val	Lys	Leu	Ala	Cys	Tyr	Ile
				35			40			

<210> 6104

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6104

Arg	Leu	Lys	Phe	Trp	Cys	Lys	Phe	Phe	Lys	Tyr	Trp	Lys	Gln	Leu	His
1				5					10					15	

Ser	Leu	Lys	Ile	Leu	Ala	Leu	Ala	Lys	Ala	His	Arg
				20				25			

<210> 6105

<211> 39

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6105

Ile	Phe	Arg	Trp	Leu	Arg	Arg	Tyr	Leu	Lys	Tyr	Phe	Lys	Lys	Glu	Arg
1				5				10						15	

His	Phe	Leu	Lys	Leu	Lys	Ala	Leu	Ala	Ala	Ala	Leu	Met	Cys	Cys	Cys
			20				25						30		

Cys	Ser	Tyr	Lys	Leu	Arg	His
						35

<210> 6106

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6106

Ile	Leu	Arg	Phe	Tyr	Pro	Lys	Leu	Leu	Lys	Lys	Leu	His	His	Met	Ala
1				5					10					15	

Met	Arg	Arg	Val	Ala	Ala
					20

<210> 6107

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6107

Met	Leu	Arg	Leu	Phe	Ser	Lys	Phe	Leu	Arg	Arg	Phe	Pro	Lys	Leu	Pro
1				5				10						15	

Lys	Ala	Leu	Gln	Gly	Phe	Lys	Lys	Ala
			20					25

<210> 6108

<211> 96

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6108

Lys	Leu	Lys	Leu	Phe	His	Arg	Ile	Phe	Arg	Leu	Trp	Arg	Pro	Tyr	Asp
1				5				10						15	

Leu	Ala	Lys	Ser	Pro	Lys	Ala	Pro	Ala	Ala	Gly	Val	Ala	Arg	Pro	Ser
			20					25					30		

Lys	Ser	Leu	Arg	Gln	Lys	Cys	Pro	Gln	Leu	Lys	Thr	Phe	Pro	Asp	Ala
		35					40					45			

Leu	Arg	Arg	Ala	Leu	Trp	Val	Phe	Glu	Leu	Tyr	His	Arg	Arg	Ala	Leu
	50					55					60				

Leu	Arg	His	Cys	Arg	Lys	Arg	Arg	Lys	Pro	Ala	Gln	Arg	Leu	Arg	Thr
65					70					75				80	

Tyr	Ala	Ala	Ala	Trp	Lys	Thr	Phe	Lys	Pro	Arg	His	Ala	Trp	Arg	Arg
				85					90					95	

<210> 6109

<211> 55

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6109

Tyr	Leu	Lys	Tyr	Phe	Arg	Arg	Leu	Trp	Arg	Arg	Ile	Arg	Pro	Asn	Ile
1				5				10						15	

Ala	Arg	Pro	Lys	Ala	Ile	Ala	Asp	Pro	Lys	Met	Lys	Arg	Arg	Ala	Leu
			20					25					30		

Lys	Leu	Leu	Arg	Pro	Met	Met	Lys	Leu	Leu	Leu	His	Trp	Leu	Ile	Tyr
		35					40					45			

Ala	Met	Lys	Ala	Ala	Arg	Arg
	50					55

<210> 6110

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6110

Phe Leu Arg Phe Trp Asn Arg Leu Leu Lys Lys Phe Lys Thr Phe Phe
1 5 10 15

Glu Trp Arg Lys Ala Leu Gln Phe Ala Asp Ala Cys Arg Lys Phe Lys
20 25 30

Leu Arg Ala Val
35

<210> 6111

<211> 69

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6111

Lys Leu Lys Leu Phe Cys Arg Leu Met Arg Lys Leu Cys Arg Pro Asp
1 5 10 15

Lys Thr Ala Thr Leu Gly Asp Phe Ile Arg Gln Arg Asn Leu Arg Leu
20 25 30

Lys Leu Val Gln Lys Ala Cys Lys Cys Arg Lys Ala Ala Ser Leu Leu
35 40 45

Ala Asn Phe Phe Trp Gln Ala His Leu Met Arg Tyr Ala Ile Lys Cys
50 55 60

Ala Arg Asn Arg His
65

<210> 6112

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6112

Leu Met Lys Trp Leu Arg Lys Ile Met Lys Arg Phe Lys Cys Leu Tyr
 1 5 10 15

Ala Ala Ala Gln
 20

<210> 6113
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6113

Leu Leu Arg Tyr Phe Arg Lys Tyr Tyr Lys Arg Leu Lys Ser Ser Ile
 1 5 10 15

Ala Ala Tyr Pro Ala Arg Val Ala Ser Lys Tyr Lys
 20 25

<210> 6114
 <211> 39
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6114

Arg Leu Lys Leu Met Arg Lys Ile Met Lys Lys Ile Arg Cys Trp Gly
 1 5 10 15

Thr Ala Cys Val Leu Lys Tyr Lys Arg Leu Leu Lys Ala Lys Leu Leu
 20 25 30

Lys Thr His Asn Thr Leu Ala
 35

<210> 6115
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6115

Tyr Phe Arg Leu Phe Arg Arg Leu Phe Lys Phe Phe Lys Arg Arg Ala
 1 5 10 15

Pro Leu Leu Lys Asn Ser Leu Tyr Leu Val Ala Leu
 20 25

<210> 6116
 <211> 49
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6116

Arg Trp Lys Leu Met Ser Arg Leu Phe Arg Lys Leu Arg His Pro Ala
 1 5 10 15

Cys Asp Asp Ala Leu Gly Phe Leu Leu Thr Asp Lys Leu Met Lys Ser
 20 25 30

Leu Lys Phe Lys Leu Arg Cys Arg Met Tyr Cys Ser Ala Arg Trp Ala
 35 40 45

Leu

<210> 6117
 <211> 42
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6117

Lys Tyr Lys Phe Leu Lys Lys Leu Ile Lys Lys Tyr Lys Lys Met Ala
 1 5 10 15

His Gly Pro Arg Ala Tyr Thr Leu Tyr Arg Leu Leu Phe Leu Cys Arg
 20 25 30

Lys Glu Asp Ala Leu Leu Gln Asp Leu Asp
 35 40

<210> 6118

<211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6118

Leu Ile Lys Met Phe Lys Arg Ile Leu Arg Arg Met Ser Cys Arg Arg
 1 5 10 15

Lys Asp Asn Leu Ile Trp Arg Glu Leu Leu Leu Gly Cys Ala Lys Leu
 20 25 30

Leu Arg

<210> 6119
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6119

Leu Tyr Lys Leu Tyr Asn Arg Phe Leu Lys Arg Trp Arg Lys Cys Arg
 1 5 10 15

Glu Ser Lys Leu His Thr Ala Lys Ala Ala Gly Gln Lys Asn
 20 25 30

<210> 6120
 <211> 44
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6120

Arg Phe Lys Leu Leu Lys Lys Phe Leu Arg Lys Leu Lys Asn Leu Ala
 1 5 10 15

Gly Asn Leu Lys Thr Asn Ser Trp Ala Arg Pro Arg Lys Trp Asp Leu
 20 25 30

Lys Ala Phe Ala Val Ile Ala Lys Leu Asn Gly Val

35

40

<210> 6121

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6121

Arg Leu Arg Trp Trp Lys Arg Trp Leu Arg Leu Phe Arg Cys Leu Lys
 1 5 10 15

Arg Lys Cys Leu Val Arg Arg Phe Asn Gly Phe Ile Leu Leu Ile Leu
 20 25 30

His Ala Leu Tyr
 35

<210> 6122

<211> 64

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6122

Leu Trp Arg Leu Leu His Lys Trp Phe Arg Met Phe Lys Arg Lys Trp
 1 5 10 15

Leu Asp Cys His Arg Met Ala Lys Leu Phe Ala Arg Pro Arg Asn Phe
 20 25 30

Leu Leu Met Ala Arg Lys Met Ala Asn Lys Glu His Gly Ala Met Leu
 35 40 45

Lys Phe Glu Leu Leu Ala Ala His Ala Leu Lys Ala Met His Leu His
 50 55 60

<210> 6123

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6123

Met Leu Lys Leu Tyr Arg Lys Ile Met Arg Leu Phe His His His Tyr
1 5 10 15

Leu Gly Leu Ala Lys Gly Arg Arg Leu Leu Cys Leu
20 25

<210> 6124

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6124

Arg Ile Arg Leu Leu Arg Arg Phe Tyr Arg Leu Leu Ser Arg Cys Arg
1 5 10 15

Thr Leu Thr Met Tyr Arg Leu Cys His Leu Arg Asn
20 25

<210> 6125

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6125

Lys Trp Arg Ile Leu Arg Lys Met Leu Arg Phe Phe Asn Gln Lys Ala
1 5 10 15

Glu Lys Gly Arg Val Ala Leu Lys Ala His Asn Cys Ala
20 25

<210> 6126

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6126

Tyr Phe Arg Leu Leu Lys Arg Leu Trp Lys Arg Trp Pro Lys Leu Met

1 5 10 15

Ala Leu Asp Lys Met Met
20

<210> 6127
<211> 66
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 6127

Lys Leu Arg Leu Leu Arg Lys Ile Ile Arg Lys Phe Gln Arg Ala Met
1 5 10 15

Gly Cys Ile Asp Val Ala Ala Leu Gly Lys His Ala Phe Tyr Pro Asn
20 25 30

Leu Asn Arg Lys Leu Ala Ala Leu Arg Tyr Lys Arg Pro Arg Glu Leu
35 40 45

Lys Val Lys Asn Lys Asn Lys Arg Leu Tyr Ala Leu Lys Arg Ser Cys
50 55 60

Asn Ala
65

<210> 6128
<211> 77
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 6128

Leu Leu Lys Leu Leu Arg Lys Leu Phe Lys Arg Phe Lys Asn Leu Ala
1 5 10 15

Arg Leu Lys Leu Arg Leu Arg Ala Ala Lys Ser Cys Glu Tyr Leu Ala
20 25 30

Phe Val Gln Glu Lys Arg Leu Val Pro Cys Ala Pro Gln Trp Phe Leu
35 40 45

Val Lys Leu Gly Arg Asn Ala Ile Lys Gln Phe Arg Gly Gly Trp Tyr
 50 55 60

Arg Lys Leu Leu Lys Ile Lys Ile Val Ile Cys His Leu
 65 70 75

<210> 6129
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6129

Arg Leu Arg Trp Leu Pro Lys Phe Met Arg Met Leu Lys Thr Ser Lys
 1 5 10 15

Lys Asp Leu Arg Leu Ala Thr Lys Leu Leu Gln Asn Ser
 20 25

<210> 6130
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6130

Arg Phe Arg Phe Leu Lys Lys Ile Leu Lys Arg Ile Lys Pro Leu Asp
 1 5 10 15

Ala Lys Ala Ala Leu Glu
 20

<210> 6131
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6131

Arg Phe Lys Met Leu His Lys Leu Leu Arg Arg Leu Lys Arg Met Ala
 1 5 10 15

Phe Tyr Val Cys Ala Lys Gly
20

<210> 6132
<211> 42
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 6132

Arg Ile Arg Phe Tyr Arg Arg Leu Phe Arg Trp Leu Arg Ser Ala Lys
1 5 10 15

Leu Arg Leu Lys Arg Val Gly Ala Ala Phe Leu Trp Leu Leu Leu Thr
20 25 30

Lys Asp Leu Lys Asn Asp Lys Lys Thr Ser
35 40

<210> 6133
<211> 52
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 6133

Lys Trp Arg Phe Leu Gln Arg Leu Leu Arg Arg Leu Asn Lys Leu Met
1 5 10 15

Lys Trp Lys Cys Leu Leu Cys Arg Trp Pro Lys Met Leu Leu His Gly
20 25 30

Ser Leu Ala Ser Phe Lys Gln Ala Lys Arg Met Asp Met Lys Leu Lys
35 40 45

His Pro Leu Ala
50

<210> 6134
<211> 68
<212> PRT
<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6134

Lys	Leu	Arg	Phe	Trp	Gln	Lys	Leu	Leu	Lys	Arg	Trp	Lys	Pro	Thr	Ala
1				5					10					15	

Ala	Tyr	Arg	Lys	Met	Arg	Val	Cys	Ser	Gln	Arg	Ala	Leu	Ala	Arg	Gly
			20				25						30		

Lys	Phe	Trp	Ser	Thr	Lys	Phe	Cys	Arg	Cys	Trp	Ala	Gly	Ala	Ala	Leu
		35					40					45			

Val	Arg	Met	Arg	Asp	Arg	Gln	Arg	Arg	Leu	Arg	His	Ala	Leu	Ala	Thr
	50					55					60				

Arg	Ala	Glu	Gly
65			

<210> 6135

<211> 82

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6135

Arg	Leu	Lys	Leu	Phe	Asn	Lys	Tyr	Leu	Lys	Trp	Ile	Arg	Cys	Asp	Ala
1				5					10					15	

Ala	Lys	Trp	Ile	Ala	Ala	Met	Ala	Pro	Val	Tyr	His	Phe	Cys	Ala	Glu
			20				25						30		

Lys	Gln	Phe	Lys	Cys	Lys	Ala	Leu	Arg	Thr	Thr	Cys	Lys	Leu	Phe	Arg
		35					40					45			

Leu	Ala	Arg	Ala	His	Leu	Lys	Lys	Pro	Leu	Leu	Arg	His	Arg	Arg	Cys
	50					55					60				

Ser	Leu	Arg	Gln	Glu	Arg	Thr	Lys	Lys	His	Ala	Ala	Arg	Leu	Phe	Lys
65					70					75					80

Cys	Arg
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<210> 6136
 <211> 96
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6136

Lys Tyr Lys Trp Tyr Ser Arg Leu Phe Arg Arg Phe Lys Asn Gly Gly
 1 5 10 15

Arg Arg Lys Cys Arg Leu Lys Arg Leu Leu Ser Lys Pro Cys Lys Lys
 20 25 30

Ala Leu Arg Ala Ala Met Pro Gln Ser Lys Phe Lys Pro Asn Lys Ala
 35 40 45

Leu Ala Leu Arg Tyr Ala Asn Ala Trp Gly Ser Arg Asp Arg Lys Leu
 50 55 60

Arg Phe Asn Lys Ala Gly Ala Ser Tyr Ala Ala Arg Leu Leu Ile Ala
 65 70 75 80

Ala Arg Ser Arg Cys Ala Leu Lys Gly Arg Gly Ala Ala His Lys His
 85 90 95

<210> 6137
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6137

Leu Leu Arg Met Leu Lys Lys Leu Leu Arg Lys Ile Lys Gln Leu Leu
 1 5 10 15

Arg Lys Leu Asp Gly Tyr
 20

<210> 6138
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6138

Ile	Leu	Lys	Phe	Phe	Arg	Arg	Leu	Leu	Lys	Arg	Phe	Cys	Arg	Ala	Ser
1				5					10					15	

Leu	Tyr	Trp	Cys	Lys	His	Arg	Ala
			20				

<210> 6139

<211> 47

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6139

Lys	Met	Lys	Met	Ile	Arg	Arg	Trp	Leu	Lys	Leu	Trp	Arg	Lys	Lys	Arg
1				5					10					15	

Pro	Tyr	Arg	Ala	Asp	Phe	Ile	Leu	Ala	Glu	Ala	Gln	Thr	Lys	Thr	Ala
			20					25					30		

His	Leu	Asp	Leu	Arg	Arg	Ala	Phe	Gln	Leu	Arg	Ala	Val	Leu	Lys
		35					40					45		

<210> 6140

<211> 52

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6140

Arg	Tyr	Arg	Leu	Phe	Arg	Lys	Trp	Ile	Arg	Arg	Phe	Lys	His	Trp	Lys
1				5					10					15	

Leu	Phe	Glu	Gln	Lys	His	Ala	Arg	Arg	Gly	Asp	Ala	Asp	Asn	Leu	Ala
			20					25					30		

Arg	Ala	Ala	Ala	Ala	Arg	Asn	Leu	Leu	Asp	Tyr	Arg	Leu	Met	Ala	Gly
			35				40					45			

His	Glu	Lys	Lys
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50

<210> 6141
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6141

Tyr Leu Lys Phe Ile Arg Arg Leu Leu Arg Met Phe Asn Arg Ser Leu
 1 5 10 15

Arg Met Glu Met Arg His Ala Lys Ala
 20 25

<210> 6142
 <211> 50
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6142

Lys Leu Lys Phe Ile Thr Arg Leu Ile Lys Lys Leu Arg Arg His Lys
 1 5 10 15

Thr Ala Leu Val Gly Gly Asn Ala Arg Ala Ala Lys His Ser Asp Ala
 20 25 30

Leu Arg Ser Lys Gln Gln Ala Ala Glu Cys Ile Leu Arg Lys Lys Ala
 35 40 45

Lys Tyr
 50

<210> 6143
 <211> 99
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6143

Arg Phe Lys Leu Phe Arg Lys Trp Phe Lys Tyr Tyr Asn Arg Ala Pro

1								5								10								15
Ile	Arg	Asn	Leu	Cys	Ala	Gly	His	Ile	Arg	Gly	Ser	Tyr	Tyr	Leu	Pro									
			20					25					30											
Tyr	Trp	Cys	Arg	Leu	Ala	Ala	Ser	Ala	Phe	Leu	Met	Gln	Arg	Ile	Ser									
		35					40					45												
Ala	Lys	Ala	Ser	Arg	Lys	Ala	Lys	Trp	Leu	Leu	Ala	Arg	Ala	Ile	Lys									
	50					55					60													
Cys	Lys	Ala	Leu	Lys	Ser	Leu	Ile	Leu	Lys	Arg	Leu	Leu	Ala	Thr	Ile									
65					70					75					80									
Ala	Thr	Lys	Arg	Ala	Leu	Leu	Pro	Phe	Ala	Asp	Thr	Asn	Lys	Leu	Asn									
				85					90					95										

Phe Ala Lys

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<210> 6144
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 6144
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Trp Tyr Arg Trp Trp Lys Arg Leu Leu Lys Leu Trp Lys Lys Arg Leu
1 5 10 15

Phe Thr Lys His Ala Ala Ala Lys Arg Ile Leu Ala
20 25

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<210> 6145
<211> 51
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 6145
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Lys Leu Arg Leu Ile Arg Lys Phe Leu Lys Arg Met Gln Thr Leu Arg
1 5 10 15

Tyr Ala Ile Trp Arg Leu Gly Arg Ala Trp Arg Asn Leu Pro Ala Phe
 20 25 30

Arg Ala Asn Arg Ala Val Arg Arg Ala Arg Gly Tyr Met Cys Phe Trp
 35 40 45

Lys Val Arg
 50

<210> 6146
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6146

Trp Tyr Arg Tyr Ile Lys Lys Tyr Ile Arg Lys Phe Lys Arg Lys Pro
 1 5 10 15

Leu Leu Gly Leu Glu Arg Leu Ile Leu Lys Leu Ala Leu Leu Tyr Asn
 20 25 30

Leu Leu Thr
 35

<210> 6147
 <211> 63
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6147

Arg Leu Lys Leu Leu Lys Arg Leu Met Lys Lys Ile Lys His Lys Leu
 1 5 10 15

Tyr Val Leu Lys Val Ala Gln Gly Leu His Thr Arg Leu Lys Arg Val
 20 25 30

Phe Ala His Leu Tyr Leu Glu Leu Met Cys Leu Lys Leu Thr Pro Arg
 35 40 45

Trp Glu Ile Ile Leu Arg Leu Phe Lys Lys His Tyr Glu Arg Leu

50

55

60

<210> 6148

<211> 42

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6148

Arg Leu Arg Trp Leu Gln Arg Phe Tyr Arg Lys Trp Arg Arg His Ile
 1 5 10 15

Pro Ala Val Lys Ala Leu Met Ala Gly Leu Gln Lys Ser Ala Arg Leu
 20 25 30

Arg Trp Ala Ala Pro Pro His Ile Ala Leu
 35 40

<210> 6149

<211> 68

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6149

Lys Met Arg Trp Leu Ser Lys Met Leu Arg Arg Leu Lys Arg Lys Leu
 1 5 10 15

Pro Tyr Gly Asn Phe Val Arg Pro Lys Lys Leu Glu Cys Arg Ser Thr
 20 25 30

Ala Arg Pro Lys Ser Lys Leu Ala Leu Phe Leu Pro Tyr Arg Leu Leu
 35 40 45

Gln Asp Gln Cys Ser Cys His Lys Ala Ile Ala Asn Ala Leu Ala Lys
 50 55 60

Lys Ala Leu Leu
 65

<210> 6150

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6150

Arg Leu Arg Leu Ile Asn Arg Leu Leu Arg Met Leu His Arg Val Phe
1 5 10 15

Tyr Gln Arg His
20

<210> 6151

<211> 81

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6151

Arg Leu Lys Leu Leu Lys Arg Leu Tyr Arg Phe Phe Pro Arg Ala Lys
1 5 10 15

Leu Gln Ile Arg Phe Gly Ser Leu Glu Leu Lys Ala Ser Val Lys Phe
20 25 30

Ala Glu Pro Ile Arg Leu Arg Leu Lys Asp Lys Pro Ala Arg Lys Arg
35 40 45

Val Gln Arg Leu Tyr Arg Leu Ala Lys Ala Arg Ala Thr Ala Pro Asp
50 55 60

Lys Ile Leu Asp Phe Lys Leu Val Ala Ile Lys Tyr Val Lys Gln Cys
65 70 75 80

Leu

<210> 6152

<211> 84

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6152

Leu Ile Lys Tyr Leu Arg Lys Phe Trp Arg Leu Met Arg Arg Arg His
 1 5 10 15

Phe Ala Thr Tyr Pro His Ala Ala Lys Leu His Ala Ser Leu Ile Leu
 20 25 30

Tyr Lys Lys Asp Tyr Lys Ala Cys Lys Ala Cys Asn Gly His Gln Val
 35 40 45

Ala Arg Gln Lys Ala Ala Val Leu Leu Leu Arg Gly Arg Lys Leu Arg
 50 55 60

Gly Leu Ala Val Leu Cys Arg Ala Lys Phe Ser Ala Arg Arg Asn Glu
 65 70 75 80

Gly Asn Arg Leu

<210> 6153
 <211> 54
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6153

Trp Leu Arg Phe Leu Thr Arg Leu Ile Arg Lys Trp Lys Gln Lys Ser
 1 5 10 15

Pro Lys Asn Tyr Leu Arg Ala Ala Pro Arg Leu Pro Glu Leu Lys Arg
 20 25 30

Cys Gln Pro Pro Ala Asn Pro Phe Leu Ala Leu Asn Lys Ala Arg Pro
 35 40 45

Val Lys Pro Lys Ala Ala
 50

<210> 6154
 <211> 98
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6154

Phe Phe Lys Ile Phe Arg Arg Phe Phe Arg Met Leu Lys Cys Gln His
 1 5 10 15

Met Lys Ala Leu Leu Arg Gly Gln Arg Asn Leu Leu Gln Asp Leu Glu
 20 25 30

Asn Ile Ile Lys Ala Arg Lys Pro Leu Thr Lys Val Arg Ala Ala Leu
 35 40 45

Ala Lys Lys Gln Arg Arg Met Ala His Lys His Leu Ile Ala Val Arg
 50 55 60

Cys Val His Lys Leu Ile Arg Val Thr Arg Ala Leu Val Lys Tyr Cys
 65 70 75 80

Lys Ala Cys Arg Gln Leu Arg Lys Gly Leu Leu Ala Leu Lys Ser Ser
 85 90 95

Ile Lys

<210> 6155

<211> 70

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6155

Arg Trp Lys Phe Leu Lys Lys Trp Phe Arg Lys Met Asn Cys Arg Ala
 1 5 10 15

Glu Met Arg Leu Cys Cys Ala Trp Arg Leu Lys His Ala Lys Phe Ala
 20 25 30

Gly Lys Ala Ala Arg Met Ala Arg Leu Leu Arg Ala Ile Lys Ala Lys
 35 40 45

Arg Leu Arg Lys Ala Met Gln Glu Lys Ile Thr Phe Cys Gln Trp Ala
 50 55 60

Asp Lys Ala Ser Leu Ile

65

70

<210> 6156

<211> 57

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6156

Lys Met Arg Phe Phe Lys Lys Leu Ile Lys Lys Phe Lys Gln Leu Ala
 1 5 10 15

Ala Ala Val Ser Ser Lys Trp Arg Arg Ser Ile Ala Leu Leu Leu Val
 20 25 30

Ser Ile Lys Phe Lys His Glu Gln Ala Ile Leu Arg Lys Val Arg Arg
 35 40 45

Ala Phe Leu Lys Ala Asn Ile Gln Leu
 50 55

<210> 6157

<211> 43

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6157

Lys Leu Arg Tyr Tyr Lys Arg Phe Leu Arg Lys Leu Pro Arg Met Asp
 1 5 10 15

Asp Ala Pro Lys Arg Ala Ala Pro Ala Thr Gly Phe Pro Phe Lys Cys
 20 25 30

Leu Arg Ser Met Lys Arg Leu Thr Ala Glu Ala
 35 40

<210> 6158

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6158

Phe	Phe	Lys	Met	Leu	Gln	Arg	Met	Phe	Arg	Lys	Leu	Arg	Thr	Glu	Arg
1				5					10					15	

Leu	Asp	Ala	Ala	Ala	Ala	Tyr	Cys	Ser	Leu	Lys	Ser	Lys	Ala
		20						25					30

<210> 6159

<211> 75

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6159

Lys	Leu	Lys	Leu	Ile	His	Arg	Leu	Trp	Lys	Trp	Ile	Arg	Lys	Leu	Gln
1				5					10					15	

Val	Trp	Thr	Leu	Lys	Ala	Ala	Ala	Asp	Leu	Lys	Lys	Ile	Met	Val	Arg
			20					25					30		

Ala	Gly	Leu	Lys	Lys	Met	Arg	Ala	His	Leu	Lys	Ala	Lys	Phe	Pro	Gln
		35					40					45			

Lys	Glu	Cys	Met	Ala	Ala	Lys	Ser	Asp	His	Lys	Tyr	Leu	Tyr	Arg	Arg
	50					55					60				

Gln	Glu	Ser	Leu	Asn	Arg	Lys	Asp	Val	Arg	Arg
65					70					75

<210> 6160

<211> 56

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6160

Met	Leu	Lys	Leu	Tyr	Lys	Arg	Met	Tyr	Lys	Leu	Met	His	Arg	Lys	Ala
1				5					10					15	

Glu	Leu	Ser	Pro	Ile	Arg	Ala	Cys	Thr	Leu	Leu	Lys	Asn	Glu	Ile	Arg
			20					25					30		

Ala Gln Arg Gly Lys Arg His Arg Leu Lys Ser Ala Gly Lys Arg Ala
35 40 45

Met Asp Ala Trp Asn Ala Arg Lys
50 55

<210>	6161
<211>	22
<212>	PRT
<213>	Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 6161

Leu Ile Lys Phe Phe Asn Lys Trp Leu Lys Arg Phe Ser Lys Ala Leu
1 5 10 15

Ala Arg Leu Asn Ala Val
20

<210>	6162
<211>	24
<212>	PRT
<213>	Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 6162

Arg Phe Arg Tyr Phe Asn Arg Leu Phe Arg Lys Met Pro Arg Leu Leu
1 5 10 15

Leu Leu Asn Pro Ala Lys Arg Leu
20

<210>	6163
<211>	50
<212>	PRT
<213>	Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 6163

Lys Trp Arg Leu Phe Gln Lys Leu Met Arg Arg Tyr Lys Lys Glu Arg
1 5 10 15

Gln Ala Glu Ile Cys Gly Leu Val Leu Ala Lys Phe Ala Arg Pro Ala
 20 25 30

Ala Tyr Ala Lys Ala Leu Arg Lys Asp Leu His Glu Trp Lys Gln Ala
 35 40 45

Cys Ala
 50

<210> 6164
 <211> 81
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6164

Lys Leu Lys Leu Phe Thr Arg Leu Tyr Arg Lys Phe Lys Asn Leu Ile
 1 5 10 15

Leu Gly Leu Glu Ala Cys Leu Met Leu Met Ala Phe Arg Leu Leu Leu
 20 25 30

Leu Lys Ala Tyr Lys Pro Ala Ser Ala Lys Val Leu Phe Glu Lys Ser
 35 40 45

Arg Arg His Leu Lys Leu Asn Thr Trp Asn Leu Lys Leu Pro Leu Ala
 50 55 60

Ser Arg Tyr Glu Asp Asp Cys Lys Lys Met Pro Arg Lys Met Lys Cys
 65 70 75 80

Lys

<210> 6165
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6165

Lys Phe Arg Ile Leu Cys Arg Tyr Leu Arg Phe Phe Lys Gln Lys Leu

1 5 10 15

Ala Leu Arg Ala
20

<210> 6166
<211> 76
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 6166

Leu Phe Lys Phe Ile Lys Lys Tyr Trp Lys Leu Tyr Thr Ser Val Lys
1 5 10 15

Arg Lys Ile Tyr Arg Leu Ala Arg Leu Arg Ala Tyr Lys Arg Leu Ala
20 25 30

Leu Ile Cys Ala Arg Ala Leu Lys Ser Ala Lys Arg Ala Glu Lys Thr
35 40 45

Trp Asp Leu Thr Leu Cys Val Phe Ala Tyr Ala Glu Ser Leu Lys Lys
50 55 60

Ala Glu Asp Ala Gln Leu Ile Val Glu Trp Pro Lys
65 70 75

<210> 6167
<211> 33
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 6167

Lys Met Lys Trp Leu Arg Arg Phe Leu Lys Arg Phe Cys Thr Lys Ala
1 5 10 15

Lys Thr Leu Ala Lys Ser Phe Pro Leu Asp Arg Ala Arg Leu Asn Leu
20 25 30

Ala

<210> 6168
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6168

Leu Met Arg Trp Phe Arg Arg Ile Phe Lys Tyr Tyr Arg Lys Ala Arg
 1 5 10 15

Gln Ala Leu Ala Ala Leu Met Arg Arg Leu Leu Thr Asn Glu Lys Met
 20 25 30

Lys Arg Ala Cys
 35

<210> 6169
 <211> 42
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6169

Lys Phe Arg Tyr Phe Pro Arg Met Leu Lys Arg Leu Gln Arg Arg His
 1 5 10 15

Pro Gln Leu Leu Lys Ala Ala Leu Cys Arg Pro Leu Met Gln His Ala
 20 25 30

Lys Ala Tyr Lys Lys Gln Pro Ala Phe Leu
 35 40

<210> 6170
 <211> 58
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6170

Ile Tyr Arg Met Ile Lys Arg Leu Phe Arg Arg Leu His Gln Glu Arg
 1 5 10 15

Lys Ala Ser Lys Leu His Thr Arg Leu Arg Ser Lys Ala Ile Ala Lys
 20 25 30

Arg Lys Lys Pro Gln Trp Glu Arg Ala Leu Leu Arg Arg Thr Ala Met
 35 40 45

Tyr Ala Ala Met Pro Asn Tyr Ala Leu Lys
 50 55

<210> 6171
 <211> 46
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6171

Lys Leu Lys Leu Phe Ser Arg Leu Tyr Lys Leu Leu Pro Cys Leu Ala
 1 5 10 15

Tyr Met Trp Leu Gln Arg Asp Lys Lys Lys Arg Leu Val Trp Ser Phe
 20 25 30

Val Arg Lys Lys Lys Leu Leu Trp Ile Arg Leu Lys Leu Arg
 35 40 45

<210> 6172
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6172

Leu Leu Arg Trp Leu Gln Arg Leu Leu Lys Arg Leu Lys Lys Ile Arg
 1 5 10 15

Leu Lys Asn Pro Arg Glu Leu Lys Lys Lys Ile Arg Met Lys Phe Arg
 20 25 30

Leu Leu Cys Ser Leu Cys Val Gln
 35 40

<210> 6173

<211> 75
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6173

Leu Ile Arg Phe Trp Cys Arg Ile Trp Arg Leu Ile Arg Thr Gly Arg
 1 5 10 15

His Tyr Ala Arg Glu Leu Arg Arg Asn Leu Glu Ala Ala Ser Leu Met
 20 25 30

Asn Lys Ala Met Trp Trp Lys Arg Arg Asp Ala Ala Gly His Lys Leu
 35 40 45

Lys Ala Pro Ala Thr Ser Leu Lys Trp Ala Arg Ile Ala Cys Lys Met
 50 55 60

Ala Lys Ala Lys Arg Lys Thr Leu Ile Ala Leu
 65 70 75

<210> 6174
 <211> 78
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6174

Leu Leu Lys Ile Leu Arg Arg Leu Phe Lys Phe Tyr Lys Lys Gln Trp
 1 5 10 15

Leu Trp Gly Arg Leu Asp Lys Arg Arg Phe Ala Ala Lys Gln Asp Met
 20 25 30

Lys Cys Leu Cys Arg Arg Ala Gln Val Trp Ile Trp Ala Asp Phe Asn
 35 40 45

Ala Lys Ala Arg His Gln Lys Leu Lys Ile Leu Ala Leu Lys Arg Lys
 50 55 60

Cys Ala Pro Asp Arg Lys Ala Gly Met Ser Asp Lys Gly Ala
 65 70 75

<210> 6175
 <211> 94
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6175

Lys Leu Lys Leu Leu Arg Lys Leu Phe Arg Met Leu Arg Gln Asn Arg
 1 5 10 15

Arg Leu Phe Leu Lys Leu Ser Cys Lys Ser Asp Pro Arg Asn Leu Arg
 20 25 30

Leu Arg Lys Thr Lys Ala Leu Lys His Trp Trp Phe Ala Leu Glu Glu
 35 40 45

Ser Glu Leu Val Gly Pro Ala Pro Arg Lys Asp Thr Gln Arg Leu Lys
 50 55 60

Lys Leu Ile Ala Leu Lys Trp Gln Lys Phe Arg Ala Phe Ala Ser Pro
 65 70 75 80

Asn Ala Leu Arg Tyr Lys Thr Ala Arg Asp His Gln Ser Gly
 85 90

<210> 6176
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6176

Arg Leu Arg Phe Met Lys Lys Tyr Leu Lys Leu Trp Arg Lys Arg Ile
 1 5 10 15

Cys Leu Gly Arg Ala Arg Leu Ala Arg Met Ala Lys Ala Pro Leu Ser
 20 25 30

Ala His Arg
 35

<210> 6177

<211> 68
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6177

Lys Leu Arg Leu Leu Lys Lys Leu Tyr Arg Arg Trp Pro Lys Cys Arg
 1 5 10 15

Arg Arg Ala Phe Arg Asn Gly Val Leu Lys Leu Pro Pro Thr Arg Leu
 20 25 30

Lys Glu Cys Ala Lys Leu Val Gln Ile Arg Ala His Ser Leu Leu Leu
 35 40 45

Trp Ala Gln Ala Asn Ser His Leu Arg Lys Ala Cys Arg Trp Ser Glu
 50 55 60

Ala Ala Phe Leu
 65

<210> 6178
 <211> 37
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6178

Leu Ile Lys Leu Phe Arg Lys Met Leu Arg Arg Leu Lys Lys His Asn
 1 5 10 15

Lys Lys Arg Ser Tyr Lys His Leu Asn Thr Tyr Gln Phe Gln Leu Ala
 20 25 30

Ala Lys Met Cys Ala
 35

<210> 6179
 <211> 67
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6179

Met	Leu	Arg	Tyr	Tyr	Arg	Arg	Phe	Leu	Arg	Lys	Leu	Arg	Asn	Glu	Lys
1				5					10					15	

Lys	Ser	Leu	Ala	Leu	Gln	Arg	Asn	Lys	Lys	Tyr	Trp	Arg	Gly	Val	Arg
			20					25					30		

Ala	Ala	Asn	Val	Ala	Ala	Arg	Leu	Leu	Lys	Ser	Cys	Leu	Arg	Pro	Arg
		35					40					45			

Arg	His	Thr	Ala	Thr	Ala	Cys	Arg	Cys	Ser	Val	Arg	Cys	Arg	Leu	Thr
	50					55					60				

Ala	Leu	Thr
65		

<210> 6180

<211> 55

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6180

Leu	Met	Arg	Leu	Trp	Arg	Lys	Met	Ile	Lys	Leu	Met	Arg	Arg	Gly	Asn
1				5					10					15	

Asn	Arg	Lys	His	Gln	Lys	Ala	Ala	Phe	Ala	Leu	Leu	His	Ile	Leu	Ala
			20					25					30		

Phe	Ala	Asp	Ile	Lys	Gly	Arg	Ala	Glu	Lys	Lys	Thr	Ala	Leu	Arg	Val
		35					40					45			

Lys	Arg	Gln	Phe	Trp	Pro	Leu
50						55

<210> 6181

<211> 43

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6181

Ile Ile Arg Trp Tyr Lys Lys Leu Phe Lys Arg Leu Lys Cys Ala Ala
 1 5 10 15

Gln Gly Lys Lys Cys Leu Lys Lys Leu Ala Asn Met Asn Gly Lys Thr
 20 25 30

Asp Met Arg Leu Leu Trp Leu Lys Gly Lys Asp
 35 40

<210> 6182
 <211> 48
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6182

Leu Leu Lys Leu Leu Lys Arg Tyr Leu Arg Arg Ile Asn Arg Asp Arg
 1 5 10 15

Leu Glu Gln Ser Leu Ala Leu Gly Leu Val Val Ala Gly Arg Arg Asp
 20 25 30

Ala Ala Cys Arg Leu Asn Met Asn Arg Arg Cys Phe Gly Tyr Lys Ile
 35 40 45

<210> 6183
 <211> 56
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6183

Tyr Ile Lys Phe Leu Arg Lys Trp Leu Lys Lys Leu Lys Arg Ser Trp
 1 5 10 15

Ala Lys Arg Ile Val Arg His Ile Arg Ala Gln Glu Arg Leu Val Phe
 20 25 30

Cys Lys Leu Pro Lys Glu Leu Val Ala Leu Lys Asn Ala Ser Glu Gly
 35 40 45

Ala Leu Lys Arg Leu Leu Cys Cys

50

55

<210> 6184

<211> 53

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6184

Arg Trp Arg Ile Leu Arg Arg Trp Phe Lys Phe Phe Arg Ser Val Gly
 1 5 10 15

Leu Ala Phe Gly Arg Ala Ala Lys Leu Ala His Arg Pro Asp Leu His
 20 25 30

Ala Lys Ala Thr Ile Phe Arg Gly Leu Gln Ala Cys Ala Leu Lys Ala
 35 40 45

Met Ala Arg Ala Ala
 50

<210> 6185

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6185

Tyr Met Arg Leu Tyr Lys Lys Leu Leu Lys Ile Tyr Lys Arg Leu Ser
 1 5 10 15

His Lys Lys Ser Tyr Arg Ile Lys Ala Ala Trp Asp Leu Leu Tyr Val
 20 25 30

Lys Tyr Leu Ile Lys Glu Ala Val
 35 40

<210> 6186

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6186

Leu Leu Lys Leu Met Lys Lys Leu Tyr Arg Arg Tyr Arg Cys Gly Glu
 1 5 10 15

Lys Leu Leu Ala Arg Phe Ile Met Ser Leu Lys Leu
 20 25

<210> 6187

<211> 41

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6187

Lys Trp Lys Leu Trp Lys Lys Met Trp Arg Leu Leu Lys Lys Glu Ala
 1 5 10 15

Ala Asn Arg Arg Arg Ala Leu Lys Lys Ser Asn Leu Lys Ala Pro Ile
 20 25 30

Leu Glu Lys Pro Ser Ala Lys His Met
 35 40

<210> 6188

<211> 50

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6188

Arg Ile Arg Ile Trp Lys Arg Trp Tyr Lys Ile Leu Cys Arg Arg Glu
 1 5 10 15

Lys Val Phe Trp Ser Ser Ala Lys Thr Ile Met Leu Leu Arg Ala Lys
 20 25 30

Arg Ile Thr Leu Arg Leu Leu Cys Trp Ala Ala Lys Ala Leu Lys Gln
 35 40 45

Ala Lys
 50

<210> 6189
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6189

Leu Phe Lys Leu Ile His Arg Phe Leu Lys Lys Leu Asn His Ala Lys
 1 5 10 15

Trp His Lys His Arg Pro Thr Ala Asn Lys Val Leu Lys Leu Glu Cys
 20 25 30

Leu Arg

<210> 6190
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6190

Leu Ile Lys Met Tyr Arg Arg Phe Leu Arg Lys Met Lys Asn Leu Gln
 1 5 10 15

Arg Ala Met Tyr Ala Gly Ser Trp Ala Cys Ala Ala Phe Ala Trp Ala
 20 25 30

Arg Lys

<210> 6191
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6191

Lys Phe Arg Leu Phe Ser Lys Leu Leu Arg Ile Trp Asn Asn Ala Ala
 1 5 10 15

Lys Lys Ser Thr Lys
20

<210> 6192
<211> 34
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 6192

Phe Met Arg Met Ile Arg Lys Leu Met Lys Leu Leu Arg Ser Val Arg
1 5 10 15

Lys Tyr Gln Arg Leu Ala Tyr Leu Leu Tyr Gln Arg Thr His Val Ala
20 25 30

Leu Leu

<210> 6193
<211> 45
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 6193

Leu Met Arg Leu Tyr Pro Lys Leu Phe Lys Phe Ile Arg Arg Arg Asp
1 5 10 15

Ala Lys Leu Val Arg Ala Leu Leu Phe Asn Arg Leu Val Lys Phe Met
20 25 30

Leu Ala Arg Val Asp Asp Arg Phe His Arg Ser Gly Arg
35 40 45

<210> 6194
<211> 82
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 6194

Lys Leu Arg Phe Phe Arg Arg Leu Met Lys Met Leu Lys Arg Arg Pro
 1 5 10 15

Lys His Ala Arg Asp Leu Lys Leu Phe Leu Arg Leu Arg Glu Ala Gly
 20 25 30

Tyr Thr Ala Lys Arg Leu Phe Arg Arg Leu Lys Glu Arg Lys Trp Lys
 35 40 45

Asp Trp Ala Ile Leu Thr Leu Glu Arg Ala Leu Tyr Val Lys Gln Tyr
 50 55 60

Ser Arg Gly Leu Ala Ser Leu Thr Gln Ala Asp Gly Leu Val Trp Ala
 65 70 75 80

Thr Thr

<210> 6195
 <211> 52
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6195

Lys Ile Arg Leu Met Lys Arg Leu Phe Arg Lys Leu Arg Cys Tyr Asp
 1 5 10 15

Leu Ala Lys Thr Gln Ala Glu Arg Pro Leu Arg Trp His Ala Arg Lys
 20 25 30

Arg Met Lys Ile Tyr Phe Ala Lys Thr Lys Ala Ile Ser Ala Ile Met
 35 40 45

Ala Ala Cys Thr
 50

<210> 6196
 <211> 83
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6196

Lys Tyr Arg Ile Leu Thr Lys Leu Trp Arg Leu Leu Pro Arg Lys Arg
 1 5 10 15

Lys Arg Lys Asn Arg Cys Ala Ser Ala Asn Asn Phe Ala Cys Gly Arg
 20 25 30

Leu Leu Asn Arg His Lys Phe Asn His Met Gln Lys Ser Ala Asp Pro
 35 40 45

Ala Ile Trp Ala Leu Leu Ala Arg Arg Arg Leu Trp Leu Leu Gln Lys
 50 55 60

Cys Val His Tyr Lys Val Lys Arg Arg Phe Glu Val Ala Asp Lys Ala
 65 70 75 80

Ala Gly Ala

<210> 6197

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6197

Ile Phe Arg Phe Leu Arg Arg Leu Trp Arg Arg Ile Arg Thr Leu Arg
 1 5 10 15

Ala Ala Asp Leu Ala Ala Val Val Gln Ala
 20 25

<210> 6198

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6198

Leu Met Arg Leu Tyr Arg Lys Phe Phe Arg Lys Leu Gln Asn Lys Met
 1 5 10 15

Leu Lys Asn Ala Gly Gln Leu Ala Lys Lys Leu
 20 25

<210> 6199
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6199

Leu Phe Arg Leu Phe Lys Arg Tyr Phe Lys Lys Leu Lys Arg Gly Ala
 1 5 10 15

Val Tyr Glu Arg Arg Ser Leu His Arg Met Ala Gln Leu Ala Arg Ile
 20 25 30

Met Ala Ala Ile
 35

<210> 6200
 <211> 51
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6200

Lys Leu Lys Leu Phe His Arg Met Leu Arg Leu Tyr Arg Arg Lys Met
 1 5 10 15

Asn Ala Gln Gly Phe Ala Lys Lys Met Arg Ala Lys Ala Ile Phe Gly
 20 25 30

Tyr Arg Pro Asp Leu Ala Leu Trp Asn Leu Cys Lys Ala Lys Ala Leu
 35 40 45

Val Lys Ile
 50

<210> 6201
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6201

Leu Met Arg Leu Leu Lys Arg Leu Leu Arg Lys Tyr Arg Arg Asn Asp
 1 5 10 15

Lys Leu Ala Lys Gln Leu Ile His
 20

<210> 6202

<211> 52

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6202

Arg Phe Lys Leu Phe Arg Arg Tyr Leu Arg Tyr Met Asn Lys Val Trp
 1 5 10 15

Lys Pro Gln His Glu Ala Leu Leu Ile Lys Arg Gln Ala Met Lys Gln
 20 25 30

Ala Ala Asp Trp Phe Ala Arg Ala Leu Ala Gln Lys Cys Leu Leu Pro
 35 40 45

Ala Arg Pro Arg
 50

<210> 6203

<211> 45

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6203

Tyr Tyr Arg Leu Met Pro Lys Leu Trp Arg Tyr Leu Thr Arg Leu Tyr
 1 5 10 15

Ala Ala His Phe Trp Pro Leu Lys Ile Val Lys Gly Arg Thr Thr Val
 20 25 30

Leu Ala Arg Arg Arg Leu Leu Asn Trp Arg Lys Leu Arg

35

40

45

<210> 6204
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6204

Arg Leu Lys Leu Tyr His Arg Leu Leu Lys Phe Tyr Arg Lys Gln Arg
 1 5 10 15

His His Arg Leu Glu Ala Ile Ile Gly Pro Ala Ala
 20 25

<210> 6205
 <211> 51
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6205

Trp Leu Arg Ile Phe Pro Lys Leu Ile Lys Tyr Trp Lys Arg Asp Lys
 1 5 10 15

Thr Ala His Lys Phe Lys Ile Phe Cys Gly Leu Ala Leu Glu Ala Leu
 20 25 30

Ala Arg Lys Leu His Leu Asp Arg Lys Ala Thr His Gln Asp Leu Ala
 35 40 45

Lys Leu Leu
 50

<210> 6206
 <211> 77
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6206

Arg Leu Lys Phe Met Lys Arg Leu Leu Lys Phe Tyr Cys Gln Tyr Lys

1				5					10					15		
Ala	Gln	Arg	Arg	Phe	Cys	Ala	Met	Ala	Pro	Ile	Ala	Arg	Leu	Lys	Asp	
			20					25					30			
Leu	Ser	Lys	Leu	Lys	Glu	Lys	Tyr	Tyr	Ala	Cys	Pro	Leu	Lys	Glu	Asn	
		35					40					45				
Arg	Tyr	Ala	Met	Arg	Leu	Ser	Asp	Arg	Val	Ala	Ala	Val	Arg	Trp	Arg	
	50					55					60					
Ala	Asn	Ala	Ala	Asn	Arg	Ala	Ser	Ala	Gly	Arg	Leu	Pro				
65					70					75						

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<210> 6207
<211> 76
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 6207
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Arg	Ile	Lys	Phe	Trp	Arg	Lys	Tyr	Tyr	Lys	Leu	Ile	Arg	Lys	Ala	Leu
1				5					10					15	
His	Phe	Trp	Tyr	Cys	Thr	Cys	Trp	Ala	Lys	Asp	Arg	Leu	Val	Lys	Ala
			20					25					30		
Lys	Ala	Leu	Lys	Trp	Lys	Leu	Lys	Ile	Leu	Ala	Glu	Arg	Pro	Arg	Ala
		35					40					45			
Arg	Leu	Cys	Ala	Pro	Gln	Arg	Lys	Ala	Arg	Asp	Cys	His	Met	Leu	Ala
	50					55					60				
Glu	Val	Ser	Arg	Ala	Arg	Ala	Leu	Met	Asn	Val	Glu				
65					70					75					

<210>	6208
<211>	38
<212>	PRT
<213>	Artificial Sequence
<220>	
<223>	Computer-generated peptide variant
<400>	6208

Arg Leu Lys Phe Leu Arg Arg Phe Phe Arg Leu Leu Cys Ser Val Arg
 1 5 10 15

Arg Asp Leu Leu His Arg Asn Ala Val Ala Val Lys Trp Asp Arg Leu
 20 25 30

His His Lys Ser Lys Ile
 35

<210> 6209
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6209

Phe Leu Lys Leu Met Ser Arg Leu Leu Lys Arg Met Lys Gln Lys Thr
 1 5 10 15

Asn Leu Lys Lys Lys Ala Leu
 20

<210> 6210
 <211> 57
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6210

Lys Phe Arg Leu Leu Lys Lys Leu Leu Arg Lys Leu Lys Pro Lys Arg
 1 5 10 15

Cys Ile Lys Asp Ser Tyr Ala Glu Asp Leu Gln Thr Ala Ala Arg Ala
 20 25 30

Tyr His Val Gln Met Ile Lys His Tyr Trp Leu Lys Ala Lys Lys Lys
 35 40 45

Ala Asp Ala Met Tyr Leu Tyr Leu Phe
 50 55

<210> 6211

<211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6211

Phe Leu Arg Tyr Ile Gln Lys Ile Tyr Arg Lys Leu Ser Lys Ala Lys
 1 5 10 15

Ala Cys Ala Val Leu Asn Arg Lys Lys Leu Arg Met Leu Gln
 20 25 30

<210> 6212
 <211> 53
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6212

Lys Trp Arg Tyr Phe Lys Arg Leu Leu Lys Arg Trp Ser Ser Leu Arg
 1 5 10 15

Leu Leu Arg Ile Gly Thr Arg Leu His Ala Arg Arg Ser Leu Leu Arg
 20 25 30

Arg Lys Tyr Trp Ser His Met Ala Ala Glu Gly Met Met Lys Phe Val
 35 40 45

Ala Leu Asn Ala Lys
 50

<210> 6213
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6213

Lys Leu Lys Ile Phe His Lys Tyr Phe Arg Tyr Trp His Thr His Lys
 1 5 10 15

Lys Val Leu Cys Leu Leu Lys Lys Arg Val Leu Ala Ala His Ala Lys

20

25

30

<210> 6214
 <211> 38
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6214

Phe Phe Arg Leu Leu Lys Lys Tyr Leu Arg Lys Ile Ser Lys Ala Cys
 1 5 10 15

Tyr Arg Cys Gly Gln Gln His Ala Met Ala Ala Arg Ala Phe Ala Leu
 20 25 30

Lys Leu Asp Thr Arg Ile
 35

<210> 6215
 <211> 51
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6215

Arg Leu Lys Tyr Phe Lys Lys Phe Leu Arg Lys Ile Arg Lys Tyr Lys
 1 5 10 15

Trp Lys Arg Asn Glu Leu Glu Arg Ile Ile Arg Cys Cys Arg Ala Pro
 20 25 30

Ala Ile Leu Ile Arg Lys Leu Lys Tyr Leu Leu Ser His Ile Leu Met
 35 40 45

Asn Leu Leu
 50

<210> 6216
 <211> 45
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6216

Phe Leu Arg Leu Leu Arg Arg Phe Phe Lys Arg Ile His Ser Leu Arg
 1 5 10 15

Ser Arg Lys Lys Ala Lys Leu Tyr Asn Leu Arg Leu Ala Lys Lys Arg
 20 25 30

Gly Cys Phe Pro Ile Phe Thr Gln Ala Gln Ala Ala Leu
 35 40 45

<210> 6217

<211> 44

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6217

Leu Phe Lys Tyr Leu Arg Lys Leu Met Lys Lys Leu Pro Lys Met Ala
 1 5 10 15

Ala Arg Thr Asp Leu Arg Gly Lys Asn Lys Lys Arg Ala Ala Ala Lys
 20 25 30

Leu Lys Met Asp Cys Arg Leu Cys Asp His Phe Pro
 35 40

<210> 6218

<211> 64

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6218

Met Phe Lys Phe Tyr Lys Arg Phe Leu Arg Lys Tyr Arg Thr Gln Glu
 1 5 10 15

Cys Ala His Trp Leu Ala Lys Ile Lys Tyr Ala Ala Ala Arg Tyr Ala
 20 25 30

His Lys Met Lys Ala Ser Arg Gly Met Ala Leu Ile Leu Leu Met Lys
 35 40 45

Arg Cys Arg Thr Pro Lys Arg Arg Leu Arg Leu Ile Met Leu Leu Leu
 50 55 60

<210> 6219
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6219

Leu Phe Arg Leu Leu Arg Arg Leu Leu Arg Lys Phe Ser Thr Ala Leu
 1 5 10 15

Trp Lys Glu Ile Ala Arg Ala Lys Pro
 20 25

<210> 6220
 <211> 41
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6220

Arg Leu Arg Leu Phe Arg Lys Trp Tyr Arg Arg Phe Arg Lys Lys Leu
 1 5 10 15

Lys His Thr Val Ala Lys Leu Gly Ala Cys Asn Cys Leu Gln Tyr Leu
 20 25 30

Lys Lys Pro Ala Leu Ala Ala Glu Met
 35 40

<210> 6221
 <211> 58
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6221

Lys Met Lys Ile Tyr Arg Arg Phe Phe Lys Arg Leu His Arg Ala Asn
 1 5 10 15

Pro Gly Lys Leu Glu Met Ala Asn Ala Ala Cys Val Ser Ala Trp Arg
 20 25 30

Lys Ser Gly Leu Cys Ala Leu Ala Gly Arg Leu Lys Lys Pro Ala Glu
 35 40 45

Arg Asp Ala Leu Lys Arg Lys Thr Glu Gly
 50 55

<210> 6222

<211> 85

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6222

Arg Met Arg Leu Phe Lys Lys Trp Phe Arg Arg Tyr Asn Arg Phe Leu
 1 5 10 15

Arg Ala Glu Ala Lys Trp Arg Gly Tyr Leu Asn Tyr Lys Gln Lys Leu
 20 25 30

Pro Ala Ala Trp Cys Lys Arg Asp Leu Leu Phe Trp Leu Ala Leu Tyr
 35 40 45

Leu Pro Lys Gln Pro Lys Arg Leu Cys Gly His Gln Ala Pro Arg Arg
 50 55 60

Phe Leu Ala Asp Lys Leu Ala Ile Trp Leu Met Lys Arg Arg Leu Ala
 65 70 75 80

Ala Tyr Tyr Tyr Pro
 85

<210> 6223

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6223

Phe Tyr Lys Phe Leu Arg Lys Leu Leu Arg Arg Trp Lys Arg Ala Ala

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<210> 6224
<211> 33
<212> PRT
<213> Artificial Sequence
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<400> 6224

Arg Val Arg Leu Leu Cys Ala Lys Ala Leu Asn Glu Lys Arg Lys Leu
20 25 30

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<210> 6225
<211> 33
<212> PRT
<213> Artificial Sequence
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<400> 6225

Glu Arg Leu Arg Trp Leu Lys Arg Lys Ala Leu Ala His Leu His Val
20 25 30

$\langle 210 \rangle$	6226
$\langle 211 \rangle$	21
$\langle 212 \rangle$	PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6226

Trp Leu Arg Leu Leu Lys Arg Ile Phe Arg Phe Trp Lys Arg Tyr Thr
1 5 10 15

Ala Arg Gln Met Leu
20

<210> 6227

<211> 87

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6227

Lys Tyr Arg Leu Leu Lys Lys Leu Tyr Lys Arg Leu Lys Asn Met Leu
1 5 10 15

Cys Lys Lys Arg Met Gly Gly Arg Ser Lys Val Arg Phe Trp Thr Tyr
20 25 30

Met Leu Ala Tyr His Ala Ala His Ala Arg Leu Lys Ile Gly Lys Arg
35 40 45

Arg Leu Leu Ile Ala Lys Leu Gln Tyr Asp Arg Val Leu Phe Arg Leu
50 55 60

Trp Gln Met Thr Lys Lys Lys Ser Leu Ala Gly Ile Gly Val Ala Phe
65 70 75 80

Lys Ala Ala Leu Val Leu Ala
85

<210> 6228

<211> 79

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6228

Lys Leu Lys Leu Trp Cys Lys Tyr Leu Arg Ile Met Lys Asn Arg Ala
 1 5 10 15

Arg Leu Glu Leu Gly Glu Leu Tyr Ala Ala Lys Ala Ser Lys Leu Thr
 20 25 30

His Phe His Leu Phe Ile Leu Arg Met Pro Met Asn Asn Arg Arg Cys
 35 40 45

Lys Leu Lys Lys Asp Arg Arg Ile Gly Asn Gly Gly Gln Val Ala Ala
 50 55 60

Arg His Val Arg Ala Ile Leu Lys Leu Lys Tyr Ala Leu Ala Leu
 65 70 75

<210> 6229

<211> 99

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6229

Met Phe Arg Phe Leu Lys Lys Leu Leu Lys Lys Leu Gln Lys Trp Leu
 1 5 10 15

Ala Lys Asn Pro Arg Ala Arg Val Arg Arg Leu Leu Thr Glu Leu His
 20 25 30

Ile His Val Arg Lys Arg Leu Ala Val Cys Trp Arg Ile Lys Gly Ala
 35 40 45

Trp Glu Leu Arg His Lys Leu Thr Thr Leu Phe His Ser Cys Arg Trp
 50 55 60

Asp Leu Met Lys Val Leu Gln Lys Ala Ser Ala Tyr Asp Leu Lys Arg
 65 70 75 80

Leu Lys Ala Glu Leu Cys Trp Arg Phe Leu Lys Ser Asn Arg Val Arg
 85 90 95

Arg Ser Lys

<210> 6230
 <211> 38
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6230

Arg Leu Lys Tyr Leu Pro Arg Leu Met Lys Lys Met Asn Lys Tyr Lys
 1 5 10 15

Leu Gly Tyr Ala Asp Phe Arg Val Phe Arg Leu Ala Lys Lys Cys Leu
 20 25 30

Leu Glu Gly Tyr Lys His
 35

<210> 6231
 <211> 61
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6231

Phe Phe Lys Leu Leu Lys Arg Trp Leu Lys Phe Leu Thr Ser Ala Arg
 1 5 10 15

Pro Trp Arg Ile Ala Ala Trp Lys Arg His Lys Lys Ile Arg Tyr Arg
 20 25 30

Arg Ile Ala Leu Arg Gln Leu Ala Pro Lys Lys Lys Phe Leu Phe Asn
 35 40 45

Asn Asn Ala Arg Ser Arg Phe Pro Trp Ala Ala Lys Val
 50 55 60

<210> 6232
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6232

Trp Ile Arg Leu Met Lys Arg Tyr Met Lys Lys Tyr Pro Arg Arg Leu
 1 5 10 15

Tyr Leu Ala Thr Pro Ala Lys Leu
 20

<210> 6233

<211> 58

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6233

Lys Phe Lys Trp Leu Arg Lys Tyr Ile Arg Arg Phe His Lys Ile Trp
 1 5 10 15

Phe Pro Arg Trp Ala Ala Phe Lys Leu Cys Arg Val Trp Leu Thr Gly
 20 25 30

Ala Gln Arg Ala Lys Ile Arg Gly Phe Arg Leu Asp Arg Asn Asn Ala
 35 40 45

His Leu Lys Arg Arg Leu Leu Ala Ala Leu
 50 55

<210> 6234

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6234

Arg Leu Lys Met Tyr Asn Arg Trp Phe Lys Arg Leu Lys Ser Ala Arg
 1 5 10 15

Ala Asn Ala Asn Ala Trp Ala Lys Ala Leu Lys Ala Cys Leu Val Met
 20 25 30

<210> 6235

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6235

Arg	Leu	Lys	Leu	Met	Arg	Arg	Leu	Tyr	Arg	Arg	Leu	Asn	Ser	Glu	Pro
1				5				10						15	

Thr	Leu	Phe	Leu
			20

<210> 6236

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6236

Leu	Ile	Arg	Tyr	Tyr	Asn	Arg	Met	Phe	Lys	Leu	Leu	Ser	Lys	Ala	Ala
1				5				10						15	

Pro	Lys	Val	Lys
			20

<210> 6237

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6237

Phe	Phe	Lys	Trp	Leu	Arg	Lys	Trp	Leu	Lys	Arg	Met	Asn	Gln	Gln	Ala
1				5				10						15	

Ala	Leu	Leu	Arg	Lys	Ala	Lys	Lys	Leu	Ile	Glu	Ala	Leu	Arg	Asn	Leu
			20					25					30		

Val

<210> 6238

<211> 37

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6238

Arg Met Arg Leu Ile His Arg Met Phe Arg Arg Leu Asn Gln Ala Ala
 1 5 10 15

Lys Leu Leu Leu Ile Ala Arg Met Ala Arg Met Met Lys Glu Leu Lys
 20 25 30

Leu Gln Val Ala Leu
 35

<210> 6239

<211> 71

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6239

Lys Leu Lys Phe Tyr Arg Arg Ile Ile Arg Arg Ile Gln Arg Phe Tyr
 1 5 10 15

Glu Cys Lys Leu Glu Phe Arg Asp Ala Glu Leu Ala His Ala Val Met
 20 25 30

Leu Leu Ala Ala Ala Ala Leu Leu Met Leu Leu Arg Glu Ala Lys Thr
 35 40 45

Lys Ile Arg Pro Lys Lys Glu Ser Trp Gln Phe Ala Ala Trp Ala Arg
 50 55 60

Lys Arg Pro Ala Cys Arg Gly
 65 70

<210> 6240

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6240

Arg Phe Lys Ile Leu Lys Arg Phe Leu Arg Lys Phe Pro His His Thr

1 5 10 15

Ala Ala Gln Ile Glu Tyr Cys Ala Leu Lys Arg Arg Ala Ala Ala Pro
20 25 30

Ala Val Lys
35

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<210> 6241
<211> 23
<212> PRT
<213> Artificial Sequence
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<220>
<223> Computer-generated peptide variant

<400> 6241

Tyr Phe Arg Trp Leu Arg Arg Leu Leu Arg Arg Leu Gln Gln Leu Arg
1 5 10 15

Pro Val Ser Leu Asn Ala Asp
20

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<210> 6242
<211> 41
<212> PRT
<213> Artificial Sequence
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<220>
<223> Computer-generated peptide variant.

<400> 6242

Leu Phe Arg Phe Leu Lys Lys Leu Leu Arg Lys Ile Arg His Asn Lys
1 5 10 15

Leu Ala Met Ala Ala Met Leu Leu Ile Arg Glu Leu Ser Tyr Phe Leu
20 25 30

Arg Trp Leu Phe Gln Arg Glu Leu Asp
35 40

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<210> 6243
<211> 47
<212> PRT
<213> Artificial Sequence
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<220>
<223> Computer-generated peptide variant

<400> 6243

Leu Trp Arg Leu Leu Arg Lys Leu Phe Arg Lys Leu Lys Arg Lys Met
 1 5 10 15

Leu Thr Tyr Gln Lys Gly Ala Trp Ala Arg Tyr Gln Cys Leu Pro Leu
 20 25 30

Leu Ile Leu Tyr Phe Thr Lys Lys Glu Val Arg Ala Lys Thr Leu
 35 40 45

<210> 6244

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6244

Arg Leu Lys Trp Tyr Arg Arg Ile Phe Lys Phe Trp Lys Pro His Leu
 1 5 10 15

Arg Pro Leu Lys Leu Leu Ala Trp Leu
 20 25

<210> 6245

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6245

Arg Leu Lys Trp Phe Lys Arg Trp Leu Arg Lys Tyr Arg Arg Lys Val
 1 5 10 15

Ala Ile Lys Ala Ala Glu Trp Arg Val Lys Ala Ala Arg Thr Met Ser
 20 25 30

Leu Leu Ala Ile Arg Trp Asp Ala
 35 40

<210> 6246

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6246

Lys Leu Arg Phe Leu Thr Arg Ile Leu Lys Trp Trp Arg Arg Leu His
1 5 10 15

Leu Ala Thr Gln Leu
20

<210> 6247

<211> 31

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6247

Arg Ile Lys Leu Leu Arg Arg Leu Leu Arg Leu Tyr Arg Arg Asp Lys
1 5 10 15

Cys Asp Leu Lys Cys Thr Leu Met Arg Arg Pro Leu Ser Ser Val
20 25 30

<210> 6248

<211> 81

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6248

Lys Met Arg Ile Phe Arg Lys Leu Leu Arg Lys Phe Lys Lys Ala Ile
1 5 10 15

Lys Cys Arg Gly Lys Phe Ala Asp Val Ser Asn Asp Ala Ser Arg Asn
20 25 30

Tyr Phe Leu Ile Leu Arg Leu Leu Lys Leu Ile Ile Cys Leu Lys Tyr
35 40 45

Lys Asp Ala Lys Trp Asp Leu Lys Leu Lys Lys Val Leu Arg Ile Ser
50 55 60

Ala Leu Ile Arg Glu Ala Trp Gly Leu Arg Asp Arg Leu Lys Lys Glu
 65 70 75 80

Cys

<210> 6249

<211> 51

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6249

Arg Tyr Lys Trp Met Lys Arg Leu Leu Lys Arg Trp Lys Thr Lys Ser
 1 5 10 15

Lys Ser Leu Arg Ala Lys Lys Lys Leu Ala Pro Leu Ala Leu Val Leu
 20 25 30

Leu Ala Pro Glu Ala Ile His Leu Lys Ala Arg Asn Val Lys Leu Asp
 35 40 45

Ala Lys Arg
 50

<210> 6250

<211> 92

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6250

Leu Met Arg Phe Tyr Lys Lys Trp Leu Lys Lys Leu Lys Lys Ala Asn
 1 5 10 15

Leu Asp Lys Leu Ala Lys Met Lys Ala Lys Ala Ala Ala Lys Ala Thr
 20 25 30

Lys Leu Lys Pro Val Arg Arg Trp Leu His Trp Asn Asp Tyr Glu Ser
 35 40 45

His Ser Cys Cys Thr Leu Cys Lys Cys Leu Lys Lys Arg His Met Leu

50

55

60

Lys Ala Pro Pro Tyr Ala Cys Arg Pro Pro Leu Ile Ala Glu Ala Ala
 65 70 75 80

Ala Arg Lys Thr Ala Ala Val Glu Lys Gln Lys Gln
 85 90

<210> 6251

<211> 64

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6251

Trp Leu Arg Phe Ile Arg Arg Leu Ile Lys Phe Phe Ser Arg Arg Thr
 1 5 10 15

Cys Lys Glu Leu Tyr Leu Arg Ile Ala Ala Ala Asn Lys Cys Leu Ala
 20 25 30

Leu Leu Leu Gln Met Phe Arg Cys Lys Lys Leu Ala Arg Ile Ala Leu
 35 40 45

Lys Glu Cys Lys Leu Ile Arg Pro Thr Arg Lys Arg Pro Arg Ala Lys
 50 55 60

<210> 6252

<211> 52

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6252

Phe Tyr Lys Phe Leu Lys Lys Phe Met Arg Phe Ile Lys Lys Arg Lys
 1 5 10 15

Ala Asn Leu Met Arg Arg Leu Met Arg Leu Tyr Lys Leu Ala Pro Met
 20 25 30

Arg Val Trp Val Ala Arg Tyr Ala Asp Lys Thr Leu Arg Glu Leu Thr
 35 40 45

Gly Gly Leu Ala
50

<210> 6253
<211> 86
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 6253

Leu Ile Arg Leu Leu Ser Arg Tyr Trp Lys Arg Ile Lys Arg Ala Val
1 5 10 15

Gly Arg Asp Gly Val Met Lys Leu Arg Tyr Ala Lys Lys Ala Val Met
20 25 30

Ser Lys Arg Leu Thr Ala Tyr Tyr Asn Val Met Tyr Ala Ala Pro Val
35 40 45

Lys Lys Ala Arg Lys Ala Lys Arg Ile Ala Arg Met Lys Cys Lys Val
50 55 60

Ala Leu Arg Lys Ala Leu Ile Arg Leu Met Ala Thr Lys Pro Ala Ile
65 70 75 80

Asn Ala Glu Arg Thr Arg
85

<210> 6254
<211> 24
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 6254

Arg Leu Lys Phe Leu Arg Lys Leu Trp Arg Trp Trp Arg Thr His Ala
1 5 10 15

Asp Cys Ala Tyr Arg Leu Ala Glu
20

<210> 6255

<211> 47
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6255

Arg Tyr Arg Leu Leu His Lys Trp Tyr Arg Arg Leu Cys Lys His Lys
 1 5 10 15

Gln Leu Leu Ala Arg Val Pro Glu Met Ala Pro Leu Lys Arg Ile Ala
 20 25 30

Pro Ala Leu Gln Trp Leu His Lys Lys Lys Ala Arg Ala His Leu
 35 40 45

<210> 6256
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6256

Arg Leu Lys Leu Phe Arg Lys Trp Tyr Arg Arg Leu Lys Ser Thr Tyr
 1 5 10 15

Arg Val Gly Arg Leu Ala Ala Val Asp Val Ala Asp Val
 20 25

<210> 6257
 <211> 43
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6257

Leu Leu Arg Tyr Tyr Lys Arg Phe Ile Arg Arg Leu Arg Gln Arg Met
 1 5 10 15

Glu Gln Arg Pro Ala Ile Ala Val Leu Lys Lys Met Glu Arg Trp Asp
 20 25 30

Leu Ala Ala Phe Leu Pro Lys Glu Leu Leu Ala

35

40

<210> 6258

<211> 57

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6258

Lys Leu Arg Phe Ile Arg Lys Tyr Leu Arg Leu Phe Arg Lys Arg Leu
 1 5 10 15

Arg Arg Leu Ala Lys Lys Ala Ala Lys Thr Asp Leu Tyr Asn Lys Ala
 20 25 30

Ala Gln Ser Arg Lys Val Ser Val Leu Cys Arg Pro Asp Met Leu Arg
 35 40 45

Leu Lys Ser Met Asp Thr Glu Cys Asp
 50 55

<210> 6259

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6259

Phe Leu Lys Leu Leu Arg Arg Trp Trp Lys Lys Ile Gln Cys Leu Leu
 1 5 10 15

Ala Arg Arg His Phe Met
 20

<210> 6260

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6260

Phe Leu Lys Met Phe Arg Arg Leu Ile Arg Lys Ile Arg Asn Lys Asp

1 5 10 15

Thr Ala Cys Ala Ala
20

<210> 6261
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 6261

Tyr Leu Lys Tyr Trp Lys Arg Leu Trp Arg Ile Ile Arg Lys Leu Leu
1 5 10 15

Gln Thr Leu Pro Ala Leu Arg Lys Thr Ala Asn Lys His Lys Ala Trp
20 25 30

Leu Ala Gln Arg Ser Lys Cys
35

<210> 6262
<211> 49
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 6262

Lys Phe Lys Tyr Leu Pro Lys Tyr Leu Arg Arg Leu Gln Lys Glu Cys
1 5 10 15

Lys Phe Arg Lys Pro Trp Arg Asn Trp Ala Arg Lys Phe Leu Leu Trp
20 25 30

Tyr Ala Leu Met Val Arg Leu Arg Arg Leu Ala Thr Ile Asn Leu Met
35 40 45

Thr

<210> 6263
<211> 45
<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6263

Tyr Leu Lys Phe Met Lys Lys Leu Leu Lys Arg Leu Gln Ser Lys His
1 5 10 15

Met Ala Asn Tyr Arg Ala Ala Lys Ala Lys Met Ala Ile Lys Arg Ala
20 25 30

Leu Ala Phe Phe Ala Asp Val Lys Leu Met Ala Ile Lys
35 40 45

<210> 6264

<211> 43

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6264

Arg Trp Lys Phe Phe Arg Lys Phe Leu Lys Leu Leu Lys Arg Thr Arg
1 5 10 15

Glu Gly His Thr Lys Ala Asp Ala Gln Ala Thr Lys Ser Leu Ala Lys
20 25 30

Leu Glu Arg Ser Lys Ile Trp Arg Cys Ala Gln
35 40

<210> 6265

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6265

Arg Ile Lys Leu Leu Arg Arg Phe Leu Arg Leu Leu Lys Arg Ile Lys
1 5 10 15

Arg Ala Thr Thr Lys Cys Ala Cys Arg Arg Cys Thr Leu Leu Ser Lys
20 25 30

Cys Trp Val Ala Val Ala Lys Gln
 35 40

<210> 6266
 <211> 48
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6266

Leu Leu Lys Trp Trp Cys Lys Trp Phe Lys Arg Phe Arg Gln Arg Glu
 1 5 10 15

Leu His Arg Phe Pro Leu Ala Leu His Asp Arg Ala Arg Lys Leu Ala
 20 25 30

Val Leu Ile Gly Cys Arg Asn Gly Leu Leu Lys Pro Lys Leu Lys Glu
 35 40 45

<210> 6267
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6267

Arg Ile Lys Met Leu Arg Arg Tyr Leu Arg Lys Ile Gln His Pro Leu
 1 5 10 15

Ala Thr Leu Trp Thr Arg Leu Lys Ile
 20 25

<210> 6268
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6268

Arg Phe Lys Met Phe Lys Lys Phe Leu Arg Leu Leu Lys Lys Ala Leu
 1 5 10 15

Ala Gln Leu Trp Leu Tyr Pro Met Leu Lys Trp Lys Arg Arg Lys Gln
 20 25 30

Tyr

<210> 6269

<211> 63

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6269

Ile Leu Arg Tyr Phe Gln Arg Leu Leu Arg Arg Leu Asn Arg Leu Ser
 1 5 10 15

Arg Thr Ala Ala Leu Leu Thr Lys Asn Val Arg Pro Arg Pro Leu Asp
 20 25 30

Arg Met Lys Arg Arg Ala Lys Ala Thr Leu Leu Leu Arg Trp Lys Leu
 35 40 45

Arg Asn Ile Ala Met Arg Leu Asn Val Thr Trp Phe Thr His Val
 50 55 60

<210> 6270

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6270

Met Phe Lys Leu Ile His Lys Leu Phe Lys Leu Ile Lys Lys His Ala
 1 5 10 15

Lys Ala Lys Glu Ala
 20

<210> 6271

<211> 45

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6271

Leu Leu Lys Leu Leu Cys Arg Tyr Leu Lys Leu Leu Lys His Lys Val
 1 5 10 15

Arg Gly Val Asp Asn Pro Lys Asp Arg Leu Asn Lys Ala Ala Ser Ala
 20 25 30

Met Lys Leu Pro Trp Arg Lys Lys Leu Ile Leu Val Leu
 35 40 45

<210> 6272

<211> 39

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6272

Leu Ile Arg Ile Ile Pro Arg Met Leu Lys Lys Phe Asn Arg Leu Ala
 1 5 10 15

Ala Pro Arg His Arg Ala Ala Asn Lys Ala Arg Asp Leu Leu His Leu
 20 25 30

Pro Arg His Tyr Leu Ser Lys
 35

<210> 6273

<211> 89

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6273

Arg Phe Lys Leu Trp Arg Lys Leu Phe Lys Lys Met Asn Arg Leu Lys
 1 5 10 15

Glu Arg Arg Tyr Pro Leu Tyr Phe Arg Leu Val Lys Leu Ala Ala Lys
 20 25 30

Ala Ala Ala Leu Val Lys Ile Leu Gly Ala Lys Ala His Glu Asp Pro

35

40

45

Leu Arg Arg Arg Leu Leu Lys Asp Cys Pro Leu Ser Phe Pro Gly His
 50 55 60

Lys Pro Ala Cys Lys Ala Lys Ile Cys Asn Glu Ala Arg Lys Val Arg
 65 70 75 80

Gly Met Ala Phe Tyr Trp Gln Arg Asp
 85

<210> 6274

<211> 65

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6274

Trp Leu Lys Leu Leu Arg Lys Trp Trp Arg Arg Leu Lys Pro Glu Ala
 1 5 10 15

Ala Lys Trp Thr Gly Trp Lys Phe Leu Lys Lys Lys Ala Ala Leu Ala
 20 25 30

His Val Arg Cys Lys Arg His Cys Lys Leu Arg Pro Pro Asp Leu Ala
 35 40 45

Ala Asn Gly Val Gln Pro Arg Ala Ala Trp Met Leu Met Leu Cys Val
 50 55 60

Thr
 65

<210> 6275

<211> 79

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6275

Arg Leu Lys Ile Trp Lys Arg Phe Trp Arg Arg Leu His His Gln Asn
 1 5 10 15

Ala Lys Glu Thr Glu Glu Tyr Lys Glu Thr Arg His Leu Ile Met Arg
 20 25 30

Arg Leu Gly Leu Lys Arg Leu Leu Ile Lys Met Arg Leu Asp Ala Ala
 35 40 45

Ala Leu Glu Ala Leu Arg Pro Lys Ile Phe Pro Ala Lys Pro Lys Arg
 50 55 60

Leu Arg Met Leu Arg Leu Arg Thr Ala Leu Asn Ala Ala Val Leu
 65 70 75

<210> 6276
 <211> 46
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6276

Met Ile Arg Tyr Met Pro Lys Phe Tyr Lys Phe Leu His Pro Arg Arg
 1 5 10 15

Ile Lys Leu Ala Asp Ala Lys Pro Ala Thr Leu Ala Arg Arg Glu Arg
 20 25 30

Arg Lys Leu Ala Ala Cys His Arg Arg Trp Ser Leu Ser Ala
 35 40 45

<210> 6277
 <211> 51
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6277

Lys Leu Arg Ile Phe Lys Arg Ile Leu Lys Lys Leu Arg Arg Ala
 1 5 10 15

Phe Arg Arg Arg Gly Arg Ala Ser Val Leu Leu Cys His Lys Ala Asp
 20 25 30

Ile Pro Ser Cys Gly Ala Asp Arg Leu Ala Leu Ala Met Arg Glu Trp

35

40

45

Lys Arg His
50

<210> 6278
<211> 41
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 6278

Met Leu Lys Trp Leu Lys Lys Phe Phe Lys Arg Phe Lys Arg Trp Gln
1 5 10 15

Ala Ala Thr Arg Ala Arg Ser Tyr Arg His Arg Thr Lys Ala Phe Arg
20 25 30

Leu Tyr His Cys Ala Ala Ala Thr Arg
35 40

<210> 6279
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 6279

Phe Phe Lys Leu Ile Lys Lys Phe Leu Arg Arg Leu Lys Arg Pro Ala
1 5 10 15

Leu Phe Arg Tyr Lys Ala Lys Met Met His Ala Ala Trp Leu Lys Arg
20 25 30

Leu Val His
35

<210> 6280
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 6280

Arg Trp Arg Leu Leu Arg Arg Met Phe Lys Lys Ile Lys Arg Arg Lys
 1 5 10 15

Leu Trp Gln Leu His Ile Leu Asn Gly Leu Ser Lys Leu Arg Ala Tyr
 20 25 30

Leu Glu Arg His Phe Ala Ala
 35

<210> 6281

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6281

Leu Met Lys Leu Leu Thr Lys Leu Ile Lys Arg Leu Ser Asn Lys Ala
 1 5 10 15

Lys Met Arg Gln Arg
 20

<210> 6282

<211> 85

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6282

Trp Phe Arg Met Phe Lys Lys Leu Met Lys Phe Leu Cys Gln Arg Leu
 1 5 10 15

Asn Phe Arg Ala Lys Leu Ala Trp Tyr Asn Leu Trp Lys Leu Phe Asn
 20 25 30

Ser Trp Lys Met Arg Ala His Met Lys Lys Lys Leu Ala Asp Ala Phe
 35 40 45

Met Trp Arg Ala Thr Gln Pro Lys Ala Thr Lys Ala Arg Leu Arg Ala
 50 55 60

Leu Ala Asn Leu Lys Ala Lys His Tyr Lys His Asp Ala Thr Leu Pro
 65 70 75 80

Leu Arg Glu Met Ala
 85

<210> 6283
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6283

Lys Phe Arg Ile Leu Lys Lys Met Phe Lys Phe Met Pro Pro Ala Trp
 1 5 10 15

Lys Ala Trp Arg Thr Ser Arg Arg Phe Leu Ala Ala Leu
 20 25

<210> 6284
 <211> 72
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6284

Leu Trp Arg Leu Phe Arg Lys Ile Phe Lys Phe Leu Ser Arg Lys Phe
 1 5 10 15

Tyr Arg Ala Ala Phe Gly Asn His Met Tyr Ala Lys Ala Arg Thr Pro
 20 25 30

Leu Leu Leu Cys Arg Ile Ile Pro Leu Val Leu Lys Ala Arg Met Ala
 35 40 45

Ser Lys Asn Ala Arg Lys Arg Pro Ala Pro Leu Leu Thr Lys Arg Glu
 50 55 60

Lys Trp Arg Ala Arg Val Lys Ile
 65 70

<210> 6285

<211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6285

Arg Leu Lys Leu Ile Gln Arg Leu Leu Arg Phe Phe Lys Lys Leu His
 1 5 10 15

Arg Arg Leu Trp Tyr Cys
 20

<210> 6286
 <211> 75
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6286

Lys Tyr Arg Leu Leu Lys Lys Ile Phe Arg Tyr Leu Lys Lys Ile Arg
 1 5 10 15

Gly Ala Ala Leu Cys Val Gly Gly Ala Ile Cys Cys Lys Lys Lys Val
 20 25 30

Leu Asp Arg Phe Gln Ala Ser Val Gly Ala Ala Lys Ala Leu Arg Glu
 35 40 45

Ala Gln Ser Lys Arg Ala Tyr Ser Cys Trp Leu Arg Ala Leu Trp Leu
 50 55 60

Arg Leu Leu Arg Tyr Lys Met Trp Arg Ala Leu
 65 70 75

<210> 6287
 <211> 57
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6287

Leu Leu Lys Leu Leu Arg Arg Ile Phe Arg Lys Leu Ser Asn Asn Ala

```

1              5              10              15
His Ala Lys Asn Val Lys Leu Leu Gln Ala Leu Pro Arg Thr Pro Met
      20              25              30
Lys Arg Phe Leu Leu Ala Gly Lys Lys Val Lys Tyr Gly Met Arg Arg
      35              40              45
Arg Ala Leu Arg Ile Tyr Pro Val Ser
      50              55

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<210>	6288
<211>	21
<212>	PRT
<213>	Artificial Sequence
<220>	
<223>	Computer-generated peptide variant
<400>	6288

Leu Tyr Lys Met Leu Arg Arg Leu Tyr Arg Leu Trp Asn Gln Gly Lys
1 5 10 15

Lys Ala Tyr Leu Asp
20

<210>	6289
<211>	28
<212>	PRT
<213>	Artificial Sequence
<220>	
<223>	Computer-generated peptide variant
<400>	6289

Phe Ile Lys Leu Met Cys Lys Leu Phe Lys Lys Leu Lys Arg Arg Trp
1 5 10 15

Leu Gly Ala Ala Gly Ala Arg Trp Tyr Lys Leu Arg
20 25

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<210> 6290
<211> 37
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant
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<400> 6290

Ile	Trp	Arg	Leu	Tyr	Arg	Arg	Phe	Phe	Arg	Trp	Leu	Thr	Arg	Ala	Ser
1				5					10					15	

Lys	Leu	Val	Val	Lys	Ala	Arg	Lys	Lys	Arg	Ala	Ala	Cys	Val	Ala	His
			20					25					30		

Trp	Ala	Met	Met	Arg
				35

<210> 6291

<211> 60

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6291

Met	Tyr	Arg	Leu	Leu	Gln	Arg	Phe	Met	Arg	Leu	Leu	Arg	Lys	Gly	Gly
1				5					10					15	

His	Leu	Ala	Gln	Ala	Ser	Lys	Tyr	Arg	Gly	Ala	Lys	Trp	Arg	Pro	Lys
			20					25					30		

Met	His	Leu	Ile	Ala	His	Ala	Leu	Arg	Ile	Phe	Tyr	Lys	Ala	Lys	Ala
			35				40					45			

Ser	Tyr	Leu	Leu	Arg	Arg	Phe	Asp	Ala	Lys	Trp	Ala
	50					55				60	

<210> 6292

<211> 37

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6292

Arg	Met	Lys	Tyr	Leu	Lys	Lys	Phe	Trp	Lys	Trp	Tyr	Arg	Arg	Ala	Ala
1				5					10					15	

Cys	Gln	Ala	Lys	Pro	Ala	Ala	Tyr	Asn	Asp	Ala	Leu	Arg	Gly	Arg	Tyr
			20					25					30		

Lys Arg Ala Asp Gly
35

<210> 6293
<211> 34
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 6293

Met Leu Arg Leu Phe His Arg Phe Phe Lys Tyr Leu Lys Pro Ala Arg
1 5 10 15

Glu Thr Arg Ser Cys Lys Leu Arg Leu Ser Tyr Arg Lys Arg Leu Thr
20 25 30

Leu Tyr

<210> 6294
<211> 79
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 6294

Met Leu Arg Phe Leu Arg Lys Leu Leu Arg Tyr Leu Lys Thr Arg His
1 5 10 15

Ser Ile Ala Leu Arg Arg Asp Ala Leu Gly Thr His Leu His Leu Ile
20 25 30

Ala Leu Ala Ala Arg Lys Pro His Ala Ala Lys Arg Lys Glu Thr Ser
35 40 45

Ala Asp Ser Ile Ala Lys Val Leu Gln Met Lys Leu Arg Leu Ala Ala
50 55 60

Arg Ala Lys Gln Val Ala Tyr Lys Val Leu Pro Arg Trp Ser Gly
65 70 75

<210> 6295

<211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6295

Arg Leu Arg Leu Leu Asn Arg Tyr Phe Lys Leu Leu Lys Thr Arg His
 1 5 10 15

Ile Arg Ala Ala Cys Ala Gly Arg Thr Arg Leu Ala Asn Trp Arg Met
 20 25 30

Phe Arg

<210> 6296
 <211> 56
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6296

Lys Trp Lys Phe Leu Lys Arg Tyr Ile Lys Lys Met Asn Arg Ala Lys
 1 5 10 15

Ser His Lys Ala Gly Asn Met His Leu Lys Arg Arg Ser Ile Arg Ala
 20 25 30

Asn Gln Glu Thr Ala Ala Phe Leu Leu Gly Arg Ala Lys Leu Asn Phe
 35 40 45

Ala Ile Pro Lys Leu Met Ala Ala
 50 55

<210> 6297
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6297

Arg Leu Arg Leu Phe Gln Arg Met Leu Arg Leu Tyr Ser Lys Ala Lys

1 5 10 15

Ile Val Tyr Arg
20

<210> 6298
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 6298

Lys Leu Arg Tyr Leu Lys Arg Trp Leu Arg Ile Ile Arg Gln Arg Ala
1 5 10 15

Gln Arg Leu Arg His Ala Phe Ala Arg Ala Ser
20 25

<210> 6299
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 6299

Lys Leu Lys Ile Tyr Lys Lys Phe Phe Arg Ile Leu Arg Lys Ala Met
1 5 10 15

Ala Asp Ser Ala Leu Ala Arg Ala Lys Thr Lys Glu
20 25

<210> 6300
<211> 25
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 6300

Leu Phe Arg Met Leu Arg Arg Leu Met Arg Arg Trp Arg Pro Arg Ala
1 5 10 15

Trp Glu Glu Lys Gly Gln Leu Ala Pro

20

25

<210> 6301
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6301

Leu Ile Lys Tyr Leu Lys Arg Ile Tyr Lys Phe Phe Asn Lys Ala His
 1 5 10 15

Arg Ile Ala Lys Leu
 20

<210> 6302
 <211> 77
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6302

Tyr Leu Lys Leu Trp Pro Arg Leu Ile Lys Tyr Leu Arg His Ser Ala
 1 5 10 15

Glu Ala Lys His Thr Trp Trp His Lys Glu Lys Arg Gln Lys Ile Phe
 20 25 30

Gln Arg Lys Trp Leu Arg His Cys Arg Lys Cys Ala Lys Leu Lys Arg
 35 40 45

Met Thr Val Lys Ala Tyr Arg Thr Leu Ala Lys Asp Gln Lys Phe Ile
 50 55 60

Ala Leu Arg Gln Arg Pro Ala Cys Ala Leu Arg Ala Leu
 65 70 75

<210> 6303
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6303

Leu	Leu	Lys	Phe	Leu	Arg	Arg	Leu	Tyr	Lys	Met	Tyr	Lys	Arg	Pro	Trp
1				5					10					15	

Leu	Arg	Glu	Asp	Leu
			20	

<210> 6304

<211> 80

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6304

Lys	Leu	Arg	Met	Tyr	Lys	Arg	Trp	Leu	Lys	Arg	Leu	Pro	Arg	Leu	Tyr
1				5				10						15	

Leu	Tyr	Val	Leu	Ala	Arg	Pro	Ala	Lys	Asn	Leu	Met	Leu	Arg	Thr	Met
			20					25						30	

Arg	Asp	Gln	Asp	Pro	Met	Ala	Leu	Cys	Leu	Glu	Ala	Thr	Trp	Arg	Phe
		35					40					45			

Ala	Cys	Thr	Cys	Arg	Val	Glu	Pro	Lys	Gly	Leu	Arg	Ala	Arg	Leu	Lys
	50					55					60				

Leu	Glu	His	Arg	Ala	His	Glu	Ala	Lys	Ala	Ala	Gln	Gly	Lys	Lys	Asp
65					70					75					80

<210> 6305

<211> 71

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6305

Arg	Ile	Arg	Leu	Tyr	Arg	Arg	Leu	Met	Arg	Leu	Leu	Arg	Pro	Leu	Arg
1				5					10					15	

Arg	Cys	Ala	Arg	Ala	Thr	Thr	Arg	Lys	Ala	Met	Gln	Ala	Lys	Glu	Phe
			20					25					30		

Trp Lys Asp Arg Asp Arg Thr Ala Arg Val Cys Ile Arg Arg Arg Gly
 35 40 45

Gln Pro Lys Asp Lys Ala Ala Lys Ala Ala Leu Tyr Lys Asp Arg Tyr
 50 55 60

Met Asn Leu Ala Ala Pro Leu
 65 70

<210> 6306
 <211> 77
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6306

Leu Met Lys Leu Leu Lys Lys Ile Phe Lys Leu Phe Lys Cys Ala Lys
 1 5 10 15

Leu Gln Leu Asn Ala Gly Phe Ala Arg Gly Leu Phe Trp Ala Met Asn
 20 25 30

Cys Tyr Lys Leu Cys Leu Glu Gln Cys Cys Thr Arg Arg Phe Asn Leu
 35 40 45

His Thr Arg Leu Lys Ser Ala Arg Ala Trp Arg Leu Ser Arg Ala Ala
 50 55 60

Lys Ala Ile Tyr Leu Tyr Arg Arg Arg Ala Ala Arg Cys
 65 70 75

<210> 6307
 <211> 39
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6307

Lys Leu Arg Tyr Phe Thr Lys Leu Leu Lys Arg Leu Lys Cys Gly Ala
 1 5 10 15

Gln Asn Thr Ala Lys Tyr Arg Leu Leu Ile Arg Lys Ala Arg Gln Gln

20

25

30

Pro Met Gln Gln Leu Leu Thr
35

<210> 6308
<211> 34
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 6308

Phe Trp Lys Tyr Leu Lys Lys Leu Leu Lys Phe Leu Ser Ser Leu Arg
1 5 10 15

Arg Leu Pro Phe Lys Arg Tyr Met Ala Ala Lys Lys Arg Ala Leu Arg
20 25 30

Tyr Lys

<210> 6309
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 6309

Ile Ile Lys Ile Leu Cys Arg Ile Tyr Lys Arg Leu Lys Arg Leu Glu
1 5 10 15

Lys Arg Leu Gly Ala Ser Ala Leu Leu Arg Gly
20 25

<210> 6310
<211> 33
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 6310

Arg Phe Lys Leu Trp Arg Lys Leu Leu Arg Arg Met Lys Ser Gly Leu

1 5 10 15

Ile Leu Arg Val Ala Ala Leu Val Asn Arg Gly Leu Thr Ala Gly Cys
20 25 30

Arg

<210> 6311
<211> 33
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 6311

Phe Met Arg Leu Leu Arg Arg Trp Leu Arg Lys Leu Lys Arg Asn Ala
1 5 10 15

Ala Ser Gln Ser Lys Glu Pro Ala Ala Ile Cys Ala Ala Asn Arg Ala
20 25 30

Thr

<210> 6312
<211> 29
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 6312

Trp Leu Arg Trp Leu His Arg Leu Leu Lys Arg Phe Asn Arg Val Lys
1 5 10 15

Ala Gly Leu Leu Ile Lys Arg Arg Cys Met Lys Ser Leu
20 25

<210> 6313
<211> 29
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 6313

Arg Leu Lys Met Ile Arg Arg Leu Ile Lys Trp Ile Arg Asn Cys Leu
 1 5 10 15

Leu Lys Ala Arg Trp Leu Lys Ala Ile Ser Ser His Asn
 20 25

<210> 6314

<211> 56

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6314

Arg Trp Lys Leu Phe Arg Lys Met Phe Arg Ile Ile Lys Arg Trp Cys
 1 5 10 15

Pro Ala Thr Ala Ala Asn His Ala Trp Ala Pro Ala Leu Arg Val Arg
 20 25 30

Arg Ala Leu Leu Lys Glu Arg Ala Pro Phe Met Met Arg Ile Ala Glu
 35 40 45

Arg Arg Ala Gly Ala Ile Leu Ala
 50 55

<210> 6315

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6315

Leu Phe Lys Phe Leu Ser Lys Tyr Met Lys Arg Tyr Cys Cys Gly Gln
 1 5 10 15

Lys Ser Tyr Lys Ala Arg Leu Ala Ala Thr Arg Ala Lys Ala Arg Ile
 20 25 30

Ala Arg Val Arg
 35

<210> 6316
 <211> 98
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6316

Lys Trp Lys Leu Phe His Arg Leu Leu Lys Lys Leu Thr Gln Ser Ala
 1 5 10 15

Thr Pro Lys Ser Lys Phe Cys Ser Tyr Arg Lys Lys Ile Ser Thr Thr
 20 25 30

Cys Gln Arg Leu Leu Ala Ala Gly Arg Leu Leu Arg Lys Trp Glu Asp
 35 40 45

Leu Arg Pro Pro Met Lys Arg Ala Leu Gln Lys Lys Ser Lys Cys Leu
 50 55 60

Lys Glu Arg Phe Arg Phe Leu Leu Ala Arg Asp Leu Cys Lys Lys Glu
 65 70 75 80

Lys His Leu Ala Ile Tyr Ile Val Pro Pro Ala Leu Val Ala Leu Ala
 85 90 95

Asn Ala

<210> 6317
 <211> 46
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6317

Lys Met Lys Ile Met Arg Lys Leu Trp Lys Arg Leu His Arg Val Ala
 1 5 10 15

Lys Glu Pro Ala Lys Thr Ala Leu Lys Ala Leu Trp Thr Lys Pro Ala
 20 25 30

Ala Glu Phe Ala Gln Trp Arg Arg Val Thr Arg Tyr Arg Ser

35

40

45

<210> 6318

<211> 43

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6318

Lys Leu Arg Leu Met Arg Lys Phe Leu Lys Lys Phe Arg Ser Ala Ala
 1 5 10 15

Val Leu Val Leu Arg Lys Ala Lys Arg Glu Pro Gln Asn Met Ala Thr
 20 25 30

Leu Gly Phe Met Gln Arg Arg Tyr Val Leu Cys
 35 40

<210> 6319

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6319

Lys Ile Lys Leu Phe Ser Arg Phe Leu Arg Arg Trp Arg Arg Leu Met
 1 5 10 15

Ala Ala Trp Ala Pro His His Met Arg Lys Leu Ala Phe Lys Met Thr
 20 25 30

Met Leu Trp Lys
 35

<210> 6320

<211> 47

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6320

Phe Trp Lys Ile Leu Arg Arg Met Tyr Lys Phe Leu Arg Arg Glu Arg

1 5 10 15

Lys Lys Arg Arg Gln Arg Ala Ile Ala Ala Leu Ala Pro Ile Phe Lys
20 25 30

Gln Val Asp Ala His Asn Pro Leu Lys Lys Ser Leu Trp Leu His
35 40 45

<210>	6321
<211>	93
<212>	PRT
<213>	Artificial Sequence

<220>
<223> Computer-generated peptide variant

$\langle 400 \rangle$ 6321

Arg Trp Arg Tyr Ile Asn Lys Ile Met Arg Trp Leu Arg Arg Thr Arg
1 5 10 15

Lys Ala Tyr Ala Leu Pro Ala Trp Ala Ala His Arg Ala Glu Asn Lys
20 25 30

Lys Ala Leu Ser Arg Leu Arg Ala Lys Ile Cys Arg Leu Asp Phe Leu
35 40 45

Arg Leu Arg Leu Arg Asn Lys Ile Phe Leu Lys Cys Thr Pro Ala Pro
50 55 60

Glu Leu Gly Lys Leu Arg Pro Leu Pro Lys Gly Cys Tyr Lys Arg Ala
65 70 75 80

Ile Ala Lys Leu Ile Arg Lys Arg Ala Lys Leu Arg Pro
85 90

<210>	6322
<211>	27
<212>	PRT
<213>	Artificial Sequence

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<220>  
<223> Computer-generated peptide variant
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$\langle 400 \rangle$ 6322

Trp Leu Arg Trp Met Lys Arg Leu Trp Arg Trp Leu Arg Thr Pro Arg
1 5 10 15

Ala Ile Arg Arg Ala Trp Leu Ala Ile Phe Thr
 20 25

<210> 6323
 <211> 27
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6323

Arg Met Arg Leu Phe Asn Lys Leu Phe Arg Lys Ile Arg Thr Trp Asn
 1 5 10 15

Ala Val Ala Cys Val Leu Lys Glu Lys Ala Leu
 20 25

<210> 6324
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6324

Leu Ile Arg Leu Leu Ser Lys Tyr Leu Lys Arg Leu Arg Arg Ala Tyr
 1 5 10 15

Phe Gln Leu Val Ala
 20

<210> 6325
 <211> 63
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6325

Lys Tyr Arg Leu Trp Lys Lys Met Phe Lys Arg Leu Arg Lys Lys Val
 1 5 10 15

Met Asp Leu Val Lys Asp Leu Ala Gln Ala His Leu Leu Ala Arg Lys
 20 25 30

Leu Ala Ala Tyr Asn Ala Ala Arg His Gln Ala Cys Ser Arg Thr Lys
 35 40 45

Asn Pro Leu Leu Arg Lys Ala Leu Met Arg Ala Leu Gly Tyr Leu
 50 55 60

<210> 6326
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6326

Phe Tyr Lys Leu Ile Lys Arg Leu Trp Arg Lys Leu Asn Lys Thr Arg
 1 5 10 15

Glu Leu Leu Ser Leu
 20

<210> 6327
 <211> 77
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6327

Trp Leu Arg Leu Leu Lys Arg Ile Met Arg Lys Leu Gln Arg Lys Arg
 1 5 10 15

Val Lys Leu Trp His Lys Leu Lys Asn Glu Lys Asn Arg Glu Thr Arg
 20 25 30

Gly Trp Lys Val Pro Trp Tyr Arg Leu Gly Asp Met Leu Asn Met Gln
 35 40 45

Lys Arg Asn Arg Pro Lys Leu Leu Ser Ala Pro Ala Leu His Lys Lys
 50 55 60

Arg Arg Arg Leu Ala Ile Met Cys Ala Lys Ala Leu Ala
 65 70 75

<210> 6328

<211> 87
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6328

Met Trp Lys Leu Tyr Gln Lys Ile Leu Arg Phe Leu Lys Pro Arg Ser
 1 5 10 15

Ser Lys Trp Val Ala Lys Lys Pro Met Leu Lys Lys Ala Cys Leu Asp
 20 25 30

His Leu Lys Arg Val Ser Leu Phe Ala Pro Pro Lys Leu Arg Leu Arg
 35 40 45

Cys Leu Lys Val Ala Lys Lys Pro Ala Gln Leu Lys Lys Arg Lys Met
 50 55 60

Glu Lys Cys Cys Glu Lys Gly Lys Arg Ala Asn Ala Gly Thr Val Arg
 65 70 75 80

Asn Ala Leu His Ala Tyr Lys
 85

<210> 6329
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6329

Trp Leu Lys Met Leu Lys Arg Met Phe Lys Lys Met Arg Pro Leu Arg
 1 5 10 15

Ala Met Leu Cys
 20

<210> 6330
 <211> 37
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6330

Lys Leu Arg Met Leu Lys Arg Leu Trp Arg Arg Leu Cys Asn Arg Leu
1 5 10 15

Leu Gly Asn Tyr Ser Lys Asn Ser Tyr Leu Ala Asp Leu Leu Lys Arg
20 25 30

Glu Gln Arg Asn Ala
35

<210> 6331

<211> 37

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6331

Leu Leu Lys Trp Phe His Arg Phe Leu Arg Ile Leu Lys Lys Ala Lys
1 5 10 15

Lys Ala Met Phe Met Lys Ser Leu Lys Arg Arg Ala Ile Leu Ala Glu
20 25 30

Val Lys Arg Gln Tyr
35

<210> 6332

<211> 60

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6332

Lys Leu Lys Leu Ile Lys Arg Leu Phe Arg Lys Phe Lys Arg Ser Ser
1 5 10 15

Glu Cys Trp Pro Ala Gly Thr Arg Lys Ala Ile Leu Arg Asp Ala Arg
20 25 30

Thr Lys Arg Arg Ala Leu Arg Leu Glu Thr Asp Leu Leu Leu Met Ala
35 40 45

Ala Gln Lys Lys Arg Trp Ala Phe Arg Ala Leu Leu
 50 55 60

<210> 6333
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6333

Arg Ile Lys Leu Ile Pro Arg Leu Trp Lys Lys Tyr His Gln Lys Ala
 1 5 10 15

Leu Lys Asn Arg Ala Thr Lys Phe Ala Ala Arg Tyr Glu Ala
 20 25 30

<210> 6334
 <211> 52
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6334

Ile Leu Arg Phe Leu Ser Arg Leu Ile Arg Arg Tyr Gln Asn His Ala
 1 5 10 15

Lys Ala Arg Tyr Asn Arg Trp Leu Pro Phe Gly Cys Arg Leu Ala Phe
 20 25 30

Ala Lys Leu Glu Asn Leu Arg Arg Arg Ile Leu Pro Phe Lys Trp Ala
 35 40 45

Ala Arg Arg Asp
 50

<210> 6335
 <211> 27
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6335

Ile Trp Arg Phe Tyr Lys Arg Leu Leu Lys Phe Leu His Lys Lys Leu
 1 5 10 15

Gln Arg Lys Leu Leu Glu Tyr Leu Ala Ile Tyr
 20 25

<210> 6336
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6336

Lys Ile Lys Leu Leu Arg Lys Ile Phe Lys Leu Trp Arg Arg Ala Glu
 1 5 10 15

Ala Ala Trp Asn Leu Arg Lys Lys Tyr Arg Asn Asp Leu Leu Leu Arg
 20 25 30

Cys Leu Gly Glu Gln Val Val Lys
 35 40

<210> 6337
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6337

Lys Trp Lys Phe Tyr Lys Lys Leu Leu Lys Arg Trp Thr Lys Tyr Ala
 1 5 10 15

Ala Gln Lys His Gly His Ala Arg Gly Asp Lys Lys Trp Ala Cys Ile
 20 25 30

Trp Ala Arg Asn Ala Ala Ile Lys
 35 40

<210> 6338
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6338

Leu	Trp	Lys	Leu	Leu	Arg	Lys	Phe	Leu	Arg	Arg	Phe	Lys	Lys	Lys	Met
1				5					10					15	

His	Ile	Ala	Gly	Asp	Ala	Pro	Ala
			20				

<210> 6339

<211> 37

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6339

Met	Leu	Lys	Phe	Leu	Arg	Arg	Leu	Leu	Lys	Lys	Tyr	Lys	Ser	Asp	Ile
1				5					10					15	

Gln	Asp	Lys	Lys	Ile	Val	Tyr	Leu	Ala	Glu	Val	Ala	Arg	Ala	Leu	Arg
			20					25					30		

Lys	Ala	His	Ser	Leu
				35

<210> 6340

<211> 77

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6340

Leu	Phe	Lys	Ile	Phe	Lys	Arg	Met	Leu	Lys	Lys	Ile	Lys	Thr	Ala	Leu
1				5					10					15	

Ala	Arg	Asp	Thr	Ala	Trp	Arg	His	Ala	Phe	Arg	Pro	Ala	Pro	Leu	Ile
			20					25					30		

Arg	Arg	Thr	Leu	Trp	Trp	Tyr	Ala	Lys	Glu	Leu	Arg	Arg	Lys	Leu	Ala
			35				40					45			

Leu	Pro	Val	Lys	Ala	Arg	Pro	Met	Lys	Met	Arg	Ala	Val	Thr	Val	Lys
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

50

55

60

Lys Gln Ala Ile Gln Arg Lys Lys Leu His Glu Arg Glu
 65 70 75

<210> 6341

<211> 51

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6341

Leu Phe Arg Leu Leu His Arg Leu Leu Arg Leu Leu Lys Lys Pro Leu
 1 5 10 15

Leu Phe His Lys Lys Ala Asn Lys Glu Val Leu Leu Asp Met Cys Ala
 20 25 30

Gln Arg Ser Arg Gly Gln Arg Ala Leu Ala Ser Asp Arg His Asp Val
 35 40 45

Thr Lys Ala
 50

<210> 6342

<211> 54

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6342

Arg Met Arg Leu Phe Arg Arg Leu Leu Lys Arg Leu Ser Asn Ala Lys
 1 5 10 15

Lys Ala Leu Asp Arg Pro Leu Ala Arg Lys Asp Arg Arg Met Thr Arg
 20 25 30

Leu Val Leu Tyr Ala Ser Ala Lys Arg Pro Leu Ala Ala Ser Lys Leu
 35 40 45

Met Leu Lys Ala Thr Lys
 50

<210> 6343
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6343

Leu Leu Arg Trp Tyr Lys Lys Leu Trp Arg Phe Phe Arg Arg Ala Lys
 1 5 10 15

Pro Leu Cys Met Val Ile Leu Gln Leu Glu Asp Leu Ala Leu Ala Arg
 20 25 30

Lys Lys Lys
 35

<210> 6344
 <211> 50
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6344

Arg Met Arg Leu Phe Asn Lys Trp Leu Arg Lys Leu Thr Pro Leu Ala
 1 5 10 15

Met Trp Met His Ile Leu Asn Ala Pro Phe Ala Phe Cys Phe Arg Lys
 20 25 30

Lys Arg Ala Pro Lys Ala Asp Ala Lys Arg Cys Cys Lys Ala Leu Leu
 35 40 45

Arg Trp
 50

<210> 6345
 <211> 65
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6345

Lys Ile Arg Phe Met Ser Arg Trp Leu Arg Lys Leu His Thr Ala Ser
 1 5 10 15

Leu Gln Ser Cys Leu Ala Thr Lys Leu Tyr Lys Met Arg Gln Arg Lys
 20 25 30

Leu Phe Glu Leu Asp Ala Ala Ala Lys Lys Leu Cys Asp Met Gly Ala
 35 40 45

Arg Gln Lys Lys Thr Gly Ala Leu Gly Asp Lys Lys Lys Leu Gly Leu
 50 55 60

Glu
 65

<210> 6346
 <211> 27
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6346

Leu Leu Lys Leu Phe Asn Lys Phe Phe Arg Lys Met Lys Gln Lys Lys
 1 5 10 15

Ala Leu Trp Gln Ala Arg His Pro Ala Trp Asp
 20 25

<210> 6347
 <211> 48
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6347

Ile Leu Arg Trp Leu Gln Arg Tyr Phe Arg Lys Leu Ser Arg Val Ala
 1 5 10 15

Ala Arg Lys Leu Glu Trp Asn Lys Leu Arg Ala Phe Lys Gly Ile Leu
 20 25 30

Ala Val Arg Leu Arg Ala His Tyr Phe Arg Lys Lys Cys Met Gly Ala

35

40

45

<210> 6348

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6348

Lys Tyr Arg Leu Met Lys Lys Phe Ile Arg Lys Leu Gln Arg His Leu
 1 5 10 15

Ala Cys Leu Tyr Ala Leu Arg Asp Trp Lys Ala Cys Asn Lys Ser Asp
 20 25 30

Arg Leu

<210> 6349

<211> 76

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6349

Lys Leu Lys Leu Leu Lys Arg Leu Leu Arg Leu Phe Asn Gln His Leu
 1 5 10 15

Arg Ala Ala Ala Gly Arg Ala Thr Thr Asn Ala Thr Leu Asp Ala Leu
 20 25 30

Ser Ala Leu Val Thr His Leu Tyr Thr Arg Asp His Ala Ala Cys Leu
 35 40 45

Met Ala Lys Lys Lys Glu Gly Lys Ala Ile Arg Ala Val Ser Asp Arg
 50 55 60

Leu Lys Trp His Arg Tyr Arg Asp Asn Val Lys Phe
 65 70 75

<210> 6350

<211> 31

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6350

Phe Trp Lys Leu Trp Arg Lys Leu Tyr Arg Leu Phe Lys Pro Arg Ala
1 5 10 15

Arg Arg Lys Leu Ala Leu Ala Arg His Ala Thr Arg Cys Ile Phe
20 25 30

<210> 6351

<211> 39

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6351

Phe Phe Lys Leu Met Asn Lys Met Phe Arg Phe Met Arg Arg His Ser
1 5 10 15

Lys Leu Leu Arg Pro Asn Lys Ala His Glu Gly Arg Ile Arg Leu Ala
20 25 30

Leu Lys Ala Trp Leu Lys Leu
35

<210> 6352

<211> 68

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6352

Lys Leu Arg Trp Tyr Lys Lys Leu Phe Arg Ile Trp Asn Cys Lys Lys
1 5 10 15

Leu Arg Lys Pro Arg Pro Ala Leu Leu Arg Val His Gln Cys His Lys
20 25 30

Ser Ala Leu Pro Ala Leu Asp Glu Ala Cys Asp Leu Ala Lys Ala Gly
35 40 45

Met Arg Ala His Met Leu Ala Cys Lys Ala Phe Tyr Arg Ala Lys Met
 50 55 60

Lys Lys Met Ile
 65

<210> 6353
 <211> 39
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6353

Arg Phe Lys Leu Leu Ser Arg Phe Leu Arg Trp Leu Arg Arg Ser Tyr
 1 5 10 15

Pro Glu Ser Arg Tyr Leu Ala Ala Lys Leu Lys Gln Gln Leu Ala Ala
 20 25 30

Arg Arg Arg Val Gln Gln His
 35

<210> 6354
 <211> 52
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6354

Arg Met Lys Tyr Ile Arg Lys Leu Leu Arg Ile Ile Asn Arg Cys Leu
 1 5 10 15

Ile Gly Leu Arg Leu Cys Leu Arg Lys His Lys Gln Met Gln Trp Lys
 20 25 30

Ala Leu Leu Arg Lys Arg Gly Leu Met Ala Arg Ala Gly Ser Gly Ser
 35 40 45

Ala Asn Leu Leu
 50

<210> 6355

<211> 47
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6355

Lys Phe Arg Tyr Trp Lys Lys Trp Phe Lys Lys Leu Arg His Leu Ser
 1 5 10 15

Arg Leu Arg Ala Lys Glu Thr Thr Thr Trp Trp Ala Tyr Ala Leu Lys
 20 25 30

Lys Ala Ala Gly Pro Asp Ala Asp Thr Ala Ala Ile Arg Leu Ile
 35 40 45

<210> 6356
 <211> 46
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6356

Lys Phe Arg Phe Tyr Asn Arg Ile Tyr Arg Arg Tyr Asn Lys Leu Val
 1 5 10 15

Pro Pro Arg Thr Ala Arg Leu Lys Lys Arg Glu Ala Thr Ala Asn Asn
 20 25 30

Ala Leu Arg Cys Trp Gly Arg Glu Arg Leu Lys Ala Ala Leu
 35 40 45

<210> 6357
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6357

Leu Phe Lys Phe Met Cys Lys Leu Leu Arg Lys Phe Gln Arg Ala His
 1 5 10 15

Ala Leu Leu Met Glu Arg Ile Leu Gln Arg Asn Arg

20

25

<210> 6358
 <211> 26
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6358

Leu Leu Arg Leu Phe His Arg Leu Tyr Arg Tyr Met Lys Arg Ile Leu
 1 5 10 15

Lys Lys Gln Tyr Leu Asn Arg Tyr Ala Lys
 20 25

<210> 6359
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6359

Leu Phe Lys Ile Tyr Arg Lys Leu Leu Arg Leu Phe Asn Arg Leu Phe
 1 5 10 15

Lys Lys Thr Asn Leu Ala Lys Arg
 20

<210> 6360
 <211> 65
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6360

Arg Trp Arg Ile Leu Pro Lys Leu Tyr Arg Leu Met Lys Arg Lys Pro
 1 5 10 15

Arg Leu Thr Tyr Gln Ala Ala Arg Tyr Arg Thr Glu Ala Ala Leu Glu
 20 25 30

Lys Arg Asn Arg Asn Leu Pro Thr Leu Asp Arg Arg Ala Ala Ala Arg

35

40

45

Lys Lys Leu Phe Thr Ala Arg Ile Gly Arg Leu Arg Ala Met Pro Ile
 50 55 60

Lys
 65

<210> 6361
 <211> 41
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6361

Arg Trp Arg Phe Leu Lys Lys Met Phe Lys Lys Phe Lys Pro Leu Gly
 1 5 10 15

Arg Lys Cys Thr Lys Val Ala Leu His Ser Asn Ala Arg Ala Val Asn
 20 25 30

Leu Lys Ile Gln His Ala Leu Ala Lys
 35 40

<210> 6362
 <211> 68
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6362

Phe Tyr Lys Trp Leu Ser Lys Leu Phe Arg Leu Leu Ser Arg Leu Gly
 1 5 10 15

Ala Leu Lys Lys Ala Trp Asn Val Arg Lys Ala Glu Pro Lys Arg Ala
 20 25 30

Gly Asp Val Lys Asn Ala Lys Gln Ala Ala Leu Asp His Leu Asn Gln
 35 40 45

Val Gln Lys Ala Cys Ser Glu Leu Asp Val Leu Leu Phe Phe Arg Leu
 50 55 60

Ala Arg Lys Arg
65

<210> 6363
<211> 25
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 6363

Lys Tyr Arg Phe Leu Arg Lys Trp Ile Arg Ile Leu Gln Arg Ala Ala
1 5 10 15

Ala Lys Ile Lys Leu Met Glu Leu Arg
20 25

<210> 6364
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 6364

Leu Phe Lys Phe Leu Ser Lys Phe Leu Lys Phe Phe Lys Pro Ala Leu
1 5 10 15

Arg Lys Lys Val Glu Arg Asp Glu Ala Cys Ala Tyr Arg Leu Ala Arg
20 25 30

<210> 6365
<211> 63
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 6365

Leu Trp Lys Leu Tyr Lys Lys Met Phe Arg Lys Ile Arg Lys Thr Ser
1 5 10 15

Lys Arg Pro Pro His Ala Leu Thr Ala Asn Met Ala Arg Leu Arg Phe
20 25 30

Arg Asn Thr Leu Ile Leu Val Ala Ala Lys Asn Ala Ala Val Arg Gly
 35 40 45

Lys Glu Ala Lys Phe His Gly Ala Arg Gln Arg Cys Ala Leu Ala
 50 55 60

<210> 6366

<211> 69

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6366

Arg Leu Lys Tyr Leu Lys Arg Met Trp Lys Phe Leu Arg Arg Arg Phe
 1 5 10 15

Arg Thr Lys Lys Leu Asp Tyr Asp Lys Pro Ala Glu Tyr Tyr Leu Leu
 20 25 30

Arg Arg Asp Ala Thr Pro Leu Leu Pro Leu Arg Ala Leu Ser Tyr Glu
 35 40 45

Val Arg Leu Lys Lys Ala Ala Cys Thr Gly Asn Ala Pro Pro Pro Ser
 50 55 60

Arg Ala Ala Ala Lys
 65

<210> 6367

<211> 74

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6367

Phe Leu Arg Phe Tyr Asn Arg Met Leu Arg Lys Phe Thr Lys Gly Trp
 1 5 10 15

Pro Leu Gly Lys Trp Leu Arg Arg Lys Leu Tyr Ala Ser Ala Arg Trp
 20 25 30

Arg Ile Leu Tyr Asn Ala Lys Lys Lys Ala Leu Thr Lys Gln Leu Asp

35

40

45

Asn Glu Val His Ala Gln Cys Glu Pro Leu Ala Ala Lys Leu Leu Ala
 50 55 60

Ala Met Ala Leu Arg Ala Val Phe Arg Ala
 65 70

<210> 6368

<211> 46

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6368

Phe Leu Lys Ile Leu Lys Arg Leu Met Lys Lys Met Lys Arg Lys Lys
 1 5 10 15

Leu Gln Arg Ala Val Val Cys Val Leu Arg Glu Ala Leu Leu Met Leu
 20 25 30

Asp Leu Leu Arg Arg Pro Asp Asn Val Leu Lys Arg Leu Ser
 35 40 45

<210> 6369

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6369

Lys Trp Lys Ile Leu Lys Lys Tyr Ile Arg Lys Leu Ser Gln His Met
 1 5 10 15

Ser Arg Lys Leu Ala Val Leu Thr Trp Arg Trp Lys Ala Ala Gln Leu
 20 25 30

Met Ala Arg Glu Lys Thr Ala Leu
 35 40

<210> 6370

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6370

Leu	Met	Arg	Phe	Leu	His	Lys	Phe	Leu	Lys	Arg	Leu	Arg	Asn	Phe	Cys
1				5					10					15	

Met	Leu	Ala	Asp	Gly	Pro	His	Asp	Lys	Asn	His	Arg	Lys	Arg	Leu	Ala
			20					25					30		

Lys Ala

<210> 6371

<211> 87

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6371

Arg	Tyr	Arg	Leu	Tyr	Cys	Lys	Trp	Met	Arg	Arg	Met	Asn	Lys	Glu	Lys
1				5					10					15	

His	Arg	Lys	Thr	Lys	Ile	Ser	Met	Ala	Thr	Lys	Cys	Phe	Val	Ala	Arg
			20					25					30		

Asp	Ala	Asn	Lys	Ala	Ala	Tyr	Cys	Cys	Leu	Leu	Lys	Arg	Ala	Pro	Pro
		35					40					45			

Leu	Pro	Arg	Arg	Tyr	Val	Tyr	Gln	Ala	Lys	Asp	Leu	Ala	Ser	Arg	Asp
	50					55					60				

Leu	Leu	Gln	Trp	Asn	Cys	Ala	Ala	His	Ala	Lys	Ala	Lys	Ala	Lys	Leu
65					70					75					80

Leu	Glu	Lys	Leu	Lys	Glu	Lys
				85		

<210> 6372

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6372

Lys Leu Lys Trp Leu Pro Arg Met Trp Lys Tyr Leu Arg Arg Thr Leu
 1 5 10 15

Glu Ile Arg Leu Ala Leu Val Leu Gly Trp Lys Lys Ser
 20 25

<210> 6373

<211> 57

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6373

Lys Leu Arg Leu Tyr Pro Lys Ile Tyr Arg Leu Phe Pro Arg Leu Leu
 1 5 10 15

Cys Arg Trp Gly His Trp Ala Lys Ala Ala Gln Met Thr Ala Lys Phe
 20 25 30

Arg Lys Ala Arg Lys Arg Ser Ala His Asp Arg Ala Arg Tyr Trp Ser
 35 40 45

Lys Lys Gly Ala Leu His Leu Met Leu
 50 55

<210> 6374

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6374

Leu Leu Lys Phe Leu Arg Lys Phe Ile Lys Arg Leu Pro Lys Arg Leu
 1 5 10 15

Leu Met Met Leu Met Arg Met Arg Ala Lys Gln Ser His Lys Ala His
 20 25 30

Leu

<210> 6375
 <211> 26
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6375

Leu Trp Lys Leu Leu His Lys Ile Leu Lys Arg Phe Arg Arg Leu Cys
 1 5 10 15

Ile Ala Leu Arg Asn Lys Thr Ala Lys Gln
 20 25

<210> 6376
 <211> 64
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6376

Lys Ile Arg Leu Tyr Arg Lys Ile Leu Arg Phe Met Lys Lys Trp Phe
 1 5 10 15

Leu Leu Leu Met Ala Leu Leu Arg Ala Tyr Ala Ala Thr Arg Ala Lys
 20 25 30

Phe Phe Pro Trp Pro Lys Phe Gly Met Lys Trp Asp Lys Ala Thr Arg
 35 40 45

Ser Ala Arg Gln Arg Thr Glu Lys Leu Leu Lys Leu Val Arg Lys Phe
 50 55 60

<210> 6377
 <211> 65
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6377

Trp Phe Arg Leu Trp Thr Lys Leu Trp Lys Lys Phe Lys Cys Arg Phe

[illegible]

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<210> 6378
<211> 52
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 6378
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Met Met Lys Phe Trp Asn Arg Leu Leu Arg Lys Leu Arg Ser Val Arg
1          5          10          15

Ser Leu Leu Ala Ser Arg Ala Ala Phe Ala Ala Ala Arg Lys Lys Glu
20          25          30

Arg Gly Ala Ala Ile Ala Ala Arg Thr Gly Leu Leu Leu Leu Arg Lys
35          40          45

Leu Asn Met Lys
50

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<210> 6379
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 6379
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Lys Leu Lys Phe Leu Pro Arg Tyr Met Arg Leu Leu Pro Lys Asp Lys
1 5 10 15

Ala His Val Ala Ile
20

<210> 6380
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 6380

Met Tyr Lys Tyr Met Lys Arg Leu Phe Arg Lys Met Gln Lys Glu Arg
1 5 10 15

Ala Leu Phe Leu Ala
20

<210> 6381
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 6381

Lys Phe Lys Trp Leu Arg Arg Leu Phe Lys Lys Ile Lys Lys Leu Val
1 5 10 15

Cys Gln Leu Ser Ala Arg Ala Cys Ala Ser Asp Pro
20 25

<210> 6382
<211> 55
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 6382

Met Tyr Arg Leu Tyr Arg Arg Leu Leu Arg Phe Tyr Arg Arg Asn Gln
1 5 10 15

Phe Thr Met His Arg Arg Ala Leu Lys Val Pro Ser Cys Ala Arg Arg
20 25 30

Pro Arg Arg Pro Ala Lys Ala Ala Asn Met Pro Ala Phe Val Ala Ala
 35 40 45

Ala Val Arg Arg Ile Lys Leu
 50 55

<210> 6383

<211> 97

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6383

Lys Leu Lys Leu Leu Gln Arg Leu Tyr Lys Ile Phe Ser Thr Tyr Val
 1 5 10 15

Leu Val Arg Trp Val Val Pro Ala Ala Lys Asn Gln Leu Glu Gln Ala
 20 25 30

Ala Arg Leu Leu Leu Arg Tyr Glu Lys Lys Thr Arg Lys Asn Trp Thr
 35 40 45

Gln Lys Arg Leu Pro Ala Lys Ser Ala Arg Arg Arg Ala Val Arg His
 50 55 60

Arg Val Ala Ala Val Tyr Ala Arg Gly Leu Ala Asp Cys Ala Phe Leu
 65 70 75 80

Ile Glu Trp Lys Arg Tyr Ala Leu Arg Asn Leu Val Ala Leu Ala Glu
 85 90 95

Val

<210> 6384

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6384

Arg Leu Arg Ile Phe Lys Lys Leu Leu Lys Arg Leu His Pro Asp Arg

1 5 10 15

Ala Lys Asn Leu Asp Ala Met Thr Trp
20 25

<210> 6385
<211> 67
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 6385

Arg Leu Arg Phe Leu Thr Lys Leu Phe Lys Leu Trp Pro Asn Thr Ala
1 5 10 15

Cys Leu Gly Asp Met Leu Phe Ala Ala Asp Lys Arg Arg Lys Asn Asp
20 25 30

Leu Lys Lys Leu Pro Lys Leu Cys Lys Trp Lys Ala Lys Lys Cys Lys
35 40 45

Ala Gln Arg Val Arg Pro Gly Tyr Ala Phe Leu Leu Cys Ser Asp Cys
50 55 60

Arg Arg Leu
65

<210> 6386
<211> 60
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 6386

Leu Phe Lys Phe Phe Lys Lys Phe Phe Lys Arg Trp Lys Thr His Leu
1 5 10 15

Asn Asn Lys Lys Trp Ile Arg Ala Ala Met Ser Asp Arg Arg Asn Gly
20 25 30

Arg Lys Arg Lys Pro His Leu Phe Gln Leu Leu Ala Leu Leu Val Ala
35 40 45

Ile Lys Pro Leu Ala Arg Arg Lys Val Ala Ala Lys
 50 55 60

<210> 6387
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6387

Ile Met Arg Leu Trp Arg Lys Leu Leu Lys Lys Tyr Cys Asn Gly Asn
 1 5 10 15

Tyr Gln Arg Leu Leu Lys Ala Tyr Lys
 20 25

<210> 6388
 <211> 45
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6388

Leu Met Lys Phe Ile Lys Arg Ile Phe Arg Arg Trp Lys Lys Leu Thr
 1 5 10 15

Ala Phe Leu Gln Trp Pro Arg Ala Lys Leu Met Val Ile Ala Asp Leu
 20 25 30

Lys Gly Leu Asn Asn Ala Arg Gln Arg Arg Asn Ala Leu
 35 40 45

<210> 6389
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6389

Trp Met Lys Leu Leu Arg Arg Phe Leu Lys Lys Phe Arg Arg Arg Asn
 1 5 10 15

Gly Ala Leu Met Lys Ala Tyr Tyr His Leu Tyr Tyr
 20 25

<210> 6390
 <211> 67
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6390

Lys Leu Arg Leu Ile His Lys Phe Leu Arg Arg Leu Arg Arg Leu Gly
 1 5 10 15

Lys Leu Ala Met Met Lys Pro Phe Ala Lys Ala Glu Asp His Ala Lys
 20 25 30

Gln Tyr Glu Leu Asp Lys Thr Lys Phe Asp Gly Ala Tyr Tyr Leu Arg
 35 40 45

Gly Lys Val Leu Gln Arg Ala Glu Met Ala Arg Lys Asn Lys Leu Arg
 50 55 60

Ala Arg Arg
 65

<210> 6391
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6391

Phe Trp Arg Leu Ile Arg Arg Leu Ile Arg Tyr Met Gln Lys Leu Pro
 1 5 10 15

Leu Ala Lys Ala Arg Asn Lys Leu Arg His Asn Arg Ala
 20 25

<210> 6392
 <211> 49
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6392

Phe	Trp	Lys	Phe	Phe	Thr	Lys	Trp	Tyr	Lys	Met	Leu	His	Arg	Ala	Arg
1				5					10					15	

Lys	Val	Gln	Cys	Leu	Arg	Ala	Lys	Leu	Lys	Lys	Arg	Ala	Ala	Asp	Gly
			20					25					30		

Leu	Ile	Gly	Asp	Phe	Ala	Gly	Tyr	Leu	Lys	Val	Ala	Thr	Ala	Arg	Lys
		35					40					45			

Leu

<210> 6393

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6393

Arg	Phe	Lys	Ile	Phe	Arg	Lys	Trp	Leu	Arg	Tyr	Ile	Lys	Arg	Ala	Lys
1				5					10					15	

Ala	Phe	Ala	Leu	Lys	Val	Gly	Arg	His	His	Thr	Ala	Ala	Ala	Ile	Val
			20					25					30		

Arg	Ala	Ala	Ser	Arg	Phe	Phe	Gln
		35					40

<210> 6394

<211> 50

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6394

Leu	Leu	Arg	Phe	Met	Ser	Arg	Tyr	Tyr	Lys	Arg	Leu	Cys	Lys	Leu	His
1				5					10					15	

Cys	Leu	Ser	Cys	Lys	Leu	Ala	Lys	Ala	Cys	Arg	Lys	Lys	Val	Leu	Arg
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

20

25

30

Ala Arg Glu Gly Leu Leu Arg Glu Cys Leu Ile Leu Trp Leu Lys Ala
 35 40 45

Pro Ile
 50

<210> 6395
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6395

Ile Met Lys Leu Leu Lys Arg Leu Leu Arg Phe Leu Lys Cys Lys Asn
 1 5 10 15

Ile Ala Pro Tyr Ala Arg Phe Val Trp Gly Arg Lys
 20 25

<210> 6396
 <211> 43
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6396

Leu Leu Arg Leu Met Arg Lys Leu Trp Lys Phe Trp Ser Arg Arg Gln
 1 5 10 15

Val Arg Lys Pro Asp Lys Pro Ala Ala Cys Thr Leu Ala Pro Lys Gly
 20 25 30

Met Ala Ala Trp Leu Leu Ala Gln Ala Lys Met
 35 40

<210> 6397
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6397

Leu Leu Lys Phe Leu Thr Arg Phe Leu Arg Arg Met Asn Arg Tyr Ala
 1 5 10 15

Asp Ile Lys Met Lys Tyr Thr Ala Gln Met Arg Leu Asn Trp Ala Met
 20 25 30

Ala Lys Trp Gly Lys Arg Leu Arg
 35 40

<210> 6398

<211> 79

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6398

Leu Leu Arg Leu Phe Lys Lys Phe Met Arg Met Phe Ser Arg Arg Pro
 1 5 10 15

Cys Arg Pro Thr Lys Cys Leu Lys Ala Lys Lys Ala Leu Leu Glu Cys
 20 25 30

Ala Ile Lys Ala Asn Trp Leu Gln Leu Leu Ala Lys Leu Gln Gly Glu
 35 40 45

Cys Ile Ala Ser Arg Arg Arg Asn Ala Ala Gln Thr Lys Arg Lys Pro
 50 55 60

Asn Tyr Ala Trp Asp Ala Lys Val Arg Lys Lys Leu Ala Lys Tyr
 65 70 75

<210> 6399

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6399

Leu Leu Arg Leu Met Lys Arg Trp Met Arg Arg Met Lys Ser Asn Ala
 1 5 10 15

Ala Lys Val Met
20

<210> 6400
<211> 55
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 6400

Lys Tyr Lys Leu Leu Lys Lys Leu Trp Arg Lys Leu Lys Pro Ala Ala
1 5 10 15

Lys Leu Pro Trp Ala Leu Arg Gly Lys Leu Cys Cys Ile Lys Ser Arg
20 25 30

His Lys Leu Lys Arg Leu His Leu Leu Ala Gly Cys Leu Pro Asn Lys
35 40 45

Thr Lys Thr Arg Ile Lys Lys
50 55

<210> 6401
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 6401

Lys Leu Lys Phe Phe Gln Lys Leu Leu Lys Tyr Met Thr Arg Leu Gly
1 5 10 15

Trp Arg Ala His Lys Ala Lys Ala Gly Ile Lys Ala
20 25

<210> 6402
<211> 46
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 6402

Phe Phe Arg Met Leu Lys Arg Leu Leu Arg Arg Phe Arg Arg Cys Gly
 1 5 10 15

Arg Leu Val Ser Lys Ala Leu Ile Asn Ala Leu Lys Arg Arg Lys Asn
 20 25 30

Arg Trp Met Leu Lys Asn Leu Leu Ala Asp Ala Arg Val Gly
 35 40 45

<210> 6403
 <211> 54
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6403

Lys Met Lys Ile Ile Arg Arg Trp Leu Arg Phe Phe Arg Cys Lys Cys
 1 5 10 15

His Arg Phe Val Gln Ala Pro Lys Ala His Ala Ala His Arg Thr Lys
 20 25 30

Leu Arg Ala Leu Lys Asp Arg Ala Pro His Lys Asp Ala Trp Asn Leu
 35 40 45

Lys Ala Leu Met Lys Lys
 50

<210> 6404
 <211> 66
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6404

Arg Met Lys Leu Phe Pro Lys Leu Met Lys Tyr Leu Thr Cys Gln Arg
 1 5 10 15

Glu Arg Arg Glu Arg Lys Leu Cys Gln Met Ala Trp Phe Leu Thr Arg
 20 25 30

Arg Leu Tyr Arg Met Lys Arg Arg Arg Asp Arg Tyr Leu Trp Arg Leu

35

40

45

Gly Tyr Leu Ala Leu Leu Gly Ala Leu Gln Leu Gln Tyr Asn Ala Arg
 50 55 60

Arg Asn
 65

<210> 6405
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6405

Arg Ile Arg Phe Met Thr Lys Leu Leu Lys Arg Ile Lys Lys Ala Pro
 1 5 10 15

Ser Ala Ala Gln Pro Ala Ala
 20

<210> 6406
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6406

Leu Phe Arg Tyr Leu Lys Lys Phe Phe Arg Tyr Leu Lys Arg Leu Glu
 1 5 10 15

Gly Arg Ala Met Leu Pro
 20

<210> 6407
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6407

Arg Leu Lys Leu Trp Arg Lys Met Leu Arg Arg Trp Ser Lys Ala Ala

1 5 10 15

Leu Leu Trp Ala Lys Met Tyr Phe
20

<210> 6408
<211> 24
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 6408

Arg Met Lys Leu Trp Cys Lys Leu Trp Arg Arg Ile Cys Thr Lys Ala
1 5 10 15

Ala Lys Ala Glu Leu Lys Asn Cys
20

<210> 6409
<211> 58
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 6409

Lys Met Arg Tyr Phe Arg Arg Leu Ile Lys Phe Phe Ser Pro Cys Leu
1 5 10 15

Gly Trp Ala Arg Lys Phe Lys Lys Arg Glu Lys Leu Leu Ile Leu His
20 25 30

Arg Leu Arg Met Phe Gly Leu Pro Gln Ile Glu Leu Lys Lys Leu Trp
35 40 45

Leu Ile Glu Lys Ala Ala Ala Lys Leu Cys
50 55

<210> 6410
<211> 52
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 6410

Arg Leu Lys Ile Tyr Lys Arg Trp Ile Lys Arg Leu Arg Lys Gly Leu
 1 5 10 15

Cys Lys Ile Ala Leu Leu Gln Ala Arg Met Ala Met Gln Met Arg Asn
 20 25 30

Arg Arg Ala Ala Arg Cys Ser Glu Ala Tyr Leu Thr Arg Gly Gln Arg
 35 40 45

Pro Arg Ser Ser
 50

<210> 6411

<211> 52

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6411

Lys Phe Arg Trp Leu Gln Lys Tyr Tyr Arg Met Trp Arg Gln Ala Gly
 1 5 10 15

Gln Thr Ala Ala Ala Cys Lys Leu Ala Pro Phe Lys Arg His Phe Thr
 20 25 30

Arg Leu Ala Ala Arg Cys Arg Arg Arg Lys Leu Asp Lys His Tyr Arg
 35 40 45

Ala Thr Leu Tyr
 50

<210> 6412

<211> 57

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6412

Leu Leu Arg Leu Trp Lys Lys Leu Met Arg Tyr Leu Arg Thr Lys Val
 1 5 10 15

Val Arg Ala Arg Ala Arg Glu Arg Ala Ala Glu Arg Arg Gly Gly Arg
 20 25 30

Arg Glu Phe Asp Lys Ile Ala Leu Leu Cys Leu His Ser Leu Ala Cys
 35 40 45

Leu Lys Ile Ile Ala Trp Gln His Glu
 50 55

<210> 6413

<211> 95

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6413

Lys Phe Arg Trp Leu Cys Arg Ile Leu Lys Lys Ile Cys Lys Ile Arg
 1 5 10 15

Ala Arg Thr Arg Gln Trp Leu Leu Lys Ala Met Leu Ala Lys Arg Pro
 20 25 30

Lys Arg Val Leu Ala Lys Lys Met Lys Ala Phe Arg Lys Leu Tyr Leu
 35 40 45

Leu Ala Val Ala Ala Ala Arg Arg His Leu Pro Ile Lys Ala Ala Arg
 50 55 60

Tyr Leu Arg Ala Thr Ile Glu Pro Gly Ala Ala Asn Asp Arg Gly Ile
 65 70 75 80

Leu Arg Ser Val Trp Ser Gly Pro Ser Glu Ala Asn Ala Gln Gln
 85 90 95

<210> 6414

<211> 31

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6414

Arg Leu Lys Leu Leu Thr Lys Phe Trp Lys Arg Phe Gln Arg Arg Leu

1 5 10 15

His Ser Leu Ala Leu Val Met Arg Tyr Arg Ala Lys Lys Ala Lys
20 25 30

<210> 6415
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 6415

Lys Leu Lys Leu Leu Thr Lys Leu Leu Lys Arg Phe Thr Arg Ala Ala
1 5 10 15

Gly Pro Met Lys Val Met Ala Thr Asp Val Ala
20 25

<210> 6416
<211> 44
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 6416

Lys Leu Lys Leu Ile Ser Arg Leu Ile Lys Leu Phe Gln Arg Ala Ala
1 5 10 15

His Leu Phe Lys Cys Asp Phe Gly Asn Ala Lys Arg Ala Tyr Thr Arg
20 25 30

Leu Ala Lys Gln Asn Gly Ala Leu Arg Gln Met Arg
35 40

<210> 6417
<211> 94
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 6417

Arg Leu Arg Ile Leu Lys Lys Phe Tyr Lys Arg Tyr Ser Asn His Arg

Leu Phe Lys Ile Leu Lys Lys Leu Leu Arg Tyr Met Cys Lys Phe Arg
1 5 10 15

Phe Leu Glu Ala His Trp Ser Arg Lys
20 25

Leu Phe Lys Tyr Leu Lys Arg Phe Phe Arg Phe Phe Lys Arg Ala Ala
1 5 10 15

Leu Asn Leu Lys Arg Asp Leu Ala Lys Ala Trp Phe Asn Ala Ala Gln
20 25 30

Phe Lys Leu Arg Ala Asn Trp
35

<210> 6420

<211> 55

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6420

Arg Leu Lys Phe Leu Lys Arg Leu Phe Arg Leu Met Arg Lys Lys Arg
1 5 10 15

Leu Tyr Leu Met Asp Ser Thr Lys Arg Leu Glu Ala Leu Phe Tyr Ile
20 25 30

Phe Gly Asp Arg Arg Cys Leu Leu Lys Ala His Cys Ala Val Ala Lys
35 40 45

Leu Lys Gly Lys Met Leu Leu
50 55

<210> 6421

<211> 63

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6421

Leu Leu Lys Phe Ile Arg Arg Phe Leu Lys Met Phe Arg Ser Lys Lys
1 5 10 15

Arg Leu Ala Cys Arg Trp Ile Met Leu Leu Leu Leu Met Ile Asp Lys
20 25 30

Lys Ile Cys Val Ala Pro Asn Arg Asn Leu Arg Glu Leu Ala Pro Arg
35 40 45

Arg Asp Ala Gln Cys Leu Ile Arg Arg Phe Leu Ala His Arg Lys
50 55 60

<210> 6422

<211> 65
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6422

Phe Leu Lys Leu Phe Lys Lys Met Tyr Arg Leu Phe Thr Arg Ser Phe
 1 5 10 15

Ser Ala Gln Lys Leu Arg His Ala Leu Leu Lys Ala Ile Ala Leu Asp
 20 25 30

His Tyr Gly Lys Lys Leu Leu Lys Ser Leu Ile Leu Lys Lys Cys Asn
 35 40 45

Ala Leu Cys Ala Arg Ala Arg Met Ala Pro Arg Ile Thr Ser Val Lys
 50 55 60

Phe
 65

<210> 6423
 <211> 41
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6423

Arg Tyr Lys Leu Met Lys Lys Leu Ile Arg Tyr Trp Cys Arg Lys Ala
 1 5 10 15

Gly Phe Leu Ala Ala Gln Leu Ala Ile His Leu Arg Arg Asp Ala Asp
 20 25 30

Arg Leu Pro Arg Thr Lys Ser Leu Leu
 35 40

<210> 6424
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6424

Lys Leu Arg Leu Met Lys Arg Phe Leu Lys Lys Ile Arg Lys Met Lys
 1 5 10 15

Leu Val Leu Gln Ala Asn Thr Ile Ala Ala Leu Leu Arg Ala His Asp
 20 25 30

Arg Asp Leu
 35

<210> 6425

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6425

Phe Met Lys Leu Leu Arg Arg Leu Ile Arg Tyr Met Cys Thr Lys Ala
 1 5 10 15

Lys Ala Trp Met Cys Leu Lys Ala Arg Gly Met Arg Arg Lys Gly Ala
 20 25 30

<210> 6426

<211> 80

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6426

Lys Trp Lys Ile Leu Arg Lys Ile Met Arg Arg Leu Lys Lys Leu His
 1 5 10 15

Leu Ala Leu Arg Leu Leu Thr Asn Arg Lys Val Asn Met Leu Lys Lys
 20 25 30

Asp Phe Trp Met Tyr Ala Arg Lys Leu Lys Asn Lys Ala Arg Arg Leu
 35 40 45

Pro His Arg Ile Trp Cys Ala Leu Thr Val Arg Glu Ala Leu His Leu
 50 55 60

Leu His Gly Ile Lys His Lys Pro Gln Asn Glu Ala Leu Glu Arg Ser
 65 70 75 80

<210> 6427
 <211> 42
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6427

Phe Met Lys Leu Ile Arg Lys Ile Tyr Lys Tyr Leu Arg Arg Arg Leu
 1 5 10 15

Thr Leu His Arg Lys Ala Leu Glu Cys Ala Val Ala Gly Leu Tyr Leu
 20 25 30

His Trp Glu Lys Leu Gln Leu Ala Leu Met
 35 40

<210> 6428
 <211> 43
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6428

Met Leu Arg Leu Met Lys Lys Leu Phe Lys Arg Phe Arg Arg Ser Phe
 1 5 10 15

Leu Arg Cys Lys Leu His Asn Ala Leu Leu Arg Cys Phe Thr Lys Ala
 20 25 30

Arg Lys Ala Lys Ile His Cys Trp Tyr Ala Trp
 35 40

<210> 6429
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6429

Tyr Ile Lys Tyr Leu Lys Arg Leu Leu Arg Met Trp Ser Lys Lys Ala
 1 5 10 15

Ala Ala Phe Met
 20

<210> 6430
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6430

Lys Trp Arg Leu Leu Cys Arg Trp Leu Arg Arg Leu Asn Arg Lys Ile
 1 5 10 15

Ala Ala Arg Leu Cys Ala Val Cys Tyr Trp Asn Ala Gly Lys Pro Arg
 20 25 30

Thr Pro Ser Lys
 35

<210> 6431
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6431

Phe Leu Lys Tyr Leu Lys Lys Phe Met Arg Met Leu Arg Asn Ala Leu
 1 5 10 15

Arg Leu Trp Met Val Arg Gln Lys Leu Val Leu Lys Trp Ala Lys Trp
 20 25 30

Glu Cys Leu Cys Arg Asp Ala Tyr
 35 40

<210> 6432
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6432

Met	Met	Lys	Leu	Leu	Gln	Arg	Leu	Ile	Lys	Phe	Leu	Arg	His	Cys	Ala
1				5					10					15	

Ala	Gly	Arg	Thr	Leu	Arg
				20	

<210> 6433

<211> 100

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6433

Arg	Tyr	Arg	Phe	Trp	Pro	Lys	Trp	Phe	Lys	Arg	Trp	Thr	Arg	Arg	Lys
1				5					10					15	

Ala	Tyr	His	Leu	Arg	Phe	Arg	Arg	Pro	Ala	Ala	Leu	Glu	Lys	Ile	Ser
			20					25					30		

Thr	Met	Phe	Asn	Ala	Leu	Ser	Cys	Gln	Leu	Gly	Leu	Gly	His	Gln	Asn
		35					40					45			

Arg	Ala	Tyr	Ala	Tyr	Ala	Lys	Leu	Ser	Asp	Ser	Lys	Arg	Ala	Leu	Leu
	50					55					60				

Leu	Ala	Leu	Lys	Phe	Phe	Lys	Lys	Thr	Arg	Phe	Trp	Leu	Lys	Ala	Leu
65					70					75					80

Pro	Arg	Val	Lys	Tyr	Arg	Gly	Arg	Arg	Lys	Ala	Lys	Leu	Leu	Val	Lys
				85					90					95	

Leu	Asp	Phe	Arg
			100

<210> 6434

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6434

Leu	Phe	Lys	Phe	Leu	Lys	Lys	Tyr	Ile	Lys	Leu	Phe	Arg	Arg	Thr	Lys
1				5					10					15	

Met	Leu	Leu	Leu	Arg	Lys	Ser	Gln	Gln	Met	Gly	Leu	Ala	Val	Glu	Pro
			20				25						30		

Lys Arg

<210> 6435

<211> 81

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6435

Lys	Met	Lys	Met	Leu	Ser	Arg	Met	Phe	Arg	Leu	Leu	Arg	Lys	Gly	Tyr
1				5				10						15	

Leu	Leu	Arg	Arg	Leu	Glu	Thr	Asp	Tyr	Lys	Ala	Leu	Asn	Lys	Cys	Ala
			20				25						30		

Ala	Cys	Ala	Lys	Arg	Arg	Ala	His	Lys	Leu	Arg	Lys	Ile	Lys	Ala	Arg
		35				40						45			

Leu	Ala	Ala	Tyr	Asp	Ile	Tyr	Leu	Tyr	Lys	Ala	Arg	Gly	Phe	Ser	Gln
	50				55					60					

Leu	Arg	His	Met	Glu	Leu	Phe	Asp	Pro	His	Lys	Gln	Val	Leu	Tyr	Arg
65				70						75				80	

Ala

<210> 6436

<211> 88

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6436

Arg Tyr Arg Leu Trp Lys Arg Ile Trp Lys Arg Met Thr Lys Val Thr
 1 5 10 15

Leu Ala Ala Trp Arg Gly Ala Lys Leu Lys Lys Arg Leu Asn Asp Leu
 20 25 30

Tyr Lys Phe Lys Lys Lys Leu Arg Lys Trp Gln His Ala Leu Phe Ala
 35 40 45

Tyr Thr Thr Pro Arg Asp Gly Ala Arg Lys Lys Ala Thr Ala Arg Arg
 50 55 60

Ala Leu Thr Ser Met Lys Lys Trp Gly Phe Thr Leu Ser Gly Leu Thr
 65 70 75 80

Leu Trp Thr Ala Ala Leu Glu Ala
 85

<210> 6437

<211> 50

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6437

Trp Trp Lys Tyr Phe Arg Arg Phe Leu Arg Leu Ile His Arg Cys Arg
 1 5 10 15

Val Ala Cys Arg Leu Pro Lys Lys Lys Leu His Lys Ala Arg Ala Thr
 20 25 30

Gly Cys Ala Ala Arg Met Leu Glu Ser Lys Asp Ile Asp Leu Gln Leu
 35 40 45

Leu Leu
 50

<210> 6438

<211> 100

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6438

Leu Leu Lys Tyr Leu Pro Arg Leu Met Lys Arg Phe Thr Thr His Ala
 1 5 10 15

Val Asn Lys Tyr Lys Leu Leu Leu Arg Arg Lys Thr Ala Ala Lys Asn
 20 25 30

Arg Tyr Ala Thr Cys Gln Pro Leu Arg Leu Leu Thr Lys Arg Pro Asn
 35 40 45

His His Leu Leu Ala Lys Lys Leu Gln His Gln Ala His Leu Glu Arg
 50 55 60

Gln Cys Tyr Lys Arg Cys Trp Phe Asn Lys Cys Ala Ala Glu Cys Ala
 65 70 75 80

Ala Gly Arg Asp Ala His Lys Ala Leu Ala Leu Cys Ala His Phe Gly
 85 90 95

Lys Leu Glu Leu
 100

<210> 6439

<211> 63

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6439

Lys Phe Lys Phe Leu Arg Arg Tyr Trp Arg Lys Leu Lys Lys Met Thr
 1 5 10 15

Phe Tyr Gln Lys Leu Leu Lys Met Arg Cys Arg Thr Leu Leu Asp Arg
 20 25 30

Leu Phe Lys Lys Gln Gly Gly Gly Leu Leu Gly Phe Arg Tyr Leu Ala
 35 40 45

Glu His Leu Asp Ala Asp Leu Ala Lys Lys Ala Ile Ala Cys Arg
 50 55 60

<210> 6440

<211> 44
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6440

Lys Ile Arg Leu Tyr Pro Lys Leu Leu Lys Trp Phe Lys Lys His His
 1 5 10 15

Ala Gln Arg Met Met Leu Leu Tyr Lys Leu Arg His Glu Leu Lys Arg
 20 25 30

Ala Leu Pro Pro Ala Lys Cys Leu Phe Ile Leu Lys
 35 40

<210> 6441
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6441

Leu Leu Arg Phe Leu Lys Lys Phe Leu Arg Met Tyr Arg Gln Ala Phe
 1 5 10 15

Gly Arg Arg Val Thr
 20

<210> 6442
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6442

Ile Phe Arg Leu Leu Lys Lys Leu Ile Lys Leu Leu His Thr Ala Leu
 1 5 10 15

Arg Trp Tyr His Arg Ile Ser Leu Asp Lys Lys Phe Ala
 20 25

<210> 6443

<211> 39
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6443

Leu Ile Lys Phe Phe Arg Arg Leu Trp Arg Trp Tyr Thr Gln Phe Ala
 1 5 10 15

Lys Arg Cys Leu Trp Arg Lys Leu Leu Phe Phe Arg Lys Leu Arg Ile
 20 25 30

Lys Ala Ala Leu Tyr Lys Leu
 35

<210> 6444
 <211> 56
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6444

Leu Met Arg Phe Leu Cys Arg Leu Trp Arg Arg Leu Lys Pro Ile Ala
 1 5 10 15

Leu Leu Leu Ile Met Met Leu Arg Ser Trp Lys Arg Arg Cys Pro Ala
 20 25 30

Cys Ile Ala Leu Arg Glu Asp Ser Ser Lys Lys Lys Lys Val Ile Arg
 35 40 45

Thr Leu Ser Gly Lys Leu Ala Met
 50 55

<210> 6445
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6445

Phe Leu Lys Ile Leu Ser Arg Trp Trp Arg Ile Leu Thr Thr Arg Arg

1 5 10 15

Ala Ala Lys Val Leu Gly His Val Gly Lys Ala Arg Leu Tyr Arg Lys
20 25 30

<210> 6446
<211> 29
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 6446

Lys Trp Lys Ile Leu Asn Lys Met Leu Lys Arg Trp Arg Lys Arg Leu
1 5 10 15

Leu His Ala Tyr Met Ala Gln Leu Ala Tyr Arg Gln Lys
20 25

<210> 6447
<211> 68
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 6447

Lys Ile Lys Leu Phe Lys Arg Phe Phe Lys Leu Phe Lys Arg Met Ala
1 5 10 15

Thr Pro Tyr Tyr Ala Ala Ser Ser Asn Pro Asp Ala Cys Val Cys Leu
20 25 30

Lys Gln Lys Leu Ala Leu Gln Ala Lys Ala Lys Leu Asn Val Ile Leu
35 40 45

Pro Ala Leu Ala Ala Thr Arg Arg Leu Lys Glu Ala Phe Val Arg Ala
50 55 60

Asn Ala Tyr Lys
65

<210> 6448
<211> 36
<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6448

Arg	Tyr	Lys	Leu	Phe	Lys	Lys	Leu	Phe	Lys	Leu	Trp	Arg	Thr	Lys	Met
1				5					10					15	

Ala	Leu	Arg	Arg	Trp	Ala	Trp	Lys	Arg	Asp	Ser	Leu	Asn	His	Ser	Arg
			20				25						30		

Leu	Gln	His	Leu
			35

<210> 6449

<211> 87

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6449

Lys	Met	Arg	Leu	Phe	Asn	Lys	Phe	Phe	Lys	Arg	Trp	Ser	Lys	Arg	Gly
1				5					10					15	

Arg	Cys	Cys	Leu	Leu	Ile	Gln	Tyr	Arg	Cys	Ala	Pro	Leu	Thr	Arg	Arg
			20				25						30		

Glu	Asp	Lys	Trp	Lys	Arg	Leu	Leu	Thr	Leu	Ala	Arg	Trp	Pro	Leu	Leu
		35					40					45			

Arg	Val	Tyr	Asp	Leu	Met	Met	Ala	Ile	Gln	Leu	Lys	Arg	Ala	Ala	Lys
	50					55					60				

Leu	Gln	Leu	Leu	Lys	Lys	Pro	Lys	Asn	Lys	Gln	Asn	Ala	Ala	Lys	Ala
65					70					75					80

Lys	Leu	Leu	Arg	Thr	Ala	Arg
						85

<210> 6450

<211> 72

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6450

Arg	Phe	Arg	Met	Tyr	Cys	Arg	Ile	Phe	Lys	Arg	Ile	Arg	Thr	Leu	Arg
1				5					10					15	

Ala	Ala	Pro	Leu	Lys	Val	His	Lys	Ala	Ile	Arg	Ala	Thr	Leu	Arg	Arg
			20					25					30		

Asp	Pro	Ala	Lys	Arg	Lys	Arg	Gln	Leu	Lys	Ala	Lys	Leu	Ser	Glu	Ala
		35					40					45			

His	Ala	His	Val	Gly	Ala	Lys	Asp	Lys	Leu	Cys	Ala	Leu	Cys	Tyr	Arg
	50					55					60				

Thr	Leu	Ala	His	Phe	Glu	Pro	Gly
65						70	

<210> 6451

<211> 49

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6451

Leu	Phe	Arg	Tyr	Leu	Arg	Arg	Trp	Ile	Arg	Phe	Leu	Arg	Arg	Ala	Lys
1				5					10					15	

Ala	Glu	Gly	Leu	Arg	Leu	Asn	Tyr	Ala	Lys	Arg	Ala	Ser	Leu	Leu	Arg
			20					25					30		

Leu	His	Ile	Thr	Leu	Gly	Lys	Leu	Pro	Lys	Ala	Lys	Cys	Ala	Tyr	Leu
		35					40					45			

Cys

<210> 6452

<211> 59

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6452

Lys Tyr Lys Ile Leu Lys Lys Leu Trp Arg Arg Leu Lys Pro Phe Arg
 1 5 10 15

Phe Leu Arg Val Lys Asp Arg Met Val Ala Ser Ala Lys Asn Arg Ile
 20 25 30

Ala Tyr Tyr Ala Ala Glu Arg Arg Thr Asn Glu Cys Ala Glu Ala Leu
 35 40 45

Ala Leu Leu Tyr Ala Gln Ser Lys Leu Arg Cys
 50 55

<210> 6453

<211> 86

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6453

Phe Met Lys Leu Met Ser Lys Met Ile Arg Phe Phe Lys Lys Lys Lys
 1 5 10 15

Cys Lys Lys Ala Arg Glu Ile Arg Ala Asp Lys Ser Ile Asp Leu Arg
 20 25 30

Arg Arg Thr His Leu Lys Ile Ser Ala Leu Asp Ala Ala Val Cys Arg
 35 40 45

Leu Leu Arg Ala Arg Ser Ile Lys Pro Gly Asp Asp Ala Arg Thr Leu
 50 55 60

Leu Tyr Lys Leu Ile Ser Glu Lys Lys Ala Lys Arg Pro Leu Lys Asn
 65 70 75 80

Cys Ala Cys Leu His Arg
 85

<210> 6454

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6454

Arg	Leu	Lys	Trp	Phe	Lys	Arg	Leu	Met	Lys	Lys	Leu	Pro	His	Ile	Arg
1				5				10						15	

Phe	Arg	Ala	Ala	Ala	Ser	Met	Arg	Ala	Leu	Val	Tyr	Thr	Arg	Trp	Pro
		20					25						30		

Arg Gly

<210> 6455

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6455

Arg	Tyr	Lys	Leu	Phe	Lys	Lys	Phe	Leu	Arg	Met	Leu	Lys	Thr	Thr	Ala
1				5				10						15	

His	Leu	Ala	His	Lys	Gln	Phe
		20				

<210> 6456

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6456

Trp	Leu	Lys	Phe	Trp	Ser	Lys	Leu	Leu	Lys	Leu	Ile	Pro	Lys	Leu	Leu
1				5				10						15	

Ala	Gln	Gly	Lys	Asn	Ala	Trp	Ala	Lys	Asp	Ala	Pro	Thr	Lys	Arg	Ala
		20					25						30		

Lys	Lys	Cys	Glu
		35	

<210> 6457

<211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6457

Lys Leu Arg Leu Phe Lys Lys Phe Leu Arg Leu Phe Pro Thr His Trp
 1 5 10 15

Glu Lys Leu Tyr Phe Leu Leu Arg
 20

<210> 6458
 <211> 46
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6458

Leu Phe Arg Met Leu Cys Arg Trp Leu Arg Lys Leu Lys Pro Lys Asp
 1 5 10 15

Asn Asp Ala Val Ala Gly Ala Ser Ser Lys Arg Leu Lys Leu Tyr Gly
 20 25 30

Arg Ser Val Met Ile Arg Ala Thr Gln Arg Leu Leu Ala Arg
 35 40 45

<210> 6459
 <211> 78
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6459

Phe Leu Arg Met Leu Cys Lys Leu Ile Arg Arg Leu Arg Arg Cys Arg
 1 5 10 15

Thr Val Arg Arg Gln Lys Gly His Leu Lys Glu Leu Leu Ala Trp Leu
 20 25 30

Pro Ala Arg Phe Glu Leu Ala Lys Val Ala Arg Lys Arg Asn Ala His

35

40

45

Cys Gly Lys Lys Gln Leu Val Phe Arg Lys Ala Arg Gln Gln Met Lys
 50 55 60

Ala Leu Ile Gly Asn Ala Glu Ala Val Met Met Arg Leu Leu
 65 70 75

<210> 6460

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6460

Arg Phe Lys Met Tyr Lys Arg Leu Met Arg Leu Leu Gln Arg Met Gly
 1 5 10 15

Lys Thr Ala Leu
 20

<210> 6461

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6461

Arg Leu Lys Phe Leu Lys Lys Trp Trp Lys Lys Trp Asn Arg Leu Ser
 1 5 10 15

Arg Lys Ala Trp Ile Ala Leu Leu Leu Arg Arg Arg Gly Lys Asp Gly
 20 25 30

Lys Trp Thr Leu Gly Leu Ala Val
 35 40

<210> 6462

<211> 70

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6462

Leu Leu Lys Phe Met Lys Arg Trp Trp Arg Lys Ile Arg Arg Arg Lys
 1 5 10 15

Lys Ala Ile Ala Thr Gln Asn Leu Ala Lys Arg Ala Leu Asn Arg Ser
 20 25 30

Phe Asp Lys Leu Arg Lys Ser Trp Asn Arg Arg Asp Ala Leu Glu Tyr
 35 40 45

Ala Ile Ala Lys Ile Gln Ala Arg His Lys Gly Asp Cys Arg Leu Arg
 50 55 60

Gly Tyr Ile Thr Leu Pro
 65 70

<210> 6463

<211> 54

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6463

Lys Phe Lys Phe Leu Thr Arg Leu Leu Lys Leu Phe Lys Cys Ala Ala
 1 5 10 15

Ala Cys Lys Leu Arg Arg Arg Glu Lys Leu Lys Cys Pro Lys Cys Arg
 20 25 30

Glu Tyr Ala Lys Trp Ala Tyr Leu Leu Arg Gln Val Ala Ser Ala
 35 40 45

Asp Glu Arg Val Ile Gly
 50

<210> 6464

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6464

Leu Leu Lys Met Ile Arg Lys Leu Phe Arg Arg Trp Gln Asn Ala Leu
 1 5 10 15

Arg Val Leu Arg Ala His Arg Met Met Lys His Leu Arg
 20 25

<210> 6465
 <211> 39
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6465

Leu Leu Arg Leu Leu Gln Arg Met Ile Arg Ile Leu His Lys Ala Ala
 1 5 10 15

Arg Ala Gln Ser Val Glu Leu Met Arg Ala Ser Glu Arg Lys Ile Leu
 20 25 30

Lys Lys Arg Thr Pro Ile Arg
 35

<210> 6466
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6466

Lys Leu Arg Phe Phe Ser Lys Ile Leu Arg Arg Phe Lys Arg Leu Ala
 1 5 10 15

Lys Ala Trp His Ala Gln Ser Gly Tyr Arg Ala Leu His Arg
 20 25 30

<210> 6467
 <211> 87
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6467

Lys Leu Lys Tyr Trp Cys Lys Leu Leu Lys Lys Tyr Lys Lys Lys Lys
 1 5 10 15

Val Ile Lys Leu Leu Gln Ala Arg Ala Leu Leu Gln Arg Arg Ala His
 20 25 30

Lys Leu Asn Ile Ser Leu Lys Phe Lys Asp Pro Glu Tyr Cys Lys Arg
 35 40 45

Leu Ala Lys Leu Arg Lys Lys Pro Phe Tyr Lys Gly Leu Arg Trp Cys
 50 55 60

Lys His Ala Val Pro Asn Pro Leu Thr Arg Lys Leu Ala Ala Lys Ala
 65 70 75 80

Val His Ala Lys Gln Tyr Cys
 85

<210> 6468
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6468

Arg Phe Lys Tyr Leu Arg Arg Phe Leu Arg Leu Leu Lys Arg Leu Asn
 1 5 10 15

Arg Val Asn Ala Leu Pro Arg Ser Tyr Ala Cys Lys Leu Leu His Ala
 20 25 30

Arg

<210> 6469
 <211> 63
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6469

Arg Tyr Arg Leu Leu His Lys Phe Ile Arg Tyr Leu Arg Gln Arg Met

Lys Asn Ala Lys Arg Leu Asn Ala Glu Ala Ala Gly Ala Asn Arg Trp
20 25 30

Ala Ile Ala Arg Ser Asn Pro Gly Lys Arg Arg Ser Lys Val Leu Leu
35 40 45

Ala Phe Lys Asn Arg Ala Ala Val Arg Arg Trp Arg Asp Phe Arg
50 55 60

<210>	6470
<211>	27
<212>	PRT
<213>	Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 6470

Lys Leu Arg Phe Phe Lys Lys Leu Met Lys Lys Leu Lys His Arg Ala
1 5 10 15

Met Ala Ser Val Leu Leu Ala Gln Leu His Leu
20 25

<210>	6471
<211>	70
<212>	PRT
<213>	Artificial Sequence

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<220>
<223> Computer-generated peptide variant
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<400> 6471

Lys Leu Lys Leu Leu His Lys Leu Tyr Lys Phe Phe Lys Ser Gly Leu
1 5 10 15

Lys Asn Ala Phe Pro Leu Lys Leu Ala Arg His Pro Phe Arg Ser Arg
20 25 30

Leu Lys Leu Tyr Leu Leu Arg Ser Glu Leu Arg Leu Lys Ala Ala Trp
35 40 45

Leu Val Glu Cys Arg Lys Gln Ala Leu Cys Leu Lys Ser Thr Cys Asp
50 55 60

Phe Ile Tyr Ala Asn Cys
65 70

<210> 6472
<211> 54
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 6472

Leu Ile Lys Met Tyr Cys Arg Leu Leu Lys Lys Leu Arg Ser Ala Asp
1 5 10 15

Leu Val Lys Ala Ser Leu Ala Trp Asp Ala Asn Gln Arg Ala Arg Ala
20 25 30

Ala Glu Asp Ala Arg Arg Asp Cys Ala Leu Arg Lys Asn Ala Cys Ile
35 40 45

Val Lys Gly Thr Pro His
50

<210> 6473
<211> 56
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 6473

Tyr Trp Arg Trp Met Lys Arg Met Leu Arg Leu Met His Lys Arg Phe
1 5 10 15

Tyr Cys Leu Asp Glu His Leu Ala Arg Leu Ala Lys Ile Leu Asp Lys
20 25 30

Ile Arg Ala Leu Thr Phe Arg Met Ala Ala Val Ala Gly Leu Ala Asn
35 40 45

Ile Leu Thr Ala Ala Arg Arg Phe
50 55

<210> 6474

<211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6474

Leu Tyr Lys Leu Phe Asn Lys Phe Met Lys Arg Phe Thr Lys Ala Arg
 1 5 10 15

Ala Cys Lys Trp Met Lys Asp Leu Leu Gln Ser Ala Lys Cys Lys Leu
 20 25 30

Leu Gln

<210> 6475
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6475

Phe Leu Arg Leu Ile Lys Arg Phe Leu Lys Leu Tyr Lys Asn Pro Gly
 1 5 10 15

Gln Ala Gln Gly Leu His Lys Ala Ala Trp Leu Lys Val
 20 25

<210> 6476
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6476

Tyr Tyr Arg Leu Phe Thr Lys Trp Leu Lys Arg Phe Lys Asn Gln Lys
 1 5 10 15

Ala Ala Ala Trp Ala Ala Lys Ala Trp Pro Lys Ala Arg Ala Met Arg
 20 25 30

Lys Ala

<210> 6477
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6477

Lys Phe Arg Trp Leu Cys Lys Trp Tyr Lys Arg Leu Lys Arg Arg Ala
 1 5 10 15

Leu Arg Ala Leu Leu Ala Leu Arg Cys Arg Ser Arg Lys Ser Arg Pro
 20 25 30

Ser Leu Gln Leu
 35

<210> 6478
 <211> 71
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6478

Lys Ile Lys Phe Tyr Arg Arg Trp Tyr Arg Lys Leu Arg Gln Gly Leu
 1 5 10 15

Lys Leu Pro Pro Lys Asp Ala Glu Ile Met Ala Ser Ala Val Ala Arg
 20 25 30

Cys Tyr Gln Ala Lys Arg Ala Arg Arg Asn Arg Lys Asn Ala Arg Lys
 35 40 45

Ile Thr Val Gly Gln Lys Ala Pro Leu Val Ser Ala Lys Leu Ala Phe
 50 55 60

Leu Lys Arg Met Ala Ala Arg
 65 70

<210> 6479
 <211> 59
 <212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6479

Trp Phe Lys Met Leu Arg Arg Ile Leu Lys Lys Met Arg Arg Thr Met
1 5 10 15

Ala Lys Ala Arg Ala Arg Ile Asn Tyr Arg Lys Met Arg Leu Thr Arg
20 25 30

Asp Leu Leu Gln Ala Leu Asp Lys Leu Leu Arg Arg Leu Asp Leu Lys
35 40 45

Ala Lys Lys Thr Ile Asp Lys Glu Leu Ala Ser
50 55

<210> 6480

<211> 74

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6480

Leu Phe Lys Leu Phe Arg Arg Trp Leu Lys Lys Ile Arg Lys His Trp
1 5 10 15

Arg His Tyr Gln Gly Ala Thr Ile Leu His Arg Asn Leu Leu Asp Ala
20 25 30

Ala Leu Ala Leu Ala Ala Ala Ala Gln Val Cys Lys Lys Arg Lys Lys
35 40 45

Lys Asn Ala Asn Arg Asp Trp Ile Phe Glu Arg Leu Ser Tyr Lys Val
50 55 60

Arg Asp Arg Met Gln Arg Lys Ala Ser Thr
65 70

<210> 6481

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6481

Lys	Leu	Arg	Met	Leu	Lys	Arg	Leu	Met	Arg	Leu	Leu	His	Lys	Phe	Val
1				5					10					15	

Leu	Thr	Gln	Arg	Leu	Cys
				20	

<210> 6482

<211> 31

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6482

Lys	Leu	Lys	Leu	Ile	Pro	Lys	Tyr	Leu	Lys	Phe	Leu	Pro	Arg	Arg	Tyr
1				5					10					15	

Tyr	Asp	Lys	Trp	Lys	Ala	Leu	Leu	Ala	Arg	Phe	Ala	Ala	Arg	Leu
			20					25					30	

<210> 6483

<211> 55

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6483

Arg	Phe	Arg	Leu	Tyr	Ser	Lys	Ile	Ile	Arg	Arg	Met	Arg	Arg	Arg	Asn
1				5					10					15	

Lys	Ala	Ala	Arg	Gly	His	Ala	Leu	Phe	Ser	Ala	Arg	Lys	Ala	Met	Leu
			20					25					30		

Lys	Lys	Val	Phe	Lys	Tyr	Ser	Gly	Thr	Ala	Thr	Thr	Gly	Met	His	Leu
		35					40					45			

Arg	Leu	Ala	Leu	Arg	Pro	Ala
	50					55

<210> 6484

<211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6484

Arg Leu Arg Phe Leu Lys Arg Leu Trp Lys Leu Ile Lys Gln Thr Gly
 1 5 10 15

Cys Arg Met Ala Pro Leu Gly Ala Ala Leu Trp Arg Lys
 20 25

<210> 6485
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6485

Phe Ile Arg Phe Phe Lys Lys Met Ile Lys Leu Leu Arg Ser Ala His
 1 5 10 15

Met Arg Ala Val Gln Glu Arg Lys Arg Arg Tyr Ala Ala Arg Leu Cys
 20 25 30

His Leu Leu
 35

<210> 6486
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6486

Leu Leu Lys Ile Ile Arg Lys Leu Leu Lys Phe Leu Lys His Ala Glu
 1 5 10 15

Arg Val Arg Leu Cys Asp Ala
 20

<210> 6487

<211> 54
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6487

Lys Phe Arg Phe Leu Ser Lys Tyr Leu Arg Lys Met His Lys Lys Arg
 1 5 10 15

Asn Thr Arg Tyr Pro Leu Arg Ala Leu Asn Trp Leu Ser Lys Glu Leu
 20 25 30

Ile Ile Ala Leu Asp His Lys Leu Ala Arg Leu Glu Glu Arg Leu Met
 35 40 45

Lys Pro Val Arg Thr Leu
 50

<210> 6488
 <211> 70
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6488

Lys Tyr Arg Met Tyr Lys Lys Leu Tyr Lys Leu Ile Arg Arg Arg Ser
 1 5 10 15

Pro His Asp Lys Lys Asn Val Tyr Met His Glu Tyr Ala Leu Cys Lys
 20 25 30

Arg Ala Ala Asp Leu Met Leu Gly Phe Lys Leu Leu Gly Ala Leu Asp
 35 40 45

Lys Lys Gln Lys Ala Asp Lys Lys Ile Arg Pro Leu Ala Ile Arg Leu
 50 55 60

Lys His Leu Glu Lys Met
 65 70

<210> 6489
 <211> 33
 <212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6489

Leu Tyr Arg Trp Leu Arg Lys Leu Phe Arg Lys Leu Lys Pro Asn Lys
1 5 10 15

Gln Met Thr Leu Tyr Arg Ala Ala Cys Ala Ser Leu His Cys Lys Arg
20 25 30

His

<210> 6490

<211> 54

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6490

Lys Leu Lys Ile Leu Arg Arg Phe Ile Arg Ile Phe Ser Pro Leu Ala
1 5 10 15

Thr Ala Lys Ala His Arg Glu Lys Lys Ile Arg Glu Lys Trp Ala Ser
20 25 30

Arg Leu Leu Leu Lys Arg Pro Asn His Leu Met Arg Thr Leu Gly Asp
35 40 45

Leu Lys Ala Ser Met Thr
50

<210> 6491

<211> 95

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6491

Leu Phe Lys Trp Ile Asn Arg Ile Phe Lys Arg Tyr Lys Gln Lys Phe
1 5 10 15

Gln Ala Arg Lys Asp Ala Arg Arg Leu Ala Ser Trp His Ala Ala Cys
 20 25 30

Leu Arg Arg Arg Phe Lys Tyr Tyr Ile Ile Arg Leu Ala Ile Arg Ser
 35 40 45

Leu Lys Ala Ile Lys Val Lys Leu Arg Leu Phe Ala Asn Arg Gly Val
 50 55 60

Asn Ile Ala Arg Trp Ile Gln Lys Leu Glu Leu Met Val Lys Arg Arg
 65 70 75 80

Ser Leu His Ala Ala Ser Arg Lys Ala Leu His Ala Ala Thr Gly
 85 90 95

<210> 6492
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6492

Arg Phe Arg Phe Leu Asn Lys Phe Leu Arg Phe Leu Lys Arg Lys Tyr
 1 5 10 15

Ala Leu His Leu Gln Phe Ala Ala Arg Ala Trp Arg Gly
 20 25

<210> 6493
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6493

Leu Tyr Arg Met Leu Ser Lys Leu Leu Arg Leu Tyr Arg Ser His Leu
 1 5 10 15

Glu Glu Arg Val Pro Cys His Ala Arg Arg Leu Lys Arg
 20 25

<210> 6494

<211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6494

Phe Leu Arg Leu Phe Arg Arg Met Leu Arg Leu Met Gln Arg Lys Arg
 1 5 10 15

Arg Ser Lys Thr Leu Ile Leu Thr Lys Leu Asp Leu
 20 25

<210> 6495
 <211> 77
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6495

Arg Ile Lys Ile Leu Gln Lys Phe Leu Arg Lys Leu Asn Arg His Asn
 1 5 10 15

Trp Lys Arg Lys Ala Arg Arg His Asp Cys Cys Pro Leu Arg Arg Cys
 20 25 30

Lys Arg Ile Leu His Ala Lys Ala Val Leu Phe Leu Pro Tyr Leu Leu
 35 40 45

Thr Arg Cys Arg Arg Ala Gln Gly Arg Trp Cys Tyr Lys Lys Leu Lys
 50 55 60

Cys Arg Leu Ala Arg Thr Ile Arg Ala Leu Ala Phe Phe
 65 70 75

<210> 6496
 <211> 46
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6496

Leu Leu Lys Leu Phe Arg Lys Tyr Leu Lys Arg Tyr Arg Lys Glu Arg

1 5 10 15

Gly Gln Pro Ala Leu His Trp Leu Leu Arg Asn Ile Leu Glu Thr Leu
 20 25 30

Glu Trp Leu Cys Thr Lys Met Gly Arg Lys Asp Ala Leu Lys
 35 40 45

<210> 6497
 <211> 52
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6497

Arg Trp Lys Leu Trp Ser Arg Leu Leu Arg Leu Met Arg Arg Arg Arg
 1 5 10 15

Asp Lys Ile Ala Arg Tyr His Arg Ala Arg Met Leu Lys Asp Glu Arg
 20 25 30

Arg Thr Pro Ala Ile Thr Thr Ala His Leu Tyr Asp Met Tyr Asp Ala
 35 40 45

Lys Thr Arg Leu
 50

<210> 6498
 <211> 65
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6498

Phe Leu Arg Phe Ile Lys Lys Tyr Trp Arg Lys Leu Asn Lys Ser Met
 1 5 10 15

Glu Cys Leu Ala Lys Leu Arg Ala Met Asp Leu Gly Ala Leu Asn Gly
 20 25 30

Thr Lys Lys Arg Leu Leu Leu Leu Glu Ile Ser Thr Arg Ile Leu Ala
 35 40 45

Leu Lys Thr Gly Met Arg Leu Ala Lys Trp Pro Thr Ala Gly Lys Ala
 50 55 60

Pro
 65

<210> 6499
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6499

Leu Leu Lys Leu Phe Asn Lys Leu Trp Lys Phe Leu His Gln Leu Trp
 1 5 10 15

Ala Arg Lys Ala Arg Arg Ser Arg Met Cys Leu Ala Gln His Phe Arg
 20 25 30

Asn

<210> 6500
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6500

Arg Leu Arg Leu Leu His Arg Trp Phe Arg Ile Phe Lys Cys Ala Asn
 1 5 10 15

Lys Ala Ala Ile Lys Ala Phe Ser Arg
 20 25

<210> 6501
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6501

Lys Leu Arg Phe Ile Asn Arg Phe Leu Arg Met Trp His Arg Ala Leu
 1 5 10 15

Gly Met Leu Lys
 20

<210> 6502
 <211> 27
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6502

Lys Leu Lys Phe Ile Thr Lys Met Trp Arg Phe Leu Lys Lys Lys Ala
 1 5 10 15

Ala Gln Met Arg Ala Ile Leu Gly Arg Glu Leu
 20 25

<210> 6503
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6503

Arg Leu Arg Trp Ile Gln Lys Leu Met Arg Arg Phe Arg Arg Met Ala
 1 5 10 15

Gln Trp Leu Lys Trp Leu Arg Ala Gly Ile Asn Leu Arg Asn Leu Ala
 20 25 30

Ile Thr

<210> 6504
 <211> 39
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6504

Tyr Ile Arg Leu Leu Arg Lys Tyr Phe Arg Lys Phe Arg Thr Asp Asp
 1 5 10 15

Ala Ser Lys Arg Arg Ala Ala Lys Leu Arg Met Asn Ala Pro Leu Lys
 20 25 30

Pro Cys Thr Cys Ala Ala Lys
 35

<210> 6505
 <211> 44
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6505

Lys Phe Arg Leu Ile Lys Lys Trp Ile Arg Leu Leu Thr Lys Val Ala
 1 5 10 15

Arg Leu Arg Asp Leu Lys Phe Lys His Ser His Leu Met Arg Thr Trp
 20 25 30

Leu Gln Leu Ala Ala Arg Leu Phe Arg Lys Gly Lys
 35 40

<210> 6506
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6506

Arg Leu Lys Leu Trp Lys Arg Trp Phe Arg Leu Tyr Lys Arg Lys Leu
 1 5 10 15

Trp Cys Glu Thr Ala Ala
 20

<210> 6507
 <211> 47
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6507

Lys Leu Arg Leu Leu Arg Arg Met Leu Lys Phe Trp Ser Arg Arg Lys
 1 5 10 15

Ala Cys Asn Leu Gly Trp Asp Arg Glu Asp Lys Ala Arg Gly Ala Asn
 20 25 30

Leu Ala Tyr Cys Phe His Leu Arg His Phe Leu Arg Glu Arg Leu
 35 40 45

<210> 6508

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6508

Arg Tyr Arg Trp Phe Lys Arg Ile Ile Arg Leu Leu Lys Lys Ile Gln
 1 5 10 15

His Leu Pro Leu Ala Leu Ala Leu Ala
 20 25

<210> 6509

<211> 56

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6509

Arg Tyr Lys Tyr Tyr Lys Lys Met Phe Arg Lys Leu Lys Lys Arg Lys
 1 5 10 15

Leu Leu Thr Lys Gly Ala Leu Arg Arg Arg Leu Lys Val Ala Asp Ser
 20 25 30

Arg Met Leu Pro Trp His Leu Glu Ala Ser Leu Pro Leu Ile Ile Gly
 35 40 45

Ile Lys Met Lys Asp Pro Ile Ala

50

55

<210> 6510

<211> 60

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6510

Phe Leu Arg Ile Phe Arg Arg Met Leu Arg Trp Tyr Arg Lys Ala Ala
 1 5 10 15

Arg Pro Met Arg Ala Met Arg Pro Met Arg Leu Glu Leu Asp Ser Trp
 20 25 30

Gly Ser Leu Leu Ile Ile Arg His Gln Arg His Val Arg Glu Ala Leu
 35 40 45

Glu Arg Arg Lys Leu Ile Arg Leu Asp Leu Lys Ala
 50 55 60

<210> 6511

<211> 47

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6511

Arg Phe Arg Phe Trp Thr Arg Leu Phe Arg Phe Phe Cys Arg Thr Ala
 1 5 10 15

Tyr Arg Cys Ala Asp Ala Lys Ile Lys Lys Leu Thr Phe Ala Ala Ile
 20 25 30

Leu Arg Phe Pro Cys Leu Ala Tyr Arg Lys Lys Ala Arg Lys Pro
 35 40 45

<210> 6512

<211> 50

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6512

Met	Leu	Lys	Tyr	Trp	Lys	Arg	Leu	Leu	Lys	Leu	Phe	Lys	Pro	Lys	Arg
1				5					10					15	

Ile	Arg	Leu	Met	Trp	Leu	Val	Leu	Arg	Lys	Ala	Asp	Tyr	Asn	Asn	Asp
			20					25					30		

Gln	Leu	Lys	Asn	Lys	Arg	Asn	Arg	Tyr	Leu	Ile	Ala	Tyr	Lys	Asp	Lys
		35					40					45			

Tyr	Ala
	50

<210> 6513

<211> 42

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6513

Tyr	Tyr	Arg	Leu	Leu	Arg	Lys	Leu	Tyr	Arg	Ile	Leu	Arg	Arg	Arg	Lys
1				5					10					15	

Asp	Trp	Trp	His	Arg	Glu	Lys	Leu	Lys	Leu	Leu	Tyr	Ser	Pro	Arg	Asn
			20					25					30		

Leu	Lys	Thr	Phe	Ile	Leu	Thr	Gly	Lys	Ala
		35					40		

<210> 6514

<211> 46

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6514

Lys	Leu	Arg	Met	Leu	Arg	Arg	Phe	Ile	Lys	Arg	Met	Lys	Lys	Ala	Leu
1				5					10					15	

Gln	His	Leu	Lys	Leu	Leu	Lys	Lys	Tyr	Thr	Lys	Leu	Tyr	Cys	Lys	Trp
			20					25					30		

His Asn Met Arg Ala Ala Leu Val Leu Ala Ala Lys Val Ala
35 40 45

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<210> 6515
<211> 21
<212> PRT
<213> Artificial Sequence
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<220>
<223> Computer-generated peptide variant

<400> 6515

Phe Leu Arg Phe Ile Arg Arg Leu Trp Lys Leu Leu Thr Arg Ala Asp
1 5 10 15

Pro Met Ala Arg His
20

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<210> 6516
<211> 43
<212> PRT
<213> Artificial Sequence
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<220>
<223> Computer-generated peptide variant

<400> 6516

Lys Ile Lys Phe Phe Arg Arg Ile Leu Arg Trp Leu Cys Arg Leu Met
1 5 10 15

Val Tyr Lys Cys Ala Asn Ser Ala His Trp Leu Leu Asn Phe Ala Ala
20 25 30

Arg Ala Lys Arg Lys Arg Leu Trp Asn Leu Tyr
35 40

<210>	6517
<211>	56
<212>	PRT
<213>	Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 6517

Arg Leu Lys Ile Leu Ser Lys Leu Leu Lys Lys Tyr Cys Arg Arg Ser
1 5 10 15

Ser Ala Arg Pro Lys Leu Gln Lys Ala Lys Leu Arg Ala His Trp Ala
 20 25 30

Ser Pro Leu Met Gln Gly Arg Gln Met Leu Thr Arg Ile Ala Phe Lys
 35 40 45

Met Leu Asp Ala Arg Ala Lys Lys
 50 55

<210> 6518
 <211> 45
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6518

Arg Leu Lys Leu Ile Arg Arg Leu Phe Arg Lys Phe Lys Lys Phe Arg
 1 5 10 15

Phe Tyr Gly Leu Thr Ala Leu Lys Gln Tyr Ala Asp Arg Leu Asp Arg
 20 25 30

Asn Leu Ala Ile Asn Leu Leu Asn Leu Met Arg His Tyr
 35 40 45

<210> 6519
 <211> 27
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6519

Lys Phe Arg Leu Phe Lys Lys Tyr Leu Arg Leu Leu Lys Arg Trp Gly
 1 5 10 15

Met Leu Leu Gly Thr Ala Lys Phe Ala Gly Thr
 20 25

<210> 6520
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6520

Arg	Leu	Arg	Tyr	Trp	Pro	Lys	Leu	Trp	Lys	Lys	Met	Arg	Arg	Lys	Phe
1				5				10						15	

Phe	Asn	Leu	Leu	Ala	Cys	Ala	Arg	Asn	Ser	Trp	Lys	Leu	Pro
		20					25					30	

<210> 6521

<211> 65

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6521

Trp	Phe	Lys	Phe	Trp	Asn	Lys	Phe	Trp	Lys	Lys	Leu	Thr	Cys	Arg	Leu
1				5				10						15	

Asn	Cys	Ala	Val	Lys	Phe	Leu	Ala	Val	Cys	Arg	Asn	Ala	Lys	Arg	Ala
			20				25						30		

Lys	Lys	Leu	Phe	Leu	Arg	Leu	Lys	Ala	Ser	Lys	Lys	Asp	Ala	Arg	His
		35					40					45			

Glu	Asn	Ala	Trp	Arg	Leu	Ala	Met	Arg	Leu	Asp	Ala	Asp	Val	His	Arg
	50					55					60				

Leu
65

<210> 6522

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6522

Leu	Phe	Lys	Leu	Trp	Cys	Arg	Leu	Ile	Lys	Lys	Trp	Lys	Asn	Asn	Ser
1				5					10					15	

Arg	Arg	Asp	Gln	His	Leu	Lys	Cys	Ala	Cys	Ala	Ala	Arg
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

20

25

<210> 6523
 <211> 41
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6523

Arg Trp Arg Phe Tyr Gln Lys Leu Ile Lys Arg Trp Arg His Ala Pro
 1 5 10 15

Pro Cys Leu Lys Leu Ser Leu Phe Phe Leu Ala Ala Leu Leu Trp Lys
 20 25 30

Ala Ser Leu Leu Arg Gly Lys Gln Ser
 35 40

<210> 6524
 <211> 58
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6524

Phe Ile Lys Tyr Leu Thr Arg Leu Met Arg Arg Leu Pro Arg Leu Asn
 1 5 10 15

Leu Cys Leu Leu Met Arg Ala Trp Pro Arg Leu Met Glu Lys Leu Trp
 20 25 30

Leu His Asp Glu Trp Val Arg Lys Arg Pro Ala Phe Leu Lys Trp Leu
 35 40 45

Leu Leu Met Lys Ile Gln Pro Lys Lys Leu
 50 55

<210> 6525
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6525

Arg Ile Lys Ile Leu Lys Arg Leu Ile Arg Lys Leu Thr Arg Cys Ala
1 5 10 15

Leu Leu Thr Arg Leu Tyr Trp Leu Arg Gly Ala Gly Arg Gln
20 25 30

<210> 6526

<211> 44

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6526

Arg Met Arg Leu Phe Arg Arg Phe Leu Lys Arg Ile Arg Lys Leu Asp
1 5 10 15

Lys Ala His Leu Ala Val Arg Pro Leu Ala Thr Ala Asp Ala Arg Arg
20 25 30

Leu Lys Lys Ala Lys Lys Arg Gly Val Leu Gln Trp
35 40

<210> 6527

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6527

Phe Leu Arg Ile Leu Lys Arg Leu Trp Arg Met Trp Arg Cys Gln Leu
1 5 10 15

Ala Ala Asp Val
20

<210> 6528

<211> 45

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6528

Lys Leu Lys Leu Trp Arg Lys Trp Phe Arg Leu Leu Ser Arg Arg Arg
 1 5 10 15

Leu Thr Arg Pro Leu Thr Ser Ala Leu Thr Arg Ala Cys Tyr Glu Ser
 20 25 30

Arg Arg Lys Thr Gly Tyr Cys Ala Glu Arg Gln Leu Thr
 35 40 45

<210> 6529

<211> 58

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6529

Ile Trp Lys Tyr Tyr Arg Arg Leu Trp Lys Arg Ile Lys Lys Ala His
 1 5 10 15

Ala Leu Asn Lys Arg Ala Cys Ser Leu Ala Glu Ala Arg Lys Arg Leu
 20 25 30

Ala Cys Ser Glu Glu Ala Gly Lys Phe Ser His Leu Cys Arg Lys Arg
 35 40 45

Ala Lys Pro Arg Ala Cys Trp Glu Tyr Arg
 50 55

<210> 6530

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6530

Leu Leu Arg Ile Trp Arg Lys Leu Phe Arg Tyr Met Lys Asn Lys Leu
 1 5 10 15

Ala Pro Ser Leu Ala Ala Lys Leu
 20

<210> 6531
 <211> 27
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6531

Lys Leu Lys Leu Leu Lys Lys Leu Trp Lys Lys Met His Ser Ala Arg
 1 5 10 15

Glu Asn Met Ile Arg Leu Leu Ala Gln Pro Ser
 20 25

<210> 6532
 <211> 48
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6532

Arg Phe Lys Tyr Trp Arg Lys Leu Leu Arg Met Phe Ser Lys Cys Ser
 1 5 10 15

Ala Tyr Ala Ala Cys Ala Thr Ala Arg Tyr Leu Arg Ser Lys Phe Ala
 20 25 30

Leu Leu Ala Leu Glu Leu Phe Asn His Met Ala Arg Phe Arg Lys Trp
 35 40 45

<210> 6533
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6533

Phe Leu Arg Phe Leu Arg Lys Leu Leu Arg Arg Tyr Pro Cys Ala Ala
 1 5 10 15

Arg Ile Arg Ala Ser His Leu Tyr Ala Asn Cys Arg Lys Pro Lys Ser
 20 25 30

<210> 6534
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6534

Lys Met Arg Leu Phe Lys Lys Phe Phe Lys Arg Met Lys Pro Val Arg
 1 5 10 15

Tyr Leu Leu Ala Trp Val Leu His Ala
 20 25

<210> 6535
 <211> 63
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6535

Met Trp Arg Leu Leu Lys Arg Leu Tyr Lys Ile Trp Arg Arg Lys Ile
 1 5 10 15

Lys Leu Asp Leu Leu Lys Cys Gly Lys Leu Glu Cys Ala Gly Arg Tyr
 20 25 30

Leu Met Met Lys Ser Ala Ala Lys Gln Gly Phe Lys Ser Asn Ala Lys
 35 40 45

Lys Lys Phe Leu Arg Ser Ala Leu Thr Pro Ser Phe Leu Pro Lys
 50 55 60

<210> 6536
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6536

Phe Leu Arg Leu Phe Asn Arg Leu Met Arg Arg Tyr Lys Gln Ala Ala
 1 5 10 15

Asp Arg Arg Ser Glu Ile Arg Ile Leu
 20 25

<210> 6537
 <211> 58
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6537

Ile Met Lys Tyr Leu Lys Arg Tyr Tyr Arg Arg Phe Ser Arg Ser Trp
 1 5 10 15

Gly Asn Lys Lys Leu Cys Ala Arg Ser Ala Ala Leu Leu Val Gln Leu
 20 25 30

Lys Tyr Cys Val Leu Met Lys Ala Arg Gly Leu Leu Leu Arg Gly Lys
 35 40 45

Lys Ser Ala Arg Ala Lys Lys Arg Ala Asn
 50 55

<210> 6538
 <211> 50
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6538

Lys Tyr Lys Ile Met Lys Lys Phe Ile Arg Lys Tyr Lys Lys Phe Trp
 1 5 10 15

Glu Lys Leu Ala Arg Ala Ala Gln Arg Lys Ala Leu Leu Ile Arg Lys
 20 25 30

Lys Leu Val Ala Leu Ala Ala Ser Ser Cys His Ala His Phe Leu Glu
 35 40 45

Phe Val
 50

<210> 6539

<211> 37
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6539

Arg Leu Lys Trp Trp Gln Arg Ile Tyr Arg Leu Tyr Arg Arg Ala Leu
 1 5 10 15

Asp Tyr Leu Cys Asn Ala Trp Lys Arg Arg Gly Phe Arg Met Asn Val
 20 25 30

Ala Ala Leu Lys Lys
 35

<210> 6540
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6540

Arg Phe Arg Phe Phe Gln Arg Trp Tyr Arg Lys Phe Arg Arg Pro Thr
 1 5 10 15

Arg Leu Phe Lys Ala Asp Asp Ala Tyr Ala Leu Leu Leu Leu Ala Ala
 20 25 30

Trp Met Tyr Arg
 35

<210> 6541
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6541

Lys Met Arg Leu Leu Cys Arg Leu Met Lys Lys Leu His His Ile Arg
 1 5 10 15

Leu Met Lys Lys Leu Gly Asp Phe Arg Lys Leu Leu Asp Trp Gly Ala

20

25

30

<210> 6542

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6542

Leu Leu Arg Ile Leu Arg Lys Leu Phe Lys Lys Ile Arg Arg Leu Ala
 1 5 10 15

Ala Lys Val Cys Ala Cys Cys Lys Val Thr Ala His
 20 25

<210> 6543

<211> 79

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6543

Arg Leu Arg Met Tyr Lys Arg Phe Phe Arg Lys Phe Arg Asn Glu Asn
 1 5 10 15

His Phe Lys Arg Thr Pro Asn Asp Glu Arg Gly Val Arg Pro Leu Leu
 20 25 30

Ala Arg Arg Gln His Arg Glu Ala Cys Leu Lys Ala Cys Gly Ala Lys
 35 40 45

Leu Asp Lys Ala Val Ala Leu Thr Ala Ala Arg Leu Arg His Ser Ala
 50 55 60

Lys Asn Ala Ser Ile Ala Thr Ala Cys Ala Arg Ala Lys Leu Val
 65 70 75

<210> 6544

<211> 63

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6544

Arg	Ile	Lys	Ile	Leu	Asn	Lys	Trp	Leu	Arg	Lys	Phe	His	Arg	Val	Phe
1				5				10						15	

Trp	Leu	Ala	Lys	Pro	Arg	Val	Arg	Lys	Ala	Pro	Lys	Lys	Cys	Arg	Trp
			20					25					30		

Gly	Leu	Lys	Leu	Arg	Gly	Gly	Ala	Trp	Arg	Lys	Asp	Leu	Val	Arg	Ala
		35					40					45			

Gln	Leu	Leu	Lys	Ala	Val	Leu	Phe	Asp	Ala	Ala	Val	Trp	Tyr	Met
	50					55						60		

<210> 6545

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6545

Lys	Leu	Lys	Phe	Phe	Arg	Arg	Phe	Leu	Lys	Arg	Leu	Gln	Lys	Pro	Trp
1				5				10						15	

Cys	Met	Leu	Leu	Ala	Lys	Leu	Met	Ser	Lys	Gln	Leu	His
			20					25				

<210> 6546

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6546

Lys	Leu	Lys	Leu	Trp	Cys	Lys	Ile	Ile	Lys	Phe	Leu	Arg	Lys	Ala	Ile
1				5					10					15	

Arg	Met	Arg	Cys	Lys	Arg	Leu	Lys	Gln	Ile	Val	Ala	Tyr	Ser	Ala	Ala
			20					25					30		

Ser	Glu	Ala
		35

<210> 6547
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6547

Ile Leu Arg Ile Leu Arg Lys Phe Ile Lys Lys Ile Arg Pro Leu Arg
 1 5 10 15

Phe Trp Ala Arg Ala Phe Leu His Ala Leu Gln Lys Tyr His Leu Lys
 20 25 30

Lys Lys

<210> 6548
 <211> 48
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6548

Arg Phe Arg Leu Met Arg Arg Met Leu Lys Arg Leu Arg Arg Gln Leu
 1 5 10 15

Leu Ala Leu Val Thr Met Phe Leu His Ala Ile Ala Trp Lys Arg Glu
 20 25 30

Lys Arg Trp Val Gly Gln Ile Ala Leu Ala Tyr Ala Arg Cys Asp Gln
 35 40 45

<210> 6549
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6549

Leu Leu Arg Tyr Leu Pro Lys Leu Leu Arg Arg Tyr Thr Lys Trp Thr
 1 5 10 15

Ser Ala Ala Arg Val Ala Lys Arg Val
 20 25

<210> 6550
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6550

Leu Met Lys Leu Tyr Ser Arg Tyr Leu Arg Ile Phe Gln Lys Asp Lys
 1 5 10 15

Trp Arg Val Lys Asp Ala Leu Arg Leu Ala Lys Tyr Pro Leu Ala Cys
 20 25 30

Ala

<210> 6551
 <211> 62
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6551

Lys Phe Lys Met Leu Arg Lys Phe Phe Arg Leu Leu Arg Lys Asn Thr
 1 5 10 15

Pro Ser Ala His Lys Gly Lys Met Gln Leu Arg Ala Ala Gly Asn Arg
 20 25 30

Arg Leu Phe Lys Arg Thr Met Leu Leu Lys Leu Pro Lys Leu Lys Ile
 35 40 45

Gln Glu Phe Leu Leu Ala Ser Lys Met Lys Val Gly Lys Lys
 50 55 60

<210> 6552
 <211> 60
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6552

Leu	Phe	Lys	Ile	Leu	Cys	Lys	Leu	Phe	Lys	Trp	Tyr	Arg	Asn	Lys	Ala
1				5					10					15	

Lys	Ser	Ala	Arg	His	Arg	Ala	Asp	Lys	Phe	Gly	Lys	Val	Arg	Lys	Arg
			20					25					30		

Ala	Arg	Pro	Arg	Ile	Lys	Arg	Leu	Glu	Ile	Glu	Gln	Ala	Ala	Ser	Asp
		35					40					45			

Arg	Leu	Glu	Ala	Met	Ser	Trp	Leu	Leu	Leu	Tyr	Arg
	50					55					60

<210> 6553

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6553

Ile	Met	Arg	Leu	Met	Arg	Lys	Phe	Ile	Lys	Leu	Leu	Arg	Asn	Leu	Ala
1				5					10					15	

Thr	Arg	Lys	Cys
			20

<210> 6554

<211> 37

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6554

Arg	Trp	Lys	Met	Trp	Arg	Arg	Leu	Leu	Lys	Lys	Phe	Lys	His	Tyr	Arg
1				5					10					15	

Tyr	Ala	Lys	Leu	Ser	Pro	Ser	Phe	Ala	Ile	Trp	Arg	Met	Thr	Leu	His
			20					25					30		

Lys	Leu	Leu	Leu	Arg
-----	-----	-----	-----	-----

35

<210> 6555
 <211> 26
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6555

Leu Leu Arg Ile Phe Arg Arg Ile Leu Arg Met Leu Asn Arg Pro Lys
 1 5 10 15

Glu Phe Leu Lys His Leu Leu Lys Cys Val
 20 25

<210> 6556
 <211> 52
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6556

Leu Leu Arg Trp Met Gln Arg Tyr Phe Arg Phe Leu Pro Lys Leu Ala
 1 5 10 15

Leu Phe Lys Gly Pro Pro Lys Lys Leu Lys Asp Asn His Arg Asn Ala
 20 25 30

Ala Tyr Cys Arg Arg Val Arg Ala Lys Lys Arg Ala Ile Ser Ile Leu
 35 40 45

Arg Leu Ala Tyr
 50

<210> 6557
 <211> 38
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6557

Leu Leu Lys Met Phe Gln Arg Leu Leu Lys Phe Ile Cys Gln Leu Lys

1 5 10 15

Ala Arg Lys Ala Cys Ala Arg Arg Arg Glu Arg Ala Asn Tyr Ala Lys
20 25 30

Lys Leu Cys Glu Tyr Leu
35

<210> 6558
<211> 29
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 6558

Arg Met Arg Ile Leu Thr Arg Phe Leu Lys Tyr Leu Arg Lys Lys Ala
1 5 10 15

Arg Ala Tyr Met Leu Cys Asn His Leu Ala Ala Arg Ala
20 25

<210> 6559
<211> 25
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 6559

Leu Leu Arg Leu Phe His Lys Tyr Phe Lys Lys Phe Cys Arg Asn Gln
1 5 10 15

Trp Lys Glu Leu Ala Lys Ala Lys Phe
20 25

<210> 6560
<211> 44
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 6560

Arg Ile Lys Phe Phe Gln Lys Ile Leu Lys Leu Phe Thr Arg Ala His

<210>	6561
<211>	47
<212>	PRT
<213>	Artificial Sequence

<400> 6561

Ser Lys Ala Ala Cys Asn Ala Leu Lys Lys Thr Asp Lys His Val Thr
20 25 30

<210>	6562
<211>	32
<212>	PRT
<213>	Artificial Sequence

<400> 6562

Cys Lys Met Met Leu Asp Ile Arg Lys Asn Leu Gly Lys Ser Ala His
20 25 30

<210>	6563
<211>	36
<212>	PRT
<213>	Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 6563

Lys Leu Arg Tyr Leu Ser Arg Tyr Leu Lys Met Leu Lys Lys Arg Leu
 1 5 10 15

Ala Glu Cys Ile Glu Lys Leu Ile Arg Val Lys Leu Leu Pro Cys Ala
 20 25 30

Leu Lys Phe Asp
 35

<210> 6564

<211> 39

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6564

Trp Phe Arg Trp Ile Lys Lys Leu Met Lys Ile Trp Asn Ser Ala Arg
 1 5 10 15

Lys Ile Arg Leu Gly Arg His Trp Ala Leu Ala Leu Lys Leu Ala Pro
 20 25 30

Leu Ala Arg Lys Asn Arg Ala
 35

<210> 6565

<211> 38

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6565

Phe Leu Arg Met Leu Arg Lys Ile Leu Arg Phe Ile Thr Thr Ala Leu
 1 5 10 15

Gly Ser Leu Ile Arg Gln Gly Asn Leu Lys Arg Leu Ala Lys Ala Leu
 20 25 30

Lys Asn Asp Lys Gln Lys
 35

<210> 6566
 <211> 27
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6566

Arg Tyr Arg Tyr Leu Lys Arg Leu Leu Arg Arg Phe Cys Lys His Trp
 1 5 10 15

Ile Glu Lys Arg Asn Leu Leu Gln Leu Ala Phe
 20 25

<210> 6567
 <211> 43
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6567

Lys Met Lys Leu Phe Arg Arg Leu Tyr Arg Arg Ile Pro Arg Pro Ser
 1 5 10 15

Arg Pro Ala Leu Arg Tyr Lys His Ser Lys Leu Val Lys Met Ala Asn
 20 25 30

Lys Ala Phe Asn Ala Asp Val Ala Ala Leu Phe
 35 40

<210> 6568
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6568

Leu Leu Lys Leu Leu His Lys Tyr Met Lys Met Met Arg Arg Asp Ala
 1 5 10 15

Val Arg His Leu Lys Lys His Asp Pro Cys Gly Ala Lys
 20 25

<210> 6569
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6569

Leu Met Lys Trp Leu His Arg Phe Ile Arg Lys Leu Ser Arg Ala Lys
 1 5 10 15

Arg Ala Tyr Ala Glu Val Leu Ser Trp Gly Ala Lys Thr Lys Ala Tyr
 20 25 30

Ala Gln

<210> 6570
 <211> 88
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6570

Leu Phe Lys Trp Leu Arg Lys Leu Ile Arg Tyr Ile Lys Arg Leu Lys
 1 5 10 15

Tyr Tyr Thr Lys Gln Arg Leu Gln Arg Val Met Met Gln Trp Phe Phe
 20 25 30

Met Glu Lys Gln Tyr Val Ala Arg Asn Lys Ser Leu Leu Leu Ala Lys
 35 40 45

Tyr Ala Cys Glu His Lys Leu Arg Arg Lys Gly Ala Arg Glu Leu Arg
 50 55 60

Ser Ala Ala Met Asn Gln Arg Leu Ala His Glu Arg Ala Cys Gln Gln
 65 70 75 80

Lys Ala Lys Lys Lys Arg Leu Ala
 85

<210> 6571

<211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6571

Trp Leu Lys Met Met Lys Lys Leu Leu Arg Lys Leu Pro Arg Leu Pro
 1 5 10 15

Leu Gln Ala Thr
 20

<210> 6572
 <211> 61
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6572

Trp Leu Arg Met Leu Arg Lys Leu Leu Arg Arg Ile Arg Lys Lys Asp
 1 5 10 15

Gly Leu Tyr Ser Lys Ile Lys Leu Lys Trp Ala Arg Ile Ala Phe Gly
 20 25 30

Ala Gly Gly Tyr Ser Ala Trp Ser Asn Val Arg Val Cys Lys Arg Gly
 35 40 45

Lys Ala Arg Ala Ala Gln Arg Phe Leu Lys Gln Glu Lys
 50 55 60

<210> 6573
 <211> 92
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6573

Lys Tyr Lys Phe Trp Arg Arg Leu Phe Lys Lys Ile Lys Lys Lys Trp
 1 5 10 15

Leu Leu Asp Arg Gly Arg Asn Asn Asn Arg Ala Lys Ile Lys Glu Thr

				20					25					30			
Ala	Lys	Leu	Arg	Lys	Asn	Pro	Asp	Leu	Leu	Gly	Met	His	Ala	Ala	Trp		
		35					40					45					
Ala	His	Ala	Lys	Arg	Asn	Val	Ala	Met	Leu	Thr	Tyr	Leu	Ala	Lys	Tyr		
	50					55					60						
Leu	Gly	Ala	Asn	Lys	Lys	Asp	Leu	Arg	Ser	Leu	Pro	Thr	Leu	Gln	Arg		
65					70					75					80		
Lys	Asp	Lys	Ile	Lys	Arg	Trp	Val	Lys	Lys	Thr	Pro						
				85					90								

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<210> 6574
<211> 29
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 6574
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Leu Leu Lys Phe Phe Arg Lys Phe Leu Arg Arg Trp Gln Thr Phe Lys
1 5 10 15

Arg Leu Ala Lys Ala Ala Phe Ala Asp Leu Glu Leu Met
20 25

<210>	6575
<211>	51
<212>	PRT
<213>	Artificial Sequence
<220>	
<223>	Computer-generated peptide variant
<400>	6575

Trp	Leu	Arg	Tyr	Trp	Arg	Arg	Ile	Leu	Arg	Lys	Phe	Lys	Lys	Pro	Asp	
1				5					10					15		
	Leu	Ala	Leu	Ala	Phe	Lys	Ala	Ala	Phe	Trp	Gly	Ala	Lys	Ile	Leu	Gly
			20					25						30		
Met	Leu	Arg	Ala	Leu	Ile	Lys	His	Thr	Tyr	Leu	Lys	Gly	Asn	Leu	Lys	
		35					40					45				

Arg Asn Ile
50

<210> 6576
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 6576

Phe Leu Lys Phe Tyr Lys Arg Met Phe Lys Arg Trp Arg Ser Ala Ala
1 5 10 15

Leu Cys Leu Lys Leu Lys Arg Val Gly Ala Leu Arg
20 25

<210> 6577
<211> 38
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 6577

Lys Leu Arg Leu Trp Thr Arg Ile Trp Arg Arg Leu Gln Lys Glu Leu
1 5 10 15

His Leu Trp Leu Val Lys Lys Lys Pro Leu Arg Ala Arg Met Trp Gly
20 25 30

Leu Ala Cys Lys Met Met
35

<210> 6578
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 6578

Leu Leu Lys Leu Ile Lys Arg Trp Phe Arg Leu Leu Ser Lys Trp Cys
1 5 10 15

Lys Gly His Leu Arg Lys Met
20

<210> 6579
<211> 83
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 6579

Lys Leu Lys Met Leu Lys Lys Tyr Leu Lys Trp Leu Lys Thr Phe Lys
1 5 10 15

Leu Lys Val Cys Glu Ala Arg Gln Ser Arg Lys Trp Gly Arg Leu Val
20 25 30

Leu Met Leu Arg Ala Arg Leu Leu Leu Arg Tyr Gln His His Ser Thr
35 40 45

Asp Val Leu Gly Ser Lys Leu Lys Phe Val Leu Lys Pro Arg Ile Lys
50 55 60

Leu Lys Ala Lys Leu Trp Leu Trp Glu Arg His Glu Leu Phe His Gly
65 70 75 80

Arg Thr Arg

<210> 6580
<211> 36
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 6580

Lys Leu Arg Leu Leu Thr Arg Trp Leu Arg Lys Phe Lys Ser Gly Val
1 5 10 15

Leu Leu Met Arg Met Gly Lys Gly Ala Lys Ile Thr Leu Ala Ala Leu
20 25 30

Leu His Lys Lys

35

<210> 6581
 <211> 56
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6581

Lys Leu Arg Met Leu Lys Arg Met Ile Lys Lys Tyr Pro Gln Tyr Met
 1 5 10 15

Thr Ala Glu Lys Arg Leu Leu Ala Ile Ala Lys Ala Leu Leu Arg Lys
 20 25 30

Lys Lys Ala Gly Leu Val Lys Ala Leu Cys Tyr Tyr Lys Val Tyr Arg
 35 40 45

Ser His Phe Ile Ile Ser Val Lys
 50 55

<210> 6582
 <211> 48
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6582

Phe Leu Lys Met Leu Lys Arg Leu Trp Lys Leu Leu Asn Lys Arg Ala
 1 5 10 15

Leu Ile Ala Asp Lys Tyr Ala Ala Ala Ala Ser Lys Tyr Cys Lys Lys
 20 25 30

Met Thr Arg Gly Ala Cys His Ser Ile Leu Gln Ile Lys Leu Lys Gln
 35 40 45

<210> 6583
 <211> 62
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6583

Leu Leu Arg Phe Met Arg Lys Leu Ile Arg Leu Ile Lys Arg Ala Lys
 1 5 10 15

Gly Thr Lys Arg Ala Lys Lys Trp Glu Leu Arg Gly Ala Tyr Lys Arg
 20 25 30

Arg Leu Lys Ile Arg Ser Ala Ala Lys Gln His His Tyr Ala Phe Ala
 35 40 45

Leu Leu Met Cys Cys Leu Leu Leu Arg Ala Cys Lys Asp Asp
 50 55 60

<210> 6584

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6584

Leu Leu Arg Leu Met Arg Lys Leu Leu Arg Lys Met Lys Arg Ala Trp
 1 5 10 15

Asp His Ser Glu Arg Pro Arg Ala Leu Leu Pro Ala Arg Pro Cys Gly
 20 25 30

His Ser

<210> 6585

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6585

Lys Phe Arg Ile Phe Lys Lys Leu Leu Lys Lys Leu Asn Cys Trp Phe
 1 5 10 15

Gln Lys Ala Ala
 20

<210> 6586
 <211> 81
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6586

Arg Leu Arg Trp Leu Lys Arg Ile Tyr Arg Lys Tyr Lys Asn Tyr Ala
 1 5 10 15

Asn Arg Gly Ile Leu Lys Pro Leu Thr Lys Leu Arg Cys Arg Thr Arg
 20 25 30

Arg Glu Pro Arg Asp Leu His Leu Glu Leu Gln Tyr Lys Leu Leu Ala
 35 40 45

Lys Leu Pro Ala Ser Tyr Trp Thr Leu Ala Ala Glu Met Lys Leu His
 50 55 60

Val Lys Leu Val Met Gln Tyr Gly Ala Leu Phe Ala Lys Ala Leu Lys
 65 70 75 80

Asn

<210> 6587
 <211> 77
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6587

Phe Phe Arg Leu Met Lys Lys Leu Met Lys Tyr Met Lys Lys Leu Leu
 1 5 10 15

Tyr His Ala Lys Leu Glu Lys Cys Leu His Ala Leu Glu Lys Leu Lys
 20 25 30

Met Leu Ala Gly Lys Ala Arg Ala Gln Lys Lys Thr Ala Val Ile Lys
 35 40 45

Trp Leu Asp Arg Tyr Ser Cys Thr Leu Arg Arg Arg Val Gly Leu Ala

50

55

60

Ala Val Ala Lys His His Pro Asn Lys Asn Leu Arg Gln
 65 70 75

<210> 6588

<211> 71

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6588

Lys Ile Lys Met Leu Thr Lys Phe Met Lys Tyr Ile Lys Pro Arg Lys
 1 5 10 15

Lys Arg Leu Ile Arg Ala Lys Cys Gly Ala Asn Lys Tyr Arg Cys Ala
 20 25 30

Ala Lys Asn Leu Leu Arg Trp Ala Cys Ala Arg Lys Gln Ala Asp Asn
 35 40 45

Leu Ser Leu Leu Lys Lys Trp Ala Lys Leu Lys His Ala Trp Ala Ser
 50 55 60

Gln Ala Ala Ala Cys Arg Gln
 65 70

<210> 6589

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6589

Arg Leu Lys Ile Leu Arg Arg Met Phe Arg Arg Phe Cys Cys Arg Ala
 1 5 10 15

Ser Leu Ser Leu Cys
 20

<210> 6590

<211> 92

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6590

Met Trp Lys Leu Leu His Lys Phe Leu Arg Phe Ile Pro Arg Arg Lys
1 5 10 15

Arg Ala Asn Gln Arg Ala Gly Leu Thr Arg Leu Ala Lys Lys Ala Ala
20 25 30

Ala Lys Ala Leu Lys Gln Leu Met Tyr Arg Ala Met Asn Leu Met Thr
35 40 45

Met Asp Ala Leu Arg Leu Leu Arg Ile Thr Lys Val Gln Leu Met Arg
50 55 60

Ile Lys Pro Pro Ala Pro Lys Trp Lys Cys Ala Asp His Cys Trp Lys
65 70 75 80

Asn Leu Thr Ala Lys Ala Ile Ala Leu Leu Leu Leu
85 90

<210> 6591

<211> 81

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6591

Lys Met Lys Phe Leu Ser Arg Tyr Met Arg Arg Phe Ser Lys Glu Asp
1 5 10 15

Thr Leu Pro Ile Lys Tyr Arg Lys Arg Met Thr Lys Gln Ile Ala Pro
20 25 30

Leu Asp Arg Arg Thr Trp Ala Leu Arg Lys Ala Lys Lys Arg Ala Lys
35 40 45

Leu Lys Ser Trp Leu Leu Cys Glu Val Trp Ala Arg Leu Leu Ala Ala
50 55 60

Lys Lys Leu Thr Pro Lys Ala Pro Asn Gly Trp Leu Pro Leu Met Lys

<400> 6594

Tyr Leu Arg Leu Tyr Arg Arg Leu Trp Lys Tyr Leu Lys Lys Ala Ser
1 5 10 15

Met Ala Val Ala Asn Lys Lys Arg Ala Lys Tyr Met Cys Arg Tyr Thr
20 25 30

Met Leu Val Glu Arg Ala Cys Ile
35 40

<210> 6595

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6595

Met Trp Lys Trp Trp Asn Arg Leu Leu Lys Arg Leu Asn Arg Arg Leu
1 5 10 15

Tyr Arg Ala Arg Leu Asn Tyr Ala Ile Asp Trp Ala Ile Asp Leu Lys
20 25 30

Leu Cys Leu Leu
35

<210> 6596

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6596

Leu Leu Arg Leu Phe Lys Arg Phe Tyr Arg Tyr Leu Arg Arg Ala Leu
1 5 10 15

Lys Leu Met Lys Leu Asp Ala
20

<210> 6597

<211> 66

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6597

Leu Leu Arg Phe Leu Ser Lys Leu Leu Lys Arg Met Lys Arg Lys Asn
1 5 10 15

Ile Arg Ala Leu Met Leu Lys Met Ala Leu Glu Phe Ala Ala Leu Lys
20 25 30

Lys Gly Lys Lys His Asn Leu His Asn Leu Ala Gly Ala Lys Gln Ala
35 40 45

Asn Asn Pro Thr Gln Pro Lys Leu Leu Asp Tyr Arg Asp Gln Leu Ala
50 55 60

Thr Val
65

<210> 6598

<211> 42

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6598

Ile Tyr Arg Leu Leu Arg Arg Leu Ile Lys Ile Leu His Asn Arg Leu
1 5 10 15

Phe Lys Val Arg Leu Trp Tyr Lys Leu Leu Lys Trp Val Lys Ala Thr
20 25 30

Lys Ile Arg Val Met Leu Lys Leu Cys Arg
35 40

<210> 6599

<211> 58

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6599

Leu Met Lys Leu Leu Lys Arg Phe Tyr Lys Lys Leu Lys Lys Glu Trp
 1 5 10 15

Ala Leu Lys Arg Pro Leu Asn Gly Tyr Thr Arg Leu Lys Leu Ala Asn
 20 25 30

Pro Gln Arg Lys Ser Cys Arg Val Arg Ala Trp Ala Leu Met Ala Phe
 35 40 45

Leu Lys Val Leu Asp Gln Arg Thr Arg Met
 50 55

<210> 6600
 <211> 43
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6600

Arg Ile Lys Met Leu Lys Arg Met Leu Lys Phe Trp Arg Thr Lys Arg
 1 5 10 15

Leu Ala Lys Ile Lys Ala Asn Leu Met Cys Ala Leu Ala Trp Ile Leu
 20 25 30

Arg Val His Asn Arg Ala Asn Asn Trp Ala Leu
 35 40

<210> 6601
 <211> 59
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6601

Lys Met Lys Met Tyr Arg Lys Ile Tyr Lys Arg Leu Arg Arg Ala Cys
 1 5 10 15

Leu Ser Arg Glu Arg Lys Lys Leu Arg Lys Tyr Asn Ala Asp Met Ala
 20 25 30

Trp Leu Arg Leu His Leu Arg Glu Arg Asn His Arg Lys His Ala Ala

35

40

45

Ala Ala Leu Ala Ala Glu Cys Leu His Leu Trp
 50 55

<210> 6602
 <211> 46
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6602

Trp Phe Lys Leu Met Arg Lys Phe Ile Arg Tyr Leu Gln Arg Arg Arg
 1 5 10 15

Leu Gly Phe Cys His Ala Ala Lys Arg Arg Glu Lys Ala Trp Arg Ala
 20 25 30

Lys Gly Leu Leu Thr Lys Val Met Lys Ala Ala Lys Ala Gln
 35 40 45

<210> 6603
 <211> 38
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6603

Phe Trp Lys Phe Leu Lys Lys Phe Leu Lys Arg Leu Arg His Gly Arg
 1 5 10 15

Leu Cys Asn Lys Thr Ala Ala Leu Phe Lys Ala Leu Lys Trp Gly Lys
 20 25 30

Leu Pro Asp Lys Phe Leu
 35

<210> 6604
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6604

Arg Phe Lys Leu Phe Lys Lys Leu Phe Lys Trp Phe Arg Pro Lys Ala
1 5 10 15

Leu Met Ala Arg Gly Ala Pro Thr Lys Arg Asp Ala Glu Tyr
20 25 30

<210> 6605

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6605

Leu Leu Lys Phe Leu Lys Lys Phe Leu Lys Arg Phe Lys Pro Thr Lys
1 5 10 15

Lys Asn Thr Leu Asp Asn Ala Arg Glu Tyr Ala Leu Tyr
20 25

<210> 6606

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6606

Met Leu Lys Trp Leu Gln Lys Trp Trp Lys Lys Leu His Ser Arg Arg
1 5 10 15

Ile Leu Met Lys Arg Lys Ala Met Leu Ala Arg Cys Asp Val Tyr Ala
20 25 30

Met Lys

<210> 6607

<211> 58

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6607

Trp Tyr Arg Tyr Tyr Lys Arg Met Phe Lys Trp Trp Arg Arg Asp Arg
 1 5 10 15

Trp Phe Ala Leu Arg Trp Leu Gly Gly Asn Ala Arg Ala Leu Arg Ala
 20 25 30

Ala Lys Ile Ser Ala Leu Ala Leu His Gln Ala Gln Trp Leu Phe Leu
 35 40 45

Asn Ala Lys Arg Lys Lys Ser Lys Ala Gly
 50 55

<210> 6608

<211> 57

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6608

Leu Leu Lys Leu Leu Thr Lys Trp Leu Lys Ile Leu Lys Arg Lys Phe
 1 5 10 15

Lys Arg Cys Val Gln Arg Cys Ser Lys His Arg Ala Val Gln Ile Cys
 20 25 30

Ala Arg Leu Val Lys Ala Gln Trp Tyr Pro Arg Lys Leu Lys Lys Ser
 35 40 45

Lys Arg His Ala Ala Ala His Tyr His
 50 55

<210> 6609

<211> 31

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6609

Lys Leu Arg Leu Leu Arg Lys Ile Phe Lys Lys Trp Lys His Lys Ala
 1 5 10 15

Pro Trp Glu Ala Arg Lys Ala Ala Ser Ala Ile His Pro Thr Ser
 20 25 30

<210> 6610
 <211> 45
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6610

Leu Leu Arg Trp Leu Ser Arg Leu Trp Arg Ile Leu Thr Lys Cys Pro
 1 5 10 15

Leu Gln Arg Ala Glu Arg Glu Lys Met Ala Lys Lys Pro Asn Gln Lys
 20 25 30

Cys Arg His Leu Leu Met Cys Lys Ala Cys Lys Pro Ala
 35 40 45

<210> 6611
 <211> 45
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6611

Arg Ile Lys Phe Leu Arg Lys Tyr Tyr Lys Arg Tyr Asn Lys Lys Lys
 1 5 10 15

Leu Gly Asp Thr Ala Lys Phe Asn Ala Asp Leu Lys Arg Phe Asp Gly
 20 25 30

Lys Leu Met Ile Ile Leu Ala Met Ala Leu Gln Leu Leu
 35 40 45

<210> 6612
 <211> 47
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6612

Phe Leu Lys Leu Ile Pro Lys Tyr Met Lys Arg Phe Lys Lys Lys Ala
 1 5 10 15

Leu Ala Leu Arg Asp Ala Gln Met Lys Arg Gly Ala Met Trp Asp Ser
 20 25 30

Arg Ile Lys Thr Arg Thr Val Ala Asp Leu Ala Pro Leu Ile Leu
 35 40 45

<210> 6613

<211> 77

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6613

Lys Trp Lys Leu Leu Pro Arg Trp Tyr Arg Leu Trp Lys Arg Pro Ala
 1 5 10 15

Arg Thr Asp Ala Arg Trp Lys Glu His Thr His Lys Pro Arg Asp Pro
 20 25 30

Val Thr Leu Leu Ala Leu Asp Arg Ala Ala Leu Ile Leu Ile Ala Ser
 35 40 45

Gln Leu Phe Ala Cys Leu Arg Leu Arg Leu Glu Arg Val Leu Leu Lys
 50 55 60

Gln Gln Leu Ala Leu Glu Trp His Arg Ile Arg Lys Lys
 65 70 75

<210> 6614

<211> 80

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6614

Leu Leu Lys Leu Ile Lys Arg Phe Leu Lys Lys Leu Cys Lys Arg Ala
 1 5 10 15

Leu Leu Gly Leu Ser Ala Thr Lys Leu Pro Thr Ala Arg Asp Asp Met

Arg Ile Arg Ile Phe Lys Lys Met Met Arg Lys Phe Arg Cys Leu Met
1 5 10 15

Ala Leu Trp Trp Leu Arg Val Arg Ala Met Thr Ala Cys Lys Lys Tyr
20 25 30

Gly Ala Met Ala Ala Arg Asp Arg Ala Arg Ala Ala Ala Ala Glu Ser
35 40 45

Ala Gly Lys Ala Leu Phe
50

<210>	6616
<211>	49
<212>	PRT
<213>	Artificial Sequence
<220>	
<223>	Computer-generated peptide variant
<400>	6616

Trp Leu Lys Phe Leu Lys Lys Leu Phe Arg Lys Leu Lys Cys Thr Cys
1 5 10 15

Ala Ala Ala Lys Met Tyr Ala Gly Leu Ile Phe Ala Tyr Phe Arg Ala
20 25 30

Arg Arg Arg Leu Glu Arg Trp Thr Asn Lys Leu Ile Leu Leu Val Lys
 35 40 45

Gly

<210> 6617
 <211> 48
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6617

Arg Phe Arg Leu Ile His Lys Trp Phe Lys Ile Leu Arg His Ala Cys
 1 5 10 15

Ala Met Leu Cys Phe Asn Arg Arg Ser Leu Arg Arg Ala Glu Arg Lys
 20 25 30

Ala Ile Lys Leu Val Leu Leu Asn Arg Leu Gly Val Glu Leu Arg Leu
 35 40 45

<210> 6618
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6618

Arg Trp Lys Leu Trp Pro Arg Phe Phe Arg Leu Ile Asn Lys Tyr Leu
 1 5 10 15

Leu Cys Leu Arg Lys
 20

<210> 6619
 <211> 31
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6619

Trp Met Lys Leu Leu Pro Arg Ile Ile Arg Tyr Ile Arg Thr Lys Tyr
 1 5 10 15

Lys Arg His Ile Ala Ala Lys Ala Ala Glu Leu Cys Leu Ala Arg
 20 25 30

<210> 6620
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6620

Leu Leu Lys Leu Ile Thr Arg Tyr Leu Lys Arg Met Ser Gln Leu Ile
 1 5 10 15

Lys Leu Arg Trp Lys Leu
 20

<210> 6621
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6621

Phe Phe Lys Leu Met Arg Arg Phe Tyr Lys Lys Leu Arg Gln Lys Ala
 1 5 10 15

Phe Glu Ala Leu
 20

<210> 6622
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6622

Ile Tyr Lys Phe Leu Arg Lys Tyr Met Arg Lys Leu Lys Arg Arg Leu
 1 5 10 15

Gly Leu Leu Ala Val Leu Met Asn His
 20 25

<210> 6623
 <211> 70
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6623

Arg Leu Lys Phe Phe Arg Arg Trp Leu Lys Leu Phe Lys Gln Ile Ala
 1 5 10 15

Leu Tyr Leu Leu Arg His Tyr Leu Lys Ile Ala Ala Met Arg Arg Ala
 20 25 30

Ala Trp Lys Val Ser Leu Leu Asp Arg Phe Arg Asn Ser Asn Asp Arg
 35 40 45

Gly Arg Met Pro Cys Ala Arg Lys Lys Lys Glu Val Ala Glu Leu Trp
 50 55 60

Leu Lys Leu Ala Arg Arg
 65 70

<210> 6624
 <211> 78
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6624

Lys Met Arg Leu Phe Arg Lys Tyr Met Arg Lys Ile Arg Arg Gln Arg
 1 5 10 15

Leu Ile Glu Gly His Pro Lys Asp Ala Pro Lys Trp Glu Cys Lys Lys
 20 25 30

Gln Arg Ala Cys Ala Ala Ala Asn Ile Val Ala Leu Lys Ala Leu Trp
 35 40 45

Ala Ala Lys Trp Asp Arg Phe Ala Arg Trp Leu Tyr Cys Gln His Lys

50

55

60

Trp Arg His Met Lys Tyr Leu Ala Lys Arg Arg Leu Asn Arg
 65 70 75

<210> 6625

<211> 55

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6625

Leu Phe Arg Leu Ile Pro Arg Trp Tyr Arg Phe Phe Lys Arg Thr Thr
 1 5 10 15

Ala Leu Cys Ala Lys Ala Tyr Gly Leu Lys Arg Glu Lys Leu Leu Phe
 20 25 30

Leu Val Ser Leu Met Asn Lys Arg Trp Ile Leu Lys Lys Ser Arg Ala
 35 40 45

Arg Val Ala His Arg Arg Val
 50 55

<210> 6626

<211> 65

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6626

Arg Phe Lys Tyr Leu Thr Arg Met Tyr Arg Lys Leu Arg Arg Ser Ala
 1 5 10 15

Asp Arg Asn Leu Gly Lys Arg Cys Arg Phe Tyr Arg Ala Ala His Lys
 20 25 30

Arg Leu Leu Lys Ala Arg Ala Arg His Arg Trp His Ile Leu Val Phe
 35 40 45

Val Ala His Ser Trp Asp Ser Lys Arg Trp Leu Leu Trp Ala Leu Leu
 50 55 60

Asn
65

<210> 6627
<211> 56
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 6627

Arg Leu Arg Leu Met Arg Lys Ile Met Lys Trp Leu Arg Lys Arg Lys
1 5 10 15

Gly Ala Lys Lys Leu Leu Leu Leu Ala Ser Gln Arg Leu Cys Trp Trp
20 25 30

Asp Lys Ile Ala Tyr Ala Met Arg Tyr Asn Lys Trp Leu Ala Asn Arg
35 40 45

Lys Lys Gly Ala Lys Ala Tyr Leu
50 55

<210> 6628
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 6628

Ile Tyr Arg Leu Tyr Arg Arg Leu Leu Lys Lys Leu Asn Arg Lys His
1 5 10 15

Lys Gly Lys Lys Thr Leu Leu Ala Asp Ala Ala Glu Leu His Lys Lys
20 25 30

Asn Ser Leu Ala Arg Ala Lys Lys
35 40

<210> 6629
<211> 29
<212> PRT
<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6629

Tyr	Phe	Lys	Trp	Leu	His	Lys	Leu	Leu	Arg	Arg	Trp	Arg	His	Gln	Trp
1				5					10					15	

Arg	Ile	Ala	Asn	Leu	Arg	Lys	Asn	Leu	Arg	Ser	Pro	Ala
			20					25				

<210> 6630

<211> 49

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6630

Arg	Leu	Lys	Phe	Phe	Lys	Arg	Phe	Leu	Arg	Leu	Met	Arg	Lys	Trp	Ala
1				5				10						15	

Lys	Arg	Leu	Arg	Arg	Lys	His	Leu	Cys	Met	Thr	Phe	Pro	Leu	Cys	Leu
			20					25					30		

Asp	Glu	Gln	Leu	Arg	Leu	Lys	Ala	Leu	Ser	Ala	Ser	Phe	Thr	Cys	Leu
		35					40					45			

Phe

<210> 6631

<211> 51

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6631

Lys	Phe	Lys	Leu	Ile	Arg	Lys	Leu	Leu	Arg	Phe	Met	Arg	Lys	Phe	Ala
1				5					10					15	

Gly	Gly	Ala	Ala	Asp	Ala	Asn	Ala	Gln	Ala	Met	Ala	Leu	Val	Pro	Ala
			20					25					30		

Cys	Asn	Ala	Arg	Lys	Cys	Ala	Thr	Lys	Lys	Val	Leu	Cys	Asp	Gly	Asn
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

35

40

45

Arg Arg Lys
50

<210> 6632
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 6632

Ile Phe Lys Phe Phe Arg Arg Met Leu Arg Arg Ile Arg Cys Lys Leu
1 5 10 15

Leu Lys Ala Ala Thr Lys Tyr Gln Leu Trp Lys Leu Cys Lys Ala His
20 25 30

Asn Glu Lys Leu Ala Tyr Asn
35

<210> 6633
<211> 36
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 6633

Lys Tyr Lys Trp Leu Ser Lys Trp Ile Arg Arg Leu Lys Arg Lys Lys
1 5 10 15

Gln Leu Thr Arg Leu Leu Ile Lys Leu Leu Cys Leu Asn Asn Arg Leu
20 25 30

Asp Met Ser Met
35

<210> 6634
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 6634

Lys Ile Arg Leu Leu Pro Lys Leu Tyr Arg Arg Phe Thr Arg Lys Asp
 1 5 10 15

Ala Thr Leu Arg Ala Leu Gly Tyr Ala Leu Phe Met
 20 25

<210> 6635

<211> 44

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6635

Leu Tyr Lys Ile Ile Lys Lys Leu Leu Lys Phe Phe Arg Arg Trp Ser
 1 5 10 15

Arg His Val Lys Leu Glu Ala Pro Ala Leu Ile Ile Asn Ala Arg Trp
 20 25 30

Leu Leu Leu Ala Gly Asp Ser Leu Arg Lys Arg Thr
 35 40

<210> 6636

<211> 55

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6636

Arg Leu Arg Met Trp Lys Arg Leu Trp Lys Leu Met Gln His Ala Ala
 1 5 10 15

Arg Thr Arg Asn Phe Trp Arg Arg Met Ala Thr Ile Ala His Tyr Glu
 20 25 30

Arg Ser Leu Pro Arg Met Ala Ala Ala Leu Arg Ala Arg Ala Tyr Arg
 35 40 45

Arg Glu Pro Gln Arg Arg Gly
 50 55

<210> 6637
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6637

Arg Trp Lys Leu Leu Asn Arg Phe Trp Lys Leu Phe Arg Lys Ala Ala
 1 5 10 15

Leu Ser Met Ser Trp
 20

<210> 6638
 <211> 70
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6638

Trp Tyr Arg Trp Leu Ser Arg Ile Leu Lys Arg Phe Lys Arg Gln Ala
 1 5 10 15

Met Ala Lys Trp Lys Ala Cys Met Leu Leu Lys Thr Phe Cys Ala Leu
 20 25 30

Val Asn Lys Lys Val Ala Leu Cys Cys Phe Leu Ile Val Thr Ala Ser
 35 40 45

Ala Ser Ser Lys Ala Thr Ala Arg Lys Ala Ala Lys Ala Arg Lys Arg
 50 55 60

Arg Leu Arg Lys Lys Cys
 65 70

<210> 6639
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6639

Phe Phe Arg Leu Met Thr Arg Leu Leu Arg Phe Ile Arg Asn Arg Arg
 1 5 10 15

Lys Leu Gly Ala Ala Lys Ala Pro Leu Ser Arg Arg
 20 25

<210> 6640
 <211> 41
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6640

Ile Leu Arg Leu Leu Arg Arg Phe Phe Lys Arg Met Lys Lys Leu Leu
 1 5 10 15

Leu Ala Lys Lys Leu Ser Phe Arg Lys Thr Cys Val Leu Met Pro Ser
 20 25 30

His Leu Lys Tyr Gly Ala Leu Gly Asp
 35 40

<210> 6641
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6641

Lys Phe Lys Phe Leu Arg Lys Met Tyr Arg Leu Met Gln Gln Ala Leu
 1 5 10 15

Ser Ala Arg Ala
 20

<210> 6642
 <211> 62
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6642

Lys Tyr Lys Tyr Trp Cys Arg Met Leu Arg Arg Ile Pro Lys Arg Lys
 1 5 10 15

Leu Ala Arg Gly Arg Ala Gln Gly Leu Leu Lys Leu Met Ala Gln Leu
 20 25 30

Ala Trp Asp Pro Asp Leu Lys Ser Cys Lys Val Tyr Thr Leu Cys Ala
 35 40 45

Met Cys Ala Ala Gln Lys Arg Leu Arg Ile Lys Leu Arg His
 50 55 60

<210> 6643
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6643

Lys Phe Lys Trp Leu His Arg Met Leu Lys Leu Trp Arg Arg Ala Leu
 1 5 10 15

Thr Lys Gln Tyr Ala Ala Trp Arg Thr Ala Phe Lys Ile Asn
 20 25 30

<210> 6644
 <211> 70
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6644

Tyr Phe Lys Met Trp Asn Lys Phe Tyr Lys Lys Met His Thr Arg Trp
 1 5 10 15

Phe Arg Ala Cys Leu Arg Ala Trp Gly Asn Ala Arg Arg Glu Met Tyr
 20 25 30

Lys Thr Lys Leu Cys Lys Lys Leu Arg Gln Ala Trp Ala Pro Asn Leu
 35 40 45

Cys Leu Lys His Leu Ile Lys Asp Arg Leu Arg Lys Val Leu Leu Ala

50

55

60

Thr Ala Lys Lys Lys Leu
65 70

<210> 6645
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 6645

Lys Tyr Lys Leu Met Thr Arg Leu Phe Arg Leu Ile Arg Gln Ala Pro
1 5 10 15

Arg Met Phe Leu Arg Leu Leu Ile Pro Lys Lys Lys Leu Ala Val Leu
20 25 30

Glu Ile Ser
35

<210> 6646
<211> 24
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 6646

Ile Ile Arg Leu Phe Gln Arg Phe Leu Lys Lys Ile Arg Arg Leu Tyr
1 5 10 15

Leu Gln Leu Asn Ala Ala Arg His
20

<210> 6647
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 6647

Lys Met Arg Met Tyr Arg Arg Leu Leu Lys Arg Tyr Arg Thr Leu Cys

1 5 10 15

Gly Ala Lys Ala Cys Thr Leu Asp Leu Met Lys Glu Arg Thr
20 25 30

<210> 6648
<211> 63
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 6648

Leu Met Lys Trp Met Arg Arg Met Phe Lys Lys Tyr Arg Lys Val Lys
1 5 10 15

Ala Arg Leu Arg Ser Thr Lys Cys Leu Thr Asn Lys Lys Ala Ala Ile
20 25 30

Ser Met Ala Leu Lys Cys Ser Glu Tyr Glu Tyr Ala Gly Ala His Lys
35 40 45

Ala Leu Leu His Ala Ala Asn Arg Lys Tyr Gln Ser Arg Ala Ala
50 55 60

<210> 6649
<211> 29
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 6649

Lys Trp Lys Phe Leu Lys Arg Ile Phe Arg Arg Leu Gln Ser Leu Ala
1 5 10 15

Met Cys Ala Phe Leu Ala Lys Ala Arg Ala His Arg Arg
20 25

<210> 6650
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 6650

Leu Ile Arg Leu Trp Arg Arg Trp Leu Arg Met Leu Gln Gln His Lys
1 5 10 15

Ala Pro Leu His Arg
20

<210> 6651

<211> 78

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6651

Arg Tyr Arg Leu Met Arg Arg Phe Leu Arg Met Ile Arg Arg Glu Arg
1 5 10 15

Asn Ala Glu Arg Pro Ala Lys Trp Arg Ala Arg Ala Arg Tyr Tyr Gly
20 25 30

Asn Glu Leu Ile Tyr Tyr Ala Phe Thr Ala Leu Leu Gly Trp Lys Cys
35 40 45

Leu Leu Thr Ala Lys Gln Asn Ala Leu Arg Glu Leu Lys Gln Lys Leu
50 55 60

Arg His Ala Leu Gln Pro Asn Arg Leu Val Lys Ser Leu Gly
65 70 75

<210> 6652

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6652

Arg Tyr Lys Tyr Leu Ser Lys Met Trp Lys Leu Phe Arg His Lys Ser
1 5 10 15

Leu Arg Asn Leu Leu Leu
20

<210> 6653
 <211> 43
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6653

Arg Leu Arg Leu Leu Gln Lys Leu Leu Arg Leu Phe Arg His Thr Cys
 1 5 10 15

His Tyr Arg Trp Leu Ala Arg Phe Leu Val Ala Glu Cys Val Tyr Thr
 20 25 30

Leu Trp Lys Ala Lys His Leu Ile Ala Arg Lys
 35 40

<210> 6654
 <211> 91
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6654

Arg Leu Lys Phe Leu Thr Lys Leu Leu Arg Lys Ile Arg Lys Leu Leu
 1 5 10 15

Trp Leu Arg Trp Ala Met Ala Trp Leu Arg Ser Asn Lys Phe Ile Pro
 20 25 30

Lys Leu Leu Gly Glu Thr Ala Leu Lys Met Ser Arg Arg Ser Pro Lys
 35 40 45

Arg Lys Leu Lys Ala Phe Ala Arg Gln Asp Pro His Lys Ala Ala His
 50 55 60

Val Val Leu Thr Ile Phe Pro Lys Asp Leu Asp Lys Ile Ile Leu Val
 65 70 75 80

Gln Leu Cys Trp Leu Ala Arg Arg Lys Leu Lys
 85 90

<210> 6655

<211> 27
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6655

Arg Phe Arg Leu Leu His Arg Trp Ile Lys Leu Met Lys Lys Asn Ala
 1 5 10 15

Thr Ala Asn Trp Gln Ala Glu Leu Lys Met Ala
 20 25

<210> 6656
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6656

Phe Ile Lys Leu Leu His Lys Leu Phe Arg Lys Ile Arg Ser Leu Glu
 1 5 10 15

Ile Lys Ala Trp Leu Ala Lys
 20

<210> 6657
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6657

Arg Ile Arg Tyr Leu Lys Arg Met Leu Arg Arg Leu Lys Lys Leu Arg
 1 5 10 15

Leu Leu Leu Leu Ala Gly Asn His Val Leu Ile Tyr Gln Leu Arg Thr
 20 25 30

Arg

<210> 6658

<211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6658

Phe Tyr Lys Leu Leu Lys Arg Phe Trp Lys Lys Ile Lys Lys Thr Ala
 1 5 10 15

Met Arg Thr Asp Leu Ser Lys Glu Ala Ala Gly Leu
 20 25

<210> 6659
 <211> 41
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6659

Arg Trp Lys Leu Met Arg Arg Phe Trp Lys Arg Tyr Lys His Leu Ala
 1 5 10 15

Asp Lys Ala Leu Leu Arg Pro Ala Leu Asp Lys Arg Pro Arg Arg His
 20 25 30

Cys Pro Lys His Met Gln Ala Ala Cys
 35 40

<210> 6660
 <211> 60
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6660

Leu Leu Arg Ile Met Asn Arg Leu Phe Arg Met Met Arg Arg Lys Leu
 1 5 10 15

Ile Leu Leu Arg Ala Asn Arg Glu Met Gln Lys Leu Leu Ala Tyr Leu
 20 25 30

Arg Thr Gly Asp Lys Leu Arg Asp Gly Arg Lys Leu Val Ile Thr Trp

35

40

45

Trp Leu Trp Ala Tyr Arg Leu His Lys Glu Arg Tyr
 50 55 60

<210> 6661

<211> 81

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6661

Arg Ile Lys Phe Ile Lys Lys Leu Leu Lys Ile Leu Thr Ser Gln Arg
 1 5 10 15

Met Arg Val Tyr Thr Ile Lys Tyr Ala Leu Arg Leu Val Leu Arg His
 20 25 30

His Arg Leu Leu Tyr Pro Arg Asp Arg Lys Gly Gly Lys Lys Thr Ala
 35 40 45

Ala Leu Lys Ala Asn Asn Leu Ser His Lys Asp Ala Lys Ala Arg Gln
 50 55 60

Arg Ala Lys Leu Leu Ser Val His Lys Leu Asn Thr Glu Arg Leu Phe
 65 70 75 80

Leu

<210> 6662

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6662

Leu Leu Lys Tyr Met Lys Lys Leu Leu Arg Lys Leu Thr Ser Lys Ala
 1 5 10 15

Lys Lys Asn Asp Asn Glu Val Ser Leu Met
 20 25

<210> 6663
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6663

Lys Leu Lys Leu Leu Arg Lys Leu Phe Arg Phe Tyr Lys Pro Asn Gln
 1 5 10 15

Glu Glu Trp Met Cys Trp Ala Lys Asn Ala Ala Arg Cys Asn Ala Leu
 20 25 30

Val Asn Leu Lys Leu Ser Leu Arg
 35 40

<210> 6664
 <211> 59
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6664

Lys Leu Lys Tyr Met Pro Arg Leu Tyr Arg Lys Trp Arg Lys Ser Phe
 1 5 10 15

Ile Leu Ala Asp Tyr Lys Cys Asn Leu Ala Leu Phe Arg Ser Thr Lys
 20 25 30

Tyr Ser Ala Ala Leu Cys Arg Thr Arg Ala Ala Trp Leu Ala Gln Phe
 35 40 45

Leu Cys Arg Phe Trp Lys Lys Leu Leu Leu Ala
 50 55

<210> 6665
 <211> 45
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6665

Arg Leu Arg Leu Leu Thr Arg Leu Trp Arg Arg Leu Pro Arg Leu Leu
 1 5 10 15

Leu Arg Pro Arg Gly Arg Leu Trp Leu Ala Met His Leu Ser Ser Lys
 20 25 30

Thr Arg His Phe Val Leu Arg Leu Lys Met Lys Trp Lys
 35 40 45

<210> 6666

<211> 47

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6666

Lys Phe Arg Leu Phe Cys Lys Leu Leu Arg Leu Phe Asn His Cys Lys
 1 5 10 15

Cys Ile Met Arg Ala Leu Ile Arg His Lys Arg Leu Leu Leu Tyr His
 20 25 30

Leu Phe Ala Arg Cys Ala Tyr Ala Thr Asp Cys Arg Ala Arg Lys
 35 40 45

<210> 6667

<211> 39

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6667

Lys Leu Lys Phe Phe Cys Lys Met Trp Lys Arg Leu Lys Lys Gln Ala
 1 5 10 15

Glu Ala Cys Arg Asn Cys Met Met Asn Arg Lys Arg Ala Ala Arg Asp
 20 25 30

Asp Ala Ser Lys Ala Ala Leu
 35

<210> 6668

<211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6668

Lys Tyr Arg Phe Leu Cys Arg Ile Leu Arg Lys Phe Cys Cys Lys Phe
 1 5 10 15

Trp Leu His Leu Lys Ala Asn Leu Arg Ala Arg Pro Ala Leu Arg Arg
 20 25 30

Leu

<210> 6669
 <211> 55
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6669

Arg Leu Arg Phe Leu Lys Arg Phe Phe Lys Arg Tyr Cys Pro Lys Leu
 1 5 10 15

Cys Lys Lys Trp Asn Ile Pro Pro Ala His Lys Leu Leu Tyr Glu Arg
 20 25 30

Ala Leu Cys Ala Gln Cys Leu Ala Arg Ala Met Arg Leu Glu Asn Lys
 35 40 45

Leu Lys Thr Pro Lys Leu Arg
 50 55

<210> 6670
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6670

Lys Leu Lys Leu Ile Ser Arg Leu Tyr Lys Leu Leu Arg Lys Glu Cys

1 5 10 15

Leu Lys Ser Gln Gly Cys Ala Lys Gln
20 25

<210> 6671
<211> 43
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 6671

Arg Phe Lys Ile Ile Lys Lys Ile Leu Arg Ile Phe Arg Arg Leu Phe
1 5 10 15

Gln Leu Ala Lys Pro Arg Arg Ala Arg His Ala Ala Gly Thr Leu Trp
20 25 30

Leu Ile Ala Arg Ala Tyr Thr Lys Phe Val Met
35 40

<210> 6672
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 6672

Arg Leu Lys Trp Trp Ser Lys Tyr Met Arg Phe Phe Arg Lys Phe Pro
1 5 10 15

Ala Arg Cys Ala Ala Met Arg His Thr Leu Lys Ala Asn Leu Ala Leu
20 25 30

<210> 6673
<211> 33
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 6673

Lys Met Arg Ile Leu Arg Lys Trp Leu Lys Lys Leu Lys Lys Ala Met

1 5 10 15

His Ala Lys Phe Thr Arg Ala Leu Gln Val Tyr Ala Cys Leu Val Ser
 20 25 30

Phe

<210> 6674
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6674

Met Trp Arg Leu Tyr Arg Lys Met Leu Lys Lys Leu Asn Asn Thr Ile
 1 5 10 15

Ala Leu Gln Arg Arg Met Arg Lys Leu Ala Lys Lys Ala Met Gly Pro
 20 25 30

Pro Arg Leu
 35

<210> 6675
 <211> 43
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6675

Leu Leu Arg Phe Leu Cys Lys Leu Phe Lys Arg Trp Cys His Lys Lys
 1 5 10 15

Asp Asp Lys Arg Asn Lys Ala Gln Gly Leu Ala Pro Gly Leu Leu Lys
 20 25 30

Asp Ile Met Pro Ala Ala Arg Arg Thr Thr Leu
 35 40

<210> 6676
 <211> 20
 <212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6676

Lys Tyr Lys Leu Leu Lys Arg Met Tyr Arg Arg Leu His Gln Lys Leu
1 5 10 15

Pro Asn His Ala
20

<210> 6677

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6677

Phe Met Arg Leu Leu Ser Arg Ile Leu Arg Lys Leu Arg Lys Ser Tyr
1 5 10 15

Pro Ser His Met Lys Leu Leu Gln Lys Glu Lys Ala Pro
20 25

<210> 6678

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6678

Arg Leu Arg Phe Met Lys Lys Leu Phe Lys Phe Leu Ser Lys Leu Leu
1 5 10 15

Thr Thr Asn Lys His Thr Ala Arg
20

<210> 6679

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6679

Tyr Leu Lys Phe Phe Arg Arg Phe Leu Arg Leu Tyr Arg Gln His Asp
 1 5 10 15

Lys Leu Met Leu Ala Phe Ala Arg Asp
 20 25

<210> 6680

<211> 67

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6680

Lys Leu Arg Phe Ile Lys Arg Phe Tyr Lys Leu Leu Lys Arg Gly Trp
 1 5 10 15

Thr Ala Phe Val Ala Arg Lys Leu Arg Ala Glu Ala Arg His Asn Lys
 20 25 30

Arg Thr Leu Ala Leu Trp Arg Ala Leu Thr Tyr Lys Leu Glu Val Asp
 35 40 45

Ala Ala Arg Cys Arg Asp Glu Ala Glu Cys Leu Asn Ala Val Phe Ala
 50 55 60

Ile Arg Pro
 65

<210> 6681

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6681

Met Ile Arg Trp Leu Lys Lys Tyr Leu Arg Trp Leu Ser Lys Ser Lys
 1 5 10 15

Ala Arg Ala Leu Gly Arg Ala His Ala Tyr Asp Glu Phe Ala Val Ala
 20 25 30

Arg Lys Tyr Leu Arg Leu Gln Asp
 35 40

<210> 6682
 <211> 54
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6682

Arg Phe Arg Ile Leu Lys Lys Leu Leu Lys Lys Leu Pro Lys Arg Phe
 1 5 10 15

Glu Pro Glu His Glu Arg Ala Leu Met Lys Tyr Thr Ser Asp Ile Leu
 20 25 30

Gln Arg Lys Gly Lys Lys Arg Glu Leu Ala Leu His Met Ala Pro Arg
 35 40 45

Ala Pro Arg Val His Ala
 50

<210> 6683
 <211> 76
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6683

Lys Leu Lys Phe Met Arg Arg Tyr Tyr Lys Lys Tyr Arg Lys Ala Ala
 1 5 10 15

Gln Arg Val Ala Leu Cys Arg Ala Arg Ala Leu His Lys Lys Pro Ala
 20 25 30

Lys Gly Ser Glu Ser Arg Ser Gly Leu Leu Lys Lys Ala Ala Pro Pro
 35 40 45

Gln Gly Thr Thr Arg Val Pro Ile Ala Leu Thr Arg Leu Arg Arg Pro
 50 55 60

Phe Asp Gln Arg Leu Leu Phe Met Gly Phe Leu Leu

65 70 75

<210> 6684
 <211> 27
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6684

Arg Tyr Lys Met Leu Arg Arg Tyr Leu Arg Met Leu Arg Pro Ser Leu
 1 5 10 15

Tyr Met Lys Ala Leu Arg Leu Ala Gln Val Leu
 20 25

<210> 6685
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6685

Lys Leu Lys Leu Met Cys Arg Trp Leu Lys Met Leu Arg Ser Leu Leu
 1 5 10 15

Gln Leu Glu Asp Ser Gly Lys
 20

<210> 6686
 <211> 55
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6686

Met Leu Arg Trp Trp Pro Arg Phe Ile Arg Lys Leu Pro Lys Arg Thr
 1 5 10 15

Pro Lys Arg Leu Glu Ala Leu Leu Trp Arg Leu Leu Ala Asp Leu Cys
 20 25 30

Gln Arg Ala Ile Gly Arg Asp Ala Lys Ala Leu Asn Met Leu Trp Cys

35

40

45

Ser Lys Val Val Lys Lys Leu
 50 55

<210> 6687

<211> 41

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6687

Phe Leu Lys Leu Ile Arg Arg Tyr Phe Arg Arg Phe Lys Arg His Ser
 1 5 10 15

Asn Ser Asn Lys Ala Arg Glu Ala Ala Tyr Phe Ala Lys Lys Ala Leu
 20 25 30

Lys Gly Ala Lys Ile Leu Ala Pro Met
 35 40

<210> 6688

<211> 54

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6688

Lys Leu Lys Leu Phe Lys Lys Leu Leu Arg Tyr Phe Gln Lys Leu Trp
 1 5 10 15

Met Tyr Leu Phe Arg Arg Ala Ala Arg Leu Trp Cys Ala Glu Leu Ala
 20 25 30

Cys Gly Ala Leu Trp Leu Phe Leu Leu Lys Ala Arg Leu Met Gln Lys
 35 40 45

Ile Lys Arg Lys His Ala
 50

<210> 6689

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6689

Lys Phe Arg Tyr Tyr Lys Arg Phe Leu Lys Phe Met Asn Lys Glu Leu
1 5 10 15

Ala Ala Ala Ala Val Asn Leu
20

<210> 6690

<211> 43

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6690

Leu Phe Lys Leu Leu Asn Lys Trp Ile Lys Lys Phe Arg Lys Lys Met
1 5 10 15

Leu Glu Arg Asp Lys Lys Pro Arg Met Pro Thr Thr Leu Lys Asn Leu
20 25 30

Ala His Val Lys Leu Ala Phe Trp Arg Ala Tyr
35 40

<210> 6691

<211> 91

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6691

Arg Leu Arg Phe Phe Gln Arg Trp Met Arg Arg Tyr Gln Lys Val Ala
1 5 10 15

Trp Tyr Lys Ala Ala Cys Lys Glu Leu Ala Ala Ala Val Gly Lys Ala
20 25 30

Lys Ala Arg Cys Pro Lys Lys Leu Ala Arg Trp Ala Lys Phe Lys Ser
35 40 45

Trp Gln Pro Leu Met Ile Lys Ala Tyr Arg Leu Pro Ala Arg Arg Lys
 50 55 60

Lys Arg Arg Phe Ala Ile Gln Ser Arg Ala Trp Trp Leu Val Lys Gly
 65 70 75 80

Met Leu Ser Arg Arg Cys Lys Gln Leu Leu Arg
 85 90

<210> 6692
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6692

Lys Leu Lys Phe Met Lys Arg Ile Leu Arg Lys Met His Asn Leu Met
 1 5 10 15

Thr Leu Asn Ala Asp Leu Lys Lys Lys Lys Leu Asn Lys Ala Phe His
 20 25 30

Asp

<210> 6693
 <211> 47
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6693

Arg Leu Lys Leu Leu Arg Arg Phe Leu Arg Lys Phe Lys Asn Leu Ala
 1 5 10 15

Met Glu Arg His Lys Cys Asn Arg Lys Arg Gln Leu Trp Arg His Leu
 20 25 30

Ser Phe Ala Ala Ser Cys Leu Gly Lys Ala Arg Trp Ala Ala Arg
 35 40 45

<210> 6694

<211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6694

Arg Leu Lys Leu Leu Pro Lys Tyr Leu Lys Met Met Lys Lys Asp Ile
 1 5 10 15

His Met Ala Lys
 20

<210> 6695
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6695

Arg Leu Lys Tyr Phe Arg Arg Leu Trp Arg Tyr Leu Lys Arg Lys Leu
 1 5 10 15

Tyr Leu Asp Trp Phe Trp Ala Ala Arg Cys Ala Leu
 20 25

<210> 6696
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6696

Trp Leu Arg Leu Leu Gln Lys Met Tyr Arg Met Ile Asn Thr Lys Leu
 1 5 10 15

Leu Arg Arg Ser Ala
 20

<210> 6697
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6697

Met Phe Arg Leu Phe Lys Arg Ile Leu Arg Leu Leu Arg His Arg Gln
 1 5 10 15

Leu Ala Ser Arg Asp
 20

<210> 6698

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6698

Phe Tyr Lys Leu Phe Lys Arg Leu Leu Lys Trp Tyr Thr Lys Ala Ala
 1 5 10 15

Ala Arg Arg Gly Lys Ala Asn Ala Ala Tyr Val
 20 25

<210> 6699

<211> 87

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6699

Lys Leu Arg Phe Ile Lys Arg Leu Phe Arg Lys Phe Pro His Leu Val
 1 5 10 15

Ala Arg Arg Lys Asn Thr Arg Lys Leu Glu Thr Ala Ser Leu Leu Leu
 20 25 30

Pro Asn Met Lys Tyr Arg Glu Asp Leu Ile Phe Tyr Lys Leu Arg Gln
 35 40 45

Gly Gly Lys Ala Ala Lys Ala Lys Asp Leu Ile Thr Ala Phe Lys Ser
 50 55 60

Arg Asn Ala Ala Leu Ala Cys Lys Thr Lys Gln His Ile Asp Ala Leu

20

25

<210> 6703
 <211> 41
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6703

Met Tyr Arg Leu Ile Arg Lys Leu Leu Arg Leu Phe Pro Lys Ala Leu
 1 5 10 15

Lys Phe Leu Met Thr Leu Tyr Leu Lys Lys Asp Lys Arg Pro Arg His
 20 25 30

Lys Asp Glu Arg Ala Arg Cys Gln Tyr
 35 40

<210> 6704
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6704

Ile Trp Arg Tyr Leu Pro Arg Leu Tyr Arg Lys Trp Arg Lys Lys Leu
 1 5 10 15

Ser Leu Met Pro Leu Leu Ser
 20

<210> 6705
 <211> 57
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6705

Lys Leu Arg Leu Leu Arg Arg Met Trp Arg Arg Met Arg Arg Ser Ala
 1 5 10 15

Leu Ala Gln Arg Arg Lys Trp Glu Leu Ala Asn Trp Thr Leu Cys Ser

25

30

Arg Lys Trp Asp Leu Lys Asn Arg Trp Trp Ala Ser Leu Trp Arg Gln
35 40 45

His Lys Lys Asp Ala Ala His Val Leu
50 55

<210> 6706

<211> 29

<212> PRT

<213> Artificial Sequence

 $\langle 220 \rangle$

<223> Computer-generated peptide variant

<400> 6706

Arg Met Arg Leu Leu Gln Arg Leu Trp Lys Arg Tyr Arg Lys Ala Leu
1 5 10 15

Asp Gln Lys Tyr His Leu Leu Arg His Tyr Met Leu Leu
20 25

<210> 6707

 $\langle 211 \rangle$ 100

<212> PRT

<213> Artificial Sequence

 $\langle 220 \rangle$

<223> Computer-generated peptide variant

<400> 6707

Leu Ile Arg Leu Trp Arg Lys Ile Ile Lys Ile Phe Lys Pro His Gln
1 5 10 15

Lys Leu Lys Tyr Gly Ala Lys Leu Leu Leu Met Thr Thr Ala Thr Tyr
20 25 30

Arg Thr Lys Pro Ala Arg Ala Leu Thr Ser Phe Ala Asp Lys Leu Phe
35 40 45

Leu Tyr Phe Leu Gln Arg Lys Phe Glu Tyr Ala Ala Ala Lys Arg Gly
50 55 60

Arg Arg Pro Arg Cys Ala Ala Asn Leu Cys Lys Leu Lys Arg Thr Arg
65 70 75 80

Lys Asn Glu Pro Gln Ala Ala Lys Asp Lys Leu Lys Tyr Leu Gly Leu
 85 90 95

Leu Asn Asn Tyr
 100

<210> 6708
 <211> 43
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6708

Arg Leu Lys Leu Tyr Lys Lys Phe Phe Arg Lys Phe Thr Arg Gln Asp
 1 5 10 15

Arg Lys Gln Leu Asn His Leu Leu Leu Leu Ala Phe Lys Arg Ala Met
 20 25 30

Met Pro Leu Ala Arg Ala Trp Ser Ala Ile Lys
 35 40

<210> 6709
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6709

Lys Leu Arg Ile Leu Ser Arg Leu Trp Arg Lys Leu Ser Arg Leu Ala
 1 5 10 15

Leu Lys Ile Lys Ile Gly Phe Ile Ala Lys Glu Leu Ala Ala
 20 25 30

<210> 6710
 <211> 65
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6710

Lys Leu Arg Met Phe Arg Arg Ile Met Lys Phe Leu Lys Arg Met Leu
 1 5 10 15

Ala Leu Ala Gln His Phe Lys Phe Asn Ala Ala Arg Arg Ala Val Cys
 20 25 30

Arg Val Leu Lys Cys Leu Arg Leu Leu Ala Met Lys Gln Tyr Leu Pro
 35 40 45

Arg Lys Cys His Leu Asp Arg Ile Trp Asn Arg Lys Ala Met Tyr His
 50 55 60

Lys
 65

<210> 6711
 <211> 38
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6711

Lys Leu Lys Phe Leu Arg Lys Leu Tyr Arg Leu Leu Cys Pro Leu Ser
 1 5 10 15

Ile Ser Tyr Arg Pro His Lys Arg Leu Arg Ala Asn Ala Gly His Leu
 20 25 30

Ala Arg Cys Cys Leu His
 35

<210> 6712
 <211> 75
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6712

Tyr Phe Lys Leu Tyr Lys Arg Leu Phe Arg Leu Tyr Arg Arg Met Ala
 1 5 10 15

Cys Pro Lys Leu Val Ala Lys Leu Pro Trp Leu Ala Met Lys Met Asn

20

25

30

Gln Ser Gly Arg Lys Thr Ala Arg Ser His Ala Gln Asp Ala Ala Asp
 35 40 45

Cys Arg Thr Leu Arg Phe Gly Ile Leu Lys Cys Leu Arg Leu Arg Arg
 50 55 60

Cys Arg Leu Val Leu Lys Arg Pro Arg Leu Arg
 65 70 75

<210> 6713
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6713

Arg Phe Lys Phe Leu Lys Lys Tyr Met Lys Arg Leu Asn His Ala Leu
 1 5 10 15

Asn Cys Gln Gln Lys Ala Arg Leu Lys Tyr Ser His Ala Ala Ile Leu
 20 25 30

Leu

<210> 6714
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6714

Lys Phe Arg Leu Leu Gln Arg Met Leu Lys Lys Leu Arg Gln Phe Ala
 1 5 10 15

Ala Lys Trp Phe Lys Lys Thr Glu Cys Gln Leu Gln Ala Ala Gln Lys
 20 25 30

<210> 6715
 <211> 85
 <212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6715

Lys Leu Lys Phe Leu Arg Lys Ile Leu Arg Lys Ile His Lys Gly Asn
1 5 10 15

Trp Asn Arg Trp Arg Lys Ala Arg Gly Lys Leu Ala Tyr Arg Leu Lys
20 25 30

Lys Trp Cys Phe Val Arg Pro Arg Cys Arg Ala Ser Ala Lys Arg Cys
35 40 45

Lys Trp Ala Thr Leu Arg Ser Leu Ile Tyr Asp Lys Leu Asp Cys Thr
50 55 60

Asn Ala Leu Cys Leu Cys Thr Lys Ser Asn Lys Leu Lys Ala Ala Gln
65 70 75 80

Leu Pro Gly Ala Met
85

<210> 6716

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6716

Phe Met Lys Leu Trp Gln Lys Tyr Leu Lys Arg Leu Arg Gln Ala Trp
1 5 10 15

Leu Arg His Leu Lys Thr Gly Leu Phe Arg
20 25

<210> 6717

<211> 74

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6717

Arg Met Arg Leu Ile Arg Arg Leu Leu Arg Lys Tyr Cys Asn Thr Lys
 1 5 10 15

Ala Gly Ala Val Lys Met Ala Leu Ala Leu His Phe Lys Met Arg Ala
 20 25 30

Arg Thr Ser Asn Lys Lys Glu Leu Cys Gly Ala Arg Asp Lys Arg Lys
 35 40 45

Asn Leu Gln His Ile Ala Gly Tyr Ala Ala Leu Leu His Lys Pro Leu
 50 55 60

Lys His Cys Ala Ala Ile Cys Ala Pro Arg
 65 70

<210> 6718

<211> 88

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6718

Lys Leu Arg Trp Met Lys Lys Phe Tyr Arg Leu Leu Arg Gln Arg Trp
 1 5 10 15

Arg Cys Gly Cys Lys Arg Lys Lys Cys Ser Asp Lys Asp Arg Thr Arg
 20 25 30

Ser Asp Trp Arg Leu Glu Arg Leu Lys Met Asp Ala Leu Ala Arg Arg
 35 40 45

Leu Met Leu Ile Cys Trp Pro Met Lys Lys Leu Ala Asp Asp Arg Phe
 50 55 60

Ala Arg Ala Ala Leu Lys Lys Lys Trp Pro Ala Ser Ser Ala His Arg
 65 70 75 80

Ala Leu Gln Leu Met Lys Leu Glu
 85

<210> 6719

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6719

Lys Ile Arg Tyr Tyr Arg Lys Trp Leu Lys Leu Phe Asn Lys Ala His
1 5 10 15

Leu Arg Ala Arg Ile Ala Ala
20

<210> 6720

<211> 56

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6720

Lys Leu Arg Phe Leu Arg Lys Trp Ile Arg Leu Trp Gln Lys Gln Ala
1 5 10 15

Lys Asp Asp His Ala Leu His Arg Ala Pro Arg Leu Met Lys Lys Lys
20 25 30

Tyr Arg Asn Leu Lys Val Ala Pro Phe Arg Arg Trp Lys Leu Glu Ala
35 40 45

Lys Lys Ala Leu Ala Phe Met Thr
50 55

<210> 6721

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6721

Leu Trp Lys Met Leu Lys Lys Met Leu Arg Tyr Phe Ser Arg Glu Arg
1 5 10 15

His Lys Ala Arg Cys Ala Ala Thr Phe Leu Pro Arg His
20 25

<210> 6722
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6722

Leu Met Arg Phe Leu Thr Arg Phe Leu Arg Lys Leu Arg Arg Val Ala
 1 5 10 15

Cys Ala Ala Trp Ile Ser
 20

<210> 6723
 <211> 61
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6723

Tyr Phe Lys Leu Tyr His Arg Met Met Lys Lys Leu Cys Arg Ala Ala
 1 5 10 15

Leu Tyr Lys Cys Leu Cys Leu Glu Lys Lys Tyr Thr Leu Ser Gly Glu
 20 25 30

Leu Gln Leu Leu Leu Met Ala Arg Ala Glu Lys Val Arg Ala Cys Arg
 35 40 45

Ala Leu Leu Arg Lys Lys Asn Ala Gln Arg Asp Arg Asp
 50 55 60

<210> 6724
 <211> 55
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6724

Phe Leu Lys Leu Phe Lys Lys Trp Leu Lys Lys Leu Arg Arg Trp Ala
 1 5 10 15

Arg Leu Asp Ala Ser Ala Gln Asn Val Gln Cys Ala Arg Leu Gln Leu
 20 25 30

His His Trp Lys Ala Arg Arg Gln Ala Ala Val Lys Ala Glu Leu Lys
 35 40 45

Glu Leu Trp Ser Gln Trp Ile
 50 55

<210> 6725
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6725

Leu Phe Arg Trp Leu Arg Lys Phe Ile Lys Arg Leu Lys Lys Arg Leu
 1 5 10 15

Trp Leu Ala Leu Leu Ala Lys Asp Lys Thr Ile Phe Leu Tyr Met Pro
 20 25 30

Trp Lys

<210> 6726
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6726

Phe Trp Arg Leu Ile His Lys Met Leu Arg Arg Phe Lys Arg Leu Arg
 1 5 10 15

Lys Ala Ser Ala Asp Glu Leu Asn Lys His Ala Ser Leu Arg Arg Val
 20 25 30

<210> 6727
 <211> 27
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6727

Arg	Met	Lys	Met	Leu	His	Lys	Tyr	Phe	Lys	Trp	Met	Gln	Arg	Ser	Leu
1				5					10					15	

Gly	Lys	Ala	Thr	Tyr	Arg	Ala	Ala	Leu	Leu	Arg
			20					25		

<210> 6728

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6728

Tyr	Leu	Arg	Leu	Leu	Gln	Arg	Phe	Leu	Lys	Lys	Ile	Asn	Arg	Pro	Tyr
1			5						10					15	

Ala	Leu	Ala	Arg
			20

<210> 6729

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6729

Arg	Phe	Lys	Leu	Met	Ser	Lys	Tyr	Trp	Arg	Leu	Tyr	Gln	Arg	Leu	Lys
1			5					10						15	

Arg	Leu	Ala	Tyr
			20

<210> 6730

<211> 54

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6730

Leu Ile Arg Phe Trp Lys Arg Leu Met Arg Ile Met Arg Arg Lys Ala
 1 5 10 15

Asn Phe Ala Ala Cys Glu Lys Leu Lys Tyr Asn Arg Cys Ile Lys Gln
 20 25 30

Arg Lys His Asn Ala Val Ala Glu Arg Ala Cys Leu Lys Ala Leu Val
 35 40 45

Trp Val Arg Arg Leu Leu
 50

<210> 6731
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6731

Phe Leu Arg Ile Leu Arg Lys Phe Leu Arg Lys Met Cys Lys Thr Ala
 1 5 10 15

Arg Ala Trp Lys Ala Leu Pro Ala Ile
 20 25

<210> 6732
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6732

Arg Trp Lys Tyr Met Cys Arg Trp Phe Arg Lys Leu Thr Pro Arg Cys
 1 5 10 15

Asn Ile Ala Leu Leu Cys Ala Glu Arg Arg Ala Met Ala Asn Leu Arg
 20 25 30

Leu Leu

<210> 6733

<211> 31
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6733

Tyr Met Lys Leu Tyr Lys Arg Phe Tyr Arg Lys Leu Lys Cys Ala Ala
 1 5 10 15

Ala Ile Arg Arg Tyr Arg Lys Lys Asp Leu Gly Asp Tyr Leu Ala
 20 25 30

<210> 6734
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6734

Lys Leu Arg Trp Leu Lys Lys Leu Met Lys Arg Leu Lys Lys Asn Cys
 1 5 10 15

Val Arg Leu Lys Lys Pro His Cys Cys Leu Glu Met Phe Ala Ala Cys
 20 25 30

Ser Arg Lys Phe Ala Ser Ala Pro
 35 40

<210> 6735
 <211> 91
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6735

Arg Met Lys Phe Met Ser Arg Leu Phe Arg Arg Met Arg Gln Lys Arg
 1 5 10 15

Pro Arg Leu Ala Val Arg Lys Met Arg Ala Arg Ala Leu Val Asp His
 20 25 30

Leu Ala Gln Lys Ser Cys Lys Arg Met Ala Leu Lys Lys Arg Lys Gly

35

40

45

Lys Val Arg Trp Leu Ala Glu Cys Asp Val Ala Arg Ser Val Ala Ala
 50 55 60

Lys Ala Asp Ser Arg Leu Val Tyr Asp Lys Ala Trp Val Ala Ala Leu
 65 70 75 80

Ala Leu Thr Cys Leu Thr Ile Ile Lys Phe Asp
 85 90

<210> 6736

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6736

Arg Phe Arg Leu Met Pro Arg Leu Leu Arg Arg Ile Arg Arg Arg Cys
 1 5 10 15

Gly Thr Leu Met Leu Arg Gln Ser Pro Ala Ala Leu
 20 25

<210> 6737

<211> 91

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6737

Met Leu Arg Ile Phe Lys Arg Leu Phe Lys Lys Tyr Lys Gln Arg Arg
 1 5 10 15

Pro Glu Ala Cys Lys Lys Lys Met Leu Arg Ala Ala Phe Pro Asn Ala
 20 25 30

Ala Leu Tyr Ile Thr Lys Lys Phe Ala Lys Arg Leu Lys Asp Pro Met
 35 40 45

Arg Pro Lys Lys Ala Ala Gly Ser Gln Glu Arg Ala Lys Gly Ala Lys
 50 55 60

Thr Leu Pro Phe Arg Arg Met His Leu Leu Leu Arg Ser Leu Tyr Lys
 65 70 75 80

Ser Ala Gly Trp Pro Arg Ser Leu Trp Ala Ser
 85 90

<210> 6738
 <211> 50
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6738

Arg Leu Lys Leu Phe Arg Lys Ile Leu Lys Lys Phe Arg Arg Gln Cys
 1 5 10 15

Cys Arg Ser His Gln Lys Asn Ala Asp Ala Ile Ser Lys Arg Phe Cys
 20 25 30

Leu Ala His Ala Asp Ala Trp Lys Ala Val Lys Lys Leu Gly Lys Thr
 35 40 45

Ala Phe
 50

<210> 6739
 <211> 78
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6739

Arg Leu Arg Phe Leu Arg Arg Leu Phe Lys Phe Tyr Lys Lys Ala Leu
 1 5 10 15

Asn Ala Ile Ser Lys Trp Arg Val Phe Asp Tyr Val Ala Ala Lys Leu
 20 25 30

Arg Lys Arg Leu Ala Gly Thr Lys Gln Asp Ala Leu His Arg Ser Arg
 35 40 45

Trp Val Ser Val Asn Ile Arg Ile Ala Leu Asp Ala Tyr Lys Leu Phe

50

55

60

Ala Gln Arg Lys Arg Arg Met Val Arg Tyr Ala Ile Val Arg
 65 70 75

<210> 6740

<211> 73

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6740

Lys Leu Arg Ile Phe Arg Arg Leu Leu Lys Arg Met Pro Lys Gly Tyr
 1 5 10 15

Thr Arg Gly Ala Glu Arg His Ala His Lys Ala Lys Pro Ala Gly Ala
 20 25 30

Ala Gln Glu Pro Arg Lys Ser Arg Thr Arg Phe Asn Gly Arg Arg Cys
 35 40 45

Pro Ala Ala Cys Leu Asp Ile Leu Ala Lys Arg Ala Trp Arg Leu Gln
 50 55 60

Arg Arg Phe Arg Lys Lys Trp Ala Ala
 65 70

<210> 6741

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6741

Leu Phe Lys Leu Phe His Arg Tyr Trp Arg Leu Trp Lys Thr Ala Ala
 1 5 10 15

Leu Gly Asp Lys Leu Arg Thr Gln Glu Arg Ala Val Ala Tyr Arg Pro
 20 25 30

Leu Lys Lys Gln
 35

<210> 6742
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6742

Arg Leu Lys Met Trp Cys Arg Trp Phe Arg Arg Leu Arg Lys Thr Gly
 1 5 10 15

Leu Pro Ala Val Arg Pro Asp Arg Leu Pro Ala Ala Gln
 20 25

<210> 6743
 <211> 45
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6743

Lys Ile Lys Met Leu Lys Arg Phe Met Lys Arg Leu Lys Ser Ala Leu
 1 5 10 15

Ala Asp Leu Arg His Lys Leu Asp Lys Lys Leu Leu Leu Pro Lys Asn
 20 25 30

Leu Ala Lys Lys Arg Met Val Ala Val Leu Ala Gln Ala
 35 40 45

<210> 6744
 <211> 62
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6744

Leu Phe Lys Leu Tyr Lys Lys Leu Leu Arg Phe Trp Arg Lys Pro Ala
 1 5 10 15

Tyr Phe Glu Arg Lys Glu Ala Asn Leu Ala Gly Ser Ala Ile Ala Lys
 20 25 30

Leu Ala Lys Val Ile Trp Ala Thr Trp Arg Tyr Lys Leu Arg Arg Lys
 35 40 45

Leu Ala Pro Lys Cys Ala Ile Met Lys Thr Ala Val Glu Arg
 50 55 60

<210> 6745
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6745

Lys Ile Arg Trp Tyr Lys Lys Trp Leu Arg Arg Leu Arg Pro Ala His
 1 5 10 15

Ala Arg Trp Leu Cys Asn Met Cys Leu Ala Lys Phe Leu Leu Leu Glu
 20 25 30

Arg Glu Trp
 35

<210> 6746
 <211> 47
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6746

Ile Ile Lys Trp Phe Asn Lys Leu Leu Lys Arg Trp His Asn Pro Leu
 1 5 10 15

Trp Asn Pro Ile Asn Arg Glu Lys Asn Leu Lys Glu Asp Ala Leu Ser
 20 25 30

Arg Arg Ala Arg Ala Ala Leu Gly Leu Arg Arg Arg Arg Leu Ala
 35 40 45

<210> 6747
 <211> 53
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6747

Leu Phe Arg Phe Leu Arg Lys Leu Leu Lys Phe Leu Lys Arg Ser Leu
 1 5 10 15

Arg Arg Asn Val Tyr Leu Ile Arg Leu Pro Tyr Met Lys Glu Asn Phe
 20 25 30

Phe Lys Gln Phe Leu Ala Ile Lys Arg Ala Leu Ala Asp Thr Met Lys
 35 40 45

Tyr Ser Arg Lys Lys
 50

<210> 6748

<211> 62

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6748

Lys Leu Arg Met Met Lys Arg Phe Leu Arg Met Leu Arg Lys Asn Arg
 1 5 10 15

Trp Ala Met Arg Leu Trp Pro Phe Ala Val Leu Leu Leu Leu Trp Met
 20 25 30

Leu Lys Ala Lys Arg Gly Ala Ala Leu Arg Arg Arg Ala Trp Trp Glu
 35 40 45

His Trp Phe Leu His Ala His Pro Phe Asn Gly Arg Arg Leu
 50 55 60

<210> 6749

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6749

Arg Leu Arg Phe Trp Lys Arg Met Leu Lys Lys Trp Gln Arg Pro Phe

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<210> 6750
<211> 35
<212> PRT
<213> Artificial Sequence
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<400> 6750

Leu Leu Gln Phe Lys His Lys Met Leu Pro Lys Arg Ala Ile Asn Trp
20 25 30

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<210> 6751
<211> 22
<212> PRT
<213> Artificial Sequence
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<400> 6751

Lys Ala Tyr Ala Val Ala
20

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<210> 6752
<211> 80
<212> PRT
<213> Artificial Sequence
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<220>
<223> Computer-generated peptide variant

<400> 6752

Leu	Leu	Lys	Tyr	Ile	Arg	Arg	Tyr	Tyr	Arg	Tyr	Leu	Arg	Lys	His	Asp
1				5					10					15	

Leu	Arg	Lys	Thr	Gln	Met	Ala	Ala	Ala	Phe	Leu	Pro	Arg	Lys	Leu	Ala
			20					25					30		

Ala	Lys	Met	Asp	Leu	Val	Cys	Ala	Thr	Asp	Leu	Trp	Trp	Ser	Ser	Leu
		35					40					45			

Arg	Val	Asn	Val	Leu	Ala	Ala	Met	Ala	Ala	Leu	Leu	Arg	Lys	Lys	His
	50					55					60				

Leu	Glu	Arg	Lys	Ser	Lys	Lys	Leu	Asn	Thr	Phe	Leu	Ala	Arg	Pro	Met
65					70					75					80

<210> 6753

<211> 37

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6753

Arg	Met	Arg	Leu	Phe	Lys	Arg	Met	Ile	Arg	Lys	Leu	Thr	Lys	Trp	Ser
1				5					10					15	

Lys	His	His	Lys	Ala	Gly	Gly	Ala	Leu	Leu	Leu	Asp	Lys	Leu	Ile	Leu
			20					25					30		

Ala	His	Ile	Lys	Gln
			35	

<210> 6754

<211> 46

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6754

Phe	Ile	Arg	Leu	Trp	Arg	Lys	Phe	Met	Arg	Lys	Tyr	Arg	Gln	Ala	Lys
1				5					10					15	

Met Asn Thr Leu Glu Arg Lys Leu Leu Ala Ile Arg Ile Leu Ala Val
 20 25 30

Lys Asn Val Tyr Ala Tyr Leu Ala Met Ser Leu Lys Ala Arg
 35 40 45

<210> 6755
 <211> 26
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6755

Phe Trp Lys Leu Leu Arg Arg Phe Phe Arg Trp Leu Asn Lys Ser His
 1 5 10 15

Asp Lys Arg Ala Val Lys Ile Leu Leu Ala
 20 25

<210> 6756
 <211> 47
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6756

Phe Leu Lys Leu Ile Lys Arg Phe Ile Lys Arg Leu Arg Arg Thr Cys
 1 5 10 15

Pro Ile Ile Arg Arg Arg Leu Arg His Glu Lys Leu Tyr Cys Ala Leu
 20 25 30

Lys Arg Ala Trp Ala Gly His Ser His Ala Asn Leu Ala Ala Thr
 35 40 45

<210> 6757
 <211> 55
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6757

Leu Leu Lys Leu Phe Pro Lys Trp Met Arg Leu Met Lys Ser Ala Thr
 1 5 10 15

Ala Ala Lys Arg Lys Pro Gly Gly Arg Pro Leu Arg Leu Arg Lys Gln
 20 25 30

Val Trp Gly Ala Leu Arg Ala Ser Ala Met Ala Leu Gln Leu Lys Ser
 35 40 45

Gln Met Lys Lys Gly Ser Ala
 50 55

<210> 6758

<211> 41

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6758

Lys Leu Lys Ile Leu Lys Arg Phe Trp Arg Leu Phe Asn Gln Arg Ser
 1 5 10 15

Gln Ala Arg Lys Phe Asp Glu Trp Lys Leu Met Thr Arg Ala Trp Ile
 20 25 30

Leu Cys Ala Arg Leu Arg Ile Lys Leu
 35 40

<210> 6759

<211> 67

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6759

Lys Ile Lys Ile Ile Arg Arg Met Leu Arg Lys Trp Asn Lys Met Pro
 1 5 10 15

Tyr Gly Gln Arg Ser Gly Arg Gly Lys Tyr Trp Arg Asp Arg Ala Ala
 20 25 30

Ala Ala Arg Lys Phe Ala Leu Trp Tyr Asp Phe Leu Leu Ile Gln Lys

35

40

45

Ala Lys Ala Leu Lys Ala Arg Pro Lys Gln Pro Trp Leu Lys Gln Ala
 50 55 60

Lys Leu Pro
 65

<210> 6760
 <211> 52
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6760

Ile Tyr Arg Met Phe Lys Arg Leu Phe Lys Arg Leu Arg His Tyr Lys
 1 5 10 15

Gly Met Tyr Lys Ala His Leu Ala Leu Arg Arg Arg Tyr Gly Pro Leu
 20 25 30

Glu Ala Met Phe Asp Leu Leu Leu Ala Thr Arg Arg Tyr Gly Gly Leu
 35 40 45

Ala Leu Arg Leu
 50

<210> 6761
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6761

Tyr Leu Arg Leu Ile Cys Arg Leu Ile Lys Lys Leu Thr Cys Leu Trp
 1 5 10 15

Asp Leu Lys Arg
 20

<210> 6762
 <211> 68
 <212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6762

Arg Tyr Arg Leu Met Asn Lys Phe Trp Arg Ile Leu Arg Arg Leu Phe
1 5 10 15

Arg Gln Ala Met Glu Ala Lys Leu Glu Thr Ala Ala Pro His Gly Val
20 25 30

Trp Glu Trp Lys Arg His Leu Lys Lys Arg Lys Met Arg Leu Arg Cys
35 40 45

Ala Ala Ala Asp Lys Leu Tyr Lys Gln Arg Lys Arg Ala Cys Ile Leu
50 55 60

Ala Ile Ala Lys
65

<210> 6763

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6763

Leu Trp Arg Phe Leu Asn Arg Trp Ile Arg Leu Phe Arg Asn Leu Arg
1 5 10 15

Ile Arg Asp Glu His Pro Lys Pro Leu Met Ala Ser Lys Val Ala Arg
20 25 30

Lys Ala Ala Ala
35

<210> 6764

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6764

Tyr Phe Lys Phe Trp Lys Lys Phe Trp Arg Leu Leu Arg Lys Gly Asp
 1 5 10 15

Gly Ala Met Trp Lys Leu Arg Lys Arg Leu Ala Asn Leu Ala Thr Ala
 20 25 30

Arg Arg Ile Ala Met Gln Met Pro
 35 40

<210> 6765
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6765

Leu Tyr Arg Leu Leu Arg Lys Phe Leu Lys Leu Phe Pro Arg His Tyr
 1 5 10 15

Val Thr Leu Ala Lys Trp Thr
 20

<210> 6766
 <211> 90
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6766

Arg Tyr Lys Tyr Met Gln Lys Trp Leu Lys Lys Trp Lys Lys Ala Gly
 1 5 10 15

Ile Leu Leu Lys Leu His Leu Ile Ala Leu Phe Gln Asn Arg Lys Ala
 20 25 30

Ala Arg Lys Asp Gln Leu Lys Leu Ala Ala Lys Leu Arg Gly Trp Thr
 35 40 45

Lys Arg Met Leu Arg Lys Arg Lys Val Gly Leu Gln His Gly Trp Ala
 50 55 60

Val Lys Val Leu Lys Leu Ala Val Ile Ala Asn Arg Glu Phe Ser Ala

1 5 10 15

Ala Ala Lys Leu Arg Gly Lys Lys Leu Met Gln Thr Arg Phe Arg Arg
20 25 30

Glu

<210> 6770
<211> 50
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 6770

Lys Phe Arg Phe Leu Asn Lys Phe Phe Lys Lys Phe Arg Cys Arg Leu
1 5 10 15

Leu Tyr Lys Met Arg Phe Leu Leu Asn Arg Ile Ala Leu Arg Lys Ile
20 25 30

Arg Asp Leu Lys Leu Ala Lys Lys Leu Leu Tyr Arg Pro Ser His Thr
35 40 45

Arg Leu
50

<210> 6771
<211> 48
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 6771

Lys Phe Lys Phe Leu Ser Arg Trp Tyr Arg Lys Met Lys Arg Ala Leu
1 5 10 15

Ala Glu Phe Phe Leu Ala Leu His Ser Thr Leu Met Arg Arg Ser Phe
20 25 30

Arg Thr Lys Leu Glu Asp Ala Lys Arg Asp Gly Ala Lys Ala Ile Leu
35 40 45

<210> 6772
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6772

Met Phe Arg Leu Ile Arg Arg Leu Leu Lys Lys Leu Arg Ser Thr Tyr
 1 5 10 15

Arg Leu Leu Lys Lys Cys Ala Leu His Glu Trp Ala Val Met Met Leu
 20 25 30

<210> 6773
 <211> 46
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6773

Lys Ile Lys Trp Leu Arg Lys Leu Leu Arg Tyr Ile Thr Lys Cys Ile
 1 5 10 15

Ala Arg Phe Leu Leu Leu Ala Met Tyr Leu Leu Lys Gln Ala Lys Thr
 20 25 30

Lys Lys Pro Ile Lys Val Gly Arg Met Ala Leu His Gln Lys
 35 40 45

<210> 6774
 <211> 61
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6774

Trp Ile Lys Phe Leu Arg Arg Leu Leu Arg Leu Met Lys Ser Ala Ser
 1 5 10 15

Arg Val Lys Lys His Gly Arg Ala Lys Pro Ala Val Leu Leu Gly Ala
 20 25 30

Gln Ala Ile Gly Val Ala Phe Trp Arg Ile Gln Val Ile Asp Cys Arg
 35 40 45

Lys Lys Lys Arg Leu Ile Val Leu Leu Lys Ala Ala Asn
 50 55 60

<210> 6775
 <211> 54
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6775

Lys Leu Lys Ile Ile Lys Arg Met Leu Lys Leu Ile Asn Arg Arg Arg
 1 5 10 15

Cys Glu Ile Glu Glu Ala Arg Phe Arg Arg Ala Ala His Leu Arg Phe
 20 25 30

Cys Arg Leu His Arg Ala Val Leu Arg His Thr Met Leu Ala Leu Arg
 35 40 45

Glu Ala Thr His Lys Lys
 50

<210> 6776
 <211> 26
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6776

Arg Leu Arg Ile Phe His Lys Phe Ile Arg Leu Phe Cys Arg Leu Ala
 1 5 10 15

Thr Arg Lys Leu Cys Glu Leu Leu Leu Lys
 20 25

<210> 6777
 <211> 50
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6777

Lys Leu Lys Ile Leu Ser Lys Leu Leu Lys Ile Leu Asn Lys Thr Lys
 1 5 10 15

Lys Leu Asp Tyr Lys Leu Leu Leu Ala Ile Met Ala Arg Arg Lys Lys
 20 25 30

Lys Val Phe Lys Lys Val Trp Ile Pro Ile Lys Lys Ala Leu Lys Glu
 35 40 45

Cys Gly
 50

<210> 6778

<211> 61

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6778

Ile Met Lys Leu Met Arg Lys Phe Trp Lys Arg Tyr Arg Lys Leu Thr
 1 5 10 15

Cys Leu Leu Phe Thr Lys Thr Glu Arg Met His Leu Ala Glu Arg Lys
 20 25 30

His Ala Arg Ala Ile Leu Leu Ala Pro Tyr Lys Ala Ala His Leu Leu
 35 40 45

Lys His Gln Ala Glu Leu Asp Gly Pro Lys Lys Ala Ala
 50 55 60

<210> 6779

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6779

Lys Phe Lys Ile Leu Ser Lys Phe Leu Arg Met Tyr Asn Arg Leu Gly

1 5 10 15

Arg Leu Lys Leu Glu Ala Arg
20

<210> 6780
<211> 46
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 6780

Met Met Arg Met Met Lys Arg Leu Ile Arg Arg Leu Cys Arg Tyr Lys
1 5 10 15

Val Arg Thr His Ala Phe Val Ala Ser Arg His Ala Asp Ala Ala Asp
20 25 30

Ala Pro Ile Lys Trp Arg Lys Arg Leu Arg Thr Leu Lys Leu
35 40 45

<210> 6781
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 6781

Lys Leu Lys Ile Trp Lys Arg Leu Phe Arg Ile Ile Arg Ser His Leu
1 5 10 15

Ala Lys Asn His Ala Phe Met His Lys Ala Ile Ala Asn Val Thr His
20 25 30

Ala Lys Leu Arg Arg Lys Met Leu
35 40

<210> 6782
<211> 70
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 6782

Arg Leu Lys Tyr Phe Lys Lys Leu Trp Lys Phe Ile Lys Lys Lys Phe
1 5 10 15

Ala Arg Glu Met Asn Ala Ala Ala Leu Ser Val Asn Gln Leu Leu Lys
20 25 30

Gln Leu His Arg Thr Ala Ala Ala Lys Ala Trp Arg Asn Arg Ala Leu
35 40 45

Cys Lys Ile Lys Trp Cys Leu Arg Lys Arg Trp Leu Tyr Ala Gln His
50 55 60

Arg Ala Trp Gly Gly Pro
65 70

<210> 6783

<211> 57

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6783

Lys Ile Lys Phe Trp Arg Arg Phe Leu Lys Arg Leu Lys Asn Lys Thr
1 5 10 15

His Met Ala Ala Leu Leu Pro Ala Asn Leu Ala Ala Ser Phe Ala Leu
20 25 30

Leu Ala Ser Met Arg Cys Leu Cys His Lys Lys Cys Met Arg Ala Lys
35 40 45

Tyr Lys Ser Ala Phe Ala Glu Ala Val
50 55

<210> 6784

<211> 43

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6784

Met Phe Arg Met Met Cys Lys Trp Leu Arg Phe Trp His Lys Lys Tyr
 1 5 10 15

Lys Leu Arg His Ala Leu Leu Ala His Arg His Leu Phe Leu Trp Cys
 20 25 30

Ala Arg Lys Phe Ala Arg Lys Asp Lys Cys Lys
 35 40

<210> 6785
 <211> 31
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6785

Arg Trp Arg Ile Trp Cys Lys Leu Leu Lys Lys Leu Lys Arg Asn Ala
 1 5 10 15

Ala Arg Lys Lys Ala Ser Ala Gly Asp Cys Phe Met Ala Asp Ile
 20 25 30

<210> 6786
 <211> 69
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6786

Arg Leu Lys Leu Phe Thr Lys Tyr Met Lys Arg Phe Arg Lys Pro Arg
 1 5 10 15

His Met Leu Arg Val Leu His Leu Leu Lys Ala Asp Leu His Trp Lys
 20 25 30

Arg Ala Asp Trp Asp Leu Met Thr Leu Arg Cys Leu Met Lys Lys Tyr
 35 40 45

Arg Arg Ala Asp Ile Gly Asn Ala Arg Val Asn His Leu Cys Arg Leu
 50 55 60

Ala Arg Arg Cys Ser

65

<210> 6787
 <211> 50
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6787

Arg Ile Lys Trp Tyr Asn Arg Leu Trp Arg Tyr Met Lys Thr Lys Lys
 1 5 10 15

Glu Leu Tyr Ala Arg Met Arg Leu Arg Leu Leu Leu Leu Ser His Lys
 20 25 30

Leu Asp Arg Thr Lys Cys Leu Arg Ala Gln Ile Glu Ala Gln Lys Leu
 35 40 45

Asn Arg
 50

<210> 6788
 <211> 39
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6788

Lys Phe Arg Ile Met Arg Lys Leu Tyr Arg Leu Tyr Arg Lys Lys Trp
 1 5 10 15

Trp Phe Arg Gly Phe Arg Leu Ala Leu Pro His Leu Ala Thr Tyr Lys
 20 25 30

Gln Ala His Ala Asn Ala Lys
 35

<210> 6789
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6789

Arg Leu Arg Met Trp Pro Lys Leu Leu Lys Leu Leu Pro Arg Ala Trp
1 5 10 15

Asn Ala Ala Val Lys Gly Leu His Arg Gln Ile His
20 25

<210> 6790

<211> 64

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6790

Arg Leu Lys Leu Tyr Lys Arg Ile Leu Arg Lys Leu Asn Arg Ala Lys
1 5 10 15

Leu Lys Asp Trp Arg Ala Cys Arg Lys Asp Val Gly Ser Tyr Leu Asp
20 25 30

Ser Phe Ala Leu Ala Ala Ser Ser Leu Arg Leu Ala Val Leu Ser Lys
35 40 45

Arg Trp Arg Tyr Ala Pro Thr Ser His Leu Cys Phe Lys Ser Ala Lys
50 55 60

<210> 6791

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6791

Arg Leu Arg Phe Leu Lys Arg Trp Leu Arg Arg Trp Cys Arg Cys Ala
1 5 10 15

Val Arg Ala Lys Leu Ala
20

<210> 6792

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6792

Lys Leu Arg Met Met Lys Lys Leu Phe Arg Met Leu Thr Gln Leu Lys
1 5 10 15

Leu Arg Asp Phe Ala Leu Met Arg Lys Lys Trp Cys Ile Lys Glu Lys
20 25 30

Leu Cys Leu Glu Leu Tyr Gln Leu
35 40

<210> 6793

<211> 45

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6793

Lys Leu Arg Leu Leu Pro Lys Met Phe Arg Lys Leu Arg Ser Ala Leu
1 5 10 15

Trp Arg Arg Thr Ser Asp Met Met Ala Ile Leu Gly Arg Ala Arg Ala
20 25 30

Lys Asn Ser Arg Arg Ser Ala Lys Ala Lys Arg Gly Glu
35 40 45

<210> 6794

<211> 37

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6794

Leu Leu Arg Phe Leu Arg Arg Trp Trp Lys Trp Met Lys Arg Tyr Ala
1 5 10 15

Ala Leu Ser Ala Leu His Lys Arg Pro Phe Met Thr Arg His Phe Ile
20 25 30

Ala Arg His Leu Leu
35

<210> 6795
<211> 73
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 6795

Arg Trp Lys Leu Trp Cys Arg Leu Met Lys Arg Met Lys Arg Ala Trp
1 5 10 15

Gln Gln His Ala Leu Thr Met Lys Leu Arg Lys Ile Arg His Arg Trp
20 25 30

Ile Met Arg Leu Arg Ala Arg His Leu Arg Ala Arg Pro Arg Ala Lys
35 40 45

Val Ala Leu Tyr Ala Tyr Trp Leu Ala Ala Leu Lys Ile Met Phe Phe
50 55 60

Gln Phe Arg Leu His Ala Gln Arg Cys
65 70

<210> 6796
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 6796

Lys Tyr Arg Leu Trp His Arg Leu Trp Arg Phe Leu Pro Pro Ser Leu
1 5 10 15

Ala Ala Lys Ala Arg Arg Ala Leu Asp Phe Met Asn Lys Lys Ala Leu
20 25 30

Arg Arg Ala Gly Thr Arg Ala
35

<210> 6797

<211> 46
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6797

Lys Trp Arg Trp Leu Thr Lys Leu Leu Arg Leu Leu Lys Lys Thr Ala
 1 5 10 15

Leu Ala Ser Ala Arg Gly Leu Arg Thr Pro Arg Met Glu Pro Val His
 20 25 30

Leu Tyr Gln Ala Tyr His Lys Arg Cys Ala Met Lys Met Leu
 35 40 45

<210> 6798
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6798

Lys Tyr Lys Trp Trp Lys Arg Leu Leu Arg Phe Leu Arg Pro Ala Arg
 1 5 10 15

Ala Pro Cys Ala Lys Phe
 20

<210> 6799
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6799

Arg Leu Arg Phe Phe Lys Lys Phe Tyr Lys Lys Phe Pro Arg Arg Leu
 1 5 10 15

Ala Leu Ala Ala Leu Cys Asp Arg Pro Phe Lys Leu Phe Arg Gly Trp
 20 25 30

Asp His His Leu

35

<210> 6800
 <211> 48
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6800

Arg Trp Arg Trp Tyr Pro Arg Leu Tyr Lys Arg Leu Lys Arg His His
 1 5 10 15

Lys Cys Gly Val Lys Leu Ala Tyr Ile Phe Met Ala Cys Pro Lys Leu
 20 25 30

Leu Trp Asp Lys Leu Leu Asn Lys Lys Ala Gln Leu Leu Leu Tyr Leu
 35 40 45

<210> 6801
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6801

Arg Leu Lys Phe Leu Lys Arg Trp Leu Arg Arg Leu Lys Cys Phe Leu
 1 5 10 15

His Phe Asn Ile
 20

<210> 6802
 <211> 65
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6802

Arg Tyr Arg Leu Leu Gln Lys Ile Phe Arg Leu Trp Asn Arg Ser Val
 1 5 10 15

Lys Leu Arg Cys Asp Lys Thr Asn Arg Cys Lys Leu Tyr Cys Ala Ala

20

25

30

Leu Leu Thr Lys Leu Ala Leu Lys Ala Asn Leu Ser Lys Lys Ala Leu
 35 40 45

Arg Tyr Lys Ala Asp Leu Lys Gln Arg Asn Glu Lys His Phe Ala Phe
 50 55 60

Asp
 65

<210> 6803
 <211> 43
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6803

Met Leu Arg Trp Leu Lys Arg Trp Met Arg Leu Phe Lys Arg Ala Ile
 1 5 10 15

Lys Asn Gln Gln Ser Glu Ala His Ala Met Ala Leu Ala Ala Met Leu
 20 25 30

Lys Ile Asn Ala Lys Leu Lys Asn His Pro Leu
 35 40

<210> 6804
 <211> 38
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6804

Lys Phe Arg Trp Leu Lys Arg Leu Leu Arg Leu Leu Pro Arg Ala Met
 1 5 10 15

Arg Glu Asp Met Ala Lys Val Gln Arg Pro His Met Pro Arg Ala Leu
 20 25 30

Trp Lys Asp Met Met Arg
 35

<210> 6805
 <211> 55
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6805

Lys Leu Arg Met Leu Pro Lys Trp Trp Arg Arg Tyr Cys Gln Ala Leu
 1 5 10 15

Leu Ser Leu Lys Gly Leu Met Arg Pro Ala Asp Ala Leu Gly Cys Arg
 20 25 30

Ala Ala Lys Met Lys Gly Met Ile Leu Arg Arg Pro Arg Tyr Asp Leu
 35 40 45

Ala Lys Lys Cys Trp Ala Arg
 50 55

<210> 6806
 <211> 44
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6806

Lys Met Lys Met Leu Arg Lys Phe Phe Arg Phe Tyr His Ser Lys Asp
 1 5 10 15

Gly Asn Met Arg Ala Met Leu Arg Ala Ala Leu Phe Leu Leu Leu Arg
 20 25 30

Ile Ala Met Arg Tyr Lys Gln Lys Leu Thr Arg Leu
 35 40

<210> 6807
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6807

Leu Leu Lys Tyr Phe Cys Lys Phe Leu Lys Lys Leu Lys Lys Ala His
 1 5 10 15

Val Leu Lys Arg Ala Asp Leu
 20

<210> 6808

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6808

Lys Leu Lys Leu Phe Pro Lys Leu Phe Arg Phe Met Gln Arg Leu Leu
 1 5 10 15

Cys Phe Lys Gln
 20

<210> 6809

<211> 81

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6809

Arg Ile Lys Phe Leu Thr Lys Leu Leu Lys Tyr Leu Thr Lys Asn Arg
 1 5 10 15

His Asn Leu Ala Arg Arg Leu Lys Gln Arg Asp Ala Leu Leu Trp Leu
 20 25 30

Asn Asp Val Leu Thr Phe Pro Ala Pro Trp Arg Met Lys Arg Lys Leu
 35 40 45

Leu Gln Lys Tyr Leu Leu Asp Ala Lys Gly Arg Asp Leu Asn Arg Leu
 50 55 60

Pro Val Cys Ala Ala Val Ser His Lys Arg Arg Ser Leu Gly Asn Arg
 65 70 75 80

Ala

<210> 6810
 <211> 63
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6810

Lys Leu Arg Met Ile Lys Arg Leu Leu Lys Met Leu Pro Ser Leu Ala
 1 5 10 15

Asn Ile Asn His Leu Arg Gln Leu Val Gln Cys Glu Lys Arg Lys Arg
 20 25 30

Asp Ser Lys Leu Ala Ala Lys Ala Arg Leu Asn Arg Tyr Arg Ala Arg
 35 40 45

Glu Lys Met Ile Ala Val Leu Arg Arg Arg Asp Ala Trp Lys Ala
 50 55 60

<210> 6811
 <211> 67
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6811

Trp Phe Arg Leu Leu Arg Lys Phe Trp Lys Ile Leu Arg Arg Trp Leu
 1 5 10 15

Lys Lys Glu Lys Ala Asp Gln Arg Pro Met Lys Ala Glu Val Leu Ala
 20 25 30

Met Ala Arg Asn Lys Val Gln Lys Pro Gln Leu Ile Cys Ala Ala Leu
 35 40 45

Trp Lys Phe Ser Arg Asn Leu Ala Ala Lys Lys Leu Gly Arg Met Phe
 50 55 60

Ser Ala Asn
 65

<210> 6812
 <211> 53
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6812

Met Trp Lys Phe Met Arg Lys Leu Ile Arg Lys Ile Lys Arg Ala Lys
 1 5 10 15

Lys His Gln Met Arg Cys Leu Leu Leu Gly Tyr Met Met Ala Lys Arg
 20 25 30

Gly Thr Ile Leu Arg Ala Leu Lys Thr Gly Arg Ala Ser Lys Arg Ala
 35 40 45

Asp Ala Ala Tyr Met
 50

<210> 6813
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6813

Trp Ile Arg Phe Leu Lys Lys Leu Ile Lys Arg Phe Arg Arg Leu Ala
 1 5 10 15

Lys Trp Val Ala Asn Glu Ala
 20

<210> 6814
 <211> 59
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6814

Ile Leu Arg Leu Phe Lys Lys Leu Trp Arg Arg Phe Arg Arg Ala Pro
 1 5 10 15

Trp Ile Ala Ser Gln Leu Ala Ile Glu Met Arg Leu Ala Lys Lys Leu
 20 25 30

Gly Ala Thr Thr Val Arg His Trp Gly Ala Ser Ala Lys Thr Trp Arg
 35 40 45

Trp Lys Arg Leu Leu Tyr Ala Phe Ala Trp Leu
 50 55

<210> 6815
 <211> 45
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6815

Arg Trp Lys Phe Leu Cys Lys Phe Trp Lys Phe Phe Arg Lys Arg Phe
 1 5 10 15

Pro Val Ala Ala Ile Leu Ala Ala Lys Leu Gln Ser Met Lys Thr Leu
 20 25 30

Arg His Lys Tyr Ala Lys Lys Lys Ser Glu Ala Ala Lys
 35 40 45

<210> 6816
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6816

Arg Phe Arg Leu Leu Lys Lys Leu Phe Arg Lys Leu Lys His Ala Lys
 1 5 10 15

Pro Leu Phe Ala Phe Ala Thr Cys Gly Ala Lys Ala Val Ser
 20 25 30

<210> 6817
 <211> 51
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6817

Leu Met Arg Phe Met Arg Arg Met Trp Lys Leu Leu Cys Lys Glu Ala
 1 5 10 15

Ile Ala Leu Lys His Tyr Ala Ala Gln Lys Lys Arg Arg Ala Tyr Ala
 20 25 30

Ala Lys Ala Tyr Ile Ser Ala Leu Thr Glu Leu Leu Arg Gly Tyr Ala
 35 40 45

Arg Arg Ala
 50

<210> 6818

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6818

Phe Phe Lys Phe Leu Arg Arg Leu Leu Arg Lys Leu Arg Thr Cys Leu
 1 5 10 15

Val Ile Thr Met Gly Leu Leu Arg Arg Thr Lys Leu Tyr Arg Val Leu
 20 25 30

Thr Leu Arg Ala
 35

<210> 6819

<211> 52

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6819

Tyr Leu Lys Tyr Leu Arg Lys Tyr Met Arg Leu Leu Arg Lys Leu Lys
 1 5 10 15

Asn Lys Lys Asp Lys Ala Ile Lys Gln Ala Trp Ile His Leu Glu Lys

20

25

30

Ala Leu Lys Trp Arg Gly Pro Asn Arg Phe Ile Phe Leu Tyr Phe Lys
 35 40 45

Pro Ala Thr Leu
 50

<210> 6820
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6820

Lys Ile Arg Leu Phe Arg Lys Phe Leu Arg Tyr Leu His Lys Ala Asn
 1 5 10 15

Lys Leu Pro Ala Ile Gly Lys Leu Ser Gly Arg Val Lys Leu Ser Lys
 20 25 30

<210> 6821
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6821

Arg Leu Arg Ile Ile Cys Lys Phe Phe Arg Lys Leu Lys Lys Lys Ala
 1 5 10 15

Lys Ala Pro Val Cys Cys Arg Leu Ala Asn Leu Ala Leu Ser Tyr Gly
 20 25 30

Leu Phe Trp Leu Arg Thr Asn Ile
 35 40

<210> 6822
 <211> 38
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6822

Arg	Met	Arg	Tyr	Leu	His	Lys	Leu	Leu	Arg	Tyr	Phe	Lys	Cys	Ala	Glu
1				5					10					15	

Trp	His	Leu	Ala	Ala	Leu	Phe	Cys	Lys	Cys	Leu	Arg	Ile	Glu	Leu	Arg
		20						25					30		

Met	Phe	Lys	Trp	Ala	Arg
		35			

<210> 6823

<211> 43

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6823

Lys	Tyr	Lys	Tyr	Leu	Pro	Arg	Phe	Leu	Arg	Ile	Tyr	Thr	Thr	Lys	Thr
1				5					10					15	

Asn	Tyr	Leu	Lys	Arg	Ala	Gly	Ile	Glu	Trp	Lys	Arg	Phe	Leu	Arg	Ala
		20						25					30		

Ala	His	Thr	Leu	Asn	Lys	Ala	Ala	Leu	Lys	Ala
		35				40				

<210> 6824

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6824

Phe	Phe	Lys	Leu	Leu	Lys	Arg	Leu	Tyr	Lys	Leu	Leu	Gln	Arg	Arg	Ala
1			5						10					15	

Pro	Leu	Tyr	Arg	Val
		20		

<210> 6825

<211> 45

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6825

Arg Met Arg Phe Tyr Lys Arg Leu Leu Arg Leu Phe Thr Arg Leu Leu
1 5 10 15

Leu Leu Arg Met His Met Val Lys Ala Arg Ala Gln Lys Val Gly Met
20 25 30

Asn Gln Arg Leu Ala Asn Glu Ala Lys Tyr Gly Gln Arg
35 40 45

<210> 6826

<211> 31

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6826

Met Met Lys Ile Leu Asn Arg Leu Leu Lys Lys Trp Arg Arg Leu Phe
1 5 10 15

Asn Ala Ala Lys Tyr Arg Leu Arg Thr Tyr Ala Leu Phe Arg Glu
20 25 30

<210> 6827

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6827

Phe Leu Lys Leu Phe Thr Lys Ile Leu Arg Arg Leu Asn Arg Leu Leu
1 5 10 15

Gln Arg Thr Met Asp
20

<210> 6828

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6828

Lys Leu Arg Leu Leu Arg Arg Leu Leu Lys Phe Met Lys Cys Arg Ser
1 5 10 15

Ala His Phe Gln
20

<210> 6829

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6829

Phe Leu Arg Leu Leu Arg Arg Leu Trp Arg Lys Met Arg Pro Ala Leu
1 5 10 15

Arg Pro Phe Arg Gln Ala Leu Phe Arg Ala Thr Cys Ile Phe
20 25 30

<210> 6830

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6830

Phe Phe Arg Leu Leu Lys Lys Tyr Leu Lys Lys Ile Thr Lys Phe Ala
1 5 10 15

Asp Leu Leu Gly Arg Leu Thr
20

<210> 6831

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6831

Lys Ile Arg Ile Leu Arg Lys Leu Leu Arg Lys Leu Lys Asn Phe Asn
 1 5 10 15

Ala Thr Ala Trp Ala Lys Trp Lys Lys Leu
 20 25

<210> 6832

<211> 66

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6832

Leu Tyr Arg Phe Met Lys Lys Leu Trp Lys Leu Tyr His Lys Leu Asp
 1 5 10 15

Arg Arg Thr Cys Met Ala Gly Arg Arg Arg Ala Arg Leu Leu Ala Tyr
 20 25 30

Ile Glu Ala Asn Lys Leu Ala Val Leu Leu Tyr Pro Gln Leu Asp Ala
 35 40 45

Thr Leu Glu Lys Gln Lys Arg Lys Lys Lys Met Arg Tyr Thr Arg His
 50 55 60

Thr Phe
 65

<210> 6833

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6833

Tyr Ile Lys Ile Leu Lys Arg Tyr Leu Arg Trp Leu Arg Arg Asp Leu
 1 5 10 15

Leu Val Cys Trp Lys Ala Pro Ala Arg Asn Arg Ala Ser
 20 25

<210> 6834
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6834

Lys Leu Lys Leu Phe Arg Arg Leu Leu Lys Lys Trp Thr His Lys Leu
 1 5 10 15

Lys His Arg Ala Thr Ile Phe Leu Ser Ala Ile Arg Leu Lys
 20 25 30

<210> 6835
 <211> 44
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6835

Met Ile Arg Tyr Phe Lys Lys Leu Ile Lys Arg Ile Thr Arg Gln Lys
 1 5 10 15

Tyr Gly Cys Glu Arg Ala Arg Ala Ile Ile Lys Lys Tyr Leu Thr Arg
 20 25 30

Ala Ala Ala Leu Glu Arg Cys Ala Arg Leu Leu Asn
 35 40

<210> 6836
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6836

Leu Leu Lys Leu Met Arg Lys Ile Leu Lys Leu Phe His Lys Thr Ala
 1 5 10 15

Ser Lys Gln Arg Cys Ile Leu Asp Ala Ile Leu Trp Pro
 20 25

<210> 6837
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6837

Arg Trp Lys Phe Phe Arg Arg Phe Tyr Arg Leu Trp Arg Lys Lys Phe
 1 5 10 15

Trp Leu Leu Val Lys Pro Lys Ala Leu Glu Lys Leu Asp Ala Ile Leu
 20 25 30

Glu Gly

<210> 6838
 <211> 26
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6838

Leu Leu Lys Met Phe Gln Lys Leu Phe Arg Arg Leu Ser Lys Ile Arg
 1 5 10 15

Arg Ser Glu Lys Cys Tyr Ala Ala Ala Trp
 20 25

<210> 6839
 <211> 38
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6839

Ile Leu Lys Phe Phe Cys Arg Phe Leu Arg Lys Met Gln Lys Lys Asp
 1 5 10 15

Leu Leu Phe Arg Arg Leu Ser Phe Trp Lys Glu Thr Tyr Leu Lys Leu
 20 25 30

Leu Ala Arg Phe Leu Asn
35

<210> 6840
<211> 52
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 6840

Arg Leu Lys Phe Met Arg Arg Ile Leu Lys Arg Phe Lys Cys Ile Glu
1 5 10 15

Ala Gly Ile Leu Val Gln Ala Ala Arg Lys Val Ser Lys Ala Ala Ala
20 25 30

Leu Arg Arg Glu Gly Trp Gln Met Leu Gly Leu Lys Ile Lys Ser Arg
35 40 45

Ala Lys Leu Gln
50

<210> 6841
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 6841

Arg Met Lys Phe Leu Arg Arg Phe Phe Lys Arg Trp Thr Lys Gln Ala
1 5 10 15

Leu Leu His Leu Leu
20

<210> 6842
<211> 81
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 6842

Arg Leu Arg Phe Phe Gln Arg Met Phe Lys Arg Ile Lys Lys Trp Lys
 1 5 10 15

Ala Pro Lys Glu Gly Gln Ala Pro Ile Leu Cys Leu Leu Arg Ala Glu
 20 25 30

Ala Trp Thr Ala Tyr Ala Leu Arg Leu Ala Arg Gly Asp Ser Gly Arg
 35 40 45

Leu Lys Lys Asn Arg Ala Lys Gln Asn Cys Leu Thr His Lys Cys Glu
 50 55 60

Ala Val Lys Ala Gln Lys Lys Asp Lys Gly Phe Arg Arg Arg Ala Lys
 65 70 75 80

Leu

<210> 6843
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6843

Lys Leu Arg Leu Ile Arg Arg Leu Ile Lys Leu Phe Lys Lys His Leu
 1 5 10 15

Asp Leu Thr Leu Ala Phe Lys Leu Trp Leu Lys Lys Ala Leu Thr His
 20 25 30

<210> 6844
 <211> 26
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6844

Lys Leu Arg Leu Leu Ser Arg Met Ile Arg Arg Leu Lys Lys Leu Phe
 1 5 10 15

Arg Ala Arg Glu Pro Val Ala Asn Thr Gln

20

25

<210> 6845
 <211> 70
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6845

Lys Phe Arg Leu Phe Arg Arg Tyr Met Lys Ile Tyr Gln Arg Lys Asp
 1 5 10 15

Leu Arg Ala Lys Ser Leu Lys Ala Gly Val Ala Ala Ala Tyr Lys Lys
 20 25 30

Arg Leu Val Leu Arg Lys Gly Ala Trp Phe Lys Ile Phe Ala Pro Trp
 35 40 45

Arg Leu Ala Ile Lys Leu Arg Gln Phe Asp Tyr Ala Ala Arg Ala Phe
 50 55 60

Phe Met Leu Cys Leu Ile
 65 70

<210> 6846
 <211> 38
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6846

Met Leu Arg Phe Phe Ser Lys Leu Leu Lys Arg Leu Arg Pro Glu Met
 1 5 10 15

Leu Gln Met Leu Ala Lys Lys Leu Leu Tyr Ser Gln Asn Arg Leu Ser
 20 25 30

Arg Arg Thr Ser Leu Leu
 35

<210> 6847
 <211> 83
 <212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6847

Met Phe Lys Ile Ile Lys Lys Tyr Trp Lys Trp Met Lys Ser Ala Lys
1 5 10 15

Arg Cys Pro Cys Asp Asp Ala Leu Arg His Asp Leu Ile Lys Ala Lys
20 25 30

Ala Gln Lys Thr Arg Gln Gly Trp Cys Pro Ala Lys Lys Val Lys Arg
35 40 45

Leu Leu Ile Thr Phe Val Arg Glu Leu Glu Lys Arg Ala Tyr Leu Arg
50 55 60

Lys Ala Leu Leu Arg Lys Phe Phe Gln Ala Leu Leu Leu Ala Ser Glu
65 70 75 80

Leu Ala Lys

<210> 6848

<211> 58

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6848

Met Trp Lys Leu Leu His Lys Leu Phe Arg Arg Phe Ser Lys His Trp
1 5 10 15

Thr Ala Asp Val Arg Lys Lys Arg Gly Leu Ala Asp Glu Tyr Phe Lys
20 25 30

Leu Arg Ala Tyr Lys Arg Val Arg Leu Arg Lys Ala Lys Gly Leu Cys
35 40 45

Glu Ala Ala Lys Ala Val Ser Asp Ile Asn
50 55

<210> 6849

<211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6849

Leu Leu Arg Ile Phe Lys Lys Leu Tyr Lys Phe Ile Arg Cys Thr Ser
 1 5 10 15

Tyr Leu Pro Ala Lys Arg Trp Lys Ala Thr Lys Gln Ala
 20 25

<210> 6850
 <211> 49
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6850

Phe Ile Arg Leu Ile Pro Lys Ile Tyr Lys Tyr Leu His Lys Phe Gly
 1 5 10 15

Tyr Trp Thr Trp Ala Leu Leu Ala Arg Pro Arg Asp Trp Arg Leu Glu
 20 25 30

Ala Leu Leu Leu Thr Lys Ala Cys Leu Leu Lys Ala Asp Arg Lys Val
 35 40 45

Lys

<210> 6851
 <211> 39
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6851

Leu Leu Lys Trp Leu Arg Lys Phe Leu Arg Lys Trp Lys Cys Ala Ala
 1 5 10 15

Asp Ala Ala Asn Phe Arg Asn Tyr Lys Ala Lys Trp Lys Lys Leu Asp

20

25

30

Ser Asn Arg Val Lys Asn Met
35

<210> 6852

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6852

Lys Trp Arg Phe Leu Thr Lys Leu Tyr Lys Lys Phe Ser Arg Arg Pro
1 5 10 15

Lys Leu Leu Pro Arg Val Asn Ala Leu Asp Lys Ser Val Ala Ile Gln
20 25 30

Lys Ala Leu Ser
35

<210> 6853

<211> 62

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6853

Leu Leu Arg Trp Phe Arg Arg Phe Trp Lys Phe Leu Pro Cys Arg Thr
1 5 10 15

Asp Tyr Lys Arg Arg Val Gly Arg Leu Leu Phe Leu Tyr Lys Lys Leu
20 25 30

Val Arg Glu Lys Glu Arg Ala Pro Arg Leu Leu Tyr Lys Gly Leu Ile
35 40 45

Leu Gly Leu Gln Ile Leu Ala Leu Cys Arg Phe Ser Lys Leu
50 55 60

<210> 6854

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6854

Phe Ile Lys Leu Leu Arg Lys Leu Met Arg Arg Tyr Pro Asn Trp Arg
1 5 10 15

Trp Ala Ala Ala Gln Tyr Arg Leu Lys His Trp Phe Arg Trp Ala Arg
20 25 30

Leu His Ser Leu Lys Arg Glu Glu
35 40

<210> 6855

<211> 42

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6855

Trp Leu Lys Trp Leu Thr Arg Leu Leu Arg Arg Leu Thr Asn Leu Met
1 5 10 15

Lys Leu Lys Ala Lys Asn Cys Lys Gly Leu Tyr Gly Thr Lys Lys Phe
20 25 30

His Asn Leu Arg Ala Ser Leu Glu Leu Gly
35 40

<210> 6856

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6856

Leu Trp Arg Tyr Met Gln Arg Tyr Trp Lys Leu Leu Arg Cys Trp Arg
1 5 10 15

Leu Lys Leu Arg
20

<210> 6857
 <211> 80
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6857

Trp Ile Lys Phe Trp Lys Arg Ile Leu Arg Ile Tyr Cys Lys Glu Lys
 1 5 10 15

Ala Asp His Lys Met Pro Phe Lys Ser Val Arg Leu Pro Ala Ala Ser
 20 25 30

Lys Ala Asn Leu Met Arg Ala Leu Leu Thr Trp Lys Gln Met Val Lys
 35 40 45

Arg Ala Ala Ala Leu Leu Leu Arg Arg Ala Arg Asp Arg Asn Lys Leu
 50 55 60

Ala Lys Gln Thr Ala Asp Tyr Lys Leu Lys Arg Val Arg Val Ala Ile
 65 70 75 80

<210> 6858
 <211> 58
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6858

Tyr Met Arg Phe Phe Gln Arg Ile Phe Arg Met Leu Lys Thr Lys Phe
 1 5 10 15

Arg Leu His Lys Thr Leu Lys Ala Arg Lys Val Met Val Ala His Ile
 20 25 30

Arg Arg Ala Gln Ala Arg Lys Leu Ala Cys Phe Leu Ala Ala Leu Asp
 35 40 45

Glu Glu Leu Leu Leu Ala Arg Gly Ile Ile
 50 55

<210> 6859

<211> 42
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6859

Phe Phe Arg Leu Leu Arg Lys Phe Leu Arg Arg Trp Cys Arg Lys Arg
 1 5 10 15

Asp Lys Lys Leu Ala Arg Leu Val Cys Ala Ala Lys Arg Gln Asp Asn
 20 25 30

Ala Gln Ala Ala Met Ser Trp His Leu Asn
 35 40

<210> 6860
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6860

Lys Leu Arg Leu Leu Cys Lys Leu Phe Arg Ile Phe Lys Asn His Gly
 1 5 10 15

Leu Gln Arg Ala Ala
 20

<210> 6861
 <211> 84
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6861

Ile Leu Lys Trp Trp Arg Arg Leu Leu Lys Arg Phe Lys Lys Ala Arg
 1 5 10 15

Leu Arg Thr Lys Gly Trp Val Leu Tyr Leu Lys Phe Ala Tyr Asp Pro
 20 25 30

Lys Leu Lys Arg Asn Arg Arg Phe Lys Ala Trp Trp Leu Tyr Ser Thr

35

40

45

Glu Lys Lys Cys Ala Thr Ala Ala Ala Glu Thr Ala Cys Lys Asn Thr
 50 55 60

Met Arg Arg Gly Arg Asn Gly Asp Leu Val Lys Glu Leu Gln Pro Ala
 65 70 75 80

Ala Arg Leu Leu

<210> 6862

<211> 38

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6862

Arg Leu Arg Tyr Ile Arg Arg Phe Phe Arg Trp Ile Arg Lys Arg Asn
 1 5 10 15

Gly Arg Thr Cys Leu Asn Leu Ala Leu Ala Ile Cys His Asp Ala Lys
 20 25 30

Ile Ala Lys Leu Leu Met
 35

<210> 6863

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6863

Leu Leu Arg Leu Met Ser Lys Tyr Met Lys Lys Leu Arg Arg Gly Asn
 1 5 10 15

Tyr Leu Cys Leu Ser
 20

<210> 6864

<211> 78

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6864

Trp Leu Lys Leu Leu Lys Arg Trp Tyr Arg Lys Phe Arg Thr Ala Ala
1 5 10 15

Thr Arg Ile Leu Glu Leu Ala Leu Ala Gly His Pro Gln Lys Phe Ala
20 25 30

Arg Leu Leu Lys Arg Thr Ala Lys Lys Ile Arg Ala His Lys Lys Leu
35 40 45

Thr Thr Arg Leu Arg Ser Leu Leu Lys Trp His Ala Thr Tyr Leu Tyr
50 55 60

Trp His Ala Ala Met Cys Val Gly Glu Ala Pro Phe Arg Thr
65 70 75

<210> 6865

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6865

Leu Leu Lys Ile Leu Thr Lys Tyr Phe Lys Arg Ile Cys Arg Leu Ala
1 5 10 15

Asp Ala Lys Leu
20

<210> 6866

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6866

Arg Phe Lys Leu Leu Cys Lys Phe Tyr Lys Arg Trp Arg Thr Pro Leu
1 5 10 15

Arg Phe Arg Tyr Ala Leu Gln Phe Ser Gly Ala Arg Lys Leu
 20 25 30

<210> 6867
 <211> 53
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6867

Arg Leu Arg Met Trp Arg Lys Leu Phe Arg Met Trp Arg Arg Val Ala
 1 5 10 15

Gln Leu Ala Lys Asn Arg Ala Ala Ala Ala Tyr Lys Ala Lys Leu Lys
 20 25 30

Val Ala Met Asn Tyr Ala Phe Arg Tyr Asn Ser Ala Arg Arg Trp Leu
 35 40 45

Ala Met Leu Phe Trp
 50

<210> 6868
 <211> 39
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6868

Lys Phe Arg Leu Leu Arg Arg Leu Leu Arg Met Phe Ser Cys Ile Lys
 1 5 10 15

Arg Asn Leu Glu Leu Asp Trp Ala Ile Ala Arg Lys Lys Cys Asn Ala
 20 25 30

Trp Lys Arg Asp Leu Lys Tyr
 35

<210> 6869
 <211> 53
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6869

Arg	Phe	Arg	Phe	Leu	Pro	Lys	Phe	Leu	Lys	Lys	Leu	Gln	Lys	Gln	Phe
1				5					10					15	

Arg	Ala	Leu	Asn	Leu	Thr	Ala	Arg	Arg	Lys	Met	Glu	Thr	Ala	Gly	Lys
			20					25					30		

Lys	Met	Leu	Leu	Asn	Arg	Tyr	Lys	Leu	Ala	Ala	Ala	Lys	Thr	Ala	Ala
		35					40					45			

Leu	Phe	Leu	Ala	Gln
				50

<210> 6870

<211> 61

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6870

Arg	Leu	Lys	Trp	Phe	Cys	Lys	Phe	Leu	Arg	Arg	Phe	Lys	Arg	Arg	Arg
1				5					10					15	

Arg	Arg	Gln	Arg	His	Leu	Thr	Pro	Ala	Arg	Ile	Val	Leu	Lys	Ala	Val
			20					25					30		

Ala	Ala	Ala	Arg	Phe	Lys	Arg	Gln	Lys	Leu	Lys	Leu	Leu	Lys	Pro	His
		35					40					45			

Thr	Ala	Ala	Asp	Pro	Ala	Trp	Gly	Val	Pro	Phe	Gly	Val
	50					55					60	

<210> 6871

<211> 37

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6871

Leu	Leu	Arg	Leu	Leu	Lys	Lys	Met	Leu	Lys	Leu	Leu	Arg	His	Val	Thr
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

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<210> 6872
<211> 32
<212> PRT
<213> Artificial Sequence
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<220>
<223> Computer-generated peptide variant

Phe Phe Lys Leu Leu Lys Arg Tyr Met Arg Lys Leu Arg Gln Arg Glu
1 5 10 15

Glu Gln Lys Leu Met Leu Leu Ala Thr Cys Leu Val Arg Lys Ala Arg
20 25 30

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<210> 6873
<211> 60
<212> PRT
<213> Artificial Sequence
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<220>
<223> Computer-generated peptide variant

<400> 6873

Arg Tyr Lys Trp Ile His Arg Met Leu Lys Arg Tyr Pro Lys Asn Lys
1 5 10 15

Val Leu Ala Lys Ala Gln Ser Arg Gly Ala Phe Arg Asp Leu Val Ala
20 25 30

Leu Ala Ala Arg Ala Thr Arg Leu Pro Lys Ala Gln Leu Lys Leu Lys
35 40 45

Arg Ala Arg Trp Phe Ala Phe Ala Trp Met Leu Ala
50 55 60

<210>	6874
<211>	59
<212>	PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6874

Lys Phe Arg Leu Met Lys Lys Ile Trp Lys Phe Tyr Thr His Ala Ala
1 5 10 15

Leu Ile Val Gln Arg Ile Leu Lys Ala Lys Gln Lys Arg Arg Arg Gln
20 25 30

Tyr Arg Ala Ala Leu Val Leu Arg Ala Lys Lys Gly Leu Tyr Ala Lys
35 40 45

Thr Gln Ala Leu Met Met Asp Pro Ala Leu Gly
50 55

<210> 6875

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6875

Ile Leu Lys Ile Met Lys Lys Leu Leu Lys Tyr Trp Lys Arg Ser Ile
1 5 10 15

Ser His Ala Asn Ala Lys Ala Arg Met Leu Glu Met Ala
20 25

<210> 6876

<211> 38

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6876

Met Ile Lys Leu Tyr Arg Lys Leu Tyr Lys Leu Trp Lys Pro Glu Met
1 5 10 15

Lys Gly Leu Phe Arg Thr Lys Gly Leu His Ser Lys Trp Asn Ala Leu
20 25 30

Ala Arg Arg Arg Leu Ser
35

<210> 6877
<211> 42
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 6877

Lys Met Arg Trp Leu Asn Lys Leu Leu Arg Leu Trp Arg His Leu Thr
1 5 10 15

Ile Tyr Ile Leu Ala His Trp Ala Asn Leu Leu Ala Lys Cys Lys Leu
20 25 30

Lys Leu Leu Lys Arg Tyr Gly Arg Glu Arg
35 40

<210> 6878
<211> 45
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 6878

Phe Phe Lys Tyr Tyr Arg Lys Leu Phe Arg Trp Phe Ser Lys Gly Ala
1 5 10 15

Ala Gly Lys Arg Arg Ser Asn Ala Leu Ser Asp Arg Ala Ala Lys Pro
20 25 30

Ala Cys Lys Ala Ser Arg Tyr Leu Arg Leu Lys Arg Ser
35 40 45

<210> 6879
<211> 58
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 6879

Arg Leu Lys Trp Leu Lys Lys Phe Leu Lys Met Leu Lys His Arg Arg
 1 5 10 15

Leu Lys Phe Leu Asn Arg Leu Ala Pro Met Leu Ser Asn Pro Tyr Lys
 20 25 30

Met Pro Ala Cys Arg Tyr Thr Ala Arg Arg Met Lys Ile Gln Ala Leu
 35 40 45

Leu Cys Asp Ala Lys Asn Ala Glu Asn Lys
 50 55

<210> 6880
 <211> 27
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6880

Tyr Leu Arg Tyr Phe Lys Lys Leu Phe Arg Arg Ile Asn Lys Gln Leu
 1 5 10 15

Leu Lys Ala Ala Ala Cys Met Gln Lys Gln Val
 20 25

<210> 6881
 <211> 43
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6881

Arg Leu Arg Leu Leu Arg Arg Leu Phe Lys Lys Phe Thr Cys Tyr Leu
 1 5 10 15

Leu Arg Trp Gly His Lys Phe Arg Val Ser Phe Lys Cys Arg Ala Ala
 20 25 30

Lys Ala Arg Asn Met Arg Leu Lys Ala Asp Phe
 35 40

<210> 6882

<211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6882

Arg Phe Lys Tyr Tyr Thr Arg Leu Leu Arg Trp Phe Lys Lys Leu Val
 1 5 10 15

Lys Leu Arg Gly Ala Glu Leu Leu Thr Ala His Ala Arg Gly
 20 25 30

<210> 6883
 <211> 38
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6883

Ile Phe Arg Met Ile Arg Arg Tyr Leu Arg Tyr Leu Lys Arg Pro Lys
 1 5 10 15

Leu Leu Arg Arg Lys Asn Ser Leu Arg Leu Leu Met Leu Leu Ala Thr
 20 25 30

Lys Cys Phe Ala Gln Cys
 35

<210> 6884
 <211> 58
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6884

Met Trp Lys Leu Leu Pro Lys Ile Leu Arg Arg Leu Lys His Phe Met
 1 5 10 15

Lys Leu His Lys Glu Leu Arg Lys Arg Arg Lys Met Ala Leu Leu Lys
 20 25 30

Arg Thr Ala Arg Arg Ile Trp Val Gly Asn Thr His Ala Asp Arg Met

35

40

45

Gln Cys Ser Asn Arg His Ala Leu Leu Lys
 50 55

<210> 6885

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6885

Phe Leu Lys Phe Ile Arg Arg Trp Leu Lys Leu Phe Asn Pro Val Ala
 1 5 10 15

Ala Arg Lys Leu Lys Leu Lys Arg Asp Trp Lys Trp Met Gln Leu Asn
 20 25 30

Lys Ala Lys
 35

<210> 6886

<211> 100

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6886

Arg Met Lys Met Trp Lys Lys Leu Leu Arg Lys Leu Asn Lys Leu Leu
 1 5 10 15

Leu Tyr Leu Gln Phe Lys Arg His Ala Gln Ala Ala Leu Pro Leu Lys
 20 25 30

Asn Arg Arg Ala Arg Phe Asn Ser Leu Asp Leu Phe Lys Asn Arg Thr
 35 40 45

Arg Ser Cys Lys Val Leu Ala Lys Asn Asp Lys Leu Lys Leu Lys Asp
 50 55 60

His Ile Leu Arg Arg Asp Leu Leu Leu Lys Asp Arg Asp Thr Cys Asn
 65 70 75 80

Met Lys Arg Phe Ala Leu Lys Tyr Ile Phe Leu Gly Asp Asn Phe Ala
 85 90 95

Ser Arg Arg Gly
 100

<210> 6887
 <211> 27
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6887

Lys Leu Lys Leu Trp Arg Arg Tyr Leu Lys Arg Met Thr Asn Ala Ala
 1 5 10 15

Leu Lys Ala Asn Leu Ile Leu Phe Lys Thr Lys
 20 25

<210> 6888
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6888

Trp Met Lys Tyr Leu Arg Lys Leu Leu Lys Leu Phe Cys Ser Cys Ala
 1 5 10 15

Arg Ile His Thr Arg Ala Arg Ala
 20

<210> 6889
 <211> 73
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6889

Arg Ile Lys Met Phe Arg Arg Tyr Leu Lys Arg Tyr Lys Asn Gly Thr
 1 5 10 15

Arg Ala Pro Asp Trp Asp Leu Arg Ala Ser Ala Ser Leu Leu Ala Leu
 20 25 30

Lys Arg Arg Lys Ser Leu Gly Val His Lys Gly Ala Ala Lys Arg Cys
 35 40 45

Leu Arg Lys Gly Phe Pro Leu His Ser Lys Leu Ala Ala Tyr Lys Trp
 50 55 60

Gln Arg Leu Arg Leu Ala Leu Pro Asn
 65 70

<210> 6890
 <211> 46
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6890

Leu Phe Lys Met Leu Arg Lys Leu Phe Arg Lys Phe Arg Lys Phe Ala
 1 5 10 15

Met Lys Arg Pro Ile Lys Leu Ala Leu Lys Leu Phe Lys Gly Ala Gly
 20 25 30

Ile Gln Thr Leu Leu Ile Val Lys Met Lys Ile Arg Leu Asn
 35 40 45

<210> 6891
 <211> 47
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6891

Met Tyr Lys Leu Phe Lys Arg Phe Leu Lys Arg Tyr Lys Thr Thr Thr
 1 5 10 15

Ala Tyr Leu Val Ala Tyr Arg Lys Arg Ala Arg Ala Arg Ala Asn Val
 20 25 30

Arg Ala Glu Lys Gln Lys Gly Asn Leu Glu Leu Val Phe Leu Ala

35

40

45

<210> 6892

<211> 52

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6892

Met Phe Lys Met Leu Arg Arg Phe Met Lys Met Ile Gln Gln Leu Arg
 1 5 10 15

Ala Leu Trp Ile Lys Tyr Lys His Lys Lys His Ala Ser Cys Leu Asn
 20 25 30

Ala Leu Trp Glu Leu Lys Ala Leu Ala His Ala Leu Arg Lys Lys Ile
 35 40 45

Tyr Asp Ala Lys
 50

<210> 6893

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6893

Arg Leu Lys Phe Phe Arg Arg Leu Phe Arg Tyr Leu Ser Ser Gly Asp
 1 5 10 15

Lys Leu Leu Leu Ala Arg
 20

<210> 6894

<211> 38

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6894

Lys Leu Lys Leu Trp Thr Lys Leu Leu Arg Met Phe Arg Lys Val Arg

Leu Lys Ala Met Lys Leu Cys Glu Thr Lys Gly Phe Met Ala Tyr Met

20 25 30

Met Lys Leu Ala Ser Cys
35

<210>	6895
<211>	91
<212>	PRT
<213>	Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 6895

Trp Phe Lys Phe Leu Thr Lys Phe Met Lys Phe Leu Cys His Ile Pro
1 5 10 15

Gln Ala Leu Ala Ala Lys Phe Lys Ala Pro Leu Arg Met Ile Lys Leu
20 25 30

Val Glu Ala Leu Leu Ala Arg Ala Lys Ala Tyr Pro Thr Cys Arg Ala
35 40 45

Ala Tyr Arg Lys Leu Val Leu Ala Arg Asp Gln Cys Cys Arg Glu Asn
50 55 60

Thr Lys Gln Ile Phe Ala Lys Asn Met Leu Lys Gly Leu Leu Arg Ala
65 70 75 80

Ala Thr Lys Gly Arg Leu Leu Arg Lys Ala Lys
85 90

<210>	6896
<211>	51
<212>	PRT
<213>	Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 6896

Arg Tyr Arg Leu Tyr Lys Lys Leu Trp Arg Lys Met His Pro Ile Arg
1 5 10 15

Lys Lys His Phe Ile Ala Leu Arg Ala Leu Ser Leu Ile His Arg Glu
 20 25 30

Cys Asn Ser Thr Leu Glu Ala Leu Gly Lys Trp Lys Leu Phe Arg Ala
 35 40 45

Lys Leu Lys
 50

<210> 6897
 <211> 53
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6897

Lys Leu Arg Phe Trp Lys Lys Leu Phe Lys Trp Met Lys Thr Asn Gln
 1 5 10 15

Ala Asn Val Ala Arg Ala Leu Lys Gly Cys Trp Ala Leu Asp Arg Lys
 20 25 30

Arg Met Arg Arg Ala Trp Val Ala Arg Leu Ala Leu Pro Trp Leu Leu
 35 40 45

Ala Glu Lys Arg Ala
 50

<210> 6898
 <211> 71
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6898

Ile Leu Arg Trp Met Arg Arg Met Phe Arg Leu Ile Lys Lys Leu Lys
 1 5 10 15

Leu Leu Lys Thr Arg Asp Arg Leu Met Ser Ala Arg Phe Glu Asp Gln
 20 25 30

Asp Gln Lys Arg Arg Val Ala Arg Ser Leu Cys Gly Arg Val Lys Arg

35

40

45

Leu Leu Leu Gln Ala Trp Lys Arg Leu Arg Ile Ile Leu Cys Arg Met
 50 55 60

Leu Ala Lys Met Ala Ser Phe
 65 70

<210> 6899

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6899

Phe Leu Lys Leu Ile Lys Arg Phe Leu Lys Lys Tyr Arg Pro Leu His
 1 5 10 15

Ala Arg Asn Gln
 20

<210> 6900

<211> 65

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6900

Met Phe Arg Trp Phe His Arg Trp Phe Lys Lys Leu Pro Lys Ala Ala
 1 5 10 15

Lys Lys Arg Leu Ser Glu Ala Asp Trp Arg Ala His Ala Met Ala Arg
 20 25 30

His His Gln Leu Leu Leu Leu Ile Tyr Lys Gln Glu Ala Lys Arg Lys
 35 40 45

Ala Ala Arg Met Thr Lys Ala Met Asn Gly Phe Leu Ala Asn Leu Val
 50 55 60

Leu
 65

<210> 6901
 <211> 81
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6901

Arg Leu Lys Leu Leu Pro Arg Leu Leu Arg Leu Tyr Gln Asn Lys Asn
 1 5 10 15

Trp His Val Ile Leu Leu Thr Asp Ala Lys Lys Gln Asn Gln Arg Asn
 20 25 30

Ala Ala Cys Leu Ile Thr Gly Ser Pro Lys Gln Met Arg Arg Arg Phe
 35 40 45

Tyr Ala Cys Trp His Lys Ile Leu Gly Arg Leu Ala Arg Ala Lys Ala
 50 55 60

Lys Lys Gln Thr Asn Arg Phe Leu Ala Lys Leu Ala Lys Glu Ala Met
 65 70 75 80

Lys

<210> 6902
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6902

Lys Leu Arg Tyr Phe Pro Arg Trp Leu Lys Lys Leu His Gln Cys Lys
 1 5 10 15

Cys Thr Arg Lys Arg Glu Gly Ser Leu Leu Leu Ala Met
 20 25

<210> 6903
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6903

Leu	Trp	Arg	Ile	Leu	Thr	Arg	Phe	Tyr	Arg	Arg	Leu	Arg	Arg	Leu	Arg
1				5					10					15	

Asp	Trp	Arg	Leu	Lys	Leu	Ala	Ser	Asp	Ser	Lys	Ala	Glu	Tyr	Lys	Asn
			20					25					30		

<210> 6904

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6904

Arg	Leu	Arg	Leu	Phe	Lys	Arg	Tyr	Phe	Lys	Lys	Leu	His	Cys	Leu	Ser
1				5					10					15	

Thr	Tyr	Asp	Leu	Arg	Ala	Trp	Lys	Cys	Arg	Glu	Ala	Tyr
			20					25				

<210> 6905

<211> 50

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6905

Ile	Leu	Arg	Met	Ile	Lys	Lys	Leu	Trp	Arg	Arg	Ile	Arg	Arg	Arg	Lys
1				5					10					15	

Lys	His	Ile	Ala	Ala	Ser	Ala	Pro	Leu	Asn	Gly	Gly	Lys	Cys	Cys	Arg
			20					25					30		

Ala	Ala	Val	Thr	Lys	Arg	Lys	Val	Leu	Asn	Met	Ala	Ala	Arg	Ala	Leu
		35					40					45			

Arg	Cys
	50

<210> 6906

<211> 79
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6906

Lys Phe Arg Phe Leu Lys Arg Phe Phe Lys Lys Leu Thr Arg Ala Ala
 1 5 10 15

Glu Ile Arg Lys Tyr Ala Gly Ala Lys Ile Ala Thr Arg Leu Ala Leu
 20 25 30

Pro Ala Arg Asp Leu Arg Glu Gln Met Lys Asp His Arg Val Tyr Asn
 35 40 45

Ala Val Arg Phe Lys Met Ala Lys Phe Trp Arg Arg Leu Gly Ala Arg
 50 55 60

Lys Ala Leu Phe Cys Trp Arg Lys Pro Arg Val Arg Val Leu Tyr
 65 70 75

<210> 6907
 <211> 46
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6907

Phe Phe Arg Leu Leu Lys Lys Leu Leu Lys Arg Leu Lys Arg Leu Arg
 1 5 10 15

Ile Arg Leu Tyr Val Pro Ile Arg Ala Lys Gly Arg Lys Arg Ala Gly
 20 25 30

Ser Leu Leu Lys Gln Glu Arg Ala Gly Gln Ala Ile Thr Leu
 35 40 45

<210> 6908
 <211> 26
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6908

Lys Phe Arg Trp Trp Pro Lys Trp Tyr Arg Met Trp Arg Lys Ala Ser
 1 5 10 15

Leu Ala Ala Leu Lys Asn Lys Pro Leu Leu
 20 25

<210> 6909

<211> 49

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6909

Leu Phe Arg Phe Met Arg Arg Tyr Phe Lys Arg Leu Arg Ser Ala Arg
 1 5 10 15

Leu Thr Arg Ala Glu Lys Val Trp Leu Ser Lys Met Arg Thr Ile Ala
 20 25 30

Leu Ala Ala Lys Trp Ala Tyr Asp Leu Cys Pro Ala Trp Lys Lys Met
 35 40 45

Ala

<210> 6910

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6910

Arg Ile Lys Leu Leu Arg Arg Leu Leu Arg Lys Ile Lys Cys Asn Leu
 1 5 10 15

Glu Gly Leu Leu Trp Ala Arg Gly Arg Phe Ser Lys Tyr Arg His Ala
 20 25 30

Lys

<210> 6911
 <211> 31
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6911

Lys Phe Lys Tyr Leu Arg Lys Leu Tyr Lys Arg Leu Ser Arg Arg Leu
 1 5 10 15

Leu Thr Ile Arg Ala Thr Thr Gly Leu Leu Arg Ala Arg Leu Ala
 20 25 30

<210> 6912
 <211> 73
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6912

Lys Ile Lys Leu Met Arg Lys Phe Ile Arg Tyr Ile Arg Lys Lys Lys
 1 5 10 15

Ala Val Gly Gly Pro Arg Arg Leu Arg Tyr Lys Gln Cys Phe Lys Ala
 20 25 30

Leu Leu Arg Glu Pro Phe Tyr Lys Cys Glu Leu Asp Arg Ile Ala Lys
 35 40 45

Asp Lys Leu Ala Ala Ala Arg Lys Arg Tyr Ala Gln Met His Lys Ala
 50 55 60

Ser Lys Ala Leu Glu Ile Gln Ala Ala
 65 70

<210> 6913
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6913

Leu Phe Lys Trp Trp Arg Arg Leu Met Lys Arg Leu Lys Arg Ala His
 1 5 10 15

Met Ser Gly Ala Asn Lys Ala Cys Leu Lys Thr Ala Thr Leu
 20 25 30

<210> 6914
 <211> 47
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6914

Met Leu Arg Trp Leu Arg Arg Leu Met Lys Arg Tyr Arg Arg Ser Asn
 1 5 10 15

Trp Leu Arg Ile Asp Ile Leu Leu Trp Arg Leu Lys Leu Leu Pro Gln
 20 25 30

Ile Pro His Leu Glu Arg Arg Gly Ala Arg Ala Cys Lys Asp Lys
 35 40 45

<210> 6915
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6915

Lys Leu Lys Tyr Leu Lys Arg Trp Leu Arg Lys Phe Lys Lys Arg Lys
 1 5 10 15

Ala Leu Glu Ala Leu Arg Cys Leu Gly Tyr Leu Glu Gln Met Leu Thr
 20 25 30

Ala Pro Lys Arg Gln Leu Gly Lys
 35 40

<210> 6916
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6916

Phe	Leu	Lys	Phe	Leu	Arg	Arg	Ile	Leu	Lys	Arg	Tyr	Lys	Arg	Ala	Gln
1				5					10					15	

Leu	Gln	Ile	Val
			20

<210> 6917

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6917

Ile	Met	Arg	Ile	Leu	Gln	Arg	Leu	Leu	Lys	Lys	Trp	Lys	Arg	Leu	His
1				5					10					15	

Lys	Ala	Ala	Arg	Trp	Arg	Tyr	Ala
							20

<210> 6918

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6918

Lys	Leu	Arg	Met	Leu	Arg	Lys	Tyr	Met	Arg	Leu	Phe	Ser	Arg	Lys	Ile
1				5					10					15	

Lys	Asp	Ala	Ile	Ala	Leu
					20

<210> 6919

<211> 65

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6919

Arg Leu Arg Trp Tyr Ser Arg Met Phe Lys Lys Tyr Arg His Leu Leu
 1 5 10 15

Lys Glu Tyr Arg Glu Asn Lys Leu Ala Arg Lys Phe Gln Thr Arg Lys
 20 25 30

Leu Leu Lys Asn Lys Lys Trp Trp Ala Arg Cys Cys Leu Ala Ala Phe
 35 40 45

Lys Tyr Lys Ala Leu His Met Gly His Met Lys Lys Leu Asn Pro Leu
 50 55 60

Gln
 65

<210> 6920
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6920

Arg Ile Lys Tyr Met Lys Arg Phe Phe Arg Leu Leu Arg Asn Ala Leu
 1 5 10 15

Ala Leu Thr Leu Ala Phe Lys Glu Lys Met His Leu Ala Lys
 20 25 30

<210> 6921
 <211> 38
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6921

Phe Met Lys Leu Trp His Arg Leu Tyr Lys Arg Leu Arg Gln Leu Lys
 1 5 10 15

Trp Leu Arg Thr Ala Pro Tyr Leu Asp Cys Val Asp Asn Leu Arg Leu
 20 25 30

Lys Asn Asp Leu Arg Arg

35

<210> 6922

<211> 57

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6922

Phe Ile Lys Leu Met Arg Arg Trp Leu Arg Arg Ile Lys His Lys Ala
 1 5 10 15

Lys Arg Asn Leu Leu Ala Asp Pro Thr Leu Thr Ala Gln Lys His Trp
 20 25 30

Arg His Phe Gln Ala Arg Ala Asn Leu Arg Leu Arg Lys Ser Gly Leu
 35 40 45

Leu Ala Gln Thr Lys Ala Met Arg Ala
 50 55

<210> 6923

<211> 58

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6923

Arg Ile Arg Leu Phe Asn Lys Met Leu Arg Trp Leu Lys Lys Tyr Leu
 1 5 10 15

Ala Leu Lys Leu Ala Leu His Lys Ile Ala Leu Asn Arg Leu Arg Ile
 20 25 30

Arg Arg Gln Lys Gly Phe Arg Phe Ala Asp Arg Ile Arg Phe Asp Lys
 35 40 45

Gln Asn Arg Ala Gln Ala Ala Lys Val Leu
 50 55

<210> 6924

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6924

Lys Tyr Lys Leu Tyr His Lys Phe Leu Arg Phe Leu Asn Thr Tyr Arg
1 5 10 15

Met Lys Arg Ala Leu His Ala Lys Asn Leu Ser Lys Met Leu Gly Ala
20 25 30

Ala Lys Arg Phe
35

<210> 6925

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6925

Phe Leu Arg Leu Tyr Lys Lys Leu Leu Lys Lys Leu Lys Arg Val Ala
1 5 10 15

Thr Leu Arg Leu Glu Leu Arg
20

<210> 6926

<211> 41

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6926

Arg Phe Lys Leu Phe Lys Lys Leu Ile Arg Arg Leu Arg Lys Gln Cys
1 5 10 15

Lys Ala Lys Ala Glu Leu Thr Lys Leu Trp Leu Leu Lys Phe Ile Tyr
20 25 30

Ala Asn Cys Lys Ala Lys Pro Glu Leu
35 40

<210> 6927
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6927

Lys Leu Lys Tyr Leu His Arg Leu Tyr Arg Ile Phe Arg Ser Cys Leu
 1 5 10 15

Ser Arg Ile Ile Trp Arg Arg Glu Leu Arg Gln Ala Ala Ala
 20 25 30

<210> 6928
 <211> 46
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6928

Lys Phe Arg Phe Ile Lys Lys Phe Trp Lys Arg Met Arg Arg Arg Ala
 1 5 10 15

Leu Leu Glu Leu Ser Leu Ala Ala Thr Gly Gly Gln Arg Ser Ala Glu
 20 25 30

Lys Lys Arg His Leu Thr Ser Lys His Ala Leu Met Ala Cys
 35 40 45

<210> 6929
 <211> 73
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6929

Arg Leu Lys Trp Phe Lys Lys Ile Phe Lys Arg Ile Arg Thr Ala Leu
 1 5 10 15

Tyr Ala Leu Lys Arg Ala His Lys Asn Ala Trp Glu Thr Lys Ala Asn
 20 25 30

Arg Ala Ser Phe Cys Val Leu Arg Lys Leu Arg Gly Met Arg Ala Lys
 35 40 45

Lys Ser His Phe Trp Gln Leu Asn Asp Leu Gly Arg Arg Lys Asn Ala
 50 55 60

Leu Pro Ala Leu Ala His Ser Asp Leu
 65 70

<210> 6930
 <211> 39
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6930

Arg Met Arg Leu Phe Lys Arg Leu Met Arg Lys Phe Cys Lys His Leu
 1 5 10 15

Leu Asp Ser Pro Gly Asn Ala Gly Ala Ile Ala Glu Thr Arg Ala Ala
 20 25 30

Lys Arg Met Ala Asn Leu Ala
 35

<210> 6931
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6931

Arg Leu Lys Ile Tyr Arg Arg Trp Trp Arg Lys Leu Arg Arg Lys Leu
 1 5 10 15

Leu Lys Leu Arg Ala Ala Leu Ala Glu Lys Gly Lys Leu Pro Tyr Pro
 20 25 30

Pro

<210> 6932

<211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6932

Leu Phe Arg Phe Tyr Arg Lys Leu Phe Arg Phe Tyr Gln Arg Lys Met
 1 5 10 15

Leu Leu Lys Glu Lys Lys Arg Ala His Leu Gly Leu Leu Leu Ser Thr
 20 25 30

<210> 6933
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6933

Lys Leu Arg Leu Tyr Arg Arg Leu Leu Arg Phe Phe Gln Lys Arg Leu
 1 5 10 15

Cys Gly Tyr Ala Ala Arg Ala Ile
 20

<210> 6934
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6934

Arg Met Arg Leu Leu Arg Arg Leu Leu Arg Met Ile Asn Asn Arg Ala
 1 5 10 15

Leu Met Gly Ile Lys
 20

<210> 6935
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6935

Leu Leu Arg Leu Leu Ser Lys Tyr Ile Lys Met Leu Lys Lys Ala Glu
 1 5 10 15

Ser Phe Ala Arg
 20

<210> 6936

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6936

Leu Leu Lys Phe Met Gln Lys Ile Leu Arg Lys Phe Arg Gln Leu Arg
 1 5 10 15

Met Tyr Gly Glu Leu Ala Ala Ala Leu Ala Lys Arg Lys His Ala Cys
 20 25 30

Glu Ser His
 35

<210> 6937

<211> 52

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6937

Tyr Met Arg Leu Leu Lys Lys Trp Leu Arg Arg Leu Lys Arg Glu Lys
 1 5 10 15

Leu Glu Arg Lys Met Ser Cys Leu Ile Ala Ala Lys Ala Asn Ser Ala
 20 25 30

Phe Ala Arg Ala Tyr Pro Trp Val Cys Leu Asp Ile Ala Arg Asp Ile
 35 40 45

Lys Trp Leu Met

50

<210> 6938
 <211> 48
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6938

Arg Tyr Arg Trp Phe Arg Lys Phe Leu Lys Leu Trp Ser Asn Arg Ala
 1 5 10 15

His Leu Arg Asp Lys Leu Arg Leu Pro Lys Arg Val Ala Leu Leu Ala
 20 25 30

Val Leu Leu Tyr Gly Lys Leu Val Gly Pro Val Ala Arg Gln Ala Ser
 35 40 45

<210> 6939
 <211> 94
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6939

Leu Met Lys Phe Trp Lys Arg Phe Phe Lys Tyr Met Lys Lys Arg Ala
 1 5 10 15

Val Tyr Arg Arg Lys Lys Leu Gly Lys Leu Arg Arg Val Ala Lys Gly
 20 25 30

Asp Lys Ser Gln Lys Ala Ala Arg Thr Cys Leu Arg Gln Leu Gln Met
 35 40 45

Tyr Leu Thr Lys Leu Leu Met Tyr Gly Pro Ala Lys His Ala Pro Arg
 50 55 60

Leu Lys Cys Asp Ala Lys Ile Cys Ser Thr Leu Gln Lys Ala Gly Phe
 65 70 75 80

Tyr Arg Arg Ala Pro Lys Leu Val Ala Val Met Lys Arg Ala
 85 90

<210> 6940
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6940

Arg Leu Lys Ile Leu Gln Arg Leu Phe Arg Phe Trp Asn Lys Phe Arg
 1 5 10 15

Leu Val Cys Ala Ala Arg Ser Cys Asn Ala Arg Leu Ser
 20 25

<210> 6941
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6941

Arg Met Arg Leu Tyr Gln Arg Trp Met Arg Leu Met Lys Lys Ala Leu
 1 5 10 15

Pro Arg Leu Glu Ala Lys
 20

<210> 6942
 <211> 54
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6942

Arg Leu Arg Tyr Leu Lys Lys Phe Tyr Lys Trp Leu Asn Thr Gly Ala
 1 5 10 15

Ile Lys Ala Lys Ala Asn Ala Arg Arg Thr Leu Ala His Ala His Phe
 20 25 30

Phe Gly Asp Ala Lys Ala Val Gly Gly Lys Arg Trp Met Arg Lys Leu
 35 40 45

Leu Ala Cys Asp Leu Lys
50

<210> 6943
<211> 44
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 6943

Phe Leu Arg Phe Phe Asn Lys Phe Trp Lys Lys Tyr Arg Arg Lys Glu
1 5 10 15

Leu His Thr Lys Ala Asn Lys Leu Glu Leu Gln Leu Glu Phe Ala Thr
20 25 30

Asp Lys Ala Pro Ala Ala Leu Lys Leu Ala Met Lys
35 40

<210> 6944
<211> 33
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 6944

Met Phe Arg Tyr Leu Arg Lys Leu Leu Arg Lys Ile Arg Lys Leu Ala
1 5 10 15

Asp Arg Leu Met Arg Arg Met Ala Asp Gln Met Thr Lys Ala Ala Asn
20 25 30

Arg

<210> 6945
<211> 58
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 6945

Lys Leu Lys Leu Leu Arg Lys Tyr Leu Lys Phe Leu His Pro Ala Phe
 1 5 10 15

Ser Tyr Ala Phe Ala Val Lys Gly Val Thr Arg Ala Asn Arg Phe Ala
 20 25 30

Arg Ile Thr Met Gly Ser Ala Arg Leu Val Ala Ala Thr Ile Ala Leu
 35 40 45

Lys Gln Leu His His Arg Arg Ala Arg Ser
 50 55

<210> 6946

<211> 46

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6946

Lys Met Arg Ile Met Arg Arg Trp Tyr Lys Leu Trp Lys Arg Thr Ala
 1 5 10 15

Ala Asp Ile Lys Arg Leu Ala Leu Asp Ala Lys Trp Leu Leu Pro Glu
 20 25 30

Leu Ala Arg Asn Gly Pro Asp Ala Arg Ala His Arg Leu Leu
 35 40 45

<210> 6947

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6947

Arg Met Arg Leu Tyr Lys Arg Phe Ile Arg Lys Trp Lys Lys Ala Asn
 1 5 10 15

Leu Glu Ala Met Ser Leu Lys Ala Asn Gly Phe Ala
 20 25

<210> 6948

<211> 44
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6948

Lys Trp Lys Leu Leu Lys Lys Leu Ile Lys Lys Phe Pro Lys Glu Ala
 1 5 10 15

Thr Lys Trp Thr Leu Asn Leu Ala Leu His Pro Arg Thr Leu Ile Lys
 20 25 30

Ala Ala Gln Lys Lys Val Ile Ala Ser Met Arg Ala
 35 40

<210> 6949
 <211> 70
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6949

Lys Tyr Arg Phe Leu Lys Arg Ile Leu Lys Arg Met Ser Arg Met Leu
 1 5 10 15

Leu Ala Ala Trp Leu Tyr Asn Trp Arg Ala Cys Leu Trp Asp Ala Arg
 20 25 30

Leu Gly His Leu Ala Cys Ala Gln Met Lys Met Gln Thr Ala Ala Arg
 35 40 45

Lys Tyr Phe Asp Arg Lys Leu Tyr Ser Ala Arg Trp Leu Trp Ser Ile
 50 55 60

Ala Trp Lys Lys Ala Leu
 65 70

<210> 6950
 <211> 91
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6950

Arg Ile Lys Trp Trp Arg Arg Trp Phe Lys Arg Leu Lys Arg Ala Arg
 1 5 10 15

Arg Arg Ala Met Pro Pro Arg Tyr Asn His Ala Arg Lys Ala Ala Leu
 20 25 30

Lys Lys Ala Val Ala Ser Leu Ala Arg Trp Leu Arg Met His Thr Arg
 35 40 45

Thr Lys Arg Arg Ser Gln Leu Phe Asp Ala Leu Tyr Ala Arg Ala Arg
 50 55 60

Tyr Tyr Phe Ala Met Tyr Met Met Asn Asp Phe Ile Leu Arg Lys Ala
 65 70 75 80

Asp Trp Leu Ala Lys Leu Ala Glu Gln Lys Phe
 85 90

<210> 6951

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6951

Arg Leu Lys Phe Tyr Cys Lys Tyr Leu Lys Lys Phe Arg Arg Ala His
 1 5 10 15

Lys Trp Gly Ala Phe Leu Arg Ile Leu Leu Gly Val Lys Leu Tyr Arg
 20 25 30

<210> 6952

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6952

Leu Leu Lys Ile Phe Lys Lys Leu Leu Arg Arg Met Asn Lys Leu Lys
 1 5 10 15

Ala Glu Ile Trp Leu Leu Ala Lys Ile Gly
 20 25

<210> 6953
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6953

Arg Tyr Arg Ile Leu Arg Arg Tyr Leu Arg Arg Phe Lys Pro Ala Leu
 1 5 10 15

Phe Arg Leu Val Leu Asp
 20

<210> 6954
 <211> 47
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6954

Met Trp Arg Leu Tyr Arg Lys Trp Ile Arg Lys Phe Arg Lys Cys Val
 1 5 10 15

Gly Arg Lys Thr Leu Leu Arg Arg Cys Ala Ala Ala Ala Leu Met Arg
 20 25 30

Met Ala Arg Trp Arg Val Lys Leu Ser Gly Asp Ala Val Trp Phe
 35 40 45

<210> 6955
 <211> 48
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6955

Arg Leu Lys Ile Leu Lys Lys Phe Leu Lys Ile Ile Arg Ser Leu Leu
 1 5 10 15

Gln Lys Tyr Ala Lys Lys Phe Lys Cys Glu Ala Leu Phe Leu Gln Ser
 20 25 30

Val Asn Tyr Pro Leu Lys Lys Ala Ala Arg Pro Ala Arg Leu Ser Asp
 35 40 45

<210> 6956

<211> 100

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6956

Ile Tyr Arg Leu Tyr Thr Lys Met Phe Lys Tyr Tyr His Arg Lys Asn
 1 5 10 15

Arg Tyr Trp Ser Ile Ile Phe Lys Val Lys Arg Ala Leu Glu Ala Leu
 20 25 30

Ala Leu Lys Arg Lys Ile Leu Leu Leu His Leu Val Ala Leu Thr Asn
 35 40 45

Cys Ala Tyr Ala Lys Arg Lys Tyr Thr Arg Thr Ala Lys Met Leu Arg
 50 55 60

Arg Cys Val Glu Lys Leu Cys Arg Phe Ala Ala Leu Trp Cys Lys Cys
 65 70 75 80

Met Phe Arg Lys Trp Lys Ala Arg Val Ser Thr Ala Lys Ala Ala Lys
 85 90 95

Leu Lys Asp Trp
 100

<210> 6957

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6957

Lys Phe Arg Tyr Leu Arg Arg Tyr Leu Lys Leu Phe Asn Arg Ala Ala

1 5 10 15

Leu Lys Phe Leu Ala Arg Lys Ala Leu
20 25

<210> 6958
<211> 36
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 6958

Met Leu Arg Phe Leu Thr Arg Trp Phe Arg Lys Leu His His Lys Asn
1 5 10 15

Ala Arg Leu Ala Arg Ala Lys Ser Ala Phe Ala Thr Tyr Asn Arg His
20 25 30

Asp Ala Met Ala
35

<210> 6959
<211> 24
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 6959

Lys Tyr Lys Trp Tyr Cys Lys Leu Phe Arg Lys Leu Lys Lys Tyr Leu
1 5 10 15

Ala Leu Thr Glu Leu Arg Gln Trp
20

<210> 6960
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 6960

Leu Leu Lys Met Leu His Arg Phe Leu Arg Lys Met Ser Lys Leu Glu

1 5 10 15

Gln Ala Gly Arg Tyr
20

<210> 6961
<211> 42
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 6961

Leu Leu Arg Ile Trp Lys Arg Met Leu Arg Arg Leu Lys Arg Leu Ala
1 5 10 15

Leu Cys Leu Lys Lys Lys Met Arg Thr Ala Lys Gln Glu Ala His Arg
20 25 30

Lys Asn Leu Ala Asn Ala Tyr Ser Cys Leu
35 40

<210> 6962
<211> 43
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 6962

Lys Leu Arg Tyr Leu Arg Arg Phe Tyr Lys Leu Leu Ser Lys Lys Lys
1 5 10 15

Arg Arg Lys Arg Tyr Lys Asn Ala Lys Leu Leu Ala Arg Gly Tyr Phe
20 25 30

Lys Ala Trp Met Met Ala Tyr Val Ala Thr Ala
35 40

<210> 6963
<211> 64
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 6963

Lys Ile Lys Leu Met Lys Arg Tyr Leu Arg Lys Ile His Lys Lys Arg
 1 5 10 15

Asn Cys Thr Arg Leu Trp Leu Ala Ala Trp Lys Arg Ala Gly Lys Lys
 20 25 30

Pro Lys Gln Ala Leu Phe Ala Ala Leu Ser Ala Leu Lys Arg Lys Glu
 35 40 45

Gly Leu Asn Lys His Ala Val Glu Met Val Leu Arg Met Arg Ala Thr
 50 55 60

<210> 6964

<211> 51

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6964

Lys Leu Lys Trp Phe Asn Arg Met Leu Arg Arg Phe Lys Lys Leu Gln
 1 5 10 15

Leu Ala Lys Leu Arg Ala Asn Ile Asn Phe Gly Ser Leu Cys His Cys
 20 25 30

Cys Arg Ala Pro Pro Ala Lys Asn Cys Lys Phe Leu Ala Ile Leu Leu
 35 40 45

Lys Ala Leu
 50

<210> 6965

<211> 54

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6965

Arg Phe Lys Phe Ile Lys Lys Met Met Arg Lys Leu Arg Arg Arg Arg
 1 5 10 15

Gln Arg Lys Arg Asp Leu Leu Ser Leu Trp Gln Ala Leu Leu Val Leu
 20 25 30

Ala Leu Gly Leu Tyr Cys Cys Lys Val Pro Lys Glu Leu Ala Gly Arg
 35 40 45

Arg Leu Arg Asp Val Arg
 50

<210> 6966
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6966

Lys Phe Arg Leu Met Arg Lys Phe Leu Lys Lys Trp Cys His Ala Gln
 1 5 10 15

Lys Tyr Leu Asp Met Ala Leu Ala Gln Arg Cys Ala
 20 25

<210> 6967
 <211> 52
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6967

Arg Trp Arg Trp Leu Arg Lys Leu Phe Arg Lys Tyr Cys Lys Ile Lys
 1 5 10 15

Lys Glu Ala Lys Ala Gly His Pro Ala Arg Lys His Ala Asp Leu Arg
 20 25 30

Leu Leu Leu Pro Arg Gly Thr Leu His Lys Tyr Asn Val Pro Leu Val
 35 40 45

Met His Lys Ala
 50

<210> 6968

<211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6968

Leu Leu Lys Phe Phe Gln Lys Leu Phe Arg Leu Met Cys Arg Arg Asp
 1 5 10 15

Ala Lys Arg Ala Ala Ala Arg
 20

<210> 6969
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6969

Arg Met Arg Leu Tyr Lys Arg Leu Phe Lys Arg Phe Lys Arg Gly Ala
 1 5 10 15

Glu Phe Pro Ala Pro Leu Glu Leu
 20

<210> 6970
 <211> 57
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6970

Phe Tyr Arg Met Leu Arg Arg Trp Tyr Arg Leu Leu Arg Cys Lys Pro
 1 5 10 15

Gln Asp Arg Arg Ala Ala Leu Ala Arg His Lys Tyr Asn Lys Glu Met
 20 25 30

Thr Ala Phe Arg Ala Leu Arg Lys Thr Leu Ala Lys Tyr Arg Trp Ala
 35 40 45

Pro Arg Leu Met Leu Leu Phe Glu Ile

50

55

<210> 6971
 <211> 48
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6971

Phe Leu Lys Ile Leu Lys Lys Leu Met Lys Arg Leu Arg Pro Cys Asp
 1 5 10 15

Val Pro Ala Ala Ala Lys His Arg Ile Arg Asn Arg Leu Lys Lys Leu
 20 25 30

Ser Tyr Asp Ala Ser Lys Ala Trp Glu Ala Lys Lys Ala Trp Arg Tyr
 35 40 45

<210> 6972
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6972

Lys Leu Arg Leu Leu Gln Lys Met Tyr Arg Phe Leu Arg Cys Arg Ala
 1 5 10 15

Leu Glu Trp Val Leu Ser Glu Lys Lys Asn Leu Glu Arg Thr Leu Val
 20 25 30

Ala Leu

<210> 6973
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6973

Trp Leu Arg Ile Ile Arg Lys Ile Leu Arg Phe Leu Lys Arg Arg Asp

1 5 10 15

Lys Lys Leu Asn Leu Cys Ile Ala Gln Ile Phe Arg Ala Lys His Ile
 20 25 30

Ala

<210> 6974
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6974

Trp Trp Arg Tyr Met Gln Arg Trp Leu Lys Leu Leu Thr Lys Ala Pro
 1 5 10 15

Arg Lys Asn Leu Gln Arg Trp Leu Ala
 20 25

<210> 6975
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6975

Leu Leu Arg Leu Phe Arg Lys Leu Ile Lys Lys Phe Lys Lys Leu Lys
 1 5 10 15

Pro Ala Glu Leu Arg Leu
 20

<210> 6976
 <211> 31
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6976

Lys Leu Arg Ile Leu Pro Lys Leu Tyr Lys Leu Leu Arg Lys Trp Leu

1 5 10 15

Gly Ile Thr Leu Arg Trp Ser Arg Phe Leu Glu Phe Arg Ala Ala
20 25 30

<210> 6977
<211> 22
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 6977

Phe Met Lys Leu Leu Arg Arg Ile Phe Lys Lys Leu Arg Asn Leu Ala
1 5 10 15

Ala Arg His Cys His Glu
20

<210> 6978
<211> 56
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 6978

Leu Leu Arg Tyr Leu Thr Lys Leu Leu Arg Leu Tyr His Arg His Asn
1 5 10 15

Gly Pro Gln Trp Asn Gly Gly Gly Ala Arg Met Lys Ala Gly Ile Arg
20 25 30

Leu Lys Lys Gln Lys Leu Lys Ala Gln Ala Ala Glu Val Arg Leu Lys
35 40 45

Lys Ala Ala Arg Met Ile Arg Glu
50 55

<210> 6979
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 6979

Phe Phe Lys Trp Tyr Arg Arg Leu Ile Arg Met Leu Arg Cys Leu Lys
1 5 10 15

Leu Asp Cys Ser Ala Arg Arg Leu His Val Arg Ala Arg Val
20 25 30

<210> 6980

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6980

Leu Met Arg Met Tyr Arg Arg Leu Phe Lys Arg Trp Lys Lys Phe Ala
1 5 10 15

Leu His Phe Ala Tyr Arg Leu Arg Phe Lys Arg Arg Arg Leu Ile Ala
20 25 30

Ala Ala

<210> 6981

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6981

Arg Ile Arg Met Leu Thr Lys Leu Phe Lys Phe Phe Lys Lys Thr Leu
1 5 10 15

Pro Ile Pro Leu Lys Ala Leu Ala Leu Leu Lys Lys Pro Gln
20 25 30

<210> 6982

<211> 48

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6982

Trp Phe Arg Leu Leu Lys Arg Phe Leu Lys Leu Phe Lys Arg Ala Gly
 1 5 10 15

Val Lys His Ala Glu Leu Gly Thr Cys Arg Leu Arg Gln His Ala Glu
 20 25 30

Leu Arg Phe Ser Leu Tyr Cys Cys Lys Cys Lys Arg Gly Lys Leu Ala
 35 40 45

<210> 6983

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6983

Phe Met Lys Phe Phe Arg Lys Ile Trp Lys Lys Leu Lys Asn Val Asp
 1 5 10 15

Ala Met Lys Lys Leu Ala Ala His Leu Lys Tyr Ala Cys
 20 25

<210> 6984

<211> 37

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6984

Leu Leu Arg Ile Met Lys Arg Tyr Met Lys Phe Tyr His Lys Leu Pro
 1 5 10 15

Ala Pro Asn Met Arg Thr Leu Lys Ala Leu Trp Leu Lys Leu Gln Val
 20 25 30

Ser Lys Lys Lys Arg
 35

<210> 6985

<211> 80

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6985

Lys Phe Arg Leu Tyr Lys Lys Trp Met Arg Lys Leu Lys Cys Gln Lys
1 5 10 15

Val Asn His Asp Met Lys Leu Met Ile Trp Cys Lys Asp Lys Leu Glu
20 25 30

Cys Lys Lys Gln Arg Cys Gly Leu Leu Lys Lys Leu Met Leu Ala Phe
35 40 45

Leu Ala Trp Leu Ala Val Asn Ala Arg Lys Arg Arg Leu His Asp Ala
50 55 60

Leu Ser Leu Lys Thr Lys Ala Ile Lys Ala Leu Lys Glu Gly Pro Ile
65 70 75 80

<210> 6986

<211> 62

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6986

Arg Leu Arg Met Leu Pro Arg Phe Leu Lys Tyr Leu Arg Lys Trp Lys
1 5 10 15

Lys Lys Ala Arg Val Leu Asp Arg Lys Glu Gly Leu Gly Pro Gln Ala
20 25 30

Gly His Lys Phe Arg Lys Ile Thr Lys Leu Ile Ala Val Ala Leu Arg
35 40 45

Tyr Lys Ala Lys Arg Ala Thr Ser Ile Gly Ala Asn Ser Thr
50 55 60

<210> 6987

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6987

Lys Phe Lys Phe Phe Arg Arg Leu Leu Arg Ile Leu Arg Ser Trp Ala
 1 5 10 15

Arg Trp Val Leu Asp Gln Ala Leu Arg Ala Tyr Arg Met
 20 25

<210> 6988

<211> 43

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6988

Lys Phe Lys Ile Met Asn Arg Tyr Phe Lys Lys Phe Arg Lys Met Cys
 1 5 10 15

Lys Pro Ala Ala Leu Lys Leu Arg Asp Lys Arg Ala Trp Thr Leu Pro
 20 25 30

Arg Trp Leu Arg Glu Leu Met Gln Ala Phe Leu
 35 40

<210> 6989

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6989

Arg Phe Lys Leu Phe Lys Arg Leu Phe Arg Leu Ile Gln Asn Thr Gln
 1 5 10 15

Ala Lys Ala Lys Lys Ala Leu Ile Leu Leu Glu Arg Ile His Leu Lys
 20 25 30

Lys Pro

<210> 6990

<211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6990

Arg Phe Arg Leu Leu Ser Lys Trp Leu Lys Lys Leu Cys Lys Ala Leu
 1 5 10 15

Arg Ile Gln Leu Lys Glu His Leu Ala
 20 25

<210> 6991
 <211> 42
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6991

Arg Leu Lys Ile Tyr Cys Arg Trp Leu Arg Met Phe Lys Arg Leu Lys
 1 5 10 15

Leu His Lys Trp Ser Gly Arg Leu Pro Leu Lys Ala Pro Glu Ala Lys
 20 25 30

Ala Ala Lys Val Ser Gly Leu Phe Ile Leu
 35 40

<210> 6992
 <211> 44
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 6992

Leu Leu Lys Leu Met Lys Lys Phe Phe Lys Arg Leu Lys Asn Ser Lys
 1 5 10 15

Leu Ala Leu Arg Ala Asn Met Glu Lys Lys Lys Lys Arg Leu Val Ala
 20 25 30

Leu Glu Leu Ser Val Lys Leu Asn Thr Tyr Trp Pro

35

40

<210> 6993

<211> 39

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6993

Lys Leu Lys Leu Tyr Lys Arg Trp Leu Lys Phe Leu Arg Ser Ala Tyr
 1 5 10 15

Leu Gly Ala Ile Leu Trp Pro Ile Arg Met Lys Phe Phe Ala Thr Lys
 20 25 30

Leu Met Asp Lys Lys Asp Arg
 35

<210> 6994

<211> 45

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6994

Arg Met Lys Leu Leu Cys Arg Leu Leu Arg Leu Phe Arg Pro Ala Ala
 1 5 10 15

Lys Lys Tyr Ile Ala Leu Lys Lys Val Gln Lys His Lys Ala Arg His
 20 25 30

Arg Lys Cys Thr Asn Arg Leu Lys Thr Gly Leu Trp Leu
 35 40 45

<210> 6995

<211> 79

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6995

Leu Ile Lys Tyr Met Lys Arg Phe Phe Lys Arg Leu His His Lys Lys

1				5						10					15	
Pro	Lys	Asp	Arg	Ala	Cys	Val	Leu	Ile	Ala	Arg	Cys	Lys	Asp	Leu	Ala	
			20					25					30			
Ile	Lys	Asn	Leu	Arg	Asn	Lys	Leu	Lys	Arg	Arg	Ala	Asn	Leu	Arg	Cys	
		35					40					45				
Ile	Ala	Arg	Val	Leu	Ala	Ala	Ser	Ala	Val	Asn	Leu	Thr	Asn	Asp	Ser	
	50					55					60					
Leu	Leu	Gly	Leu	Lys	Asp	Lys	Met	Ala	Lys	Leu	Ala	Tyr	Asp	Met		
65					70					75						

<210>	6996
<211>	95
<212>	PRT
<213>	Artificial Sequence
<220>	
<223>	Computer-generated peptide variant
<400>	6996

Met	Leu	Arg	Leu	Phe	Ser	Lys	Tyr	Leu	Arg	Lys	Leu	Arg	Lys	Leu	Gln
1				5					10					15	
Leu	Trp	Leu	Lys	Cys	Cys	Lys	Arg	Ala	Leu	Gly	Lys	Met	Lys	Arg	Ala
			20					25					30		
Thr	Leu	Lys	Arg	Ala	Lys	Lys	Ala	Arg	Cys	Trp	Gln	Lys	Arg	Pro	Arg
		35					40					45			
Leu	Leu	Cys	Gly	Leu	Met	His	Gln	Val	Thr	Gly	Tyr	Lys	Met	Ala	Ala
	50					55					60				
Asn	Lys	Val	Arg	Ala	Ala	Gln	Ser	Leu	Val	Arg	Lys	Gly	Leu	His	Leu
65					70					75					80
His	Asp	Val	Lys	Pro	Leu	Phe	Asp	Leu	Glu	Arg	Phe	Lys	Arg	Ile	
				85					90					95	

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<210> 6997
<211> 32
<212> PRT
<213> Artificial Sequence
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<220>

<223> Computer-generated peptide variant

<400> 6997

Ile	Tyr	Lys	Met	Leu	Lys	Arg	Leu	Phe	Arg	Arg	Phe	Pro	Arg	Ala	Lys
1				5				10						15	

Ala	Lys	Thr	Ala	Ser	Leu	Ile	Tyr	Lys	Gly	Ala	Arg	Phe	Met	Ala	Lys
			20					25					30		

<210> 6998

<211> 67

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6998

Leu	Leu	Arg	Leu	Tyr	Thr	Arg	Leu	Leu	Lys	Leu	Ile	Ser	Asn	Glu	Ala
1				5				10						15	

Trp	Ala	Leu	Arg	Gly	Gln	Cys	Cys	Leu	Arg	Tyr	Arg	Ala	Cys	Ser	Ala
			20					25					30		

Arg	Lys	Arg	Arg	Leu	Arg	Glu	Lys	Arg	Asp	Ala	Gln	Asn	Phe	Arg	Gly
			35				40					45			

Asp	Ser	Leu	Glu	Ala	Lys	Arg	Ala	Leu	Gln	Leu	Leu	Arg	Arg	Lys	Glu
	50					55				60					

Ser	Thr	Gly
65		

<210> 6999

<211> 93

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 6999

Ile	Ile	Arg	Phe	Leu	Lys	Arg	Ile	Leu	Arg	Arg	Tyr	Arg	Ser	Tyr	Arg
1				5				10						15	

Arg	Leu	Asp	Lys	Glu	Glu	Val	Asn	Met	Asp	Arg	Asp	Leu	Phe	Lys	Lys
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

				20					25					30		
Gly	Tyr	Ala	Ala	Leu	Arg	Asp	Arg	Cys	Lys	Lys	Lys	Arg	Leu	Phe	Pro	
		35					40					45				
Phe	Lys	His	Ala	Ala	Arg	Arg	Tyr	Ala	Cys	Lys	Leu	Ala	Asn	Asn	Arg	
	50					55					60					
Met	Leu	Leu	Lys	Lys	Leu	Gln	Gln	Ala	Pro	Ala	Leu	Lys	Asp	Leu	Lys	
65					70					75						80
Asp	Phe	Ala	Arg	Lys	Leu	Ala	Asp	Trp	Ser	Leu	Asn	Asn				
				85					90							

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<210> 7000
<211> 29
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 7000
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Trp Met Arg Leu Ile Ser Arg Trp Leu Arg Met Phe Arg Arg Arg Val
1          5          10          15

Arg Gly Ala Pro Ala Arg Arg Leu Pro His Ala Phe Ala
          20          25

```

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<210> 7001
<211> 45
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 7001
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Arg	Leu	Arg	Leu	Leu	Pro	Lys	Phe	Leu	Arg	Leu	Ile	Arg	Arg	Lys	Ala
1				5					10					15	
Trp	Val	Ala	Leu	Val	Ala	Arg	Leu	Thr	Arg	Cys	Arg	Glu	Gly	Lys	Ser
			20					25					30		
Ala	Lys	Leu	Val	Val	Met	Phe	Trp	Val	Leu	Arg	Gln	Met			
		35					40					45			

<210> 7002
 <211> 41
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7002

Lys Phe Lys Ile Leu Asn Lys Leu Leu Lys Arg Ile Cys Lys Leu Leu
 1 5 10 15

Asn Ala Leu Leu Leu Thr Leu Lys Thr Gly Leu Met Gly Phe Glu His
 20 25 30

Lys His Val Ala Lys Lys Arg Gly Lys
 35 40

<210> 7003
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7003

Lys Tyr Arg Leu Leu Gln Arg Leu Phe Arg Lys Phe Pro Arg Leu Ala
 1 5 10 15

Asn Tyr Leu Ala Asn Arg Phe His Ser
 20 25

<210> 7004
 <211> 56
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7004

Arg Leu Arg Met Trp Pro Arg Tyr Met Lys Leu Phe Arg Arg Arg Ala
 1 5 10 15

Lys Ile Ile Leu Ala Asn Lys Arg Leu Tyr Ala Lys Ala Arg Leu Cys
 20 25 30

Asn Gly Ala Ala Arg Phe Cys Leu Arg Leu Cys Val Pro Glu Arg Val
 35 40 45

Ala Leu Leu Thr Phe Leu Thr Tyr
 50 55

<210> 7005

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7005

Phe Leu Arg Tyr Leu Arg Lys Tyr Leu Lys Arg Phe Arg Asn Lys Lys
 1 5 10 15

Leu Ala Lys Ser Leu Pro Leu
 20

<210> 7006

<211> 86

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7006

Lys Phe Arg Phe Tyr Arg Arg Met Leu Arg Arg Leu Arg Ser Arg Gln
 1 5 10 15

Leu Cys Arg Val Phe Leu Lys Leu Ala Arg Arg Ala Glu Val Asn Ala
 20 25 30

Lys Asn Arg Leu Leu Ile Ala Leu Gln Ala Ala Ser Pro Phe Arg Lys
 35 40 45

Ser Thr Ala Ala His Val Ser Arg Lys Lys Asp Ala Arg Arg Lys Asp
 50 55 60

Ile Trp Glu Met Ser Leu Ala Leu Leu Ala Ala Gln Leu Lys Lys Gly
 65 70 75 80

Lys Asp Arg Arg Leu Lys

85

<210> 7007
 <211> 43
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7007

Lys Leu Arg Leu Leu Pro Lys Trp Leu Arg Lys Phe Lys Ser Leu Gln
 1 5 10 15

Lys Ile Leu Lys Met Lys Ser Arg Asp Asn Gly Val Cys Ala Lys Ala
 20 25 30

His Leu Cys Leu Leu Ala Arg Ala Arg Arg Lys
 35 40

<210> 7008
 <211> 96
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7008

Lys Leu Lys Tyr Leu Lys Arg Tyr Leu Arg Arg Phe His Asn Ala Lys
 1 5 10 15

Tyr Cys Leu Leu Asp Ala Lys Tyr Lys Ile Asp Lys Ile Gln Ala Glu
 20 25 30

Pro Tyr Val Asp Asp Gly Lys Ala Pro Ala Arg Lys Trp Leu His Asn
 35 40 45

Ala Ala Thr Ala His Ala Cys Lys Leu Ala Arg His Thr Lys Leu Arg
 50 55 60

Gln Cys Glu Lys Lys Ser Met Thr Lys Lys Ala Asp Ala Asn Ala Arg
 65 70 75 80

Cys Ala Lys Lys Ala Pro Arg Lys His Leu Lys Ser Arg Leu Ser Ala
 85 90 95

<210> 7009
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7009

Arg Leu Lys Leu Tyr Lys Arg Leu Phe Arg Leu Phe Gln Lys Lys Lys
 1 5 10 15

Ala Gly Phe Asn Gly Arg Leu Leu Leu Thr Ala Gly Met Lys Asp Lys
 20 25 30

Glu

<210> 7010
 <211> 38
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7010

Arg Leu Arg Ile Leu Arg Arg Leu Leu Lys Met Leu Arg Arg Arg Phe
 1 5 10 15

Trp Ala Val Gly Ala Tyr Ser Arg Leu Asp Leu Leu Arg Leu Ile Asn
 20 25 30

Trp Ile Glu Asp Phe Trp
 35

<210> 7011
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7011

Arg Phe Lys Phe Phe Ser Lys Leu Leu Lys Ile Leu Thr Lys Ala Thr
 1 5 10 15

Arg Met Gly Val Ala Phe Ala Lys Leu Asn Phe Ile Arg Ala Arg Leu
 20 25 30

<210> 7012

<211> 82

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7012

Arg Leu Lys Tyr Phe Pro Lys Phe Phe Lys Trp Tyr Arg Ser Trp Ala
 1 5 10 15

Leu Tyr Ala Thr Leu Arg Arg His Trp Arg Thr Phe Gly Ala Leu Arg
 20 25 30

Lys Met Leu Lys Arg Lys Cys Ser Thr Ala Arg Met Arg Phe Thr Trp
 35 40 45

Ala Arg Ile Tyr Leu Lys Ser Leu Gln Trp Leu Gly Ile Ala Arg Lys
 50 55 60

Glu Lys Leu Lys Leu Lys Pro Lys Arg Cys Arg Lys Leu Ser Asp Leu
 65 70 75 80

Lys Leu

<210> 7013

<211> 31

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7013

Phe Tyr Arg Leu Phe Arg Arg Leu Met Lys Tyr Ile Lys Arg Ala Lys
 1 5 10 15

Leu Lys Arg Met Gln Ala Arg Trp Lys Leu Leu Asn Asp Leu Leu
 20 25 30

<210> 7014

<211> 80
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7014

Leu Met Arg Leu Leu Arg Arg Leu Leu Arg Lys Leu Arg Lys Leu Pro
 1 5 10 15

Pro Leu Asn Trp Met Cys Thr Arg Lys Ala Asn Ala Leu Arg Ala Gly
 20 25 30

Gly Leu Lys Asn His Asn Leu Arg Asp Arg Ile Pro Tyr Gly Leu Lys
 35 40 45

Leu Lys Ser Gln Leu Val Met Trp Val Arg Gly Tyr Ile Phe Ala Lys
 50 55 60

Pro Cys Pro Ala Arg Ala Glu Tyr Arg Lys Glu Leu Arg Arg Tyr Leu
 65 70 75 80

<210> 7015
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7015

Lys Ile Lys Leu Tyr Lys Arg Leu Phe Arg Met Leu Arg Lys Arg Gly
 1 5 10 15

Ala Trp Ala Asp Tyr Tyr Tyr Thr Arg Asp Thr Leu Phe Leu Glu Ala
 20 25 30

Arg Arg

<210> 7016
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7016

Leu Met Lys Ile Tyr Asn Lys Tyr Leu Lys Arg Tyr Arg Lys Gly Arg
1 5 10 15

Ala Trp Ile Leu Lys Leu Leu
20

<210> 7017

<211> 37

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7017

Arg Phe Lys Phe Phe Lys Lys Leu Leu Lys Lys Leu Gln Thr Leu Asp
1 5 10 15

Asn Glu Phe Leu Arg Ala Pro Met Ala Ser Val Gln Asn Arg Leu Ala
20 25 30

Arg Ala Arg Glu Lys
35

<210> 7018

<211> 54

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7018

Arg Phe Arg Phe Leu Lys Lys Phe Leu Arg Lys Leu Thr His Cys Thr
1 5 10 15

Lys Glu Cys Lys Pro Gln Trp Ile Gln Cys Leu Leu Gly Gln Trp Thr
20 25 30

Ser Leu Lys Tyr Phe Lys Gly Ala Ala Thr Leu Lys Ala Ala Ala Ala
35 40 45

Leu Leu Arg Arg Arg Ala
50

<210> 7019
 <211> 56
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7019

Leu Leu Arg Trp Leu Cys Arg Leu Phe Arg Trp Leu Arg Cys Arg Lys
 1 5 10 15

Lys Ala His Pro Val Leu Leu Lys Glu Thr Tyr Lys Lys Val Ile His
 20 25 30

Gly Ala Gly Arg Arg Glu Lys Lys Leu Lys His Lys Ala Lys Phe Leu
 35 40 45

Leu Leu Leu Lys Asn Asp Gln Ala
 50 55

<210> 7020
 <211> 57
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7020

Leu Ile Lys Leu Tyr Arg Arg Ile Ile Arg Arg Phe Lys Ser His Lys
 1 5 10 15

Val Leu Val Ala Gly Gln Arg Leu Ile Thr Cys Leu Ala Lys Met Val
 20 25 30

Thr Thr Cys Ala Asp Val Leu Ala Leu Leu Arg Ala Leu Leu Arg Lys
 35 40 45

Ala Leu Gly Ser Phe Leu Arg Lys Lys
 50 55

<210> 7021
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7021

Leu	Tyr	Lys	Leu	Ile	Lys	Arg	Met	Leu	Lys	Lys	Trp	Gln	Arg	Leu	Ala
1				5					10					15	

Val	Leu	Arg	Lys	Ala	Arg	Arg	Arg	Asp	Leu	Gly	Tyr	Thr	Cys
			20					25					30

<210> 7022

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7022

Lys	Leu	Lys	Leu	Phe	Pro	Lys	Phe	Leu	Lys	Arg	Leu	Arg	Ser	Ala	Leu
1				5					10					15	

Ser	His	Lys	Met	Val	Asp	Ser
			20			

<210> 7023

<211> 64

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7023

Phe	Met	Arg	Phe	Leu	Cys	Lys	Leu	Phe	Lys	Leu	Leu	Arg	Asn	Ala	Leu
1				5					10					15	

Lys	Lys	Gln	Cys	Leu	Arg	Met	Lys	Lys	Gln	Lys	Arg	Lys	Ile	Arg	Leu
			20					25					30		

Arg	Leu	Cys	Asn	Leu	Ile	Thr	Lys	Ala	Gly	Gly	Arg	Ile	Asp	Leu	Leu
		35					40					45			

Thr	Pro	Leu	His	Asn	Ala	Pro	Arg	Arg	Lys	Glu	Ala	Lys	Leu	Leu	Lys
	50					55					60				

<210> 7024

<211> 52
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7024

Arg Leu Arg Met Leu Arg Lys Met Phe Lys Lys Leu Lys His Glu Leu
 1 5 10 15

Arg Trp Ala Pro Asp Ala Lys Glu Leu His Pro Leu Lys Lys Ala Arg
 20 25 30

Lys Arg Gln Leu Leu Gln Ala Thr Ala Pro Thr Ser Gln His Ala Tyr
 35 40 45

Lys Arg Ser Val
 50

<210> 7025
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7025

Arg Leu Arg Met Leu Pro Arg Trp Trp Arg Lys Leu Arg Lys Leu Val
 1 5 10 15

Ser Ile Met Leu Thr Lys Lys Ala Leu Arg Thr Cys Gln Arg Ala Pro
 20 25 30

Ala Gly Asp Ile
 35

<210> 7026
 <211> 26
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7026

Trp Met Lys Phe Leu Arg Arg Leu Met Lys Arg Leu Arg Gln Met Ala

1 5 10 15

Ala Cys Gly Arg Ala Arg Gln Lys Leu Leu
20 25

<210> 7027
<211> 64
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 7027

Arg Leu Lys Leu Tyr Arg Arg Leu Phe Lys Arg Leu Ser Lys Arg His
1 5 10 15

Gln Met Asn Asp Asp His Arg Arg Glu Glu Lys Ala Leu His Leu Ala
20 25 30

Arg Ala Lys Gly Thr Arg Cys Leu Ala Cys Ser Pro Gln Phe Glu Lys
35 40 45

Pro Leu Phe Leu Leu Ala Arg Ser Leu Lys Leu Arg Thr Arg Leu Tyr
50 55 60

<210> 7028
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 7028

Lys Phe Arg Ile Leu Lys Arg Phe Met Lys Lys Trp Ser Lys Gly Pro
1 5 10 15

His Leu Leu Arg Ala Arg Ala Cys Asp Glu Phe Ile Arg Lys Leu Ala
20 25 30

Leu Gly Ala
35

<210> 7029
<211> 20
<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7029

Met	Trp	Arg	Leu	Leu	Pro	Arg	Leu	Tyr	Lys	Leu	Met	Lys	Gln	Ala	His
1				5					10					15	

Glu	Lys	Gln	Arg
			20

<210> 7030

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7030

Ile	Ile	Lys	Tyr	Ile	Thr	Lys	Leu	Leu	Arg	Ile	Phe	Arg	Lys	Ala	Tyr
1				5					10					15	

Leu	Lys	Leu	Val
			20

<210> 7031

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7031

Lys	Ile	Lys	Leu	Trp	Thr	Lys	Leu	Phe	Lys	Tyr	Leu	Gln	Lys	Ile	Leu
1				5					10					15	

Leu	Arg	Pro	Leu	Arg	Arg	Tyr	Arg	Leu	Lys	Ala	Ile	Cys	Leu	Ser	Lys
			20					25					30		

<210> 7032

<211> 38

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7032

Lys Phe Arg Phe Phe Lys Arg Met Phe Lys Lys Leu Lys Asn Arg Pro
 1 5 10 15

Arg Arg Leu Val Lys Leu Asp Ser Met Leu Ser Ile Arg Leu Ala Gln
 20 25 30

Ile Leu Leu Tyr Tyr Ala
 35

<210> 7033

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7033

Arg Leu Arg Trp Leu His Arg Leu Tyr Arg Phe Leu Arg His Leu Leu
 1 5 10 15

Val Val Val Lys Lys Ser Trp Arg Ala
 20 25

<210> 7034

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7034

Lys Leu Arg Trp Leu Arg Lys Phe Phe Lys Arg Phe Gln Arg Met Thr
 1 5 10 15

Lys Leu Trp Glu Leu Arg Lys His Tyr Arg Leu Asp Ala Gly Cys Asp
 20 25 30

Lys Leu Ala Gln Ala Arg Ser Ala
 35 40

<210> 7035

<211> 31

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7035

Ile	Phe	Arg	Trp	Trp	Arg	Arg	Leu	Ile	Arg	Lys	Leu	Thr	Asn	Lys	Leu
1				5					10					15	

Ala	Arg	Cys	Leu	Leu	Leu	Val	Arg	Phe	Gln	Arg	His	Ala	Ala	Lys
			20					25					30	

<210> 7036

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7036

Lys	Tyr	Lys	Tyr	Leu	Lys	Arg	Phe	Phe	Lys	Met	Leu	Thr	Lys	Leu	Tyr
1				5					10					15	

Arg	Leu	Lys	Leu	Ala	Leu	Leu	Ile	Trp	Met	Asn	Lys	Lys	Ala	Ile	Leu
			20					25					30		

Lys	Ala	Trp	Arg
			35

<210> 7037

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7037

Leu	Phe	Lys	Trp	Trp	Lys	Lys	Met	Trp	Arg	Arg	Leu	Arg	Lys	Arg	Thr
1				5					10					15	

Lys	Ala	Leu	Asn	Leu	Leu	His	Val	Ala
			20					25

<210> 7038

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7038

Lys Phe Arg Leu Ile Thr Lys Leu Trp Arg Arg Leu Gln Lys Pro Gln
1 5 10 15

Glu Ala Glu Leu
20

<210> 7039

<211> 76

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7039

Arg Leu Lys Tyr Phe Arg Arg Leu Leu Lys Arg Ile Arg Lys Arg Ala
1 5 10 15

Ser Lys Ala Cys Gly Arg Gly Met Lys Met Arg Glu Arg Arg Ala Lys
20 25 30

Ser Leu Leu Gly Phe Tyr Leu Ile Arg Asn Cys Ala Val Leu Leu Leu
35 40 45

Ala Gly Gly Tyr Arg Met Ala His Pro Asp Gln Ala Pro Ala Ser Arg
50 55 60

Leu His Leu Arg Asp Cys Val Thr Tyr Arg Ala Leu
65 70 75

<210> 7040

<211> 52

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7040

Arg Ile Lys Tyr Leu Arg Arg Leu Leu Arg Tyr Leu Arg Asn Asp Leu
1 5 10 15

Tyr Tyr Ile Lys Ile Lys Ala Tyr Lys Ala Ala Asp Leu Trp Arg Leu
 20 25 30

Lys Ala Tyr Met Arg Ala Arg Trp Ile Pro Ile Arg Leu Pro Thr Ala
 35 40 45

Leu Lys Ile Leu
 50

<210> 7041
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7041

Leu Leu Arg Leu Phe Pro Arg Met Met Lys Arg Leu Lys Thr Lys Thr
 1 5 10 15

Ala Ala Ala Asn
 20

<210> 7042
 <211> 60
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7042

Arg Trp Arg Phe Leu Asn Arg Ile Ile Arg Phe Phe Arg Asn Lys Leu
 1 5 10 15

Leu Ala Ile Lys Ala Leu Val Ala Leu Ala Cys Lys Tyr Met Lys Gln
 20 25 30

Gly Asn Lys Ala Glu Asn Lys Lys Thr Arg Ala Leu Lys Asp Lys Lys
 35 40 45

Met Leu Pro Lys Gly Asp Pro Ile Lys Trp Leu Ala
 50 55 60

<210> 7043

<211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7043

Leu Leu Lys Leu Leu Arg Lys Tyr Phe Arg Lys Met Lys Arg Met Leu
 1 5 10 15

Ala Leu Ala Ser Lys Asp Lys Arg Leu Thr Glu Ala
 20 25

<210> 7044
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7044

Lys Trp Arg Met Leu Arg Lys Phe Leu Lys Lys Leu Lys Arg Leu Arg
 1 5 10 15

Asp Leu Ala Ser Gly Phe Phe Val Pro Ala Gly Thr
 20 25

<210> 7045
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7045

Leu Met Lys Leu Leu Arg Arg Leu Tyr Arg Lys Tyr Lys Arg Val Leu
 1 5 10 15

Ala Leu Val Ser Ala Cys
 20

<210> 7046
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7046

Arg	Phe	Lys	Met	Trp	Lys	Lys	Phe	Tyr	Arg	Lys	Leu	Cys	Arg	Asp	Ala
1				5					10					15	

Ala	Phe	Ala	Ala	Leu	Ala	Arg	Val	Ser	Cys	Tyr	Leu	Ser
			20					25				

<210> 7047

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7047

Tyr	Leu	Lys	Phe	Phe	Lys	Arg	Leu	Leu	Lys	Trp	Met	Arg	Asn	Gly	Val
1				5					10					15	

Lys	Trp	Gln	Arg	Leu	Pro	Leu	Leu	Leu	Lys	Leu	Arg	Arg	Ala
			20					25					30

<210> 7048

<211> 66

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7048

Phe	Leu	Arg	Leu	Leu	Asn	Lys	Leu	Leu	Lys	Trp	Leu	Asn	His	Lys	Leu
1				5					10					15	

Lys	Ala	Pro	Gly	Lys	Arg	Lys	Cys	Phe	His	Leu	Ala	Asp	Leu	Asp	Arg
			20					25					30		

Met	Tyr	Ala	Asp	Cys	Met	Ala	Phe	Lys	Arg	Asn	Met	Lys	Trp	Ala	Arg
		35					40					45			

Thr	Ala	Val	Leu	Lys	Cys	Ala	Leu	Ala	Arg	Asn	Thr	Gly	Arg	Trp	Leu
	50					55					60				

Arg Leu

65

<210> 7049

<211> 77

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7049

Leu Ile Lys Leu Phe Arg Arg Phe Phe Arg Lys Leu Lys Arg Phe Arg
 1 5 10 15

Ala Lys Arg Leu Arg Met Ala Asn Glu Ser Gly Ala Gly Arg Cys Ala
 20 25 30

Met Thr Ala Asn Ala Arg Ala Val Ala Met Tyr Arg Cys Leu Glu Ala
 35 40 45

Val Ile Pro Lys Phe Arg Gly Arg Gln Cys Lys Tyr Ala Cys Leu Met
 50 55 60

Lys Lys Leu Lys Arg Arg Asn Asp Asn Lys Arg Thr Ala
 65 70 75

<210> 7050

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7050

Lys Leu Arg Leu Met Thr Arg Trp Ile Lys Arg Ile Lys Arg Val Ala
 1 5 10 15

Ala His Leu Asn Ser
 20

<210> 7051

<211> 38

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7051

Leu Leu Arg Leu Trp Lys Arg Ile Ile Lys Leu Ile Cys Lys Ala Arg
 1 5 10 15

Ala Phe Arg Lys Asp Ser Arg Leu Asn Ser Glu Cys Thr Leu Ala Pro
 20 25 30

Ser Ile Leu Ala Glu Lys
 35

<210> 7052

<211> 50

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7052

Leu Tyr Lys Leu Leu Pro Lys Leu Trp Arg Lys Tyr Lys Arg Ala Lys
 1 5 10 15

Arg Ser Leu Arg Ala Lys Lys Arg Pro Phe Cys Gln Arg Arg Met Leu
 20 25 30

Leu Leu Val Ala Gln Met Pro Trp Glu Leu Glu Arg Lys Pro Ala Met
 35 40 45

Tyr Cys
 50

<210> 7053

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7053

Lys Leu Lys Trp Trp His Lys Leu Phe Arg Arg Leu Arg Arg Leu Gly
 1 5 10 15

Leu Leu Leu Gly Glu Leu Arg Ala Arg Leu Met
 20 25

<210> 7054
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7054

Lys Trp Arg Trp Leu His Lys Leu Tyr Lys Met Leu Arg Arg Leu Trp
 1 5 10 15

Val Leu Met Ala Ala Ala Lys Leu Arg Met Arg Asn
 20 25

<210> 7055
 <211> 72
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7055

Leu Phe Lys Tyr Tyr Arg Lys Tyr Phe Arg Lys Phe Arg Cys Leu Arg
 1 5 10 15

Tyr Lys Pro Met Thr Leu Glu Glu Tyr Tyr Thr Arg Pro Gln Ala Leu
 20 25 30

Leu Gly Ala Ile Lys Leu Arg Lys Leu Lys Leu Leu Tyr Ile Ala Ser
 35 40 45

Asp Ala Val Arg Leu Lys Lys Asn Lys Leu Cys Val Lys Leu Thr Arg
 50 55 60

Lys Leu Trp Leu Lys Gly Gly Lys
 65 70

<210> 7056
 <211> 59
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7056

Ile Trp Arg Leu Leu Lys Lys Leu Phe Lys Tyr Ile Arg Lys Leu Lys
 1 5 10 15

Leu Trp Glu Arg Pro Pro Cys Arg Arg Arg Lys Arg Leu Lys Arg Asp
 20 25 30

Leu Leu Leu Ala Asp Lys Lys Tyr Leu Thr Pro Gln Arg Trp His Met
 35 40 45

Leu Leu Leu Asn Lys Leu Arg Asn Thr Phe Pro
 50 55

<210> 7057
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7057

Met Ile Arg Trp Met His Lys Leu Leu Lys Arg Leu Arg Lys Leu Arg
 1 5 10 15

Arg Thr Ala Glu Ser Trp Tyr Ser Leu Ala Lys Gln
 20 25

<210> 7058
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7058

Trp Trp Arg Phe Leu Arg Arg Phe Leu Arg Lys Leu Lys Lys Glu Arg
 1 5 10 15

Asn Ala Ala Ala Lys Ala Met Asn Cys
 20 25

<210> 7059
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7059

Leu	Ile	Arg	Ile	Met	Lys	Arg	Leu	Phe	Arg	Lys	Met	Lys	Asn	Lys	Gly
1				5				10					15		

Leu	Asp	Thr	Ala	Ala	Ala	Tyr
			20			

<210> 7060

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7060

Met	Leu	Arg	Tyr	Tyr	Arg	Arg	Ile	Leu	Lys	Trp	Tyr	Gln	Lys	Ala	Leu
1				5				10					15		

Arg	Lys	Ala	Leu	Leu	Glu	Phe	Cys	Gln
			20				25	

<210> 7061

<211> 37

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7061

Lys	Tyr	Arg	Phe	Ile	Lys	Arg	Leu	Leu	Lys	Arg	Leu	Asn	Gln	Arg	Leu
1				5				10					15		

Lys	Gln	Ala	Leu	Cys	Thr	Lys	Trp	Arg	Ala	Ala	Ile	Lys	Lys	Thr	Glu
			20				25					30			

Tyr	Val	Ala	Met	Leu
			35	

<210> 7062

<211> 86

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7062

Lys	Ile	Arg	Leu	Phe	Pro	Arg	Phe	Trp	Arg	Arg	Ile	Lys	Lys	Gln	Ala
1				5				10						15	

Glu	Thr	Lys	Leu	Leu	Gly	Thr	Leu	Val	Gln	Pro	Leu	Lys	Lys	Glu	Lys
			20					25					30		

Trp	Ala	Lys	Cys	Glu	Arg	Ala	Ala	Leu	Arg	Lys	Asn	Lys	Arg	Ala	Arg
		35					40					45			

Ala	His	Arg	Pro	Ala	Leu	Ala	Val	Lys	Cys	Pro	Gly	Glu	Lys	Ala	Lys
	50					55					60				

Thr	Glu	Leu	Trp	Tyr	Arg	Ser	Arg	Leu	Ser	His	Phe	Ala	Lys	Met	Ala
65					70					75					80

Tyr	Ala	Lys	Met	Ala	Leu
			85		

<210> 7063

<211> 48

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7063

Leu	Phe	Lys	Leu	Phe	Arg	Lys	Leu	Phe	Lys	Arg	Met	Arg	Arg	Gly	Asn
1				5				10						15	

Trp	Lys	Val	Ala	Lys	Ala	Lys	Ser	Ala	Lys	Leu	Ile	Lys	Ala	Arg	Glu
			20					25					30		

Thr	Ala	Gln	Ile	Thr	Arg	Tyr	Gly	Phe	Asp	Ala	Lys	Leu	Lys	Leu	His
		35					40					45			

<210> 7064

<211> 53

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7064

Phe Phe Arg Leu Leu Arg Arg Trp Tyr Arg Leu Tyr Gln Arg Ile Arg
 1 5 10 15

Lys Met Lys Arg Ala His Gly Val Ala Tyr Trp Leu Arg Asp Phe Arg
 20 25 30

Arg Ala Gln Arg Leu Leu Ala Ala Ala Lys Met Lys Arg Phe Lys Phe
 35 40 45

Leu Asn Asp Asn Leu
 50

<210> 7065

<211> 51

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7065

Lys Trp Lys Met Tyr Arg Lys Leu Ile Lys Trp Phe Lys Cys Ala Arg
 1 5 10 15

Leu Lys Leu Cys Lys Ile Lys Met Ile Leu Leu Thr Ala Trp Arg Ala
 20 25 30

Lys Ala His Ala Arg Leu Arg Leu Lys Ala Ile Thr Lys Ala Ala Asp
 35 40 45

Arg Arg Leu
 50

<210> 7066

<211> 76

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7066

Arg Met Lys Phe Leu Asn Lys Trp Leu Arg Met Leu Arg Ser Gly Val
 1 5 10 15

Thr Arg Tyr Ala Ala Arg Lys Cys His Met Gln Arg Leu Arg Gln Pro
 20 25 30

Leu Lys Lys Arg Cys Ala Gly Arg Arg Val Leu Ala Thr Ser Leu Arg
 35 40 45

Lys Ala Phe Pro Leu Ser Ala Ala Gln Asp Leu Met His Phe Ala Arg
 50 55 60

Ile Phe Leu Leu Trp Ala Phe Asn Arg Arg Arg Ala
 65 70 75

<210> 7067
 <211> 27
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7067

Phe Leu Lys Ile Leu Arg Arg Leu Leu Arg Arg Leu Lys Gln Ala Ala
 1 5 10 15

Ser Lys Arg Tyr Ala Phe Tyr Cys Leu Ile Trp
 20 25

<210> 7068
 <211> 45
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7068

Leu Phe Arg Leu Ile Arg Arg Leu Met Arg Lys Leu Cys Lys Arg Tyr
 1 5 10 15

Ala Pro Leu Tyr Asn Asn Lys Ile Met Arg Ile Leu Lys Ile Arg Lys
 20 25 30

Glu Gly Phe Ala Leu Ala Lys Ala Thr Gly Ala Tyr His
 35 40 45

<210> 7069

<211> 31
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7069

Trp Leu Arg Met Leu Arg Arg Leu Phe Arg Met Leu Lys Lys Val Lys
 1 5 10 15

Ser Gly Leu Val Val Cys Lys Ala Lys Arg Asn Ser Leu Ala Arg
 20 25 30

<210> 7070
 <211> 37
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7070

Arg Ile Arg Phe Trp Lys Lys Leu Leu Lys Lys Leu Arg Cys Leu Ala
 1 5 10 15

Ala Leu Leu Arg Met Arg Ala Gln Asn Tyr Arg Arg Ile Lys Ala Ala
 20 25 30

Arg Asp Leu Leu Gly
 35

<210> 7071
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7071

Leu Leu Arg Ile Leu Lys Lys Tyr Tyr Arg Arg Trp Arg Arg Asn Ala
 1 5 10 15

Gln Ala Thr Trp
 20

<210> 7072

<211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7072

Met Ile Lys Leu Met Lys Lys Leu Ile Lys Phe Met Asn Arg Arg Arg
 1 5 10 15

Asn Gln Leu Ala Leu Asp Arg Leu
 20

<210> 7073
 <211> 27
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7073

Lys Leu Arg Trp Phe Arg Arg Tyr Phe Lys Arg Leu Lys His Leu Val
 1 5 10 15

Ser Val Ala Ser Arg Ala Cys Leu Ile Arg Ala
 20 25

<210> 7074
 <211> 49
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7074

Arg Leu Arg Met Leu Gln Lys Leu Leu Arg Lys Tyr Ser Thr Lys Asn
 1 5 10 15

Glu Gly Gln Leu Ala Leu Leu Trp Phe Arg Leu Ser Ser Leu Leu Leu
 20 25 30

Lys Arg His Ala Ala Trp Arg Ala Cys Arg Trp Ala Tyr Arg Met Asn
 35 40 45

Asn

<210> 7075
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7075

Arg Tyr Arg Leu Ile Arg Arg Leu Met Arg Lys Leu Thr Lys Ala Gln
 1 5 10 15

Ala Thr Trp Trp Leu Ala Lys
 20

<210> 7076
 <211> 47
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7076

Lys Trp Arg Leu Leu His Lys Leu Leu Lys Arg Leu Lys Lys Ala Asp
 1 5 10 15

Leu Asn Met Pro Arg Ala Lys Arg Arg Ile Ala Val Val Leu Met Pro
 20 25 30

His Leu Ile Lys Thr Ser Thr Lys Trp Ser Ala Arg Gly Arg Ala
 35 40 45

<210> 7077
 <211> 68
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7077

Lys Ile Lys Phe Phe Lys Arg Leu Ile Lys Trp Leu Gln Lys Glu Trp
 1 5 10 15

His Glu Leu Leu Lys Thr Thr Tyr Pro Trp Lys Leu Arg Lys Arg Ala

20 25 30

Arg Leu Ala Leu Asn Phe Val Leu Phe Phe Arg Arg Lys Leu Pro Gln

35 40 45

Ala Asp Tyr Tyr Leu Cys Arg Ala Leu Ser Val Arg Lys Ala Arg His
50 55 60

Ile Arg Arg Lys
65

<210>	7078
<211>	50
<212>	PRT
<213>	Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 7078

Arg Phe Lys Ile Leu Ser Arg Phe Leu Lys Tyr Tyr Gln Lys Thr Leu
1 5 10 15

Glu Tyr Leu Ala Ala Leu Lys Gln Lys Tyr Glu Pro Phe Tyr Leu Gln
20 25 30

Lys Lys Leu Lys Lys Glu Ile Glu Ala Ala Lys Arg Ala Arg Pro Leu
35 40 45

Ala Phe
50

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<210> 7079
<211> 30
<212> PRT
<213> Artificial Sequence
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<220>
<223> Computer-generated peptide variant

<400> 7079

Trp Trp Lys Leu Leu Lys Lys Leu Tyr Lys Phe Leu Cys Lys His Ala
1 5 10 15

Ile Lys Ile Asp Arg Lys Lys Lys Gln Met Leu Phe Ala His
20 25 30

<210> 7080
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7080

Arg Tyr Arg Met Leu Arg Lys Trp Leu Lys Phe Leu Arg Asn Pro Ala
 1 5 10 15

Leu Arg Cys Asn Leu Asp His Leu Asp Ala Arg Lys Phe
 20 25

<210> 7081
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7081

Met Leu Lys Phe Phe Lys Arg Leu Phe Lys Leu Leu Thr Lys His His
 1 5 10 15

Gln Lys Leu His Lys
 20

<210> 7082
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7082

Phe Trp Lys Leu Leu Arg Arg Phe Met Arg Arg Leu Thr Arg Glu Arg
 1 5 10 15

Thr His Phe Glu Leu Lys Phe Ala Ala Ile Leu Leu Arg Trp Leu Arg
 20 25 30

<210> 7083
 <211> 81
 <212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7083

Lys Met Arg Trp Leu His Arg Ile Leu Lys Lys Ile Lys Arg Ala Asn
1 5 10 15

Leu Arg Ser Arg Arg Phe Ala Gly Asn His Arg Glu Asn Asn Leu Gln
20 25 30

Ala Ser Lys Lys Leu Ser Pro Arg Ser Asp Ala Asp Asp Arg Ala Lys
35 40 45

Ala Lys Gly Ala Gly Asn Lys Val Arg Thr Tyr Ala His Leu Ala Leu
50 55 60

Lys Glu His Pro Ser Lys Ala Ala Lys His Lys Arg Leu Leu Gln Arg
65 70 75 80

Leu

<210> 7084

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7084

Arg Leu Arg Leu Trp Gln Arg Phe Leu Lys Arg Leu Lys Lys Ala Trp
1 5 10 15

Cys Leu Ser Leu Val Lys Ile Asp Leu Ala Phe Gly Arg Ile
20 25 30

<210> 7085

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7085

Met Phe Lys Leu Phe His Lys Phe Ile Lys Leu Phe Ser Gln Ala Met
 1 5 10 15

Leu Leu Lys Leu Trp Lys Ala Arg Ala Met Asn Lys Ala Arg
 20 25 30

<210> 7086

<211> 39

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7086

Trp Leu Lys Leu Leu Lys Lys Phe Phe Lys Leu Trp Asn Lys Gln Ile
 1 5 10 15

Lys Ala Phe Arg Ala Lys Leu Ala Arg Gln Ala Lys Lys His Pro Phe
 20 25 30

His Phe Tyr Ala Met Arg Cys
 35

<210> 7087

<211> 68

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7087

Lys Met Lys Tyr Ile Cys Arg Leu Leu Lys Arg Phe Lys Gln Asn Leu
 1 5 10 15

Leu Lys Leu Arg Met Tyr Arg Leu Lys Arg Lys Val Lys Glu Arg Leu
 20 25 30

Pro Asn Glu Ala Ala Val Gln Pro Val Ala Lys Trp Leu Leu Lys Thr
 35 40 45

Thr Lys Thr Pro Thr Leu Arg Lys Met Tyr Leu Lys Ser Ala Ala Arg
 50 55 60

Arg Phe Leu Tyr

65

<210> 7088

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7088

Arg	Leu	Lys	Trp	Tyr	Gln	Arg	Met	Leu	Lys	Arg	Leu	Ser	His	Gly	Lys
1				5					10					15	

Lys	Ala	Leu	Arg	Ala	Arg	Gly	Leu	Arg	Trp	Leu	Cys	Asp	Leu	Lys	Phe
			20					25					30		

Leu	Ser	Leu	Ala	Arg	Gly	Ile	Arg
		35					40

<210> 7089

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7089

Arg	Met	Arg	Leu	Phe	Arg	Lys	Ile	Phe	Arg	Arg	Tyr	Asn	Arg	Ala	Val
1				5					10					15	

Trp	Thr	Trp	Arg	Ala	Gln	Lys	Lys	Leu	Cys	Gln	Ala	Ile	Ala	Ala	Ala
			20					25					30		

<210> 7090

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7090

Arg	Leu	Lys	Ile	Leu	Lys	Arg	Tyr	Leu	Lys	Leu	Leu	Gln	Asn	Arg	Tyr
1				5					10					15	

Ser	Thr	Tyr	Lys	Ala
-----	-----	-----	-----	-----

20

<210> 7091
 <211> 62
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7091

Tyr Phe Arg Phe Trp Arg Arg Tyr Trp Arg Lys Met Asn Lys Asn Lys
 1 5 10 15

Leu Val Lys Arg Met Lys Lys His Arg Asn Arg Arg Lys Ala Glu Ala
 20 25 30

Leu Leu His Cys Lys Thr Ile Arg Cys Lys Leu Ile His Ala Trp Ala
 35 40 45

Leu Leu Tyr Gln Arg His Thr Leu Lys Leu Leu Asn Ala Ala
 50 55 60

<210> 7092
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7092

Arg Trp Lys Leu Tyr Ser Lys Ile Leu Arg Arg Tyr Cys Pro Leu Leu
 1 5 10 15

Arg Asp Glu Arg Arg Ala Ala Ala Arg Arg Ala Cys Leu
 20 25

<210> 7093
 <211> 68
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7093

Leu Trp Arg Ile Ile Cys Lys Leu Leu Arg Lys Phe Arg His Leu Arg

[illegible]

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<210> 7094
<211> 25
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 7094
```

Leu Tyr Lys Leu Leu Asn Lys Leu Leu Arg Arg Ile Ser Lys Gly Lys
1 5 10 15

Leu Phe Ala Asp Leu Ile Leu Arg Lys
20 25

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<210> 7095
<211> 81
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 7095
```

Ile Tyr Arg Leu Ile Lys Lys Phe Tyr Lys Lys Ile Ser Arg Lys Pro
1 5 10 15

Lys Ala Gly Ala Ala Arg Cys Asn Lys Leu Phe Ala Ile Arg Met Lys
20 25 30

Ala Leu Ile Ile Ile Arg Ala Leu Ala Phe Leu Ala Ala His Ile Ala
35 40 45

Asn Ala Asp Leu Leu Ser Arg Lys Ala Ile Leu Glu Leu Lys Thr Ile
 50 55 60

Lys Ala Arg Lys Trp Lys Arg Arg Thr Leu Trp Gly Met Leu Arg Ser
 65 70 75 80

Trp

<210> 7096
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7096

Lys Leu Lys Met Leu Lys Arg Leu Tyr Arg Arg Tyr Thr His Tyr Leu
 1 5 10 15

Leu Ser Leu Met Arg Cys Asp
 20

<210> 7097
 <211> 80
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7097

Arg Leu Lys Phe Phe Arg Arg Phe Trp Arg Lys Leu Lys Lys Ala Leu
 1 5 10 15

Leu Phe Ser Pro Leu Lys Leu Phe Val Ala Asp Ile Ala Asp Met Thr
 20 25 30

Gln Phe Lys Trp Lys Ala Gln Lys Leu Cys Val Leu Asn Arg Cys Ala
 35 40 45

Ala Ala Gly Leu Ala Ser Pro Lys Lys Lys Ile Lys Trp Lys Lys Arg
 50 55 60

Arg Phe Asn Arg Leu Lys Glu Ala Glu Pro Pro Ala Leu Met Arg Ser

```
<210> 7098
<211> 55
<212> PRT
<213> Artificial Sequence
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<220>
<223> Computer-generated peptide variant

<400> 7098

Met Met Arg Tyr Met Lys Arg Ile Leu Lys Lys Leu Arg Lys Ala Ala
1 5 10 15

Gly Ala Arg Pro Leu Gln Arg Ala Lys Ala Phe Arg Trp Leu Asp Leu
20 25 30

Lys Leu Lys Leu Asn Asp Ala Ser Ala Arg Tyr Trp Ile Arg Lys Lys
35 40 45

Ala Trp Gln Lys Tyr Trp Asn
50 55

<210>	7099
<211>	82
<212>	PRT
<213>	Artificial Sequence

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<220>
<223> Computer-generated peptide variant
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<400> 7099

Arg Leu Arg Leu Leu Arg Lys Leu Ile Arg Arg Leu Cys Lys Ala Phe
1 5 10 15

Trp Asn Gly Arg Tyr Leu Leu Leu Glu Glu Ala Lys Gln Cys Ala Leu
20 25 30

Ser Arg Met Trp Arg Arg Gln Lys Leu Lys Pro Tyr Cys Gly Arg Gln
35 40 45

Leu Leu Gln Arg Lys Lys Arg Lys Ala Trp Cys Ala Glu Glu Thr Ala
50 55 60

Arg His Ala Gln Tyr Arg Ala Lys Glu Cys Ile Lys Arg Arg Ala Arg
65 70 75 80

His Asn

<210> 7100
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7100

Phe Leu Lys Trp Trp Pro Lys Tyr Tyr Arg Lys Tyr Arg Arg Asn Gln
 1 5 10 15

Gln Gly Ser Lys Asn Leu Lys Ala Asn Pro Leu Leu Leu Leu Arg Ala
 20 25 30

Ala Ala

<210> 7101
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7101

Leu Phe Arg Leu Leu Thr Arg Leu Trp Lys Lys Leu Thr Lys Gln Ser
 1 5 10 15

Trp Thr Met Lys His Leu Phe Arg Ala Lys Leu Gln Leu Glu Lys Cys
 20 25 30

<210> 7102
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7102

Leu Leu Lys Tyr Tyr Asn Arg Leu Leu Arg Leu Ile Arg Pro Ala Phe
 1 5 10 15

Lys Arg Lys Met Ile Glu Lys Ala Arg Lys Ala Trp Lys Arg Cys Arg
 20 25 30

Ala Gln Lys Ser Arg Leu Leu Ile
 35 40

<210> 7103

<211> 56

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7103

Leu Met Lys Trp Trp Lys Arg Leu Phe Lys Lys Ile Arg Asn Ile Lys
 1 5 10 15

Ala Glu Thr Ala Gln Leu Arg Phe Pro Tyr Thr Trp Arg Lys Cys Gln
 20 25 30

Ala Met Leu Lys Tyr Arg Arg Ser Arg Glu Ala Leu Ile Leu Lys Lys
 35 40 45

Ala Leu Leu Phe Leu Phe Met Arg
 50 55

<210> 7104

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7104

Arg Leu Arg Met Leu Pro Lys Ile Met Arg Phe Phe Arg Arg Glu Ala
 1 5 10 15

Ala Lys Val Ala Ile
 20

<210> 7105

<211> 43

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7105

Lys	Leu	Arg	Leu	Ile	Lys	Arg	Leu	Ile	Lys	Arg	Met	Lys	Thr	His	Met
1				5					10					15	

Asn	Ala	Trp	Ala	His	Arg	His	Arg	Ala	Ala	Ala	Lys	Thr	Tyr	Leu	Leu
			20					25					30		

Arg	Gln	Arg	Glu	Ile	Thr	Phe	Lys	Ala	Pro	Phe
			35				40			

<210> 7106

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7106

Phe	Leu	Lys	Leu	Ile	Lys	Lys	Phe	Leu	Arg	Met	Phe	Asn	Arg	Ala	Ala
1				5					10					15	

Tyr	Leu	Phe	Leu	His	Arg	Lys	Leu	Lys	Arg	Leu	Arg
			20					25			

<210> 7107

<211> 80

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7107

Lys	Leu	Lys	Ile	Leu	His	Arg	Phe	Phe	Arg	Arg	Met	Lys	Ser	Asn	Leu
1				5					10					15	

Gln	Arg	Leu	Ala	Leu	Pro	Arg	Ala	Asn	Leu	Lys	Met	Ala	Pro	Asn	Ala
			20					25					30		

Leu	Tyr	Pro	Gly	Ala	Met	Arg	His	Arg	Arg	Met	Arg	Arg	Lys	Ile	Lys
			35				40					45			

His	Leu	Cys	Ala	Ser	Ala	Ala	Glu	Asn	Ala	Ala	Lys	Ala	Met	Asn	Arg
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

50

55

60

Lys Val Lys Arg Gln Val His Ser Val Ala Gly Tyr Glu Leu Lys Arg
 65 70 75 80

<210> 7108

<211> 41

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7108

Lys Ile Arg Leu Leu Thr Lys Trp Trp Lys Phe Trp Arg Arg Ala Tyr
 1 5 10 15

Ala Ala Gln Lys His Leu Arg Leu Arg Leu Ala Ser Ser Arg Ser Leu
 20 25 30

Leu Trp Asn Arg Pro Trp Leu Ala Thr
 35 40

<210> 7109

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7109

Arg Tyr Lys Leu Tyr Arg Lys Leu Phe Arg Arg Phe Asn Lys Arg Ala
 1 5 10 15

Met Lys Arg His Ala Lys Gln Leu Trp Glu His Lys Gly Ala Ser Ala
 20 25 30

Ala Ala Ala
 35

<210> 7110

<211> 86

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7110

Met Leu Arg Phe Tyr Arg Arg Leu Leu Lys Phe Phe Lys Lys Leu Arg
 1 5 10 15

Asn Gly Arg Arg Trp Met Gly Lys Leu Lys Asp Trp Glu Lys Cys Glu
 20 25 30

Cys Lys Leu Asp Leu Arg Arg Ala Arg Thr Lys His Ala Ala Lys Lys
 35 40 45

Ala Ala Ala Gly Met Arg Gly Arg Arg Ile Leu Asn Gln Glu Lys Ala
 50 55 60

Lys Pro Leu Arg Lys Thr Arg Pro Asn Asn His Cys Leu Phe Ser Ala
 65 70 75 80

Asn Leu Lys Leu Leu Arg
 85

<210> 7111

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7111

Phe Phe Arg Leu Leu Arg Arg Leu Leu Arg Ile Leu Arg Arg Thr Leu
 1 5 10 15

Glu Ala His Arg Gly Phe Glu Leu His
 20 25

<210> 7112

<211> 65

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7112

Met Tyr Lys Phe Tyr Thr Lys Phe Phe Lys Met Tyr Arg Arg Lys His
 1 5 10 15

Ala Val Asp Ala Leu Gly Arg Ser Asn Leu Leu Asn Asn Gln Ile Leu
 20 25 30

Arg Arg Ala Glu Asp Ala Arg Leu Arg Tyr Pro Lys Ala Ala Arg Lys
 35 40 45

Tyr Arg Ala Leu Asn Lys Ala Met Trp Lys Leu Ala Leu Arg Leu Asp
 50 55 60

Arg
 65

<210> 7113
 <211> 37
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7113

Trp Phe Lys Leu Leu Arg Lys Leu Leu Lys Lys Ile Gln Lys Gln Pro
 1 5 10 15

Phe Ser Leu Ala Arg Cys Leu Cys Leu Pro Arg Leu His Cys Glu Arg
 20 25 30

Gln Ala Lys Leu Cys
 35

<210> 7114
 <211> 50
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7114

Met Leu Arg Phe Met Arg Lys Tyr Ile Arg Phe Phe Arg Asn Ala Lys
 1 5 10 15

Val Lys Lys Pro Ala Ala Leu Arg Lys Pro Asn Asn Asn Ala Lys Leu
 20 25 30

Leu Ile Leu Lys Ser Val Ala Ile Ala Leu Tyr Ser Val Leu Arg Gly

35

40

45

Lys Arg
50

<210> 7115

<211> 94

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7115

Phe Ile Lys Leu Leu Arg Lys Leu Leu Lys Ile Tyr Lys Arg Pro Thr
1 5 10 15

Asp Leu Met Lys Arg Arg Arg Thr Ala Leu Ala Lys Trp Arg Arg Asn
20 25 30

Arg Asp Lys Cys Ala Leu Lys Ala Asp Leu Ile Pro Ala Ala Ser Cys
35 40 45

Cys Leu Arg Met Trp Ser Arg Ile Lys Ile Met Arg Leu Met Ala Val
50 55 60

Lys Arg Gly Tyr Lys Leu Lys Glu Tyr Leu Met Ala Thr Asp Arg Leu
65 70 75 80

Glu Ala Lys Ala Arg Arg His Glu Leu Arg Ile Ala Gly Tyr
85 90

<210> 7116

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7116

Lys Trp Lys Leu Leu Gln Arg Ile Leu Arg Phe Met Lys Arg Pro Lys
1 5 10 15

Phe Ala Ala Phe Ala Lys Lys Gly Asn Gln Ser Ala Arg Lys Met Asn
20 25 30

Leu Phe

<210> 7117
 <211> 76
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7117

Lys Leu Arg Tyr Tyr Cys Arg Met Leu Arg Lys Leu Ser Thr Ala Arg
 1 5 10 15

Met Ala Cys Thr Lys Gln Lys Pro Leu Leu Thr Lys Arg Gly Leu His
 20 25 30

His Leu Gly Gly Leu Arg Asp Met Ser Arg His Met Leu Lys Gly Arg
 35 40 45

His Gln Asp Arg Ala Ala Lys Val Asn Lys Ala Lys Leu Trp Val Leu
 50 55 60

Leu Leu Arg Asp Ala Lys Leu Gly Arg Arg His Tyr
 65 70 75

<210> 7118
 <211> 26
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7118

Leu Ile Lys Leu Trp Gln Arg Leu Leu Arg Lys Leu Arg Thr Lys Glu
 1 5 10 15

Pro Val Val Arg Leu Pro Arg Asn Arg Ala
 20 25

<210> 7119
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7119

Lys	Leu	Arg	Phe	Phe	His	Arg	Leu	Leu	Lys	Lys	Phe	Pro	Gln	Leu	Asp
1				5					10					15	

Leu	Lys	Ile	Lys	Ala	His	Lys	Leu	Arg	Lys	Ala	Ile	Ser	Arg	Pro	Arg
			20					25					30		

Ala Ser

<210> 7120

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7120

Tyr	Leu	Arg	Met	Trp	Arg	Lys	Leu	Leu	Lys	Arg	Leu	Asn	Arg	Thr	Ala
1				5					10					15	

Lys	Met	His	Met	Leu
				20

<210> 7121

<211> 75

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7121

Lys	Trp	Lys	Tyr	Tyr	Pro	Lys	Ile	Tyr	Lys	Phe	Leu	Arg	Gln	Lys	Lys
1				5					10					15	

Val	Pro	Ala	His	Ala	Arg	Ala	Asp	Leu	Ala	Leu	Gln	Met	Ala	Thr	Ala
			20					25					30		

Phe	Glu	Ala	Lys	Phe	Cys	Arg	Arg	Lys	Ala	Leu	Ala	Arg	Ile	Leu	Cys
			35					40					45		

Tyr Lys Ile Glu His Tyr His Lys Lys Leu Arg Met Lys Met Leu Arg

50

55

60

Lys Lys Lys Ala Lys Arg Leu Leu His Glu Met
 65 70 75

<210> 7122
 <211> 56
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7122

Lys Leu Arg Met Leu Lys Lys Phe Leu Arg Leu Leu Arg Thr Asp Lys
 1 5 10 15

Ala Gln His Arg Ala Leu Arg Cys Arg Met Ser Gln Lys Gln Leu Lys
 20 25 30

Ala Thr Trp Arg Leu Ala Val Leu Lys Asn Leu Ala Gln Ala Leu Lys
 35 40 45

Lys Tyr Pro Glu Pro Ser Ser Asn
 50 55

<210> 7123
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7123

Arg Tyr Lys Ile Leu Cys Arg Leu Tyr Arg Lys Ile Gln His Ala Leu
 1 5 10 15

Thr Lys Lys Val Ala Ala Leu Arg Gln Ser Lys Phe Glu
 20 25

<210> 7124
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7124

Met Phe Arg Leu Met Lys Arg Tyr Leu Lys Leu Leu Arg Arg Ala Tyr
1 5 10 15

Tyr Asn Leu Val Lys Val Lys Leu Lys Lys Ile Asp His Leu Tyr Ile
20 25 30

Leu

<210> 7125

<211> 75

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7125

Leu Leu Arg Leu Phe Gln Lys Phe Phe Arg Arg Leu Asn Lys Ala Trp
1 5 10 15

Ala Ser Thr Arg Arg Ala Lys Leu Ala Lys Trp Glu Leu Arg Phe Arg
20 25 30

Arg Gln Phe Gly Pro Arg Ala Ser Leu Leu Arg His Thr Ile His Pro
35 40 45

Leu Ala Arg Lys Leu Leu Ile Leu Asp Phe Arg Ala Pro Arg Leu Ala
50 55 60

Thr Pro Lys Pro Arg Lys Ile Cys Arg Asn Lys
65 70 75

<210> 7126

<211> 53

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7126

Arg Leu Lys Tyr Leu Lys Lys Leu Phe Arg Lys Phe Arg Lys Glu Leu
1 5 10 15

Met Ala Tyr Ser Leu Leu Lys Ala Trp Gly Lys Val Ala Cys Leu Thr
 20 25 30

Ala Ser Cys Gln Ala Ser Gln Lys Arg Ala Gln Pro Ala Lys His Ala
 35 40 45

Ala Gln Arg Gly Phe
 50

<210> 7127
 <211> 55
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7127

Leu Tyr Arg Leu Phe Cys Arg Ile Met Arg Lys Ile Lys Arg Arg Phe
 1 5 10 15

Lys Leu Tyr Ala Met Leu Arg His Ile Ala Ala Ala Lys Ile Leu Val
 20 25 30

Lys Ala Asn Ala Arg Arg Lys Ala His Gly Gly Ala Trp Asp Ser Arg
 35 40 45

Ala Ala Leu Trp Ala Ile Ile
 50 55

<210> 7128
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7128

Arg Met Arg Phe Leu Arg Arg Phe Leu Arg Lys Phe Lys Gln Ala Thr
 1 5 10 15

Val Ala Lys Tyr Ala Arg Leu Arg Leu Arg Cys Trp Ala Cys
 20 25 30

<210> 7129

<211> 61
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7129

Lys Leu Arg Leu Met His Lys Leu Phe Lys Arg Met Ser Cys Ala Ala
 1 5 10 15

Leu Asp Ala Tyr Leu Lys Arg Asp Arg Lys Leu Phe Ala Lys Gln Ala
 20 25 30

Tyr Ser Leu Phe Thr Cys His Val Leu Asn Lys Leu Leu Ala Asn Lys
 35 40 45

Arg Lys Val Ser Ala Leu Trp Asp Leu Arg Pro Pro Phe
 50 55 60

<210> 7130
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7130

Leu Ile Arg Leu Leu Arg Arg Ile Phe Lys Ile Leu Lys Cys Ala Lys
 1 5 10 15

Glu Pro Lys Leu Ala Ala Glu Ala Lys Cys Lys His Ala Arg Leu Ala
 20 25 30

Ala Gln Lys Arg Lys Leu Cys Thr
 35 40

<210> 7131
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7131

Lys Leu Arg Leu Leu Asn Lys Leu Met Arg Phe Leu Gln Arg Val Gln

1 5 10 15

Leu Gln Met Gln Glu Lys Ala His Leu Arg Lys Leu Leu
20 25

<210> 7132
<211> 48
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 7132

Phe Ile Lys Met Leu Lys Arg Phe Ile Lys Arg Phe Lys Arg Asn Ala
1 5 10 15

Asp Ala Pro Gln Ser Arg Lys Ile Ala Ala Ala Leu Leu Leu Ala Arg
20 25 30

Thr Ala His Leu Leu Ile Val Phe Asn Lys Leu Trp Ala Phe Lys Lys
35 40 45

<210> 7133
<211> 26
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 7133

Leu Phe Arg Leu Trp Lys Lys Met Ile Lys Lys Leu Lys Thr Ala Ala
1 5 10 15

Lys Pro Leu Gly Lys Asn Ala Arg Arg Ala
20 25

<210> 7134
<211> 24
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 7134

Lys Met Arg Leu Leu Ser Lys Phe Leu Lys Leu Leu Lys Lys Ser Thr

1 5 10 15

Thr Glu Gly Ile Tyr Lys Arg Ala
20

<210> 7135
<211> 34
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 7135

Lys Ile Arg Leu Trp Arg Arg Phe Phe Arg Met Leu Ser Pro Leu Leu
1 5 10 15

Arg Ala Phe Lys Phe Ala Asp Ala Met Arg Leu Arg Trp Arg Ala Leu
20 25 30

Lys Lys

<210> 7136
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 7136

Lys Leu Lys Tyr Leu Pro Arg Leu Phe Arg Lys Phe Lys His Gln Trp
1 5 10 15

Ala Arg Asp Arg Leu Ile Cys Leu Leu Pro Trp Arg Val Ala Arg Asn
20 25 30

<210> 7137
<211> 33
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 7137

Leu Leu Arg Met Leu Asn Arg Ile Leu Arg Arg Leu Thr Gln Tyr Leu

1 5 10 15

Lys Glu Gly Ala Gly Lys Arg Leu Pro Arg Lys Arg Leu Val Lys Cys
20 25 30

Lys

<210> 7138
<211> 22
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 7138

Leu Leu Arg Tyr Tyr Arg Lys Leu Phe Arg Met Met Cys Lys Ala Ala
1 5 10 15

Ala Leu Arg Leu Glu Ser
20

<210> 7139
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 7139

Arg Phe Lys Leu Leu Lys Arg Phe Trp Lys Phe Met Pro Arg His Leu
1 5 10 15

Leu His Thr Trp Ala Asn Ala Val Lys Lys Asn Thr Lys Lys Met Ala
20 25 30

Lys Leu Ala Arg Thr Arg Ala Gln
35 40

<210> 7140
<211> 38
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 7140

Leu Tyr Lys Trp Ile Pro Lys Phe Trp Lys Lys Phe Arg Asn Val Ala
 1 5 10 15

His Arg Val Arg Leu Lys Ala Leu Leu Ala Ser His Lys Ala Pro Ala
 20 25 30

Lys Arg Asp Val Trp Lys
 35

<210> 7141

<211> 100

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7141

Arg Met Lys Leu Ile Arg Lys Trp Tyr Lys Lys Leu Ser Cys Lys His
 1 5 10 15

Arg Arg Arg Ala Lys Ser Glu Val Tyr Lys Ala Met Ala Arg Tyr Leu
 20 25 30

Ile Lys Lys Gly Glu Arg Ser Lys Arg Leu Leu Gly Ser Ala Leu Lys
 35 40 45

Leu Asp Leu Leu Thr Arg His Gly Gly Pro Ala Pro Lys Leu Val Asp
 50 55 60

Trp Lys Leu Leu Ala Gly Lys Ser Ala Lys Gln Cys Pro Asn Ala Phe
 65 70 75 80

Asp Leu Arg Ile Tyr Glu Gly Arg Lys Lys Met Leu Lys Leu Met Lys
 85 90 95

Asn Arg Tyr Arg
 100

<210> 7142

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7142

Phe	Ile	Lys	Trp	Leu	Lys	Lys	Leu	Met	Arg	Leu	Met	Arg	Pro	Ala	Arg
1				5				10						15	

Ser	Leu	Lys	Glu	Lys	Cys	Leu	His	Ala	Lys	Leu
			20				25			

<210> 7143

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7143

Leu	Tyr	Arg	Leu	Tyr	Arg	Arg	Met	Phe	Arg	Lys	Trp	Thr	Lys	Arg	Lys
1				5				10						15	

Ala	His	Lys	Lys	Asn	Leu	Thr	Leu	Ile	Cys	Lys	Tyr	Ala	Leu	Cys	Leu
			20					25					30		

Ala	Leu	Pro	Asn
			35

<210> 7144

<211> 31

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7144

Arg	Leu	Arg	Trp	Leu	Pro	Lys	Phe	Ile	Lys	Tyr	Leu	Arg	Lys	Met	Cys
1				5				10						15	

Leu	Gln	Cys	Ala	Pro	Lys	Met	Gln	Lys	Thr	Ala	Leu	Ala	Leu	Arg
			20					25					30	

<210> 7145

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7145

Lys	Leu	Arg	Phe	Phe	Arg	Arg	Phe	Leu	Lys	Leu	Tyr	Lys	Lys	Phe	Met
1				5					10					15	

Tyr	Tyr	Lys	Leu	Ser	Ala	Met	Asp	Ala	Lys	Leu	Met	Glu	Leu	Lys	Gln
			20					25					30		

<210> 7146

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7146

Leu	Met	Arg	Tyr	Leu	Arg	Arg	Leu	Leu	Arg	Arg	Leu	Lys	Lys	Ala	Ala
1				5					10					15	

Gln	Arg	Leu	Gly	Lys	Met	Ala	Ala	Leu	Lys	Asp	Ala	Asn	Cys	Phe	Lys
			20					25					30		

Leu	Met	Ile	Glu
			35

<210> 7147

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7147

Lys	Leu	Arg	Leu	Leu	Pro	Arg	Trp	Met	Lys	Arg	Tyr	Arg	Pro	Tyr	Trp
1				5					10					15	

Leu	Lys	Thr	Ala	Asn
				20

<210> 7148

<211> 75

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7148

Lys	Trp	Arg	Trp	Leu	Arg	Lys	Phe	Tyr	Arg	Arg	Phe	Arg	Thr	Gly	Lys
1				5					10					15	

Trp	Leu	Leu	Asp	Ala	Asp	Gln	Ala	Leu	Ala	Ala	Arg	Val	Cys	Leu	Met
			20					25					30		

Phe	Arg	Lys	Met	Arg	Leu	Phe	Phe	Leu	Arg	Lys	Ser	Ala	Arg	Asp	Arg
		35					40					45			

Ala	Leu	Ala	Trp	Cys	Arg	Leu	Val	Arg	Ala	Lys	Ala	Arg	Ser	Pro	Val
	50					55					60				

Arg	Leu	Trp	Leu	Arg	Trp	Lys	Gln	Leu	Lys	Gln
65					70					75

<210> 7149

<211> 60

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7149

Arg	Leu	Lys	Tyr	Tyr	Lys	Arg	Leu	Leu	Arg	Leu	Phe	Lys	Asn	Met	Leu
1				5					10					15	

Glu	Lys	Asn	Tyr	Ala	Leu	Ala	Asp	Arg	Arg	Phe	Phe	Leu	Leu	Ala	Lys
			20					25					30		

Thr	Ala	Leu	Ser	Leu	Ala	Cys	Pro	Ala	Asn	Arg	Phe	Lys	Leu	Thr	Lys
			35				40					45			

Leu	Leu	Leu	Lys	Ser	Val	Pro	Gln	Ile	Val	Val	Gly
	50					55					60

<210> 7150

<211> 42

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7150

Leu Phe Lys Phe Leu Lys Arg Phe Ile Arg Leu Met Lys Arg Leu Asp
 1 5 10 15

Cys Leu Trp Arg Lys Arg Cys Arg Lys Ile Leu Ile Ile Val Ala Ala
 20 25 30

Arg Phe Leu Ala Val Lys Gly Lys Val Glu
 35 40

<210> 7151

<211> 69

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7151

Lys Trp Lys Leu Trp Lys Arg Ile Leu Lys Ile Met Arg Lys Arg Lys
 1 5 10 15

Thr Ala Ala Ala Pro Ala Val Arg Arg Leu Ala Met Arg His Val Arg
 20 25 30

Leu Glu Leu Glu Leu Ile Tyr Asn Glu Asn Ser Lys Arg Arg Asn Thr
 35 40 45

Ser Ala Arg Lys Glu Ala Ile Gln Arg Leu Arg Cys Leu Met Arg Pro
 50 55 60

Met Ile Glu Leu Arg
 65

<210> 7152

<211> 99

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7152

Lys Trp Lys Ile Phe Lys Arg Leu Leu Lys Lys Leu Thr His Leu Pro
 1 5 10 15

Ala Leu His Lys Lys Asn Lys Cys Asn Lys Tyr Leu Tyr Ala Tyr Arg
 20 25 30

Lys Pro Leu Leu Lys Ile Leu Leu Leu Asn Ala Leu Ile Lys Ser Arg
 35 40 45

Val Phe Arg Arg His Leu Ala Ile Pro Arg Cys Met Leu Ala Leu Pro
 50 55 60

Pro Leu Ala Leu Lys Gln Leu His Gln Gly His Trp Glu Ile Lys Tyr
 65 70 75 80

Leu Ala Lys Gly Pro Arg Asp Ala Trp Leu Ala Leu Leu Leu Ala Arg
 85 90 95

Lys Met Glu

<210> 7153
 <211> 63
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7153

Lys Met Lys Leu Ile Thr Lys Met Leu Arg Arg Leu Gln Lys Trp Lys
 1 5 10 15

Gly Lys Phe Lys Val Trp Pro Cys Ala Asn Gln Leu Ala Ala Leu His
 20 25 30

Leu Gln Leu Leu Lys Lys Arg Thr Thr Thr Arg Arg Asp Arg Ser His
 35 40 45

Arg Ala Cys Ile Arg Gly Arg Ala Ala Ala Leu Ala Val Lys Tyr
 50 55 60

<210> 7154
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7154

Arg Leu Arg Leu Ile Lys Arg Met Phe Arg Lys Trp Gln Thr Leu Lys
 1 5 10 15

Leu Lys Met Leu Gly His Cys Leu Lys Pro Val Asp Ala Leu Leu Leu
 20 25 30

Lys Gly

<210> 7155

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7155

Arg Phe Lys Leu Leu Cys Arg Phe Leu Lys Lys Leu Arg His Glu Asn
 1 5 10 15

Glu Leu Ala Lys Leu Arg Phe
 20

<210> 7156

<211> 43

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7156

Lys Ile Lys Trp Trp Thr Lys Tyr Leu Lys Ile Leu Arg Pro Leu Leu
 1 5 10 15

Ala Leu Lys Arg Leu Glu Lys Tyr Val Leu Lys Lys Lys Val Glu Ala
 20 25 30

Met Leu Ser Asp Ala Thr Lys Trp Ala Gln Arg
 35 40

<210> 7157

<211> 64

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7157

Lys Phe Arg Phe Trp Lys Arg Met Tyr Lys Ile Leu His His Leu Leu
1 5 10 15

Lys Ala Glu Lys Arg Glu Leu Arg Lys Arg Tyr Leu Lys Ala Leu Ala
20 25 30

Ala Leu Ala Lys Lys Arg Ala Met Lys Tyr Val Ala Met Thr Lys Thr
35 40 45

Ala Leu Arg Ala Arg Asp Ser Arg Ala Arg Ala Ala Gln Pro Cys Asn
50 55 60

<210> 7158

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7158

Leu Phe Lys Leu Met Lys Arg Leu Phe Lys Arg Leu Ser Ser Ala Arg
1 5 10 15

Ala Pro Lys Phe
20

<210> 7159

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7159

Leu Met Lys Tyr Leu Arg Lys Trp Leu Lys Tyr Tyr Arg Cys Arg Ala
1 5 10 15

Glu Ala Tyr Gln Leu Ala Arg Arg Leu Phe Leu Ala His
20 25

<210> 7160
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7160

Arg Met Arg Trp Leu Cys Lys Phe Met Lys Ile Met Arg Pro Arg Arg
 1 5 10 15

Ala Leu Leu Gly Lys Ala Ala Ile Tyr Tyr Gln Leu Cys Arg Gln Ala
 20 25 30

Lys Ala Pro Lys Pro Ser Lys Arg
 35 40

<210> 7161
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7161

Leu Leu Lys Phe Phe Lys Lys Leu Leu Arg Trp Leu Lys Cys Glu Lys
 1 5 10 15

Lys Ser Val Ile Arg Val Leu Thr Ala Arg Thr Ala Leu
 20 25

<210> 7162
 <211> 63
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7162

Arg Trp Arg Leu Leu Arg Lys Phe Met Arg Phe Leu Lys Lys Ala Arg
 1 5 10 15

Lys Ala Ile Thr Ser Asn Asn Lys Tyr Gly His Lys Trp Ala Trp Ile
 20 25 30

Cys Leu Phe Gln Met Arg Phe Tyr Lys Tyr Ala Ala Ala Ala Gln Lys
 35 40 45

Pro Arg Arg Thr Leu Leu Lys Lys Cys Leu Ala Lys Gly Arg Ala
 50 55 60

<210> 7163
 <211> 73
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7163

Arg Phe Arg Phe Leu Ser Arg Tyr Leu Arg Trp Tyr Lys Arg Arg Ala
 1 5 10 15

Ser Ala Met Lys Ala Ile Phe Asp Lys Ala Arg Leu His Gln Lys His
 20 25 30

Thr Ala Leu Arg Ile Ala Ala Ala Gly Trp Arg Arg Leu Met Arg Thr
 35 40 45

Gly Arg Leu Lys Leu Gly Ala Val Ser Leu Asn Pro Ala Lys Leu Leu
 50 55 60

Asp Thr Leu Lys Gln Asp Arg Pro Gly
 65 70

<210> 7164
 <211> 46
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7164

Lys Leu Arg Phe Leu Gln Lys Trp Leu Arg Lys Leu Arg Arg Lys Ile
 1 5 10 15

Ser Val Ser Ile Arg Ala Glu Met Lys Ala Val Thr Leu Ala Gly Ala
 20 25 30

Val Ala Arg Arg Phe Asp Ala His Lys Ala Arg Tyr Ser Trp

35

40

45

<210> 7165

<211> 68

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7165

Met Leu Arg Tyr Leu Ser Lys Leu Leu Lys Tyr Tyr His Arg Lys Ala
 1 5 10 15

His Lys His Ser Lys Ala Asn Leu Asn Met Asn Ala Leu Tyr Ala Ala
 20 25 30

Phe Arg Ala Leu Arg Arg Tyr Glu Leu Ala Leu Arg Cys Tyr Ala Lys
 35 40 45

Arg Ala Cys Tyr Pro Cys Cys Met Ile Ala Lys Trp Lys Lys Leu Ser
 50 55 60

Arg Trp Asn Lys
 65

<210> 7166

<211> 38

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7166

Leu Trp Arg Met Trp Gln Arg Phe Ile Arg Lys Ile Thr Lys Ala Ser
 1 5 10 15

Leu Ile Leu His Cys Leu Arg Asn Pro Lys Lys Asp Trp Ala Lys Leu
 20 25 30

Arg Leu Trp Ala Lys Arg
 35

<210> 7167

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7167

Leu Phe Arg Ile Met Pro Arg Met Phe Arg Lys Phe Arg Thr Ala His
1 5 10 15

Lys Ala Lys Arg Ser His Tyr Lys Leu Ser Leu Arg Ala Leu Met Leu
20 25 30

Ala Lys Cys Leu
35

<210> 7168

<211> 45

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7168

Lys Ile Lys Leu Ile Arg Lys Phe Leu Arg Lys Ile Arg Lys Cys Arg
1 5 10 15

Trp Ala Ala Ala Val Gly Ala Asn Lys Ala Trp Leu Asn Ala Ala Val
20 25 30

His Ala Val Lys Ala Leu Thr Leu Arg Asn Leu Lys Arg
35 40 45

<210> 7169

<211> 94

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7169

Arg Ile Lys Leu Leu His Arg Met Phe Lys Ile Ile Thr Lys Gln Arg
1 5 10 15

Arg Arg Ala Met Arg Val Ile Ala Trp Gln Arg Leu Ala Ala Lys Cys
20 25 30

Lys Thr Ala His Gly Trp Ala Phe Leu Phe Arg Arg Ala Arg Gly Ala
 35 40 45

Glu Ser Arg Arg Leu Ala Asp Leu Lys Ala Gly Ile Arg Leu His Ala
 50 55 60

Arg Arg Arg Val Lys Trp Ala Ala Tyr Ile Lys Ile Val Trp Arg Lys
 65 70 75 80

Leu Tyr Tyr Ala Ala Glu Lys Lys Phe Leu Lys Lys Lys Arg
 85 90

<210> 7170

<211> 84

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7170

Arg Met Lys Phe Ile Arg Lys Ile Leu Lys Phe Leu Cys Lys Gln Arg
 1 5 10 15

Lys Leu Ala Val Asn Val Trp Ala Lys Trp Ala Leu Ala Lys Gly Leu
 20 25 30

Ser Phe Leu Arg Ala Lys Cys Lys Pro Glu Ala Arg Ala Met Met Ala
 35 40 45

Ala Leu Lys Gly Ala Met Lys Phe Ala Arg Asn Leu Lys Leu Leu Ser
 50 55 60

Phe Trp Gly Val Lys Leu Ser Ala Ala Arg Cys Pro Pro Ser Arg Asp
 65 70 75 80

Pro Arg Leu Arg

<210> 7171

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7171

Met Leu Arg Tyr Trp His Arg Leu Phe Arg Lys Leu Lys Arg Asp His
1 5 10 15

Lys Lys Ile Trp Lys Ala Asp Ala Leu Tyr Pro Asn Lys Asn Thr Ala
20 25 30

Lys Ala

<210> 7172

<211> 65

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7172

Phe Phe Arg Phe Ile Cys Lys Leu Leu Lys Arg Leu Lys Arg Tyr Leu
1 5 10 15

Ile Leu Trp Lys Lys Arg Lys Lys Ala Leu Ala Lys Arg Leu Ser Arg
20 25 30

Asp His Leu Ala Arg Arg Lys Trp Ala Phe Lys Arg Val Tyr Phe Leu
35 40 45

Trp Gly Thr Leu Leu Pro Ala Glu Leu Ser Trp Tyr Pro Thr Lys Leu
50 55 60

Asn

65

<210> 7173

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7173

Lys Trp Arg Phe Leu Pro Arg Met Leu Arg Arg Leu Lys Arg Cys Gly
1 5 10 15

Ala Glu Asp Met Ile Arg Ala Leu Arg Ala His Leu Val Pro
20 25 30

<210>	7174
<211>	27
<212>	PRT
<213>	Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 7174

Met Trp Arg Leu Leu His Arg Phe Phe Lys Leu Phe Lys Arg Glu Lys
1 5 10 15

Val Arg Gln Ala Ala Ile Leu Phe Arg Leu Pro
20 25

<210>	7175
<211>	39
<212>	PRT
<213>	Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 7175

Tyr Leu Arg Leu Tyr Lys Arg Trp Leu Arg Leu Tyr Ser Arg Arg Leu
1 5 10 15

Arg Asn Leu Leu Leu Glu His Tyr Ala Ala Asp Gly Lys Arg Met Ala
20 25 30

Leu Asn Leu Arg Lys Trp Met
35

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<210> 7176
<211> 22
<212> PRT
<213> Artificial Sequence
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<220>
<223> Computer-generated peptide variant

<400> 7176

Lys Leu Lys Leu Phe Lys Arg Leu Leu Arg Arg Leu Thr Arg Lys Leu
1 5 10 15

Ala Pro Lys Glu Ile Ala
20

<210> 7177
<211> 58
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 7177

Arg Trp Arg Leu Phe Lys Arg Phe Phe Lys Arg Leu Lys Arg Ser Leu
1 5 10 15

Leu Cys Lys Arg Leu Arg Gly Tyr Leu Leu Val Lys Ser Gly Ala Asp
20 25 30

Ala Leu Leu His Ala Arg Ala Trp Arg Arg Cys Leu Trp Ala Ile Ile
35 40 45

Lys Gln His Asn Pro Asn Leu Leu Lys Arg
50 55

<210> 7178
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 7178

Arg Tyr Lys Trp Leu Asn Lys Leu Trp Arg Lys Phe Lys Lys Lys Cys
1 5 10 15

Leu Leu Leu Met Ala
20

<210> 7179
<211> 22
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 7179

Lys Leu Lys Leu Phe Lys Arg Phe Leu Arg Met Leu Cys Gln Leu Lys
 1 5 10 15

Gly Arg Trp Arg Leu Tyr
 20

<210> 7180
 <211> 65
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7180

Lys Phe Lys Phe Ile Lys Arg Met Trp Arg Lys Ile Thr Cys Arg Met
 1 5 10 15

Ala Met Glu Arg Ala Ala Leu Tyr Leu Phe Lys His Ala Leu Cys Asn
 20 25 30

Phe Lys Leu Arg Ile Lys Arg His Ser Lys Asp His Arg Gly Leu Ala
 35 40 45

Leu Trp Arg Ala Leu Ala Phe Ala Ala Leu Leu Ala Asp His Val Ala
 50 55 60

Leu
 65

<210> 7181
 <211> 81
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7181

Phe Phe Lys Met Phe Lys Arg Trp Leu Lys Lys Met Thr His Met Lys
 1 5 10 15

Ala Lys Phe Ile Leu Asp Leu Glu Met Lys Lys Ala Pro Ser Ala Trp
 20 25 30

Asn Leu Asn Tyr Ala Phe Glu Leu Arg Arg Leu Leu Asn Lys Leu Lys

35

40

45

Leu Asn Arg Arg Leu Lys Arg Arg Lys Val Ile Arg Ala Pro Thr Leu
 50 55 60

Leu Ser Pro Arg Arg Lys Ala Ala Gln Gln Lys Gln Ile Cys Ser Arg
 65 70 75 80

Lys

<210> 7182

<211> 80

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7182

Lys Ile Lys Met Leu Arg Arg Met Trp Arg Lys Met Lys Arg Cys Leu
 1 5 10 15

Asp Cys Leu Pro Arg Lys Arg Asn Ser Arg Leu Gln Leu Val Ala Phe
 20 25 30

Arg Arg Ala Leu His Arg Ala Cys Arg Thr Arg Val Lys Leu Gln Ala
 35 40 45

Leu Ala Arg Cys Ala Ala Tyr Thr Met Phe Lys Lys Lys Met Leu Leu
 50 55 60

Ala Gln Tyr Met Phe Ile Ala Ala Thr Cys Phe Lys Ala Asn Asp Gly
 65 70 75 80

<210> 7183

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7183

Lys Leu Arg Met Leu Arg Lys Leu Ile Lys Met Leu Lys Ser Lys Arg
 1 5 10 15

Ser Ile Leu Ile Lys Ile Lys Cys Asp Leu Tyr Val Ile Lys Arg Arg
 20 25 30

Gly Leu Leu Leu Ser Leu Leu Thr
 35 40

<210> 7184

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7184

Trp Leu Arg Tyr Phe Arg Lys Met Ile Arg Arg Leu Cys Arg Pro Leu
 1 5 10 15

Ala Lys Leu Leu Ser Cys Cys Leu Leu Ala Glu Gly Lys Trp Lys Lys
 20 25 30

Phe Lys Ser
 35

<210> 7185

<211> 45

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7185

Leu Tyr Arg Phe Phe Gln Arg Phe Tyr Lys Arg Phe Cys Lys Leu Leu
 1 5 10 15

Arg Lys Gln Leu Arg His Ala Pro Gly Arg Tyr Arg Trp Leu Ala Gln
 20 25 30

Asn Thr Lys Leu Glu Tyr Ala Arg Lys Ile Leu Leu Arg
 35 40 45

<210> 7186

<211> 38

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7186

Arg	Phe	Arg	Met	Leu	Arg	Lys	Phe	Trp	Arg	Trp	Leu	Lys	Lys	Ala	Phe
1				5				10						15	

Lys	Gln	Thr	Leu	Arg	Pro	Ala	Ala	Ala	Leu	Leu	Val	Ala	Thr	Trp	Leu
			20					25					30		

Asp	Ala	Pro	Met	His	Tyr
				35	

<210> 7187

<211> 52

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7187

Ile	Ile	Arg	Leu	Phe	Ser	Lys	Leu	Tyr	Arg	Arg	Leu	Lys	Lys	Met	Ala
1				5				10						15	

Leu	Arg	Arg	Lys	Leu	Leu	Trp	Ser	Asn	Val	Phe	His	Lys	Phe	Lys	Ala
			20					25					30		

Lys	Tyr	Ala	Lys	Arg	Cys	Trp	Arg	Tyr	Asn	Leu	Cys	Arg	Phe	Phe	His
		35				40					45				

Leu	Ile	Arg	Leu
			50

<210> 7188

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7188

Leu	Met	Arg	Tyr	Leu	Arg	Arg	Ile	Trp	Arg	Leu	Leu	His	Lys	Glu	Ala
1				5				10						15	

Arg	Val	Asp	Gln	Ala	Leu
-----	-----	-----	-----	-----	-----

20

<210> 7189
 <211> 63
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7189

Lys Met Arg Leu Leu Ser Arg Phe Trp Lys Leu Leu His Lys Arg Asp
 1 5 10 15

Ala Glu Val Arg Asp Ala Ile Leu Leu Leu Gln Val Trp Arg Ser Arg
 20 25 30

Gln Ala Lys Asn Tyr Glu Glu Ala Ala Leu Gly Lys Ala Glu Ile Ala
 35 40 45

Arg Arg Lys Arg Ala Lys Lys Ala Gly Arg Tyr Cys Leu Ser Tyr
 50 55 60

<210> 7190
 <211> 77
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7190

Met Phe Arg Met Trp Asn Arg Leu Leu Arg Met Leu Lys Cys Arg Lys
 1 5 10 15

Glu Ala Leu Gly Phe Arg Ala Leu Phe Ala Arg Arg Arg Arg Glu Leu
 20 25 30

Leu Ala Leu Arg Ala Leu Ile Ile Ala Trp Lys Tyr Lys Glu Gln Ala
 35 40 45

Phe Arg Cys Arg Asp Arg Gly Gly Arg Asp Cys Phe Cys Lys Leu Ile
 50 55 60

Lys Lys Arg Ala Leu Ile Trp His Ile Arg Val Pro Ala
 65 70 75

<210> 7191
 <211> 45
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7191

Trp Leu Arg Ile Ile Lys Lys Trp Leu Arg Leu Phe Arg Pro Phe Thr
 1 5 10 15

Cys Thr Arg Tyr His Ala Arg Leu Val Ala Lys Phe Arg Ala Ala Leu
 20 25 30

Leu Lys Cys Cys Leu Cys Trp Leu Ala Arg Tyr Arg Lys
 35 40 45

<210> 7192
 <211> 80
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7192

Arg Leu Arg Leu Leu Arg Arg Met Leu Lys Arg Ile His Asn Gly Arg
 1 5 10 15

Ser Asn Met Leu Val Arg Tyr Met Trp Ala Trp Phe Ala Arg Cys Met
 20 25 30

Ala Ile Lys Ala Ser Ala Gln Ile Arg Cys Arg Leu Leu Tyr Cys Ala
 35 40 45

Asp Lys Leu Ala Lys Leu Arg Leu Lys Arg Ala Leu Leu Lys Pro Lys
 50 55 60

Met Lys His Ile Arg Arg Ala Ile Lys Phe Cys Arg Phe Ala Pro Thr
 65 70 75 80

<210> 7193
 <211> 44
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7193

Leu Trp Arg Tyr Ile Lys Lys Phe Phe Lys Tyr Leu Lys Gln Ala Ala
 1 5 10 15

Lys Ala Thr Arg Gly Val Leu Arg Lys Ala Gln Arg Ala Leu Leu Cys
 20 25 30

Gly Phe Arg Arg Lys Lys Leu Pro Met Pro Ala Asn
 35 40

<210> 7194

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7194

Arg Leu Arg Trp Leu Lys Lys Ile Leu Lys Met Phe Asn Arg Lys Leu
 1 5 10 15

Ala Gln His Asn Asn Val Tyr Arg Ile Lys Gly Leu Ala
 20 25

<210> 7195

<211> 80

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7195

Lys Tyr Arg Phe Leu Arg Arg Ile Leu Lys Arg Leu Ser Arg Trp Arg
 1 5 10 15

Arg Lys Arg Tyr Ala Glu Glu Ala Arg Leu Leu Leu Tyr Ser His Lys
 20 25 30

Asn Ile Cys Lys Asn Ala Cys Lys Ala Arg Lys Arg Trp Cys Arg Val
 35 40 45

Ala Met Phe His Thr His Leu Glu Val Lys Ala Trp Lys Glu Leu Ile

50

55

60

Lys Leu Asp Asn Ala Gly Arg Leu Ala Phe Leu Ala Arg Leu Pro Tyr
 65 70 75 80

<210> 7196
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7196

Arg Phe Arg Ile Leu Arg Lys Phe Phe Lys Arg Met Thr His Pro Leu
 1 5 10 15

Ala Leu Asn Ala
 20

<210> 7197
 <211> 47
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7197

Leu Leu Arg Tyr Phe Arg Arg Tyr Phe Arg Arg Ile Arg Gln Arg Ala
 1 5 10 15

Asn Lys Ala Leu Gln Gly Cys Glu Leu Gln Arg Thr Ala Lys Lys Lys
 20 25 30

Lys Cys Ala Thr Arg Leu Asp Arg Ala Glu Val Ile Gly Asp Leu
 35 40 45

<210> 7198
 <211> 38
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7198

Ile Tyr Lys Phe Leu Lys Lys Leu Phe Lys Lys Ile Asn Arg Ile Arg

1 5 10 15

Ala Arg Phe Ala Ala Leu Leu Val Arg Arg Arg Trp Pro Val Asn Tyr
 20 25 30

Pro Arg Gly Leu Ala Cys
 35

<210> 7199
 <211> 38
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7199

Lys Trp Arg Tyr Leu Asn Arg Tyr Leu Lys Phe Phe Arg Arg Met Ser
 1 5 10 15

Lys Ala Arg Leu Arg Leu Leu Ser Glu His Leu Lys Pro Arg Lys Asp
 20 25 30

Asn Ile Ala Ser Leu Ile
 35

<210> 7200
 <211> 55
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7200

Met Phe Lys Leu Leu Ser Arg Phe Leu Lys Ile Leu Arg Arg Lys Lys
 1 5 10 15

Leu Gln Lys Tyr Arg Leu Arg Tyr Leu Arg Ala Arg Asn Gly His Lys
 20 25 30

Leu Arg Leu Arg Leu Tyr Ala Gly Gln Asn Gln Ala Val His Met Ala
 35 40 45

Gln Arg Met Gln Thr Leu Asn
 50 55

<210> 7201
 <211> 97
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7201

Arg Ile Lys Met Phe Arg Arg Phe Trp Lys Arg Leu Gln Cys Val Arg
 1 5 10 15

Gln Gln Arg Ala Lys Trp Arg His Lys Arg Ala Lys Ala Leu Ala Ala
 20 25 30

Leu Arg Leu Pro Met Asp Leu Lys Val Leu Arg Arg Pro Met Ser Arg
 35 40 45

Met Gln Ala Ala Asp Ala Thr Gln Gly Leu Cys Leu Asn Leu Val Lys
 50 55 60

Tyr Leu Gln Ser Cys Arg Arg Arg Gln Lys Leu Ala Lys Asn Gly Cys
 65 70 75 80

Arg Ala Met Thr Phe Lys Ala Leu Lys Asn Phe Leu Trp Lys Arg Lys
 85 90 95

Ala

<210> 7202
 <211> 47
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7202

Lys Ile Arg Phe Phe Gln Arg Leu Met Lys Leu Ile Thr Arg Ser Glu
 1 5 10 15

Arg Asp Lys Glu Ala Lys Ser Trp Arg Leu Pro Arg Tyr Leu Lys Ala
 20 25 30

Cys Lys Arg Arg Ala Ala His Leu Gln Ala Asn Ala Arg Gly Ala

35

40

45

<210> 7203

<211> 72

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7203

Arg Trp Arg Phe Phe Cys Lys Leu Leu Arg Lys Leu Thr Lys Arg Lys
 1 5 10 15

Ile Arg Thr Met Cys Phe Ala Trp Lys Arg Leu Ala Lys Lys Gly Lys
 20 25 30

Lys Phe Ala Leu Ala Thr Leu Lys Asn Pro Leu Gln Glu Leu Ser Arg
 35 40 45

Thr Arg Arg Thr Arg His Cys Ser Arg Ala Asp Leu Ala Ser Ile Gly
 50 55 60

Glu Arg Arg Asn Leu Ala His Lys
 65 70

<210> 7204

<211> 59

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7204

Lys Leu Lys Tyr Leu His Arg Leu Trp Lys Met Leu Lys Ser Val Asp
 1 5 10 15

Glu Arg His Leu Met Ala Arg Ala Trp Arg Ala Lys Leu Lys Asp Gln
 20 25 30

Arg Leu Lys Lys Arg His Tyr Met Lys Thr Gln Ala Pro Leu Tyr Arg
 35 40 45

His Leu Leu Leu Leu Arg Ser Gln His Pro Lys
 50 55

<210> 7205
 <211> 70
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7205

Ile Phe Lys Ile Leu Arg Lys Phe Leu Lys Phe Trp Cys Arg Lys Lys
 1 5 10 15

Lys Pro Leu Lys Leu Val Trp Phe Trp Val Lys Ala Ala Arg Lys Leu
 20 25 30

Glu Val Gln Ala His His Ala Pro Lys Ala Asn Asn Ala Arg Ala His
 35 40 45

Val His Leu Asn Leu Arg Trp Gln Ala Lys Arg Val Tyr Lys His Lys
 50 55 60

Lys Lys Lys Ser Ala Leu
 65 70

<210> 7206
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7206

Leu Tyr Lys Leu Met Thr Arg Ile Ile Arg Leu Ile Ser Arg Lys Asp
 1 5 10 15

Phe Ala Leu Gly Ala Arg Leu Leu Asp
 20 25

<210> 7207
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7207

Leu Phe Lys Leu Leu Arg Lys Met Tyr Arg Lys Phe Arg Cys Glu Pro
 1 5 10 15

Arg Ile Leu Leu Leu Ala Gly Arg Asn
 20 25

<210> 7208

<211> 46

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7208

Lys Leu Lys Leu Leu Arg Arg Leu Tyr Lys Arg Tyr His Arg Gly Asp
 1 5 10 15

Arg Lys Gln Ala Met Lys Ala Tyr Asn Ser Leu Thr Asn Ala Thr Arg
 20 25 30

Ala Leu Leu Ala Trp Leu Arg Ile Ala Cys Ile Lys Arg Ala
 35 40 45

<210> 7209

<211> 49

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7209

Lys Tyr Lys Leu Ile Ser Lys Leu Phe Arg Arg Met Arg Lys Lys Met
 1 5 10 15

Ala Ala Lys Leu Tyr Thr Leu Leu Asn Gly Trp His Thr Gln Leu Arg
 20 25 30

Ser Gln Ser Ala Leu Lys Ala Leu Arg Ile Pro Lys Thr Arg Leu Ser
 35 40 45

Gly

<210> 7210

<211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7210

Arg Leu Lys Leu Leu Pro Lys Tyr Tyr Arg Ile Leu Pro Lys Val Trp
 1 5 10 15

Asn Lys Pro Ala Leu Arg
 20

<210> 7211
 <211> 31
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7211

Phe Ile Arg Phe Leu Ser Lys Tyr Leu Arg Leu Met Cys Arg Ala Leu
 1 5 10 15

Cys Ala Val Arg Ala Lys Arg Asn Gln Glu Arg Met Lys Ala Ala
 20 25 30

<210> 7212
 <211> 76
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7212

Trp Ile Lys Leu Leu Lys Lys Leu Leu Lys Tyr Trp Arg Lys Tyr Val
 1 5 10 15

Ala Leu Gly Lys Ser Trp Cys Ala Asn Leu His Ala Ala Arg Cys Leu
 20 25 30

Arg Lys Met Cys Asp His Phe Arg Arg Tyr Leu Ala Lys Lys Lys Leu
 35 40 45

Ala His Ser Asp Leu Gln Cys Ala Thr Cys His Leu Phe Ala Leu Asp

50

55

60

Asn Leu Lys Glu Lys Ser Lys Ala Cys Ala Leu Lys
 65 70 75

<210> 7213
 <211> 41
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7213

Arg Leu Lys Leu Ile Thr Arg Ile Leu Lys Lys Leu Lys Arg Arg Ala
 1 5 10 15

Ala Ala Thr Phe Arg Leu Phe Arg Ala Gln Lys Lys Arg Leu Met Gln
 20 25 30

Trp Arg Ala Asn Leu Glu Val Asp Asp
 35 40

<210> 7214
 <211> 49
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7214

Lys Leu Arg Leu Leu His Lys Phe Phe Lys Ile Leu Cys Gln Arg Arg
 1 5 10 15

Leu His Phe Phe Arg Ile Leu Leu Leu Thr Lys Met Leu Leu Lys Met
 20 25 30

Ala Ile Pro Leu Thr Ala Ala Met Ala Arg Lys Lys Glu Leu Lys Lys
 35 40 45

Asn

<210> 7215
 <211> 25
 <212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7215

Arg	Leu	Lys	Leu	Leu	Asn	Lys	Tyr	Leu	Lys	Lys	Leu	Lys	Thr	Glu	Gln
1				5					10					15	

Ala	Arg	Arg	Arg	Val	Ala	Leu	Glu	Lys
			20					25

<210> 7216

<211> 48

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7216

Phe	Ile	Lys	Leu	Phe	Gln	Lys	Trp	Leu	Lys	Lys	Phe	Arg	Ser	Lys	Leu
1				5					10					15	

Met	Ala	Tyr	Met	Leu	Trp	Thr	Met	Ile	Val	Arg	Leu	Ala	Arg	Arg	Leu
			20					25					30		

Leu	Leu	Asn	Pro	Ala	Lys	Ala	Phe	Lys	Ser	Lys	Thr	Arg	Asp	Lys	Arg
		35					40					45			

<210> 7217

<211> 64

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7217

Lys	Phe	Arg	Leu	Phe	Arg	Lys	Ile	Phe	Arg	Phe	Leu	Gln	His	Leu	Glu
1				5					10					15	

Glu	Arg	Ala	Met	Arg	Lys	Gly	Arg	Leu	Lys	Leu	Leu	Gln	Lys	Leu	Leu
			20					25					30		

Ala	Gly	Arg	Lys	Tyr	Ala	Pro	Gln	Gln	Lys	Lys	Trp	Gly	Cys	Lys	His
			35				40					45			

Ile Arg Arg Val Ala Ile Leu Arg Arg Gly Asp Ala Leu Ala Gln Arg
 50 55 60

<210> 7218
 <211> 43
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7218

Tyr Ile Lys Leu Phe Lys Arg Phe Met Arg Arg Met Arg Cys Leu Arg
 1 5 10 15

Ala Arg Lys Ala Leu Trp Ser Lys Ile Ile Leu Leu Asp Arg Ala Glu
 20 25 30

Ala Lys Lys Ala Leu Lys Ala Lys Val Asp Ser
 35 40

<210> 7219
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7219

Tyr Tyr Arg Tyr Phe Lys Lys Met Leu Arg Tyr Leu Arg Ser Ala Arg
 1 5 10 15

Asn Lys Met Phe Leu Ala Ala
 20

<210> 7220
 <211> 44
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7220

Ile Leu Arg Ile Leu Thr Lys Trp Met Arg Lys Leu Thr Ser Phe Ala
 1 5 10 15

Tyr Leu Pro Lys Leu Arg Lys His Ala Ile Ala Pro Arg Arg Ala Thr
 20 25 30

Arg Glu Pro Thr Leu Trp Arg Ala Leu Met Arg Ala
 35 40

<210> 7221
 <211> 47
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7221

Lys Ile Arg Phe Met Ser Arg Leu Leu Lys Arg Trp Asn Pro Asn Trp
 1 5 10 15

Tyr Arg Leu Trp Phe Glu Ala Arg Leu Arg Met Met Ala Ala Tyr Arg
 20 25 30

Met Cys Ala Ala Arg Val Leu His Lys Leu Arg Lys Asp Lys Leu
 35 40 45

<210> 7222
 <211> 38
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7222

Lys Phe Lys Met Leu Lys Arg Leu Leu Lys Trp Met Arg His Phe Lys
 1 5 10 15

Ala Lys Tyr Leu Lys Cys Phe Cys Leu Gly Ala Ala Glu Cys Ala Phe
 20 25 30

Arg Leu Arg Val Glu Arg
 35

<210> 7223
 <211> 74
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7223

Phe	Leu	Arg	Phe	Met	Pro	Lys	Met	Leu	Lys	Lys	Tyr	Asn	Arg	Leu	Arg
1				5					10					15	

Leu	Gln	Ile	Cys	Arg	Gly	Arg	Asn	Ile	Asp	Leu	Cys	Lys	Gly	Ser	Asp
			20					25					30		

Lys	Ser	Arg	Leu	Asn	Cys	Tyr	Cys	Lys	His	Ser	Tyr	Lys	Leu	Arg	Ala
		35					40					45			

Leu	Gln	Ala	Lys	Cys	Lys	Asn	Ala	Gly	Leu	Ala	Ala	Arg	Thr	Leu	Leu
	50					55					60				

Lys	Lys	Leu	Arg	Thr	Ala	Glu	Arg	Leu	Lys
65						70			

<210> 7224

<211> 76

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7224

Tyr	Trp	Lys	Leu	Ile	Lys	Lys	Phe	Leu	Arg	Lys	Ile	Thr	Lys	Arg	Leu
1				5					10					15	

Lys	Leu	Thr	Asn	Lys	Arg	Ala	Leu	Leu	Ala	Lys	Arg	Lys	Lys	Phe	Trp
			20					25					30		

Glu	Arg	His	Thr	Thr	Arg	Trp	Leu	His	Leu	Gln	Lys	Arg	Arg	Arg	Val
		35					40					45			

Leu	Lys	Gly	Ala	Tyr	Phe	Lys	Trp	Gln	Ala	Thr	Ala	Ala	Gln	Trp	Cys
	50					55					60				

Asn	Gln	Lys	Glu	Ala	Ala	Ile	Ser	Gly	Ala	Arg	Leu
65					70					75	

<210> 7225

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7225

Trp Leu Arg Leu Ile Arg Lys Leu Leu Lys Phe Leu Thr Lys Lys Leu
1 5 10 15

Tyr Leu Lys Leu Met Arg Cys Thr Arg Leu Arg Tyr
20 25

<210> 7226

<211> 56

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7226

Arg Tyr Arg Met Leu Arg Lys Ile Phe Lys Lys Leu Arg His Arg Phe
1 5 10 15

Ala Gln Lys Leu His Leu Leu Ala Leu Val Lys Pro Ala Glu Ala Arg
20 25 30

His Thr Arg Glu Ala Asp Trp Arg Leu Lys Gln Thr His Arg Arg Thr
35 40 45

Arg Ala His Lys Leu Ala Asp Ile
50 55

<210> 7227

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7227

Arg Ile Lys Leu Leu Lys Arg Leu Met Lys Leu Phe Lys Cys Lys Leu
1 5 10 15

Lys Gln Leu Lys Leu Lys Gly Cys Arg Ala Ile Leu Met
20 25

<210> 7228
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7228

Lys Trp Lys Leu Phe His Arg Leu Tyr Arg Lys Trp Arg Lys Glu Leu
 1 5 10 15

Ala Phe Ala Met Lys Leu
 20

<210> 7229
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7229

Lys Met Arg Phe Leu Arg Arg Leu Leu Arg Trp Trp Asn Arg Cys Val
 1 5 10 15

Ser Val Val Gln Ala Asn Leu Asn Ala Leu Ala Ala Arg Lys
 20 25 30

<210> 7230
 <211> 41
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7230

Arg Phe Arg Tyr Trp Thr Lys Ile Met Lys Arg Tyr Arg Lys Ala Arg
 1 5 10 15

Ile Ala Met Lys Leu Arg Leu Leu Tyr Lys Leu Arg Gln Leu Ala Ala
 20 25 30

Gln Leu Ala Leu His Ile Ala Leu Pro
 35 40

<210> 7231
 <211> 64
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7231

Arg Ile Arg Leu Ile Arg Lys Trp Phe Arg Lys Trp Ser Lys Asp Lys
 1 5 10 15

Arg Ser Thr Ala Thr Pro Ala Lys Arg Ser Pro Val Ala Arg Val Leu
 20 25 30

Ala Gln Lys Leu Tyr Lys Leu Arg Ser Ser Lys Arg Leu Ala Arg His
 35 40 45

Leu Leu Gly Ala Leu Leu Arg Tyr Gly Lys Phe Phe Arg Gln Asn Leu
 50 55 60

<210> 7232
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7232

Arg Leu Lys Met Phe Lys Arg Leu Met Arg Lys Ile Gln Asn Leu Ala
 1 5 10 15

Leu Lys Ala Leu Arg Arg
 20

<210> 7233
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7233

Phe Trp Arg Tyr Leu Arg Lys Ile Leu Lys Lys Phe Ser Gln Lys Thr
 1 5 10 15

Leu Ala Gly Ala
20

<210> 7234
<211> 41
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 7234

Leu Tyr Arg Ile Leu Arg Arg Phe Phe Lys Arg Trp Cys Gln Gly Lys
1 5 10 15

Asp Leu Asn Lys Asp Arg Val Ala Arg Leu Asn Lys Gly Gly Leu Leu
20 25 30

Ser Ala Thr Ala Ala Leu Met Leu Arg
35 40

<210> 7235
<211> 69
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 7235

Leu Tyr Lys Met Ile Arg Arg Met Leu Lys Lys Leu Cys Lys Leu Met
1 5 10 15

Arg Cys Val Gly Cys Lys Arg Ala Lys Arg Arg Gln Ser Ala Tyr Asp
20 25 30

Phe Ala Leu Gly Tyr Lys Lys Arg Ala Arg Ile Arg Asn Ile Arg Trp
35 40 45

Leu Leu Phe Leu Leu Ala Trp Gly Leu Gln Arg Arg Leu Ser Lys Gln
50 55 60

Val Ala Leu Gly Lys
65

<210> 7236

<211> 41
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7236

Tyr Leu Lys Met Leu Arg Lys Phe Leu Lys Arg Leu Pro Lys Leu Ser
 1 5 10 15

Lys Leu Arg Asn Ala Met Val Ala Glu Leu Arg His Gln Pro Thr Ala
 20 25 30

Pro Arg Gly Leu Glu Leu Arg Thr Leu
 35 40

<210> 7237
 <211> 63
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7237

Arg Leu Lys Leu Leu Pro Arg Leu Phe Lys Trp Leu Lys Arg Leu Gln
 1 5 10 15

Met Phe Tyr Ile Lys Lys Glu His Lys Cys Tyr Leu Ala Tyr Asn Leu
 20 25 30

Ala Val Lys Gln Met Cys Lys Gln Ala Ala Leu Val Gly Phe Lys Val
 35 40 45

Leu Lys Arg Leu Ala Lys Lys Met Met Leu Leu Asp Phe Gly Arg
 50 55 60

<210> 7238
 <211> 49
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7238

Arg Phe Lys Leu Met Arg Arg Ile Leu Arg Arg Leu Arg Cys Arg Arg

1 5 10 15

His Lys Ala Lys Gly Leu Trp Phe Ser Leu Ala Phe Asn Ala Val Val
 20 25 30

Asp Asp Ala Phe Pro Arg Ala Ala Ala Ala Leu Arg Leu Lys Arg Cys
35 40 45

Trp

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<210> 7239
<211> 50
<212> PRT
<213> Artificial Sequence
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<220>
<223> Computer-generated peptide variant

<400> 7239

Leu Tyr Lys Leu Leu Cys Arg Leu Trp Arg Arg Ile Arg Lys Lys Ala
1 5 10 15

Pro Met Ala Val Leu Ser Ser Ile Gln Leu His Tyr Lys Lys Ala Lys
20 25 30

Arg Met Asp Ser Lys Arg Asp Leu Ala Phe Gly Leu Ala Asn Leu Arg
35 40 45

Tyr Ala
50

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<210> 7240
<211> 42
<212> PRT
<213> Artificial Sequence
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<220>
<223> Computer-generated peptide variant

<400> 7240

Arg Leu Lys Trp Phe Arg Arg Leu Leu Lys Ile Leu Lys Arg Arg Tyr
1 5 10 15

Ala Val Lys Leu Ala Ala Leu Lys Asn Leu Ala Lys Leu Ile Ser Val
20 25 30

Cys Arg Lys Tyr Arg Asp Ala Ala Leu Asn
 35 40

<210> 7241
 <211> 42
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7241

Lys Leu Lys Leu Leu Lys Arg Phe Leu Lys Arg Trp Cys Arg Ile Lys
 1 5 10 15

Tyr Glu Ile Trp Ala Arg Lys Asp Thr Leu Arg Asp Ser Thr Pro Arg
 20 25 30

Leu Lys Ala Leu Val Cys Leu Lys Ser Leu
 35 40

<210> 7242
 <211> 42
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7242

Lys Leu Lys Ile Ile Pro Arg Leu Leu Arg Leu Ile Arg Lys Leu Asn
 1 5 10 15

Pro Lys Gly Asn Arg Ile Gly Lys Leu Leu Leu Lys Val Lys Ala Gln
 20 25 30

Tyr Phe Arg Trp Ala Val Leu Leu Gln Lys
 35 40

<210> 7243
 <211> 58
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7243

Leu Trp Lys Phe Tyr Asn Lys Leu Leu Arg Arg Phe Lys Arg Gly Ala
 1 5 10 15

Cys Phe Arg Gln Gly Arg Pro Leu Arg Ser Asp Lys Arg Met Val Ser
 20 25 30

Met Val Tyr Ser Arg Ala Lys Ala Arg Lys Ala Ala Gln Arg Cys Ala
 35 40 45

Arg Arg Ala Ala Leu Trp Asp Lys Asn Ala
 50 55

<210> 7244
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7244

Leu Ile Lys Leu Trp His Lys Leu Ile Lys Lys Phe Lys Lys Asn Asp
 1 5 10 15

Leu Gly Arg Leu Lys Ser Ala Asp
 20

<210> 7245
 <211> 37
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7245

Phe Trp Arg Phe Trp Arg Arg Leu Leu Lys Phe Met Asn Arg Arg Arg
 1 5 10 15

Cys Ala Arg Ser Ala Leu Gln Leu Lys Leu Asn Met Trp Leu Leu Ala
 20 25 30

Ala Pro Arg Ala Arg
 35

<210> 7246

<211> 93
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7246

Lys Met Lys Leu Leu Arg Lys Leu Leu Arg Met Leu Arg Arg Glu Lys
 1 5 10 15

Val Leu Met Asp Gly Ser Lys Phe Ile Gln Arg Arg Leu Lys Pro Leu
 20 25 30

Glu Ile Ala Arg Ala His Lys Ile Cys Asp Lys Arg Leu Ile Arg Leu
 35 40 45

His Lys Arg Thr Arg Ser Ala Leu Ala His Leu Asn Tyr Ala Leu Trp
 50 55 60

Lys Lys Ile Ala Arg Phe Lys Gln Phe Arg Val Phe Ala Ala Lys Leu
 65 70 75 80

Arg Asn Val Arg Lys Val Met Ile Arg Lys Val Met Pro
 85 90

<210> 7247
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7247

Arg Met Lys Phe Leu Arg Arg Leu Leu Lys Lys Leu Gln Lys Phe Gln
 1 5 10 15

Phe Ser Met Asn Arg Ala Tyr Ala Glu Ser Lys Leu
 20 25

<210> 7248
 <211> 50
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7248

Lys Met Lys Phe Trp Arg Lys Tyr Leu Arg Met Trp Lys Arg Leu Gln
 1 5 10 15

Leu Phe Phe Pro Ala Ile Arg Phe Leu Leu Cys Arg Leu Phe Met Leu
 20 25 30

Ala Ser Ala Pro Lys Pro Arg Arg Asp Lys Lys Ala Ser His Leu Thr
 35 40 45

Ala Arg
 50

<210> 7249

<211> 69

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7249

Lys Trp Arg Leu Leu Lys Lys Phe Phe Lys Met Leu Cys Lys Lys Met
 1 5 10 15

Thr Leu Ala Ile Leu Lys Lys Thr Arg Ser Val Ala Tyr Leu Arg Ala
 20 25 30

Tyr Ile Leu Leu Asp Cys Arg Ile Arg Gln Trp Ala Ala Lys Leu Asn
 35 40 45

Lys Ala Leu Gln Leu Asn Phe Ala Glu Leu Ser Lys Ala Ile Ala Lys
 50 55 60

Arg His Ala Ala Gln
 65

<210> 7250

<211> 66

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7250

Arg Met Arg Met Leu Thr Lys Phe Phe Lys Lys Ile Lys Lys Asp Leu
 1 5 10 15

Arg Ile Leu Val Ala Leu His Arg Phe Leu Trp Asp Leu Arg Leu Lys
 20 25 30

Ala Arg Arg Gln Asp Arg Leu Gly Gly Arg Gly Tyr Ala Ala Arg Lys
 35 40 45

Cys Arg Leu Leu Leu Gln Leu Ala Lys Trp Phe Cys Ala Lys Ala Lys
 50 55 60

Thr Lys
 65

<210> 7251
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7251

Arg Leu Arg Tyr Phe Arg Lys Met Leu Lys Trp Leu Lys His Ala Thr
 1 5 10 15

Glu Ala Ser Tyr Lys Ala Pro Arg
 20

<210> 7252
 <211> 63
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7252

Phe Tyr Arg Leu Met Ser Lys Met Phe Arg Arg Trp Lys Arg Leu Arg
 1 5 10 15

Leu Ala Met Ala Asp Lys Ala Pro Pro Val Arg Gln Arg Lys Arg Ile
 20 25 30

Gly Cys Ala Gln Tyr Trp Leu Leu His Ala Lys Arg Gly Lys Arg Ala

35

40

45

His Ala Leu Thr Ala Leu Asp Gly Arg Arg Pro Lys Leu Trp Leu
 50 55 60

<210> 7253

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7253

Phe Phe Arg Trp Leu Lys Lys Met Leu Lys Lys Tyr Lys Lys Tyr Leu
 1 5 10 15

Leu Tyr Gly Gln Asn Leu Leu
 20

<210> 7254

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7254

Met Leu Arg Met Phe Pro Arg Leu Met Lys Leu Leu Pro Arg Ala His
 1 5 10 15

Arg Arg Lys Lys Leu
 20

<210> 7255

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7255

Lys Ile Arg Ile Trp Gln Arg Leu Leu Lys Lys Phe Lys Ser Asn Met
 1 5 10 15

Asn Arg Leu Asp Ala Lys Leu Ser Leu Leu Lys Ser Glu Leu Ala Arg

20

25

30

Arg

<210> 7256

<211> 56

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7256

Phe Phe Arg Leu Leu Lys Lys Met Phe Arg Leu Trp Gln Arg Arg Lys
 1 5 10 15

Leu Arg Gln Arg Trp Lys Thr Leu Phe Ala Ser Ser Ala Trp Arg Ala
 20 25 30

Arg Lys Asn Asp Met Asn Leu Ala Tyr Lys Arg Ala Ile Arg Leu Glu
 35 40 45

Leu Lys Lys Trp Gln Leu Trp Asn
 50 55

<210> 7257

<211> 39

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7257

Leu Leu Arg Trp Tyr Arg Lys Tyr Phe Lys Ile Phe Lys Thr Ala Leu
 1 5 10 15

Tyr Ser Lys His Arg Ile Ser Leu Arg Thr Glu Leu Ala Leu Ala Leu
 20 25 30

Leu Leu Leu Ile Arg Asp Lys
 35

<210> 7258

<211> 57

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7258

Phe Leu Lys Met Phe Lys Lys Phe Leu Lys Leu Met Pro Ser Lys Lys
1 5 10 15

Thr Val Ala Glu Pro Leu Lys Asn Ser Cys Arg Trp Ala Arg Arg Ser
20 25 30

Met Lys Ala Lys Ala Arg Arg Lys Leu Ala Cys Tyr Asn Ala Ala Leu
35 40 45

Lys Leu Pro Phe Leu Leu Arg Asn Gln
50 55

<210> 7259

<211> 31

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7259

Tyr Leu Lys Leu Leu Gln Lys Phe Tyr Arg Lys Ile Arg Pro Asn Arg
1 5 10 15

Phe Lys Lys Ala Lys Arg Met Ile Ala Leu Val Leu Arg Leu Leu
20 25 30

<210> 7260

<211> 56

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7260

Phe Leu Lys Phe Phe Arg Lys Met Tyr Arg Lys Leu His Lys Arg Asp
1 5 10 15

Ile Lys Lys Ala Asn Arg Thr Trp Leu Lys Lys Leu Ala Ala Leu Ala
20 25 30

Arg Tyr Ala Ala Trp Phe Asn Leu Ile Ala Val Arg Leu Pro Lys Ala
 35 40 45

Glu Arg Gly Arg Arg Gln Ala Lys
 50 55

<210> 7261
 <211> 60
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7261

Arg Tyr Lys Trp Tyr Gln Lys Tyr Phe Arg Trp Phe Arg Gln Thr Ala
 1 5 10 15

Asp Arg Met Gly Ala Leu Leu Thr Asn Lys Phe Arg Met Lys Asp Thr
 20 25 30

Ala Leu Ala Ser Arg Trp Val Lys Ala Leu Leu Gly Val Glu Lys Lys
 35 40 45

Arg Ala Leu Lys Lys Gly Lys Leu Leu Cys Arg Leu
 50 55 60

<210> 7262
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7262

Lys Ile Arg Leu Leu Arg Arg Leu Leu Lys Arg Met His Thr Leu Thr
 1 5 10 15

Ala Val Pro Leu Lys Lys Met Leu Ala
 20 25

<210> 7263
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7263

Arg	Phe	Lys	Met	Leu	Asn	Lys	Trp	Leu	Lys	Lys	Leu	Arg	Pro	Leu	Leu
1				5				10						15	

Leu	Ala	Asn	Ala	Lys	Met	Gly	Trp	Lys	Asn	Tyr	Ala	Cys	Phe	Arg	Lys
		20						25					30		

Ala	Gly	Ser
		35

<210> 7264

<211> 45

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7264

Arg	Leu	Lys	Tyr	Phe	Cys	Arg	Leu	Tyr	Arg	Lys	Trp	Lys	Arg	Ala	Ala
1				5				10						15	

Ala	Ala	Ala	Val	Asp	His	Met	Phe	Val	Lys	Arg	Thr	Arg	Cys	Arg	Thr
			20					25					30		

Ile	Leu	Ala	Thr	Pro	Ala	Asn	Arg	Leu	Ile	Arg	Arg	Glu
		35				40						45

<210> 7265

<211> 62

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7265

Arg	Ile	Arg	Leu	Leu	Pro	Lys	Leu	Trp	Lys	Arg	Ile	Pro	Arg	Ser	Glu
1				5				10						15	

Lys	Arg	Leu	Asp	Asn	Cys	Ala	Leu	Leu	Leu	Ala	Leu	Leu	Ala	Leu	Gln
			20				25						30		

Pro	Asp	Pro	His	Thr	Pro	Leu	Arg	Pro	Leu	Leu	Ala	Leu	Arg	Pro	Lys
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

35

40

45

His Gly Val Arg Leu Leu Arg Lys Asp Met Thr Arg Ala Ile
 50 55 60

<210> 7266

<211> 100

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7266

Lys Phe Lys Tyr Ile Ser Lys Met Tyr Arg Leu Tyr Pro Arg Leu Tyr
 1 5 10 15

Arg Leu Leu Leu His Leu Lys Asp Arg Ala Leu Leu Asn Thr Pro Thr
 20 25 30

Lys Arg Tyr Cys Arg Leu Leu Arg Asp Arg Leu Lys Lys Lys Lys
 35 40 45

Ala Leu Ala Leu Ala Asn Lys Lys Leu Arg Ala Arg Lys Leu Trp Lys
 50 55 60

Arg Trp Gly Asn Phe Asp Ala Arg Gly Leu Thr Tyr Pro Lys Arg Trp
 65 70 75 80

Thr Asn Leu Ser Lys Ser Glu His Thr Trp Gln Phe His Met Ala Arg
 85 90 95

Glu Ile Lys Leu
 100

<210> 7267

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7267

Arg Leu Arg Leu Tyr Ser Lys Phe Leu Lys Leu Phe Lys His Lys Leu
 1 5 10 15

Met Lys Lys His Lys Asn Leu Ala
20

<210> 7268
<211> 25
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 7268

Leu Tyr Lys Leu Phe Arg Arg Phe Leu Lys Trp Tyr Arg Cys Arg Glu
1 5 10 15

Leu Gly Arg Ala Lys Ala Val Tyr Gln
20 25

<210> 7269
<211> 42
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 7269

Tyr Trp Arg Phe Leu Arg Lys Tyr Trp Lys Lys Phe Arg Thr Leu Ile
1 5 10 15

Leu Thr Thr Asn Trp Arg Leu Lys Ser Ala Ala Lys Tyr Ala Arg Arg
20 25 30

Met Lys Tyr Ile Leu Lys Ile Ala Leu Ala
35 40

<210> 7270
<211> 22
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 7270

Arg Leu Lys Leu Leu Lys Arg Leu Tyr Arg Lys Leu Lys Ser Leu Ser
1 5 10 15

Arg Gln Ala Val Tyr Val
20

<210> 7271
<211> 33
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 7271

Arg Leu Lys Tyr Leu Asn Lys Trp Phe Arg Lys Phe Lys Lys Ala Lys
1 5 10 15

Leu Gln Ala Leu Phe Ala Pro Met Ile Leu Leu Lys Arg Ala Met Gln
20 25 30

Gln

<210> 7272
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 7272

Leu Leu Arg Leu Trp Lys Arg Met Trp Arg Tyr Leu Arg Cys Cys Leu
1 5 10 15

Lys Leu His Ser Leu Arg Ala Ala Lys Ala Cys Thr Ile Leu Thr Arg
20 25 30

<210> 7273
<211> 63
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 7273

Leu Tyr Lys Ile Trp Cys Arg Phe Leu Lys Phe Leu Lys Arg Arg Ser
1 5 10 15

Arg Arg Arg Leu Arg Pro Tyr Met Lys Leu Ala Lys Ala Glu Ser Tyr
 20 25 30

Lys Gly Arg Ala Ala Met Phe Lys Glu Ala Ala Met Lys Ala Val Cys
 35 40 45

Arg Cys Arg Ala Ile Asn Lys Phe Leu Ile Ala Trp Leu Asp Asp
 50 55 60

<210> 7274
 <211> 53
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7274

Arg Leu Arg Trp Tyr Arg Arg Leu Leu Lys Arg Tyr Lys Gln Ala Val
 1 5 10 15

Lys Gln Tyr Arg Leu Arg Cys Glu Lys Ala Glu Ala Lys Glu Tyr Leu
 20 25 30

Thr Leu Cys Leu Ala Tyr Ser Gln Arg Arg Phe Lys Met His Arg Asp
 35 40 45

Ala Tyr Ala Ala Glu
 50

<210> 7275
 <211> 60
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7275

Leu Trp Lys Leu Trp Lys Arg Tyr Leu Lys Arg Phe Asn Lys Glu Glu
 1 5 10 15

Met Leu Ala Pro Ser Phe Arg Met Lys Gln Arg Gly Arg Glu Lys Leu
 20 25 30

Arg Pro Ser Leu Pro Arg His Leu Lys Leu Ser Lys Lys Lys Leu Ser

35

40

45

Gly Ala Phe Asp Arg Leu Cys Ala Ala Lys Glu Lys
 50 55 60

<210> 7276

<211> 42

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7276

Arg Phe Lys Ile Trp Arg Lys Phe Trp Arg Phe Tyr Arg Lys Trp Lys
 1 5 10 15

Gln Arg Lys Tyr His Leu Ala Leu His Ala Arg Leu Asn Leu Tyr Gln
 20 25 30

Ala Gln Leu Arg Arg Ala Ala Lys Pro Asn
 35 40

<210> 7277

<211> 94

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7277

Arg Tyr Arg Leu Met His Arg Phe Leu Lys Phe Leu Ser Ser Arg Gln
 1 5 10 15

Ala Tyr Asp Trp Ala Ser Arg Gln Pro Lys Ile Phe Met Trp Ala Leu
 20 25 30

Arg Arg Ala Leu Asn Arg Gln Glu Leu Thr Trp Ser Lys Met Asn Lys
 35 40 45

Ala Leu Lys Arg Ala Lys Leu Ala Phe Leu Leu Phe Glu Leu Lys Arg
 50 55 60

Arg Pro Gly Val Arg Ala Arg Arg Leu Gln Gly His Ala Lys Arg Lys
 65 70 75 80

Leu Ile Val Lys Arg Leu Glu Ala Pro His Arg Val Lys Lys
85 90

<210>	7278
<211>	34
<212>	PRT
<213>	Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 7278

Leu Phe Lys Trp Ile Gln Arg Leu Trp Arg Lys Leu Arg Arg His Arg
1 5 10 15

Ala Cys Glu Trp Ala Lys Arg Glu Gln Ala Asn Ala Leu Pro Ala Ala
20 25 30

Ala Met

<210>	7279
<211>	24
<212>	PRT
<213>	Artificial Sequence

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<220>
<223> Computer-generated peptide variant
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<400> 7279

Lys Trp Lys Leu Leu Asn Arg Met Met Lys Lys Leu Ser Arg Ala Asp
1 5 10 15

Gly Ala Val Phe Leu Lys Lys Leu
20

<210>	7280
<211>	29
<212>	PRT
<213>	Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 7280

Arg Leu Arg Leu Leu Arg Lys Phe Phe Arg Arg Leu Cys Lys Arg Asp
1 5 10 15

Trp Arg Trp Ala Phe Cys Ala Leu Arg Cys Leu Leu His
20 25

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<210> 7281
<211> 41
<212> PRT
<213> Artificial Sequence
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<220>
<223> Computer-generated peptide variant

<400> 7281

Arg Tyr Arg Met Leu Arg Lys Tyr Leu Arg Trp Phe Lys Thr Asp Phe
1 5 10 15

Val Arg Leu Lys Cys Pro Gln Ala Lys Met Leu Leu Arg Gly Trp Arg
20 25 30

Arg Leu Ala Arg Leu Ala Leu Leu Asn
35 40

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<210> 7282
<211> 32
<212> PRT
<213> Artificial Sequence
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<220>
<223> Computer-generated peptide variant

<400> 7282

Lys Leu Lys Leu Trp Arg Lys Leu Tyr Arg Leu Phe Lys His Gly Leu
1 5 10 15

Gly Leu Arg Leu Lys Thr Lys Leu Thr Trp Leu Lys Ser Glu Arg Phe
20 25 30

```
<210> 7283
<211> 43
<212> PRT
<213> Artificial Sequence
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<220>
<223> Computer-generated peptide variant

<400> 7283

Arg Leu Arg Leu Phe Lys Lys Leu Tyr Lys Leu Trp Lys Cys Ala Arg
1 5 10 15

Lys Trp Lys Lys Asn Phe Thr Ala Arg Gln Leu Gly Ala Phe Leu Lys
 20 25 30

Val Arg Asp Met Ala Cys Arg Cys Ala Lys Val
 35 40

<210> 7284
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7284

Arg Tyr Arg Phe Phe Gln Arg Leu Trp Lys Arg Phe Arg Lys Ala Pro
 1 5 10 15

Leu Leu Asp Cys Arg Leu Arg Gly Ala Ala Asp Ile Asp Leu
 20 25 30

<210> 7285
 <211> 63
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7285

Tyr Leu Lys Tyr Leu Ser Arg Ile Tyr Lys Leu Leu His Lys Pro Ala
 1 5 10 15

Lys Thr Glu Lys Ala Leu Met Ser Ala Leu Leu Ile Leu Gln Arg Ser
 20 25 30

His Ser Lys Cys Lys Leu Arg His His Ala Arg Leu Arg Arg Ala Lys
 35 40 45

Gly Gly Phe Lys Leu Ala Leu Gly Ile Ala Ile Lys Arg Gln Ile
 50 55 60

<210> 7286
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7286

Lys	Leu	Arg	Tyr	Leu	Lys	Arg	Leu	Met	Arg	Trp	Tyr	Lys	Lys	Cys	Gly
1				5				10						15	

Lys	Ala	Val	Leu	Asn	Leu	Glu	Leu	Tyr	Leu	Arg	Asp	Leu	Ala	Met	Lys
			20					25					30		

Ser

<210> 7287

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7287

Lys	Leu	Lys	Leu	Leu	Lys	Lys	Met	Phe	Arg	Trp	Phe	Arg	Cys	Leu	Lys
1				5				10						15	

Glu	Leu	Ala	Leu	Leu	Arg	Gly
			20			

<210> 7288

<211> 39

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7288

Arg	Phe	Lys	Trp	Phe	Arg	Lys	Phe	Leu	Arg	Arg	Leu	Arg	His	Met	Leu
1				5				10						15	

Phe	His	Pro	Ala	Ser	Ser	Ala	Thr	Arg	Leu	Trp	Ala	Phe	Ala	Ala	Met
			20					25					30		

Leu	Lys	Lys	Phe	Pro	Ala	Leu
			35			

<210> 7289

<211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7289

Leu Leu Arg Phe Met Arg Arg Phe Met Lys Lys Leu Gln Gln Leu Lys
 1 5 10 15

Ala Ile Ala Gln Arg Lys Phe His
 20

<210> 7290
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7290

Met Leu Lys Phe Tyr Arg Lys Leu Leu Lys Arg Met Thr Lys Ala Ala
 1 5 10 15

Asn Lys Ala Asn Val Ala Met Lys Thr Glu Leu Gln
 20 25

<210> 7291
 <211> 39
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7291

Trp Trp Arg Phe Leu Lys Arg Leu Leu Lys Phe Phe Lys Lys Lys Lys
 1 5 10 15

Cys Val Leu Ala Leu Lys Lys Lys Tyr Asn Ala Phe Asp Val Ala Lys
 20 25 30

Leu Gln Ala Asn Phe Ser Leu
 35

<210> 7292

<211> 47
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7292

Arg Ile Lys Trp Tyr Lys Arg Leu Leu Lys Tyr Leu Arg Lys Ala Gln
 1 5 10 15

Arg Asp Lys Lys Gln Phe Trp Arg Ala Phe Trp Trp Arg Leu Arg Leu
 20 25 30

Arg Leu Leu Lys Leu Ala Val Arg Pro Asp Leu Val Trp Arg Leu
 35 40 45

<210> 7293
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7293

Arg Met Arg Leu Leu Arg Lys Phe Met Lys Met Phe Lys His Leu Gln
 1 5 10 15

Ala Leu Gln Lys Ala Lys
 20

<210> 7294
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7294

Lys Phe Arg Leu Leu Lys Lys Leu Trp Arg Leu Phe Asn Lys Lys Leu
 1 5 10 15

Trp Gln Leu Lys Arg Gln Ala
 20

<210> 7295

<211> 71
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7295

Leu Met Lys Trp Trp Asn Lys Leu Met Arg Lys Leu Pro Asn Lys Asp
 1 5 10 15

Glu Leu Asp Pro Gly Arg Ala Pro Ala Arg Leu Pro Arg Thr Arg Thr
 20 25 30

Ala Ala Arg Lys Leu Arg Lys Phe Lys Leu Asn Ala Lys Lys Leu Leu
 35 40 45

Val Ile Ala Gly Thr Ala Leu Pro Cys Lys Asp Cys Leu Asp Glu Thr
 50 55 60

Val Ala Ala Trp Arg Ala Arg
 65 70

<210> 7296
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7296

Leu Leu Arg Phe Leu Arg Lys Leu Leu Arg Tyr Leu Lys Arg Lys Trp
 1 5 10 15

Lys Glu Leu Asp Met His Glu Leu Asn Lys Cys Ala His His Arg Asn
 20 25 30

Arg Ser Lys Gln
 35

<210> 7297
 <211> 90
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7297

Arg Trp Arg Leu Phe Arg Lys Phe Leu Lys Phe Met Pro Asn Ala Leu
 1 5 10 15

Arg Lys Glu Glu Met His Lys Thr Cys Asp Lys Arg Tyr Ala Ala Ala
 20 25 30

Ala His Pro Lys Ile Ala Trp Val Lys Ala Ala Thr Leu Leu Ile Tyr
 35 40 45

Lys Ala Ala Lys Leu Gly Ala Asn Pro Ala Gly Lys Leu Ser Trp Ser
 50 55 60

His Ile Lys Met His Phe Lys Lys Leu Arg Leu Asn Ala Lys Arg Ala
 65 70 75 80

Ile Ala Phe Ala Leu Glu Arg Leu Ala Glu
 85 90

<210> 7298

<211> 41

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7298

Lys Tyr Arg Met Met Gln Arg Leu Trp Lys Trp Tyr Arg Arg Leu Lys
 1 5 10 15

Arg Arg Ile Ala Glu Leu Ala Cys Lys Arg Ala Phe Ala Lys Ile Leu
 20 25 30

Met Ile Leu Leu Leu Ile Val Tyr Asp
 35 40

<210> 7299

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7299

Leu Met Arg Leu Trp Thr Arg Trp Ile Lys Lys Leu Lys Arg Arg Ile
 1 5 10 15

Phe Arg Ala Ala Ala Leu Ala Arg Ala Trp Pro
 20 25

<210> 7300
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7300

Leu Trp Arg Phe Tyr Arg Arg Tyr Phe Lys Leu Leu Arg Pro Leu Leu
 1 5 10 15

Arg Lys Arg Leu Leu Met
 20

<210> 7301
 <211> 31
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7301

Leu Leu Arg Leu Phe Lys Lys Leu Tyr Arg Lys Phe Lys Arg Leu Ser
 1 5 10 15

Glu Ser Asp Cys Val Val Tyr Phe Ala Ala Ile Lys Leu Leu Lys
 20 25 30

<210> 7302
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7302

Phe Leu Lys Leu Leu His Arg Leu Met Lys Lys Phe Arg Lys Lys Val
 1 5 10 15

Lys Leu Asp Ile Ala
20

<210> 7303
<211> 91
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 7303

Arg Leu Arg Trp Ile Arg Lys Leu Phe Arg Arg Tyr Ser Arg Asn Asn
1 5 10 15

His Met Glu His Cys Glu Ser Met Asn Leu Glu Asn Ser Ile Lys Leu
20 25 30

Lys Ile Arg Ala Trp Ala Asn Arg Arg Ser Val Lys Arg Leu Lys Ala
35 40 45

Leu Lys Leu Ala Pro Ala Leu Lys Lys His Leu Ala Arg Arg Ile Ala
50 55 60

His Arg Asn Gly Arg Phe Gln Ile Ser Pro Ala Leu Thr Met Arg Ala
65 70 75 80

Ala Leu Lys Lys Ala Leu Ala Arg Cys Gly Leu
85 90

<210> 7304
<211> 77
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 7304

Arg Phe Lys Ile Phe Lys Lys Leu Trp Arg Phe Leu Arg Lys Trp Gln
1 5 10 15

Gly His Val Arg Leu Lys Leu Ala Leu Leu Lys Ala Asp Ser Phe Gly
20 25 30

Met Gly Ala Arg Leu Arg Leu Asp Arg Gln Thr Phe Gly Phe Tyr Arg

35

40

45

Gly Gly Trp Arg Ala Lys Lys Glu Gln Ala Leu Gln Lys Ala Arg Thr
 50 55 60

Cys Glu Ala Arg Tyr Ala Leu Arg Lys Gln Ala Lys Leu
 65 70 75

<210> 7305

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7305

Arg Leu Lys Trp Leu Cys Lys Ile Ile Lys Lys Phe Lys Lys Cys Ser
 1 5 10 15

Ala Ala Pro His Leu Asp Leu Lys Leu Arg Leu Ala Arg
 20 25

<210> 7306

<211> 46

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7306

Met Phe Arg Leu Phe Lys Lys Phe Ile Lys Leu Leu Lys Cys Trp Lys
 1 5 10 15

Ala Lys Thr Tyr Gly Lys His Ala Lys Leu Val Arg Leu Lys Arg Leu
 20 25 30

Lys Ile Leu Ser Ser Cys Cys Lys Asn Ala Ser Ala Ile Ala
 35 40 45

<210> 7307

<211> 86

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7307

Arg Ile Lys Leu Tyr Lys Arg Phe Trp Arg Lys Trp Lys Gln Lys Arg
 1 5 10 15

Ser Ser Ser Pro Leu Leu Asp Ile Ala Trp Leu Leu Cys Arg Met Arg
 20 25 30

Val Gly Cys Met Leu Tyr Ala Thr Tyr Ala Lys Ala Lys Met Ala Lys
 35 40 45

Leu Asp Ala Gln Trp Leu Arg Asn Phe Met Arg Leu Lys Gly Trp Asn
 50 55 60

Leu Phe Cys Lys Thr Ala Lys Thr Arg Lys Leu Leu Arg Gly Val Ala
 65 70 75 80

Lys Lys Ala Leu Leu Lys
 85

<210> 7308

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7308

Lys Phe Arg Trp Leu Lys Arg Trp Leu Arg Tyr Leu Arg Lys Lys Ala
 1 5 10 15

Ala Arg Ala Lys Leu Met Leu
 20

<210> 7309

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7309

Ile Leu Arg Leu Phe Arg Arg Leu Leu Arg Trp Phe Pro Lys Ile Arg
 1 5 10 15

Arg Ala Phe Ala
20

<210> 7310
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 7310

Lys Leu Lys Leu Leu Arg Arg Leu Leu Lys Phe Leu Cys Lys Leu Tyr
1 5 10 15

Cys Lys Gln Ser Arg Tyr Thr Arg Asn His Ala Leu Leu Arg Leu Ala
20 25 30

Ser Phe Ala Ala Lys Glu Asn Leu
35 40

<210> 7311
<211> 65
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 7311

Trp Leu Lys Leu Leu Arg Arg Leu Phe Arg Lys Trp Arg Pro Cys Pro
1 5 10 15

Arg Tyr Arg Ser Leu Thr Lys Ala Gly Lys Ala Cys Ala Ala Cys Leu
20 25 30

Leu Lys Ala Lys Val Leu Leu Pro Ala Gln Tyr Cys Arg Phe Gly Pro
35 40 45

Phe Arg Met Ala His Arg Ile Lys Lys Gly Lys Gly Val Met Asp Ala
50 55 60

Lys
65

<210> 7312

<211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7312

Arg Met Arg Leu Ile Lys Lys Leu Trp Arg Arg Phe Ser Lys Asp Ala
 1 5 10 15

Pro Gly Arg Leu Cys Met Ala Ala Arg Phe Ala Trp
 20 25

<210> 7313
 <211> 62
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7313

Lys Leu Arg Phe Leu Gln Lys Phe Leu Arg Arg Ile Arg Arg Ser Asn
 1 5 10 15

Leu Ala Leu Ile Ala Gly Glu Asp Arg Ser Pro Leu Arg Arg Leu Arg
 20 25 30

Leu Phe Lys Arg Asn Leu Ala Cys His Ala Gly Gly Lys Leu Ala Gln
 35 40 45

Gly Arg Gly Ala Ala Thr Lys Ala Arg Lys Phe Leu Leu Leu
 50 55 60

<210> 7314
 <211> 26
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7314

Leu Ile Lys Phe Leu His Lys Met Ile Arg Arg Leu Lys Thr Ala Lys
 1 5 10 15

Lys Pro Ala Trp Val Leu Ala Thr Tyr Ala

20

25

<210> 7315
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7315

Arg Tyr Lys Leu Leu Lys Lys Met Met Arg Arg Phe Lys Thr Leu Tyr
 1 5 10 15

Cys Ala Leu Ala Lys Leu Met Arg Trp Ala Lys Ala Arg
 20 25

<210> 7316
 <211> 38
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7316

Leu Tyr Arg Phe Leu Arg Lys Leu Met Arg Arg Leu His Lys Ser Trp
 1 5 10 15

Arg Asp Arg Phe Tyr Tyr Ala Arg Met Arg His Lys Arg Ala Met Ala
 20 25 30

Leu Leu Met Leu Asp Ala
 35

<210> 7317
 <211> 81
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7317

Tyr Met Arg Leu Phe Gln Arg Leu Trp Arg Leu Phe Thr His Arg Lys
 1 5 10 15

Lys Ile Ala Ile Glu Tyr Ala Ala Tyr Phe Trp Cys Ala Lys Lys Lys

				20					25					30		
Cys	Ala	Arg	Ile	Asp	Arg	Lys	Ser	Glu	Lys	His	Lys	Arg	Lys	Arg	Leu	
		35					40					45				
Leu	Trp	Arg	Thr	Trp	Lys	Leu	Arg	Phe	Arg	Ser	Ala	Cys	Leu	Ala	Cys	
	50					55					60					
Arg	Leu	Arg	Ala	Lys	Pro	Trp	Cys	Met	Leu	Leu	Ala	Leu	Ile	Arg	Val	
65					70					75					80	

Gly

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<210> 7318
<211> 36
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 7318
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Lys Leu Lys Phe Phe Ser Lys Ile Leu Lys Leu Leu Lys Lys His Lys
1 5 10 15

Leu Ala Asp Asn Arg His Leu Trp Lys Tyr Ile Leu Arg Pro Ala Leu
20 25 30

Lys Ala Ala Ala
35

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<210> 7319
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 7319
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Arg Trp Lys Ile Trp Thr Lys Leu Met Lys Trp Leu Lys Lys Arg Asn
1 5 10 15

Ala Ala Glu Ser Arg Arg Glu Trp Gln Leu Trp Arg Ala Leu
20 25 30

<210> 7320
 <211> 49
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7320

Lys Leu Lys Trp Phe Lys Arg Ile Phe Lys Leu Phe Lys Lys Val Ala
 1 5 10 15

Ala Arg Leu Gln Lys Leu Gln Leu Leu Lys Ala Lys Gln Asp Lys Lys
 20 25 30

Lys Gln Ile Cys Gln Trp Glu Pro Leu Gln Ala Leu Leu Asp Ala Ala
 35 40 45

Tyr

<210> 7321
 <211> 56
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7321

Arg Leu Lys Leu Phe Arg Arg Leu Phe Lys Leu Met Gln Lys Asp Lys
 1 5 10 15

Ile Ala Asp His Met Leu Leu Phe Leu Ala Phe Asn Lys Pro His Leu
 20 25 30

Lys Arg Cys Ser Ala Leu Arg Lys Gly Cys Val Leu Arg Ser Leu Arg
 35 40 45

Leu Gln Met Arg Ala Glu Lys Ile
 50 55

<210> 7322
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7322

Lys Tyr Arg Phe Ile Arg Arg Leu Leu Arg Phe Phe Arg Lys Lys Trp
 1 5 10 15

Leu Phe Ala Leu Ala Arg Ser Ala Cys Ala Leu Lys Thr Ala Ala Gln
 20 25 30

<210> 7323

<211> 44

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7323

Tyr Ile Lys Phe Tyr Cys Lys Phe Tyr Lys Lys Met Lys Arg Glu Lys
 1 5 10 15

Glu Gly Ala Leu Asp Leu Leu Ala Ala Ala Gly Tyr Lys Lys Arg Arg
 20 25 30

Phe Ala Val Ala Ala Lys Pro Pro Lys Leu Leu Gly
 35 40

<210> 7324

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7324

Arg Phe Arg Leu Leu Pro Lys Ile Leu Arg Phe Leu Ser Cys Leu Gln
 1 5 10 15

Arg Glu Gln Arg
 20

<210> 7325

<211> 43

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7325

Lys	Leu	Arg	Tyr	Leu	Gln	Arg	Leu	Leu	Arg	Lys	Trp	Lys	Lys	Ser	Glu
1				5					10					15	

Thr	Ala	Ala	Ser	Lys	Ala	Ile	Ser	Cys	Ala	Leu	Ala	Glu	Pro	Leu	Phe
			20					25					30		

Trp	Glu	Lys	Val	Ala	Arg	Leu	Lys	Arg	Leu	Arg
		35					40			

<210> 7326

<211> 45

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7326

Arg	Phe	Lys	Tyr	Met	Lys	Lys	Leu	Trp	Arg	Leu	Leu	Thr	Pro	Leu	Thr
1				5					10					15	

Arg	Ser	Leu	Ala	Thr	Leu	Lys	Pro	Leu	Ser	Ala	Tyr	Ala	Tyr	Lys	Arg
			20					25					30		

Leu	Asn	Ser	Lys	Ala	Ala	Arg	Leu	Gly	Ala	Lys	Trp	Leu
		35					40					45

<210> 7327

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7327

Leu	Leu	Lys	Ile	Phe	Pro	Lys	Met	Ile	Arg	Arg	Leu	Lys	Arg	Thr	Lys
1				5					10					15	

Asn	Tyr	Met	Trp	Lys	His	Ala	Arg	Leu	Ala	Ala	Leu	Leu	Gln	Ser	Lys
			20					25					30		

Asp	Asp	Ala	Ala	Lys	Gln	Val	Gly
-----	-----	-----	-----	-----	-----	-----	-----

35

40

<210> 7328

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7328

Lys Leu Lys Tyr Phe Arg Lys Phe Leu Arg Lys Leu Lys Cys Thr Leu
 1 5 10 15

Ala Ala Glu Ile Ala Ile Glu Leu Arg Leu Ala Lys Arg His Lys Thr
 20 25 30

Ala Tyr

<210> 7329

<211> 41

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7329

Lys Phe Lys Phe Leu Ser Lys Leu Leu Arg Lys Met Pro Lys Gln Leu
 1 5 10 15

Leu Arg Cys Pro Lys Lys Leu Asn Cys Arg Glu Leu Gln Ile Ile Arg
 20 25 30

Ser Cys Leu Leu Leu Lys Leu His Cys
 35 40

<210> 7330

<211> 45

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7330

Arg Phe Lys Phe Tyr Lys Lys Leu Trp Lys Arg Trp Arg Ser Leu Pro

1 5 10 15

Ala Leu Ala Cys Pro His Lys Arg Ser Gly Leu Arg Arg His Thr Trp
 20 25 30

Leu Arg Lys Ala Ala Lys Phe Met Ala Ala Arg Ala Trp
35 40 45

<210>	7331
<211>	78
<212>	PRT
<213>	Artificial Sequence

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<220>
<223>  Computer-generated peptide variant
<400>  7331
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Leu Trp Arg Phe Phe Arg Arg Leu Leu Arg Ile Met Lys Arg Ser Gln
1 5 10 15

Ala Ala Ala Arg Leu Ala His Arg Lys Lys Pro Ala Ala Gly Leu Asp
20 25 30

Leu Lys Arg Cys Tyr Gln Ala Gln Ile Ala Val Trp Ala Leu Ala Ile
35 40 45

Lys Ile Ser Ala Pro Ala Met Ser Glu His Glu Lys Tyr Leu Arg Tyr
50 55 60

Leu Ala His Arg Gln Glu Met His Arg Arg Asn Leu Lys Ala
65 70 75

<210>	7332
<211>	30
<212>	PRT
<213>	Artificial Sequence

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<220>
<223> Computer-generated peptide variant
<400> 7332
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Arg Leu Arg Phe Leu Arg Lys Phe Trp Arg Ile Tyr Arg His Lys Thr
1 5 10 15

Arg Arg Cys Leu Trp Arg Leu Leu Val Gln Pro Ala Ala Gly
20 25 30

<210> 7333
 <211> 50
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7333

Leu Phe Arg Tyr Ile Arg Lys Ile Trp Arg Lys Tyr Arg His Pro Lys
 1 5 10 15

Leu Val Arg Ala Lys Leu Trp Thr Arg Leu Arg Tyr Asn Thr Pro Met
 20 25 30

Ala Leu Met Lys Ala Lys Ser Arg Ala Pro Leu His Ala Arg Trp Leu
 35 40 45

Arg Asp
 50

<210> 7334
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7334

Lys Leu Lys Leu Leu Lys Lys Tyr Leu Arg Arg Phe Lys Arg Cys Arg
 1 5 10 15

Lys Ala Asn Tyr Ala Met Ala Ala Arg His Cys Ile Met Ala Asp Val
 20 25 30

Arg

<210> 7335
 <211> 65
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7335

Leu Leu Lys Ile Leu His Lys Leu Tyr Lys Lys Leu Pro Ser Ser Asp
 1 5 10 15

Leu Cys Ala Leu Ala Arg Ser Phe Arg Ser Lys Pro Ile Ala Val His
 20 25 30

Arg Ala Glu Arg Met Lys His Arg Trp Met Arg Ala Asp Lys Leu Val
 35 40 45

Cys Leu Lys Lys Ile Trp Gln Lys Ala Lys Ala Arg Ala Lys Phe Leu
 50 55 60

Trp
 65

<210> 7336
 <211> 96
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7336

Phe Leu Lys Tyr Met His Lys Leu Leu Arg Lys Leu Arg Arg Ala His
 1 5 10 15

Leu Ala Arg Val Lys Ala Leu His Thr Val Ala Leu Val Lys Leu Cys
 20 25 30

Ala Ala Lys Lys Ser Leu Glu Lys Asp Gly Gln Leu Leu Lys Leu Lys
 35 40 45

Arg Glu Thr Ile Ala Lys Asn Gln Gln Ala Trp Arg Gln Asp Ala Ala
 50 55 60

Cys Ala His Phe Thr Val Trp Leu Leu Lys His Leu Gly Arg Arg Arg
 65 70 75 80

Ala Met Tyr Met Ala Arg Ala Ala Met Ile Arg Trp Leu Gln Arg Arg
 85 90 95

<210> 7337
 <211> 38
 <212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7337

Lys Leu Arg Leu Tyr Ser Lys Leu Leu Arg Phe Ile Lys Arg Leu Ala
1 5 10 15

Ala Glu His Tyr Lys Leu Ala Phe Asn Arg Val Lys Arg Arg Val Ala
20 25 30

His Gln Phe Met Arg Asn
35

<210> 7338

<211> 54

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7338

Leu Ile Lys Leu Met Arg Arg Tyr Leu Arg Met Leu Thr Lys Ala Gly
1 5 10 15

Ala Thr Glu Ala Arg Leu Lys Glu Gln Leu Ala Thr Ala Gly Arg Lys
20 25 30

Glu Leu Ala Lys Asn Asp Lys Asp Leu Arg Leu Lys Ala Gly Ala Gly
35 40 45

Thr Thr Lys Gly Leu Asn
50

<210> 7339

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7339

Arg Leu Lys Leu Phe Arg Lys Trp Leu Arg Arg Tyr Lys Thr Lys Cys
1 5 10 15

Leu Ala Ala Leu Leu Phe Arg Phe His His Trp Leu
 20 25

<210> 7340
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7340

Ile Tyr Arg Leu Met Arg Lys Ile Leu Lys Lys Leu Arg Arg Trp Leu
 1 5 10 15

Arg Leu Leu Val Ser Ala Glu Arg
 20

<210> 7341
 <211> 65
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7341

Ile Met Lys Tyr Leu Ser Arg Met Trp Arg Phe Phe Arg Ser Leu Leu
 1 5 10 15

Pro Leu Arg His Gly Ala Ile Arg Ala Ile Arg His Gln Asn Arg Ala
 20 25 30

Pro Arg Ser Leu Lys Ala Lys Ala Arg Lys Lys Ala Lys Arg Ala Leu
 35 40 45

Thr Ala Glu Lys Leu Ile Phe Arg Val Leu Glu Leu Lys Pro Thr Ser
 50 55 60

Glu
 65

<210> 7342
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7342

Arg	Trp	Arg	Leu	Leu	His	Lys	Leu	Met	Lys	Lys	Ile	Arg	Lys	Lys	Lys
1				5					10					15	

Ile	Gly	Leu	His	Glu	Pro	Pro	His	Ala	Phe	His	Lys	Lys	Ala	Arg	Trp
			20					25					30		

Ala	Asn	Gln	Arg	Leu	Ser	Glu	Leu
		35					40

<210> 7343

<211> 42

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7343

Lys	Met	Lys	Trp	Leu	Arg	Arg	Met	Leu	Arg	Phe	Phe	Arg	Cys	Arg	Glu
1				5					10					15	

Leu	Lys	Lys	Pro	Ala	Gly	Arg	Arg	Glu	Arg	Leu	Arg	Leu	Ala	Asp	Asp
			20					25					30		

Cys	Leu	Lys	Met	Pro	Asn	Leu	Ala	Met	Ala
		35						40	

<210> 7344

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7344

Lys	Leu	Lys	Leu	Leu	Asn	Arg	Ile	Leu	Arg	Ile	Phe	Arg	Lys	His	Trp
1				5					10					15	

Ala	Cys	Gln	Leu	Lys	Met	Lys	Met	Arg	Glu	Leu	Arg	Leu	Gly	Lys	Ile
			20					25					30		

Ala His Thr Asp

35

<210> 7345

<211> 73

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7345

Tyr Met Arg Phe Ile Arg Arg Phe Phe Arg Lys Phe His Lys Leu Lys
 1 5 10 15

Gly Glu Phe Ala Lys Ala Asp Ala Arg Leu Leu Lys Gln Val Val Ala
 20 25 30

Phe Ala Thr Asp Arg Arg Ala Lys Lys Gly Leu Gly Ala Arg Gln Cys
 35 40 45

Leu Ser Leu Lys Arg Leu Lys Arg Leu Ala Leu Asp Ala Ala Leu Pro
 50 55 60

Cys Gln Leu Phe Ala Trp Leu Tyr Ala
 65 70

<210> 7346

<211> 72

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7346

Lys Trp Arg Trp Trp Lys Arg Tyr Tyr Arg Leu Met Ser Lys Arg Tyr
 1 5 10 15

Lys Leu Val Leu Ala Arg Pro Arg Leu Cys Ser His Lys Ile Ser Gln
 20 25 30

Leu Asp Asp Arg Ala Leu Phe Thr Leu Arg Arg His Ala Ala Leu Cys
 35 40 45

Arg Arg Lys Val Leu Ile Leu Asp Cys Arg Gln Trp Lys Lys Lys Pro
 50 55 60

Arg Arg Leu Ile His Leu Leu Arg
65 70

<210> 7347
<211> 43
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 7347

Lys Leu Lys Phe Phe Cys Arg Leu Tyr Lys Lys Ile Arg Asn Ile Ala
1 5 10 15

Val Val Leu Trp Leu Arg Arg Leu Phe Val Leu Arg Lys Ala Leu Thr
20 25 30

Gln Thr Pro Arg Leu Tyr Gly Leu Leu Ile Arg
35 40

<210> 7348
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 7348

Arg Leu Lys Leu Leu His Arg Leu Leu Lys Tyr Leu Arg Cys Phe Asn
1 5 10 15

Gly Ala Cys Gly
20

<210> 7349
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 7349

Trp Leu Lys Phe Leu Arg Lys Leu Phe Arg Phe Leu Lys Lys Lys Ser
1 5 10 15

Ala Lys Ala Val Cys
20

<210> 7350
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 7350

Lys Leu Lys Phe Leu His Arg Leu Met Lys Lys Tyr Ser Lys Ala His
1 5 10 15

Ala Glu Arg Glu Gln
20

<210> 7351
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 7351

Phe Leu Lys Phe Leu Lys Arg Leu Trp Lys Arg Phe Asn Arg Ala Lys
1 5 10 15

Trp Lys Glu Ala Trp Cys Ala
20

<210> 7352
<211> 31
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 7352

Arg Ile Arg Leu Phe His Lys Leu Leu Arg Phe Tyr Lys Gln Leu Leu
1 5 10 15

Ala Glu Arg Ser Leu Ile Gly Leu Lys Ala Leu Ser Gln Ile Arg
20 25 30

<210> 7353
 <211> 48
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7353

Lys Ile Arg Leu Met Lys Lys Leu Leu Lys Met Phe Lys Pro Ala Tyr
 1 5 10 15

Val Lys Leu Leu Pro Ala Glu Gln Ile Ala Ala Lys Leu Val Ala Lys
 20 25 30

Arg Lys Ile Gln Asp Lys Ala Gly Gln Phe Arg Leu Phe Ala Lys Gln
 35 40 45

<210> 7354
 <211> 71
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7354

Tyr Ile Lys Tyr Phe Arg Lys Leu Phe Lys Lys Tyr Lys Ser Leu Cys
 1 5 10 15

Leu Arg Asp Met Met Lys Arg Trp Arg Leu Glu Ala Glu Cys Gly Arg
 20 25 30

Ala Tyr Tyr Arg Lys Lys Asn Leu Leu Val Arg Gln Ala Ala Pro Phe
 35 40 45

Ala Ala Lys Glu Lys Asn Arg Glu Tyr Ala Ala Asp Ala Met Arg Tyr
 50 55 60

Ala Lys Pro Leu Leu Ala Ala
 65 70

<210> 7355
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7355

Phe	Leu	Lys	Leu	Trp	Asn	Arg	Phe	Leu	Arg	Lys	Leu	Lys	Arg	Met	Asp
1				5					10					15	

Arg	Glu	Asp	Leu	Leu	Arg	Arg	Met	Lys	Arg	Leu	Asn	Asp	Ile	Ile	Leu
			20					25					30		

Gly	Gln	Pro	Ile	Gln	Ala	Arg	Arg
		35				40	

<210> 7356

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7356

Lys	Ile	Lys	Leu	Leu	Gln	Arg	Leu	Leu	Lys	Arg	Met	Thr	Cys	Leu	Ser
1				5					10					15	

Pro	Ala	Arg	Trp
			20

<210> 7357

<211> 52

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7357

Lys	Leu	Lys	Leu	Phe	Arg	Arg	Phe	Leu	Lys	Phe	Phe	Lys	Pro	Gly	Leu
1				5					10					15	

Leu	Ala	Phe	Thr	Val	Phe	Trp	Phe	Leu	Ala	Lys	Ser	Ser	Tyr	Ala	Ala
			20					25					30		

Ala	Arg	Ala	Leu	Arg	Arg	His	Trp	Gly	Ile	Ala	Lys	Lys	Arg	Asp	Arg
			35				40					45			

Arg	Gly	Ala	Lys
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50

<210> 7358
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7358

Lys Trp Lys Ile Leu Gln Arg Ile Phe Lys Lys Leu Arg His Leu Tyr
 1 5 10 15

Thr Thr Ala Ser Arg Ala Met Leu Leu Glu Lys Ala Leu Lys Leu Ala
 20 25 30

Trp Pro Thr Ala
 35

<210> 7359
 <211> 46
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7359

Lys Leu Lys Phe Leu Ser Lys Tyr Trp Lys Arg Phe Arg Lys Lys Leu
 1 5 10 15

Leu Ile Leu Ala Tyr Arg Lys Gln Asp Arg Ala Asn Lys Thr Thr Trp
 20 25 30

His Lys Leu Glu Arg Val Thr Pro Ala Ala Ala Lys Asn Val
 35 40 45

<210> 7360
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7360

Leu Tyr Arg Met Leu His Arg Leu Phe Arg Leu Leu Lys Arg Gln Lys

1 5 10 15

Thr Leu Ala Arg Cys
20

<210> 7361
<211> 44
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 7361

Ile Phe Lys Phe Ile Cys Arg Leu Leu Arg Lys Ile Lys Arg Asp Ala
1 5 10 15

Leu Arg Met Thr Arg Arg Arg Trp Leu Ala Leu Ser Leu Leu Lys
20 25 30

Arg Leu Asp Ala Ala Cys Leu His Val Gly Pro Ser
35 40

<210> 7362
<211> 25
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 7362

Arg Met Lys Met Tyr Lys Lys Leu Tyr Lys Lys Leu Lys Arg Leu Lys
1 5 10 15

His Glu Ala Ser Phe Leu Leu Leu Thr
20 25

<210> 7363
<211> 24
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 7363

Ile Phe Arg Leu Ile Thr Arg Trp Leu Lys Lys Phe Arg Arg Cys Ile

1 5 10 15

Gln Gln Leu Leu Leu Leu Lys Arg
20

<210> 7364
<211> 49
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 7364

Phe Leu Arg Trp Leu Ser Lys Leu Phe Lys Arg Leu His Arg Ser Pro
1 5 10 15

Met Arg His Arg Ile Ala Leu Glu Ala Ala Arg Met Ala Pro Arg Ala
20 25 30

Val Asn Leu Ala Lys Ala His Tyr Trp Lys Lys Arg Leu Ile His Asp
35 40 45

Ala

<210> 7365
<211> 24
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 7365

Leu Met Arg Leu Phe Lys Lys Ile Leu Arg Ile Leu Lys Arg Leu Asn
1 5 10 15

Arg Leu Cys Asn Cys Lys Leu Lys
20

<210> 7366
<211> 57
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 7366

Leu Leu Arg Ile Trp Arg Lys Ile Phe Arg Lys Trp Gln Lys Asp Cys
 1 5 10 15

Leu His Pro Arg Ala Ile Ile Ala His Arg Lys Lys Asp Lys Ser Leu
 20 25 30

Thr Lys Leu Ile Lys Val Ala Ala Arg Gln Asn Ala Ala Cys Phe Ala
 35 40 45

Arg Leu Met Arg Lys Cys Val Arg Ala
 50 55

<210> 7367

<211> 45

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7367

Trp Leu Lys Leu Phe Lys Arg Phe Met Lys Phe Leu Ser Lys Arg Lys
 1 5 10 15

Leu Gly Gly Ala Ser Ala Arg Arg Arg Ala Ala Arg Ala Val Arg Ala
 20 25 30

Met Ala Cys Leu Lys Asp Asp Gly Leu Leu Gly Gly Lys
 35 40 45

<210> 7368

<211> 56

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7368

Lys Leu Arg Phe Phe Lys Arg Trp Phe Arg Leu Trp Arg Arg Ser Leu
 1 5 10 15

Ala Lys Gly Ala Leu Lys Arg Leu Trp Ser Leu Thr Arg Met Cys Ala
 20 25 30

Lys Ser Pro Leu Val Met Glu Ala Lys Asp Ile Val Cys Ala Arg Gly
 35 40 45

Lys Gln Arg Pro Ala Arg Pro Arg
 50 55

<210> 7369

<211> 92

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7369

Lys Phe Lys Phe Trp Arg Lys Tyr Leu Arg Lys Leu Ser Lys Leu Tyr
 1 5 10 15

Lys Asn Leu Ala Lys Asn Leu Asp Trp Arg Ala Met Ser Pro Lys Ser
 20 25 30

Met Lys Lys Thr Tyr Lys Ala Leu Ala Ile Met Thr Leu Asn Arg Arg
 35 40 45

Ser Trp Leu Lys Leu Arg Leu Tyr Trp Trp Gln Ala Arg Arg Thr Ala
 50 55 60

Lys Arg Tyr Arg Ala Ala Arg Thr Lys Lys Lys Leu Arg Ala Leu Leu
 65 70 75 80

Lys Leu Asn Leu Met Arg Cys Leu Lys Glu Pro Met
 85 90

<210> 7370

<211> 58

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7370

Lys Leu Arg Leu Ile Cys Arg Leu Leu Lys Phe Phe Asn Lys Leu Ala
 1 5 10 15

Tyr Lys Lys Leu Pro Lys Gly Arg Glu Leu Leu Leu Cys Cys Met Cys

20

25

30

Leu Trp Leu Lys Ile Ala Asn Tyr Arg Lys Asn Leu Asp Ala Leu Gln
35 40 45

Arg Phe Arg Arg Asn Lys Arg Met Arg Ser
50 55

<210> 7371

<211> 80

<212> PRT

<213> Artificial Sequence

 $\langle 220 \rangle$

<223> Computer-generated peptide variant

<400> 7371

Lys Met Lys Tyr Trp Lys Lys Leu Leu Lys Lys Tyr Pro Ser Cys Leu
1 5 10 15

Lys Glu Ala Gly Ala Lys Thr Lys Ala Glu Pro Ala Met Ala Leu Leu
20 25 30

Asn Leu Leu Met Arg Lys Lys Gln Cys Lys Leu Lys Lys Lys Leu Thr
35 40 45

Leu Thr Ala Phe Leu Trp Ser Leu Val Lys Leu Ile Lys Met Thr Tyr
50 55 60

Val Arg Met Lys Ala Phe Arg Ala Lys Arg Ile Ser Ser Lys Lys Lys
65 70 75 80

<210> 7372

<211> 41

<212> PRT

<213> Artificial Sequence

 $\langle 220 \rangle$

<223> Computer-generated peptide variant

<400> 7372

Met Leu Lys Trp Leu His Arg Leu Leu Arg Met Met Pro Ser Ala Asp
1 5 10 15

Gly Lys Pro Leu Lys Leu Ala Gln Cys Arg Leu Asn Arg Arg Leu Arg
20 25 30

Leu Ile Glu Gln Asn Glu Leu Lys Ala
 35 40

<210> 7373
 <211> 94
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7373

Arg Leu Lys Met Leu Arg Lys Phe Met Arg Arg Leu Lys Lys Ser Thr
 1 5 10 15

Leu Lys Thr Ala Leu Leu Lys Leu Glu Ala Leu Lys Lys Lys Phe Leu
 20 25 30

Arg Met Lys Ala Trp His Ile Arg Leu Leu Ala Leu Leu Cys Arg Arg
 35 40 45

Arg Met Met Glu Gly Tyr Val Ala Leu His Tyr Ala Pro Ser Leu Lys
 50 55 60

Asp Met Asp Asp Ile Lys Asn Leu Glu Lys Gly Leu Ala Asp Lys Leu
 65 70 75 80

Ala Tyr Glu Ser Glu Leu Trp His Leu Lys Trp Val Gln Leu
 85 90

<210> 7374
 <211> 26
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7374

Arg Met Lys Trp Leu Lys Lys Trp Leu Arg Lys Leu Arg Gln Tyr Gln
 1 5 10 15

Arg Pro Gly Leu Ala Ala Ala Ile Glu Pro
 20 25

<210> 7375

<211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7375

Leu Ile Arg Trp Leu Arg Lys Met Tyr Arg Ile Leu Gln Thr Leu Ile
 1 5 10 15

Ala Arg Lys Ala Glu Arg Arg Tyr Ala
 20 25

<210> 7376
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7376

Leu Leu Arg Met Met Gln Arg Leu Ile Lys Lys Phe His Arg Asn Thr
 1 5 10 15

Lys Ala Cys Asp Ala Gly Asp Leu Ala Phe Lys Ser Ala Leu Cys Arg
 20 25 30

Leu Leu

<210> 7377
 <211> 73
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7377

Met Phe Lys Trp Tyr Arg Lys Phe Leu Arg Arg Ile Lys Ser Trp Gln
 1 5 10 15

Val Ser Arg Leu Met Asn Arg Ala Phe Thr Met Ala Ala Leu Met Ala
 20 25 30

Phe Ala Ala Arg Met Phe Arg Asn Arg Tyr Leu Ala Ala Lys Gln Met

35

40

45

Arg Pro Lys Phe Arg Asn Gln His Ala Ala Ser Arg Ala Lys Trp Asn
 50 55 60

Arg Arg Leu Ala Arg Arg Ala Lys Ala
 65 70

<210> 7378

<211> 55

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7378

Lys Trp Arg Leu Ile Arg Lys Leu Leu Arg Phe Ile Lys Thr Val Trp
 1 5 10 15

Ala Asp Lys Asp Leu Leu Glu Lys Leu Arg Leu Asp Lys Ser Tyr Leu
 20 25 30

Thr Ala Arg Leu Phe Ala Leu Leu Ala Leu Met Ala Ser Asp Leu Lys
 35 40 45

Lys Ser Pro Pro Gln Thr Thr
 50 55

<210> 7379

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7379

Lys Leu Arg Tyr Leu Lys Lys Leu Phe Arg Lys Tyr Ser Lys Glu Leu
 1 5 10 15

Thr Ser Gln Asn Ile Leu Leu
 20

<210> 7380

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7380

Arg Leu Arg Leu Phe His Arg Tyr Phe Lys Lys Leu Arg Cys Arg Phe
1 5 10 15

Lys Thr Ile Glu Arg Ala Arg Leu Ala Ala Trp Ala Trp Tyr Leu His
20 25 30

<210> 7381

<211> 74

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7381

Arg Phe Lys Met Leu Asn Lys Leu Phe Arg Trp Leu Thr Lys Ala Ser
1 5 10 15

Ala Cys Ser His Arg Ile Lys Asn Gly Gln Leu Arg Ala Leu Lys Ile
20 25 30

Trp Lys Glu Leu Arg Phe Arg Leu His Leu Leu Lys Leu Gln Met Thr
35 40 45

Ala Lys Val Val Arg Leu Phe Gly Ala Ala Arg Pro Lys Ser Phe Ala
50 55 60

Glu Lys Ala Lys Tyr Arg Phe Lys Lys Arg
65 70

<210> 7382

<211> 99

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7382

Arg Leu Arg Leu Phe Cys Lys Phe Met Lys Arg Trp Lys Lys Leu Lys
1 5 10 15

Lys Arg Arg Arg Lys Arg Leu Tyr Cys Gln Ala Leu Trp Ala Thr Leu
 20 25 30

Arg Cys Asp Ala Tyr Leu Lys Ala Leu Trp Asn Lys Leu Thr Asp Ser
 35 40 45

Arg Ile Arg Tyr Leu Arg Ile Leu Met Arg Arg Thr Leu Ile Ala Ala
 50 55 60

Leu Ser Asp Trp Ile Arg Pro Lys Trp Leu Arg Ala His Gly Leu Arg
 65 70 75 80

Trp Leu Arg Ala Ser Trp Leu His Asn Trp Ile Phe Lys Glu Arg Ala
 85 90 95

Thr Gly Leu

<210> 7383
 <211> 41
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7383

Arg Phe Arg Met Met Ser Lys Tyr Phe Lys Tyr Phe Lys Lys Asp Leu
 1 5 10 15

Arg Leu Leu Lys Ala Phe Leu Leu Ala Arg Arg Leu Thr Arg Ala Val
 20 25 30

Arg Glu Leu Ala Gln Glu Lys Ala Tyr
 35 40

<210> 7384
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7384

Trp Leu Arg Leu Ile Arg Lys Phe Leu Lys Ile Tyr Arg Pro Asn Cys

1 5 10 15

Ser Leu Lys Ala Ala Pro Arg Asn Trp Lys Ala Ala
20 25

<210> 7385
<211> 67
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 7385

Lys Met Arg Tyr Leu Lys Lys Leu Leu Lys Lys Trp Pro Lys Arg Leu
1 5 10 15

Ser Ser Ala Leu Lys Ala Ala Arg Cys Leu Gln Ile Arg His Val Lys
20 25 30

Arg Ala Phe Ala Val Pro Lys Asn Arg Ala Phe Gly Leu Gly Gln Lys
35 40 45

Ala Asp Lys Gln Arg Gly Asp Ala Ile Leu Lys Leu Ile Leu Leu Arg
50 55 60

Lys Ala Ala
65

<210> 7386
<211> 60
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 7386

Leu Leu Lys Ile Phe Arg Arg Ile Met Arg Lys Phe Gln Arg Ala Val
1 5 10 15

Tyr Lys Arg Thr Ile Phe Gln Arg Pro Leu Trp Arg His Leu Leu Phe
20 25 30

Lys Cys Ser Gln Ala Asp Leu Arg Arg Leu Arg Glu Leu Leu Thr Leu
35 40 45

Arg Tyr Leu Gln Tyr Ala Lys Val Pro Leu Ala Arg
 50 55 60

<210> 7387
 <211> 53
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7387

Ile Tyr Lys Phe Leu Lys Arg Leu Trp Arg Lys Leu Arg Arg Leu Leu
 1 5 10 15

Leu His Ile Ala Ala Lys His Cys Glu Lys Leu Lys Ile Gly Asn Arg
 20 25 30

Ser Tyr Pro Arg Leu Glu Cys Lys Pro Val Leu Lys Leu Arg Tyr Thr
 35 40 45

Arg Leu Thr Gly Leu
 50

<210> 7388
 <211> 79
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7388

Arg Leu Lys Leu Ile Lys Arg Ile Phe Arg Trp Met Arg Lys Thr Gln
 1 5 10 15

Gln Trp Phe Thr Ile Lys Lys Ile Ala Leu Leu Ser Ala Phe Ser Lys
 20 25 30

Leu Arg Tyr Lys Trp Arg Tyr Phe Lys Cys Ala Leu Thr Arg Leu Lys
 35 40 45

Leu Lys Leu Leu Ala Asn Arg Asp Ala Thr Arg Gly Arg Leu Ala Ala
 50 55 60

Leu Leu Ile Tyr Leu Leu Arg Val Lys Gln Ile Leu Thr Tyr Trp

65 70 75

<210> 7389
 <211> 41
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7389

Arg Ile Arg Phe Met Arg Arg Leu Phe Arg Arg Met Lys Pro Leu Met
 1 5 10 15

Thr Lys His Lys Leu Leu His Leu Lys Val Thr Ser Ala Ala Leu Glu
 20 25 30

Ala Arg Pro Leu Val Gly Ile Ala Ala
 35 40

<210> 7390
 <211> 42
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7390

Met Trp Lys Ile Leu Lys Lys Leu Met Arg Arg Tyr Thr Lys Ala Leu
 1 5 10 15

Val Ala Leu Pro Ala Lys Lys His Leu Phe Gln Gly Arg Lys Asp Ala
 20 25 30

Leu His Leu Gln Leu Cys Lys His Ala Ser
 35 40

<210> 7391
 <211> 83
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7391

Arg Met Arg Phe Leu Asn Arg Phe Ile Lys Lys Met Cys Gln Lys Leu

[illegible]

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<210> 7392
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 7392
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Leu Leu Lys Met Leu Arg Lys Leu Met Arg Phe Ile Arg Gln Ala Glu
1 5 10 15

Ala Phe Leu Lys Val Ser Ala Lys Ala Lys Gln Lys
20 25

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<210> 7393
<211> 52
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 7393
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Arg Tyr Lys Trp Phe Gln Lys Ile Phe Lys Arg Trp Lys Asn Arg Phe
1 5 10 15

Arg Tyr Lys His Asn Leu Asp Leu Leu Lys Glu His Lys Arg Ala Ala
20 25 30

Ile Ala Gln Ala Leu Leu Phe Arg Cys Pro Ser Leu Lys Ala Ala Glu
 35 40 45

Lys Ala Leu Arg
 50

<210> 7394

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7394

Phe Phe Arg Ile Leu Lys Arg Trp Leu Lys Trp Leu Gln Lys Leu Val
 1 5 10 15

Leu Cys Ala Lys Arg Ala Arg Ser Arg Gln Ser Ile Leu Phe Arg Ile
 20 25 30

<210> 7395

<211> 70

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7395

Arg Ile Arg Tyr Leu Arg Arg Leu Ile Lys Lys Phe Arg Ser Met Leu
 1 5 10 15

Asn Leu Ala Met Ala Val Arg Arg Ala Ser Leu Phe His Tyr Arg Tyr
 20 25 30

Ala Arg Leu Ala Thr Gln Ala Phe Leu Ala Asn Leu Ala Leu Gly Lys
 35 40 45

Lys Arg Ile Trp Ala Lys Glu Lys Lys Cys Lys Thr Ser Arg Trp Ala
 50 55 60

Met Met Arg Gly Thr Lys
 65 70

<210> 7396

<211> 64
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7396

Phe Leu Lys Tyr Ile Arg Arg Tyr Phe Lys Arg Leu Arg Arg Ala Ala
 1 5 10 15

Asn Ala Leu Ala Leu Ser Ala Asn Leu Ala Ala Arg Lys Lys Arg Pro
 20 25 30

Thr Ala Pro Lys Ile Tyr Ala Lys Glu Arg Tyr Asn Asp Ala Lys Lys
 35 40 45

Thr Ala Arg Ile Gln Phe Leu Cys Arg Met Lys Lys Cys Glu Phe Thr
 50 55 60

<210> 7397
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7397

Tyr Leu Arg Leu Met Lys Lys Leu Met Arg Arg Tyr Lys Lys Ile Lys
 1 5 10 15

Glu Leu Leu Asn Phe Ala Ala Asp Ala Val Leu Asn Ala Leu
 20 25 30

<210> 7398
 <211> 55
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7398

Arg Tyr Lys Ile Leu Pro Arg Leu Phe Arg Lys Phe Ser Arg His Phe
 1 5 10 15

Arg Gly Leu Ala Phe Ala Tyr Arg Ala Lys Ala Ala Tyr Leu Glu Lys

30

Leu Lys Ala Arg Glu Ala Ala Arg Asp Gly Asp Ile Ala Lys Phe Lys
35 40 45

Pro Arg Met Thr Arg Lys Glu
50 55

<213> Artificial Sequence

<223> Computer-generated peptide variant

<400> 7399

Lys Phe Lys Leu Met Ser Arg Ile Phe Arg Lys Ile Gln Arg Tyr Arg
1 5 10 15

Gln Gly Arg Lys Thr Arg Arg Leu Lys Leu Ala Gly Met Gln Ser Leu
20 25 30

Arg Ala Val Leu Ala Arg Arg Pro Leu His Leu Val Glu Phe Gly Ala
35 40 45

Lys Phe Arg Ala Met Ala Cys His Val Arg Pro Leu Ser Arg Arg Arg
50 55 60

Gly Ala Glu Lys Cys Ala Glu Ala Lys Leu Arg Phe Leu
65 70 75

<213> Artificial Sequence

<223> Computer-generated peptide variant

<400> 7400

Tyr Ile Arg Tyr Leu Lys Arg Leu Leu Lys Lys Leu Lys Asn Ala Asn
1 5 10 15

Gln Glu Pro Thr Ala Ala Lys Leu Pro Lys Ala Arg Trp Leu Lys Asp
20 25 30

Ala Arg Ala Lys Met Tyr Pro Glu Met Thr Arg Arg Arg Thr Ala Pro
 35 40 45

Asp Arg
 50

<210> 7401
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7401

Trp Ile Lys Ile Leu His Arg Leu Phe Lys Leu Leu Pro Ser Lys Glu
 1 5 10 15

Arg Ile Ala Leu Met Ile Leu Lys Ser Gln Tyr Arg Lys Ala Ile Arg
 20 25 30

Trp Leu Lys Lys Ala Met Ala Tyr
 35 40

<210> 7402
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7402

Met Ile Arg Leu Leu Arg Arg Leu Leu Lys Tyr Tyr His Arg Leu Gly
 1 5 10 15

Lys Ala Arg Thr Phe Arg Leu Gly Lys Val Gly Pro
 20 25

<210> 7403
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7403

Lys Phe Arg Ile Ile Thr Lys Phe Leu Lys Lys Leu Arg Ser Leu Leu
 1 5 10 15

Leu Tyr Ile Lys Asp
 20

<210> 7404
 <211> 61
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7404

Ile Met Lys Met Leu Arg Arg Phe Phe Arg Ile Tyr Lys Asn Ala His
 1 5 10 15

Arg Lys Ala Tyr Lys Leu Trp Arg Leu Trp Lys Arg Glu Asp Met Arg
 20 25 30

Ser Asn Leu Thr Ala Val Val Lys Ala Ala Leu Lys Arg Arg Leu Val
 35 40 45

Leu Arg Ile Thr Leu Ala Lys Ala Thr Trp Thr Lys Pro
 50 55 60

<210> 7405
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7405

Leu Leu Lys Leu Ile Lys Lys Phe Tyr Arg Phe Ile Thr Arg Glu Gln
 1 5 10 15

Met Leu Arg Leu
 20

<210> 7406
 <211> 87
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7406

Tyr	Phe	Arg	Ile	Trp	Arg	Arg	Trp	Tyr	Arg	Phe	Tyr	Arg	Lys	Gln	Gly
1				5				10						15	

Gln	Leu	Phe	Lys	Ala	Ala	Ala	His	Ala	Leu	Lys	Leu	Leu	Gly	Met	Arg
			20				25						30		

Met	Met	Ala	Glu	Ala	Lys	Lys	Ile	Thr	Leu	Cys	Lys	Tyr	Phe	His	Arg
		35					40					45			

Lys	Arg	Ala	Leu	Trp	Leu	Leu	Glu	Lys	Lys	Ala	Lys	Tyr	Arg	Leu	Leu
	50					55					60				

Trp	Tyr	Ser	Leu	Lys	Glu	Leu	Gly	Ala	Lys	Asn	Ala	Lys	Leu	Leu	Thr
65					70					75					80

Gly	Lys	Cys	Met	Ala	Pro	Gln
			85			

<210> 7407

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7407

Met	Leu	Arg	Leu	Leu	Arg	Arg	Leu	Leu	Lys	Lys	Leu	Thr	His	Leu	Leu
1				5					10					15	

Ile	Lys	Arg	Asn	Lys	Lys	Asp	Cys	Arg	Ile	Leu	Arg	Gln	Arg	Ile	Tyr
			20					25				30			

Gln

<210> 7408

<211> 41

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7408

Leu Ile Arg Leu Tyr Arg Arg Tyr Phe Lys Arg Leu Lys Cys Arg Asp
 1 5 10 15

Asp Lys Ala Ala Val Leu Val Ala Pro Leu Leu Leu Leu Arg Ala Arg
 20 25 30

Arg Tyr Leu Ala Ile Ser Lys Leu Val
 35 40

<210> 7409

<211> 59

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7409

Arg Leu Lys Phe Leu Arg Arg Leu Leu Lys Ile Tyr Arg Arg Leu Glu
 1 5 10 15

Ala Cys Asn Phe Val Ala Gly Ala Arg Lys Lys Asp Leu Arg Thr Arg
 20 25 30

Gly Leu Ile Asp Ala Arg Pro Ser Ala Ala Ile Ala Leu Leu Ala Thr
 35 40 45

Arg Tyr Thr Cys Arg Gln His Phe Tyr Arg Leu
 50 55

<210> 7410

<211> 47

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7410

Lys Leu Arg Phe Ile Lys Lys Ile Ile Arg Ile Leu Arg Pro Arg Ala
 1 5 10 15

Met Arg Ala Arg Met Leu Asp Leu Arg Gly Thr Ala Arg Leu Asn Arg
 20 25 30

Glu Arg Gly Gln Gly Lys Ala Ala Ala Leu His Cys Tyr Met Asp
 35 40 45

<210> 7411
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7411

Tyr Leu Lys Trp Leu Ser Lys Ile Leu Arg Lys Leu Cys Arg Leu Phe
 1 5 10 15

Lys Leu Cys Ser Cys Arg
 20

<210> 7412
 <211> 100
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7412

Lys Ile Arg Tyr Met Ser Lys Ile Leu Arg Arg Ile Ser Pro His Thr
 1 5 10 15

Cys Lys Ser Arg Lys Leu Gly Lys Leu Leu Thr Lys His Arg Lys Ser
 20 25 30

Arg Lys Arg Phe Lys Ala Ala Ala Arg Leu Ala Cys Tyr Met Ala Asp
 35 40 45

Arg Ala Gln His Ala Leu Cys Arg Cys Leu Phe Ala Arg Trp Trp Lys
 50 55 60

Cys Ile Glu Arg Lys Lys Ala Leu Thr Ala Lys Lys Ala Lys Ala Ile
 65 70 75 80

Arg Ala Gln Lys Ala Ala Arg Thr Phe Arg Leu Ala Asp Arg Glu Pro
 85 90 95

Leu Gln Ala Pro

100

<210> 7413
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7413

Arg Met Arg Phe Leu Gln Lys Phe Leu Lys Arg Tyr Lys Arg Leu Tyr
 1 5 10 15

Asn Phe Arg Thr Trp Lys Arg Leu Ala Trp Ala Lys Glu Ala Phe Gly
 20 25 30

Cys Ala

<210> 7414
 <211> 78
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7414

Lys Met Lys Trp Leu Arg Lys Phe Phe Arg Arg Phe Arg His Ala Cys
 1 5 10 15

Thr Leu Ala Lys Ile Lys Lys Asp Ala Ala Val Arg Leu Arg Leu Trp
 20 25 30

Leu Leu Leu Ala Gly Phe Lys Gln Cys Ala Leu Pro Ile Ile Met Tyr
 35 40 45

Ala Arg Arg Arg Trp Lys His Ala Glu Trp Asn Glu Asp Arg Ala Lys
 50 55 60

Thr Gly Lys Gly Ala Lys Leu Leu Cys Ile Tyr Arg Leu Glu
 65 70 75

<210> 7415
 <211> 23
 <212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7415

Arg	Leu	Arg	Phe	Leu	Ser	Lys	Tyr	Tyr	Arg	Leu	Leu	Thr	Arg	Ala	Leu
1				5					10					15	

Lys	Ala	Arg	Asp	Thr	Ala	Val
				20		

<210> 7416

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7416

Met	Leu	Lys	Phe	Leu	Ser	Arg	Tyr	Tyr	Lys	Trp	Ile	Lys	Lys	Leu	Leu
1				5					10					15	

Trp	Ala	Ala	Arg	Arg	Ala	Met	Lys	Asp	Val	Met
				20				25		

<210> 7417

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7417

Lys	Phe	Arg	Trp	Leu	Lys	Lys	Met	Phe	Lys	Lys	Leu	Lys	His	Pro	Pro
1				5					10					15	

Ala	Ala	Leu	Leu	Leu	Ala	Asp	Phe	Arg	Gly	His
				20				25		

<210> 7418

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7418

Arg Trp Arg Trp Phe Lys Lys Leu Phe Lys Lys Leu Lys Lys Ala Tyr
 1 5 10 15

Gln Ala Asp Arg Leu Ile Ala Lys Met Lys Leu Leu Tyr Pro Ala Lys
 20 25 30

Ala Lys Gln Phe Arg Trp Ala Leu
 35 40

<210> 7419

<211> 41

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7419

Lys Leu Arg Leu Tyr Ser Arg Leu Met Arg Leu Trp Gln Arg Gly Asn
 1 5 10 15

Gln Ser Leu Ala Arg Gly Ala Glu Lys Phe Arg Lys Ala Lys Ser Leu
 20 25 30

Asp Ser Leu Lys Ile Lys Gly Tyr Ala
 35 40

<210> 7420

<211> 71

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7420

Arg Leu Lys Leu Leu Gln Arg Tyr Leu Arg Leu Tyr Arg Arg Thr Asn
 1 5 10 15

Leu Lys Phe Arg Met Val Thr Arg Arg Ala Thr Asn Gln Val Thr Val
 20 25 30

Asp Ala Trp Ala Tyr Asn Ala Ser Lys Cys Lys Asp His Arg Ala Lys
 35 40 45

Leu Gly Gln Lys Ala Val Ala Ala Arg Arg Arg Lys Phe Arg Leu Lys
 50 55 60

Phe Leu Arg Phe Leu Pro Gln
 65 70

<210> 7421
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7421

Arg Leu Lys Phe Phe Arg Lys Met Leu Lys Lys Met Ser Arg Ala Ala
 1 5 10 15

Tyr Tyr Lys Leu Ala Ala
 20

<210> 7422
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7422

Arg Met Lys Phe Leu His Lys Phe Leu Arg Arg Leu His Arg Lys Lys
 1 5 10 15

Lys Ala Leu Thr Ser Leu Arg Lys Tyr Val Ala Ala Glu Ser Glu Trp
 20 25 30

<210> 7423
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7423

Leu Leu Arg Phe Phe Arg Lys Phe Phe Lys Lys Leu Lys Gln Ala Ile
 1 5 10 15

Leu Cys Leu Lys Ala Lys Lys
20

<210> 7424
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 7424

Arg Phe Lys Leu Leu Lys Arg Phe Phe Arg Tyr Leu Arg Lys Trp Leu
1 5 10 15

Leu Pro Arg Gln Trp Ile Lys Phe Ala Leu Lys Val Arg Thr Glu Leu
20 25 30

<210> 7425
<211> 36
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 7425

Arg Tyr Lys Leu Ile His Lys Tyr Leu Arg Phe Leu Arg Lys Pro Asp
1 5 10 15

Lys Leu Ala Lys Gln Ala Lys Leu Ile Asn Met Ala Phe Ala Ala Leu
20 25 30

His Gln Lys Arg
35

<210> 7426
<211> 44
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 7426

Arg Leu Lys Tyr Tyr Gln Arg Tyr Met Arg Arg Leu Cys Arg Arg Leu
1 5 10 15

Arg Lys His Gly Asn Gly Arg Leu Gln Thr Ala Tyr His His Met Leu
 20 25 30

Arg Ala Asp Lys Leu Leu Ser Ala Ser Lys Ala Lys
 35 40

<210> 7427

<211> 69

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7427

Arg Phe Lys Phe Phe Lys Arg Leu Leu Arg Leu Leu Arg Thr Lys Pro
 1 5 10 15

Arg Ala Thr Met Asn Thr Asp Glu Cys Val Ala Ala Gln Leu Leu Ala
 20 25 30

Pro Lys Ala Pro Leu Leu Leu Lys Arg Arg Pro Lys Ala Asp Phe Asn
 35 40 45

Cys Arg Asp Glu Arg Phe Leu Thr Lys Ala Leu Met Pro Ala Trp Ser
 50 55 60

Asn Ala Ala Lys Pro
 65

<210> 7428

<211> 51

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7428

Phe Leu Arg Tyr Leu Arg Lys Ile Leu Lys Arg Phe Arg Lys Lys Ala
 1 5 10 15

Glu Ile Ala Tyr Phe Ser Arg Thr Arg Cys Leu Thr Ala Leu Lys Trp
 20 25 30

Arg Leu Tyr Leu Thr Val Ala Cys Lys Met Pro Arg Asp Ala Arg Lys

35

40

45

Ala Lys Lys
50

<210> 7429
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 7429

Lys Leu Arg Leu Tyr Arg Lys Trp Leu Arg Leu Met His His Tyr Ser
1 5 10 15

Arg Lys Leu Asn Asn Lys Thr Lys Leu Ala Val Ala Ala His Ile Glu
20 25 30

<210> 7430
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 7430

Phe Phe Arg Leu Phe His Lys Leu Leu Lys Lys Leu Arg Arg Lys Cys
1 5 10 15

Val Ala Leu Asn His
20

<210> 7431
<211> 51
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 7431

Arg Tyr Lys Leu Phe Asn Arg Phe Tyr Arg Phe Leu Arg Lys Lys Asp
1 5 10 15

Gly Lys Leu Lys Ile Thr Ala Arg Ala Glu Val Leu Arg Ile Asp Ala

25

30

Lys Arg Gly Arg Thr Leu Leu Asp Lys Gly Lys Cys Phe Ala Arg Ala
35 40 45

Leu Asn Asp
50

<210>	7432
<211>	66
<212>	PRT
<213>	Artificial Sequence

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<220>
<223> Computer-generated peptide variant
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<400> 7432

Arg Leu Lys Met Tyr Arg Arg Phe Leu Arg Lys Met Arg Arg Gly Leu
1 5 10 15

Phe Val Pro Ala Lys Ala Asp Lys Asn Glu Trp Arg Arg Ala Arg Ala
20 25 30

His Leu Ala Asn Leu Gln Met Phe Lys Pro Lys Ala Ala Cys Ile Asp
35 40 45

Lys Met Phe Ala His Leu Arg Pro Ala Leu Gly Met Ile Ala Leu Ala
50 55 60

Ala Ile
65

<210>	7433
<211>	57
<212>	PRT
<213>	Artificial Sequence

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<220>  
<223> Computer-generated peptide variant
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<400> 7433

Arg Met Arg Phe Met Lys Lys Phe Leu Lys Arg Phe Arg Arg Leu Lys
1 5 10 15

Lys Ala Leu Leu Gly Ala Tyr Thr Arg Gln Val Leu Lys Ala His Met
20 25 30

Leu Lys Met Thr Ile Asp Ile Ala Arg Leu Lys His Val Ala Lys Arg
 35 40 45

Asp Leu Ser Ala Ala Arg Ala Ala His
 50 55

<210> 7434

<211> 42

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7434

Lys Tyr Arg Phe Leu Lys Arg Leu Phe Arg Arg Leu His His Tyr Tyr
 1 5 10 15

Ile Ala Leu Ala Ala Lys Glu Thr Leu Thr Ala Lys Gln Leu Asp Pro
 20 25 30

Arg Ala Leu Ile Asp Arg Ala Ala Pro Lys
 35 40

<210> 7435

<211> 60

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7435

Leu Phe Lys Leu Leu Asn Lys Ile Leu Lys Lys Phe Cys Arg Ser Ala
 1 5 10 15

Ala Ala Ala Ala Lys Ser Tyr Leu Tyr Trp Lys Phe Pro Val Gln Arg
 20 25 30

Ile Leu Tyr Arg Ala Trp Leu Leu Arg Arg Val Lys Glu Phe Leu Trp
 35 40 45

Arg Met Arg Leu Trp Leu Ala Ser Arg Phe Lys Ile
 50 55 60

<210> 7436

<211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7436

Lys Leu Arg Trp Leu Asn Arg Leu Leu Arg Lys Met Lys Arg Ala Lys
 1 5 10 15

Ile Met Gln Trp Arg Ala Leu Leu Ala Tyr Ile Cys Arg Leu Leu Asp
 20 25 30

Pro Arg Ile Ala Trp Tyr Gly Leu
 35 40

<210> 7437
 <211> 95
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7437

Lys Met Lys Met Ile Thr Arg Phe Leu Arg Phe Leu Arg Arg Ser Leu
 1 5 10 15

Leu Leu Ala Arg Thr Ala Arg Phe Phe Glu Trp Lys Phe Tyr Lys Thr
 20 25 30

Cys Leu Arg Lys Phe Ala Arg Ser Leu Val Ala Ala Arg Ala Ser Cys
 35 40 45

Thr Arg Ala Pro Arg Asn Asn Ala Leu Asn Tyr Cys Leu Arg Ala Thr
 50 55 60

Arg Ala Ala Cys Lys Arg Ala Ile Phe Arg Lys Ile Ala Ala Arg Trp
 65 70 75 80

Val Ala Arg Arg Ser Glu Leu His Arg Gln Leu Phe Trp Arg Tyr
 85 90 95

<210> 7438
 <211> 22
 <212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7438

Ile Leu Arg Phe Leu Ser Lys Tyr Tyr Arg Lys Leu Arg Arg Lys Ala
1 5 10 15

Ala Asp Ala Leu Tyr Thr
20

<210> 7439

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7439

Phe Leu Lys Phe Phe Thr Arg Phe Trp Arg Arg Ile Arg Arg Ala Ala
1 5 10 15

Met Ala Ala Arg Leu Ala
20

<210> 7440

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7440

Phe Leu Lys Phe Phe Pro Lys Leu Leu Lys Lys Leu Arg Lys Ala Ala
1 5 10 15

Ser Leu Val Cys Gly Cys Lys Arg
20

<210> 7441

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7441

Lys Leu Lys Ile Leu Lys Lys Ile Tyr Lys Phe Phe Pro Lys Leu Leu
 1 5 10 15

Thr Ala Lys Cys Ser Pro Leu Leu Met
 20 25

<210> 7442

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7442

Arg Leu Arg Leu Ile Asn Lys Ile Leu Arg Met Leu Lys Arg Leu Tyr
 1 5 10 15

Ala Gly Gln Trp Leu Phe Leu Gln Cys Leu His Leu Arg Ala Lys Lys
 20 25 30

Cys Lys Glu Asp Ala Arg Arg Arg
 35 40

<210> 7443

<211> 58

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7443

Lys Tyr Lys Met Tyr Arg Lys Leu Phe Lys Tyr Leu Lys Lys Lys Ala
 1 5 10 15

Leu Leu Lys Lys Trp Arg Arg Arg Ile Ser Asp Asn Ser Gln Val Arg
 20 25 30

Leu Leu Ala Gln Tyr Lys His Ala Arg Cys Ala Trp Pro Leu Lys Thr
 35 40 45

Pro Arg Arg Leu Pro Leu Leu Ala Pro Arg
 50 55

<210> 7444
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7444

Arg Met Lys Leu Ile Cys Lys Leu Met Arg Leu Phe Ser Lys Leu Ala
 1 5 10 15

Arg Lys Lys Thr Leu Val Gln Cys Asn Ala Lys Leu Lys Leu Ala Lys
 20 25 30

Ala Gly Lys
 35

<210> 7445
 <211> 48
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7445

Leu Leu Arg Phe Leu Thr Arg Leu Tyr Lys Arg Tyr Lys Lys Phe Ala
 1 5 10 15

Leu Ala Lys Pro Arg Lys Glu Lys Asp His Arg Lys Leu Glu Leu Ala
 20 25 30

Arg Val His His Met Phe Ser Ala Ala Ala Val Leu Ile Arg Gln
 35 40 45

<210> 7446
 <211> 43
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7446

Ile Met Lys Leu Leu Gln Lys Leu Leu Lys Lys Ile Asn Arg Ile Phe
 1 5 10 15

Ile Ser Ala Lys Arg Gln Gly Lys Lys Ala Arg Arg Met Glu Val Pro
 20 25 30

Ala Lys Gln Tyr Lys Leu Arg His Ala Glu Leu
 35 40

<210> 7447

<211> 54

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7447

Lys Tyr Lys Tyr Tyr Ser Arg Leu Leu Arg Met Trp Arg Arg Leu Lys
 1 5 10 15

Lys Ala Pro Cys Trp Pro Arg Ile Met Ala Leu Arg Leu Lys Arg Thr
 20 25 30

Asn Leu Tyr Arg Lys Ala His Pro Leu Ala Ile Asn Glu Lys Lys Phe
 35 40 45

Leu Tyr Glu Leu Asn Arg
 50

<210> 7448

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7448

Tyr Phe Arg Leu Phe Gln Arg Leu Phe Lys Arg Phe Lys Lys Ala His
 1 5 10 15

Met Thr Leu Ala
 20

<210> 7449

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7449

Lys	Phe	Arg	Phe	Leu	Lys	Lys	Leu	Ile	Lys	Phe	Met	Lys	Arg	Val	Lys
1				5					10					15	

Ala	Arg	Gln	Pro	Lys	Ala	Ala	Phe	Phe	Ala	Asp	Phe	Ile	Ala	Thr	Ile
			20					25					30		

Ala	Glu	Lys	Leu
			35

<210> 7450

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7450

Lys	Phe	Arg	Met	Ile	Thr	Arg	Leu	Leu	Lys	Phe	Phe	Lys	Ser	Leu	Ala
1				5					10					15	

Ala	Ala	Arg	Asp	His	Arg	Ala	Phe	Asn	Ala	Asn	Lys
			20					25			

<210> 7451

<211> 45

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7451

Phe	Met	Lys	Leu	Phe	Cys	Lys	Ile	Leu	Lys	Leu	Leu	Lys	Arg	Asn	Asn
1				5					10					15	

Leu	Ser	His	Lys	Phe	Thr	Lys	Cys	Arg	Arg	Arg	Arg	Ala	Asn	Asn	Lys
			20					25					30		

Lys	Cys	Asp	Gln	Tyr	Val	Leu	Leu	Leu	Lys	Ala	Gln	Ala
			35				40					45

<210> 7452

<211> 26
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7452

Arg Trp Lys Phe Phe Arg Arg Met Trp Lys Ile Leu Ser Lys Lys Ala
 1 5 10 15

Arg Leu His Leu Thr Asp Ala Cys Ala Leu
 20 25

<210> 7453
 <211> 41
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7453

Lys Leu Lys Leu Phe Lys Arg Phe Ile Lys Lys Ile Cys Arg Arg Val
 1 5 10 15

Cys Lys Cys Gly Arg Ala Ala Leu Ala Leu Tyr Gln Glu Leu Ala Leu
 20 25 30

Thr Arg Arg Ala Tyr Val Gly Cys Ser
 35 40

<210> 7454
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7454

Tyr Leu Lys Trp Leu Arg Arg Trp Leu Arg Trp Met Asn Lys Asn Leu
 1 5 10 15

Leu Thr Met Thr Arg Trp Lys Leu Arg
 20 25

<210> 7455

<211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7455

Lys Phe Arg Phe Tyr Arg Arg Leu Tyr Lys Arg Leu Asn Thr Asn Glu
 1 5 10 15

Arg Met Lys Gln Gln Ala Leu Ala Leu
 20 25

<210> 7456
 <211> 64
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7456

Lys Phe Arg Met Ile Lys Lys Leu Phe Lys Leu Tyr Lys His Thr Lys
 1 5 10 15

Leu Thr Leu Arg Arg Lys Leu Leu Ala Arg Ile Thr Trp Gly Arg Leu
 20 25 30

Glu Leu Arg Cys Met Glu Lys Glu Met Pro Ala Arg Ala Ala Trp Arg
 35 40 45

Ala Ser Ala Lys Phe Phe Lys Lys Ile Tyr Ala Lys Trp Gln Arg Ala
 50 55 60

<210> 7457
 <211> 66
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7457

Lys Leu Arg Ile Tyr Lys Arg Met Phe Arg Arg Leu Gln Lys Val Glu
 1 5 10 15

Lys Leu Leu Arg Lys Arg Leu Phe Arg Lys Lys Pro Arg Phe Ala His

20

25

30

Pro Ala Ala Arg Arg Gly Met Lys Thr Leu Gly Phe Lys Lys Asp Val
 35 40 45

Ser Leu Gly Met Leu Leu Gly Gly Ser Leu Lys Glu Leu Ala Leu Leu
 50 55 60

Ser Leu
 65

<210> 7458

<211> 85

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7458

Arg Phe Lys Phe Leu Lys Lys Trp Leu Arg Arg Trp Arg Arg Arg Tyr
 1 5 10 15

Leu Leu Ser Leu Ala Cys Arg Glu Ile Lys Val Ala Leu Arg Ile Asp
 20 25 30

His Lys Gly Leu Leu His Leu Cys Arg Gln Asp Thr Lys Val Ala Lys
 35 40 45

Arg Glu Ala Gly Val Lys Arg Gly Glu Leu Ala Pro Gly Ala Thr Arg
 50 55 60

Gln Lys Asn Ala Leu Gly Tyr Ala Ala Leu Lys Ala Arg Ser His Lys
 65 70 75 80

Lys Ala Phe Lys Gly
 85

<210> 7459

<211> 46

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7459

Leu Met Arg Met Met Lys Lys Leu Leu Arg Lys Trp Lys Arg Ala Ala
 1 5 10 15

Arg Met Ala Cys Arg Thr Leu Arg Asp Arg Leu Ile Asp Ser Pro Asp
 20 25 30

Gly Leu Ile Leu His Lys Leu Asn Ala Glu Leu Ile Arg Ser
 35 40 45

<210> 7460

<211> 41

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7460

Leu Phe Lys Ile Leu Cys Arg Leu Trp Lys Lys Phe Cys Lys Lys Leu
 1 5 10 15

Met Leu Val Leu Arg Leu Lys Pro Leu Ala Arg Ile Val Cys Phe Pro
 20 25 30

Leu Ala Arg Gln Thr Asn Lys Asp Leu
 35 40

<210> 7461

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7461

Leu Phe Arg Phe Tyr Asn Lys Leu Phe Lys Arg Leu Pro Lys Ala Arg
 1 5 10 15

Arg Asn Ala Phe Glu
 20

<210> 7462

<211> 49

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7462

Phe	Tyr	Lys	Ile	Phe	His	Lys	Met	Leu	Arg	Leu	Phe	Arg	His	Glu	Leu
1				5					10					15	

Met	Pro	Lys	Arg	Lys	Gly	Leu	Leu	Leu	Lys	Lys	Leu	His	Pro	Ala	Leu
			20					25					30		

Lys	Lys	Leu	Leu	Leu	Gln	His	Ala	Tyr	Arg	Lys	Tyr	Leu	His	Asn	Lys
		35					40					45			

Val

<210> 7463

<211> 48

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7463

Leu	Tyr	Lys	Tyr	Ile	Lys	Arg	Leu	Trp	Arg	Lys	Leu	Lys	Lys	Ala	Ala
1				5				10						15	

Asn	Ala	Ala	Phe	Glu	Ala	Cys	Arg	Trp	Arg	Leu	Ala	Arg	Leu	Arg	Arg
			20					25					30		

Thr	Lys	Phe	Gln	Leu	Ala	Thr	Arg	Leu	Asn	Ile	Leu	Lys	His	Ala	Ile
		35					40					45			

<210> 7464

<211> 38

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7464

Ile	Trp	Arg	Tyr	Tyr	Cys	Arg	Phe	Leu	Lys	Lys	Leu	Arg	Gln	Ala	Phe
1				5					10					15	

Phe	Asp	Leu	Leu	Val	Lys	Arg	Phe	Ala	Lys	Arg	Ala	Gln	His	Gly	His
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

20

25

30

Leu Lys Glu Lys Ala Ala
35

<210> 7465
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 7465

Leu Leu Arg Met Met Arg Lys Tyr Leu Arg Arg Leu Pro Lys Glu Arg
1 5 10 15

Ala His Met Phe Arg Met Glu Lys Leu Pro Ala Gln
20 25

<210> 7466
<211> 51
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 7466

Phe Trp Lys Met Trp Lys Arg Phe Leu Arg Trp Phe Lys Arg Ala Ala
1 5 10 15

Ala Leu Ala Lys Lys Lys Ala Asn Ala Ala Ala His Gly Phe Met Leu
20 25 30

Lys Ala Ala Cys Leu Ile Arg Leu His Arg Phe Arg Lys Leu Arg Gln
35 40 45

Met Met Glu
50

<210> 7467
<211> 60
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 7467

Arg Phe Lys Ile Leu Arg Lys Leu Leu Arg Lys Trp Lys Pro Lys Trp
 1 5 10 15

Lys Ala Pro Ala Gly Thr Ala Ala Phe Ile Asp Ala Phe Ala Gly Ala
 20 25 30

His Lys Asp Leu Cys Arg Ala Arg Ser Met Ile Gln His Lys Ala Ile
 35 40 45

Ile Lys Ala Arg Ile Gly Arg Leu Leu Ala His Asp
 50 55 60

<210> 7468

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7468

Lys Tyr Arg Phe Leu Gln Arg Met Phe Arg Arg Met Cys Lys Ala Phe
 1 5 10 15

Lys Ala Ile Leu Lys Lys Phe Ala Lys Gln Ala Lys Leu Leu Gly Ile
 20 25 30

<210> 7469

<211> 68

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7469

Leu Ile Arg Tyr Phe Thr Arg Tyr Tyr Arg Lys Leu Lys Thr Lys His
 1 5 10 15

Tyr Leu Arg Ile Arg Ala Arg Ala Leu Phe Ala Pro Pro Lys Val Lys
 20 25 30

Asn Arg Cys Met Lys Lys Gln Met Cys Leu Tyr Ala Arg Leu Gly Arg
 35 40 45

Met Gln Ala Leu Leu Trp Ala Leu Leu Arg Arg Arg Leu Pro Gln Tyr
 50 55 60

Arg Ala Val Phe
 65

<210> 7470
 <211> 56
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7470

Arg Leu Lys Leu Met His Lys Leu Met Lys Lys Leu Arg Arg Leu Lys
 1 5 10 15

Arg Leu Ile Leu Pro Gln Leu Arg Val Thr Leu Leu Leu Phe Tyr Arg
 20 25 30

Cys Leu Lys His Lys Arg Arg Thr Leu Leu Pro Arg Asn Arg Leu His
 35 40 45

Arg Ala Phe Asn Gln Met Pro Ala
 50 55

<210> 7471
 <211> 71
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7471

Lys Met Arg Leu Tyr Arg Arg Ile Trp Lys Lys Met Gln Ser Lys Ala
 1 5 10 15

Leu Leu Trp Val Trp Asn Ala Trp Arg Val Lys Val Thr Ala Val Pro
 20 25 30

Ala Leu Arg Lys Ala Gly Gln Lys Lys Arg Lys Lys Lys Arg Ala His
 35 40 45

Met Ala Leu Leu Glu His Cys Ala Leu Leu Arg Asp Lys Ser Leu Met

50

55

60

Thr Cys Arg Leu Lys Gln Ser
65 70

<210> 7472
<211> 29
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 7472

Arg Leu Arg Leu Leu Lys Arg Phe Leu Lys Arg Phe Asn Arg Ala Gln
1 5 10 15

Phe Gly Ala Trp Thr Asn Ala Thr Ala Arg Phe Gly Ala
20 25

<210> 7473
<211> 74
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 7473

Arg Trp Lys Trp Leu Ser Arg Phe Met Lys Tyr Ile Lys Cys Leu Lys
1 5 10 15

Leu His Gly Ala Gln Tyr Lys Trp Gly Ala Ser Ala Tyr Lys Leu Leu
20 25 30

Leu Lys Lys Ala Trp Ala Pro Gln Tyr Arg Gln Leu Lys Ile Ala Cys
35 40 45

Arg Gly Val Ala Arg Arg Ile Lys Met Leu Arg Met Arg Leu Leu Leu
50 55 60

Ala Gly Tyr Arg Leu Glu Arg Tyr Arg Pro
65 70

<210> 7474
<211> 45
<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7474

Arg Phe Lys Leu Phe Lys Arg Phe Leu Arg Trp Leu Lys Lys Arg Leu
1 5 10 15

Ser Leu Lys Arg Lys Lys Ile Met Leu Pro Thr Leu His Arg Asp His
20 25 30

Leu Val Leu His Lys Tyr Asn Leu Val Ser Asp Leu Phe
35 40 45

<210> 7475

<211> 77

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7475

Arg Trp Lys Trp Tyr Lys Lys Leu Leu Arg Lys Leu Lys Pro Cys Leu
1 5 10 15

Leu Cys Thr Asn Ala Arg Ser Arg Asp Arg Arg Arg Ile Asp Ala Arg
20 25 30

Lys Leu Cys Arg Arg Ile Leu Lys Leu Cys Ala Thr Leu Val Lys Leu
35 40 45

Asp Gln Lys Arg Trp Asn Ile Tyr His Leu Ala Asn Pro Lys Pro Lys
50 55 60

Leu Ala Arg Ala Trp Lys Leu Phe Phe Ala Ala Met Ala
65 70 75

<210> 7476

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7476

Leu Phe Lys Met Leu Asn Lys Phe Met Arg Lys Leu Arg Pro Ala Arg
 1 5 10 15

Ala Lys Ile Arg Leu Ile Leu Arg
 20

<210> 7477

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7477

Arg Phe Lys Leu Phe His Lys Leu Leu Lys Phe Met Ser Arg Arg His
 1 5 10 15

Glu Val Lys Leu Tyr Arg Lys Leu Asp Glu Ala Gln Ala Ile Ala Arg
 20 25 30

<210> 7478

<211> 47

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7478

Lys Ile Arg Trp Tyr Lys Arg Phe Leu Arg Tyr Phe Lys Lys Arg Leu
 1 5 10 15

Ala Ala Ala Leu Gln Tyr Arg Asp Lys Ser Pro Asp Ile Leu Asp Phe
 20 25 30

Arg Ser Ala Lys Val Arg Ala Ala Leu Gln Gly Lys Ser Leu Gln
 35 40 45

<210> 7479

<211> 96

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7479

Arg Tyr Arg Leu Tyr Asn Arg Leu Ile Arg Arg Ile Lys Lys Gln His
 1 5 10 15

Asn Lys Ala Asp Lys Thr Asn Gly Leu Ala Gly Trp Arg Pro Lys Phe
 20 25 30

Leu Arg Ser Lys Phe Ala Ile Ala Ala Arg Leu Val Ile Asp Leu Ala
 35 40 45

Ala Gly Lys Trp Arg Leu Cys Ile Thr Glu Arg Lys Ser Trp Leu Phe
 50 55 60

Lys Ala Ser Met Leu Arg Lys Ala Lys Thr Leu Leu Arg Val Arg His
 65 70 75 80

Lys Arg Arg Pro Arg Val Leu Lys Thr Lys Lys Met Gln Tyr Ala Gly
 85 90 95

<210> 7480

<211> 53

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7480

Leu Leu Arg Leu Tyr Arg Lys Phe Phe Lys Met Met Arg Cys His Lys
 1 5 10 15

Ala Lys Ala Trp Ser Leu Gln Leu Thr Asp Cys Gln Tyr Ala Asn Arg
 20 25 30

Arg Ala His Gln Arg Ala Cys Glu Lys Leu Gln Gly Lys Leu Lys Lys
 35 40 45

Leu Arg Phe Arg Ala
 50

<210> 7481

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7481

Met Leu Arg Leu Leu Asn Lys Ile Leu Arg Arg Ile Lys Cys Arg Gly
 1 5 10 15

Ala Ile Gln Leu Arg Gln Asn Lys
 20

<210> 7482

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7482

Phe Leu Arg Trp Ile Pro Arg Leu Phe Arg Arg Leu Arg Lys Ala Asp
 1 5 10 15

Asp Gln Leu Phe Met Tyr Ala Arg Met Ala Leu
 20 25

<210> 7483

<211> 61

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7483

Trp Phe Lys Met Leu His Arg Leu Leu Arg Lys Ile Arg Lys Lys Leu
 1 5 10 15

Ala Cys Leu Phe Ala Leu Gly Arg Met Pro Gln Leu Arg Leu Ala Arg
 20 25 30

Thr Trp Ala Thr Asp Phe His Val Asp Ala Ala Ile Pro Lys Arg Lys
 35 40 45

Ala Tyr Arg Leu Val Trp Glu Lys Leu Lys Glu Thr Leu
 50 55 60

<210> 7484

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7484

Arg	Met	Arg	Ile	Leu	Thr	Arg	Phe	Phe	Lys	Lys	Leu	Arg	Lys	Leu	Leu
1				5					10					15	

Arg	Leu	Lys	Gly	Gly	His	Leu	Cys	Pro	Leu	Arg	Ala	Trp	Asp	Val	Asp
			20					25					30		

Val Leu

<210> 7485

<211> 60

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7485

Leu	Leu	Lys	Leu	Leu	Gln	Arg	Tyr	Met	Arg	Lys	Trp	Cys	Gln	Tyr	Arg
1				5					10					15	

Leu	Cys	Phe	Ser	Lys	Val	Ala	Ala	Cys	Ala	Ile	Arg	Leu	Leu	Met	Phe
			20					25					30		

Arg	Lys	Ala	Asn	Lys	Leu	Thr	Val	Lys	His	Cys	Lys	Ile	Leu	His	Leu
		35					40					45			

Trp	Glu	Leu	Leu	Arg	Leu	Lys	Gln	Glu	Arg	Arg	Met
	50					55					60

<210> 7486

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7486

Leu	Phe	Arg	Leu	Leu	Lys	Lys	Tyr	Phe	Lys	Arg	Tyr	Arg	Pro	Ala	Arg
1				5					10					15	

Trp Leu Thr Val Glu Ala
20

<210> 7487
<211> 25
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 7487

Arg Leu Lys Trp Leu His Arg Leu Phe Lys Lys Leu Thr Thr Trp Pro
1 5 10 15

Leu Lys Arg Leu Cys His Leu Asn Lys
20 25

<210> 7488
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 7488

Leu Ile Arg Trp Leu Pro Arg Trp Leu Arg Tyr Trp Arg Lys Arg Ser
1 5 10 15

Leu Ala Tyr Trp
20

<210> 7489
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 7489

Lys Leu Arg Phe Leu Pro Arg Phe Ile Lys Lys Met Arg Arg Met Gln
1 5 10 15

Leu Gly Arg Glu Ala Lys Phe Arg Met Leu Ala Lys Leu Leu Phe Val
20 25 30

<210> 7490
 <211> 58
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7490

Arg Tyr Lys Leu Tyr Lys Lys Leu Leu Arg Leu Leu Arg Ser Glu Asp
 1 5 10 15

Leu Leu Glu Ile Leu Gln Lys His Thr Lys Leu Gly Lys Lys Ala Arg
 20 25 30

Gly Ala Val Ala Asn Ile Pro Arg Thr Pro Lys Arg Ala Val Lys Gln
 35 40 45

His His Lys Leu Leu Trp Ala Ile Asn Ala
 50 55

<210> 7491
 <211> 98
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7491

Arg Phe Arg Phe Ile Ser Arg Leu Trp Lys Trp Ile Lys Arg Leu Ala
 1 5 10 15

Asn Trp Leu Leu Lys Gly Gly Pro Ala Val Arg Trp Leu Lys Val Ala
 20 25 30

Thr Met Val Met Arg Ala Glu Thr Phe Met Ala Ala His Leu Leu Lys
 35 40 45

Lys Arg His Leu Lys Leu Gln Lys Arg Lys Tyr Leu Ala Leu Tyr Asn
 50 55 60

Lys Ser Lys Lys Val Glu Ala Asp Met Arg Cys Ile Val Lys Arg Arg
 65 70 75 80

Thr Thr Lys Arg Ala Ala Ala Ala Leu Gly Ala Ala Ala Ile Arg Leu

85

90

95

Lys Lys

<210> 7492

<211> 76

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7492

Leu Phe Arg Trp Tyr Arg Arg Phe Tyr Lys Phe Leu Arg Asn Leu Leu
 1 5 10 15

Arg Arg Leu Leu His Phe Gln Thr Arg Cys Leu Ala Leu Lys Arg Asn
 20 25 30

Ala Thr Met Ile Arg Pro Leu Leu Asn Ala Arg Lys Ala Leu Ala Arg
 35 40 45

Leu Ile Leu Gln Asn Ile Gly Phe Arg Glu Gln Arg Leu Arg Pro Ala
 50 55 60

Tyr Lys Thr Cys Glu Ile Glu Leu Lys Ser Lys Ala
 65 70 75

<210> 7493

<211> 49

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7493

Phe Leu Arg Phe Phe Pro Lys Leu Met Lys Arg Leu His Asn His Gly
 1 5 10 15

Lys Ala Leu Ala Phe Ala Leu Asn Arg Tyr Lys Cys Lys Leu Leu Pro
 20 25 30

Arg His Lys Ala Leu Asp Leu Val Lys Lys Ala Arg Arg His Lys Trp
 35 40 45

Gly

<210> 7494
 <211> 71
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7494

Arg Ile Arg Phe Phe Lys Arg Leu Phe Lys Trp Phe Lys Cys Leu Ala
 1 5 10 15

Lys Arg Tyr Asn Tyr Lys Arg Tyr Thr Gly Ile Ile Cys His Thr Met
 20 25 30

Leu Leu Lys Ala Lys Ala Asp Lys Leu Ala Asn Thr Leu Cys Trp Arg
 35 40 45

Lys Ala Lys Leu Arg Lys Ala Arg Asn Gly Pro Pro Leu Ala Val Arg
 50 55 60

His Lys Lys Ala Leu Lys Asp
 65 70

<210> 7495
 <211> 44
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7495

Met Leu Arg Leu Tyr Lys Arg Met Leu Lys Leu Leu Lys Arg Glu Asn
 1 5 10 15

Lys Tyr Lys Tyr Ala Arg Ala Arg Lys Ala Asp Ala Thr Trp Ala Arg
 20 25 30

Lys Thr Thr Asp Cys Glu Arg Thr Leu Pro Arg Ser
 35 40

<210> 7496

<211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7496

Leu Tyr Arg Tyr Leu Lys Lys Leu Leu Arg Leu Ile Lys Cys Cys Lys
 1 5 10 15

Arg Leu Lys Met Asn Met Phe Ile Glu Arg Val Ser Lys Leu
 20 25 30

<210> 7497
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7497

Leu Leu Lys Met Tyr Thr Lys Tyr Leu Lys Lys Tyr Lys Gln His Lys
 1 5 10 15

Ala Ala Lys Val Ala His Lys Asp
 20

<210> 7498
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7498

Leu Leu Arg Leu Leu Lys Arg Leu Leu Lys Lys Leu Ser Arg Met Asp
 1 5 10 15

Met Ala Gly Lys His Arg Leu Asn
 20

<210> 7499
 <211> 65
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7499

Lys	Leu	Arg	Leu	Leu	Gln	Lys	Met	Leu	Lys	Tyr	Phe	Lys	Lys	Leu	Gly
1				5					10					15	

Lys	Leu	Val	Ala	Asn	Leu	Ser	Leu	Tyr	Thr	Arg	His	Arg	Asp	Ile	Gln
			20					25					30		

Cys	Leu	Leu	Arg	Met	Lys	His	Val	Leu	Arg	Arg	Ala	Val	Val	Arg	Asp
		35					40					45			

Gly	Pro	Lys	Ser	Gln	Arg	Lys	Ala	Lys	Cys	Cys	Lys	Phe	Ala	Ala	Leu
	50					55					60				

Asp
65

<210> 7500

<211> 64

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7500

Lys	Ile	Arg	Phe	Phe	Thr	Arg	Leu	Leu	Arg	Arg	Phe	Arg	Thr	Ile	Leu
1				5					10					15	

Pro	Gly	Lys	Leu	Val	Leu	Ala	Tyr	Leu	Ala	Ile	Met	Lys	Cys	Arg	Ala
			20					25					30		

Gly	Glu	Lys	Leu	Ala	Leu	Ser	Leu	Leu	Arg	Ile	Asp	Ser	Phe	Ala	
		35					40				45				

Arg	Asp	Arg	Ala	Ala	Glu	Cys	Ala	Arg	Arg	Met	Leu	Lys	Ala	Phe	Leu
	50					55					60				

<210> 7501

<211> 48

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7501

Met Tyr Arg Phe Phe Lys Arg Leu Leu Lys Met Ile Thr Cys Arg Ala
 1 5 10 15

Ala Met Leu Arg Arg Gly Leu Ile Met Gly Leu Ser Thr Thr Arg Arg
 20 25 30

Leu Asp Leu Val Gly Lys Arg Phe Arg Leu Lys Ala Lys Arg Arg Leu
 35 40 45

<210> 7502

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7502

Lys Leu Arg Tyr Phe Pro Lys Ile Phe Lys Lys Tyr Lys His Ala Ala
 1 5 10 15

Ala His Trp Leu Ala Lys
 20

<210> 7503

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7503

Met Leu Lys Met Leu Ser Lys Trp Leu Arg Arg Leu Ser Lys Arg Arg
 1 5 10 15

Cys Gln Lys Ala Lys Val Pro Lys Ser Thr Ala Asn Lys Leu Ala Leu
 20 25 30

Gln

<210> 7504

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7504

Arg	Ile	Lys	Leu	Phe	Pro	Lys	Trp	Leu	Lys	Leu	Met	Lys	Lys	His	Met
1				5					10					15	

Leu	Ala	Cys	Leu	Met	Gly	Arg	Lys	Arg	Leu	Leu	Ile	Lys	Phe
			20				25						30

<210> 7505

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7505

Leu	Leu	Lys	Leu	Leu	Thr	Arg	Ile	Phe	Lys	Arg	Ile	Arg	Lys	Arg	Ala
1				5					10					15	

Ala	Asp	Phe	Leu
			20

<210> 7506

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7506

Ile	Leu	Lys	Phe	Phe	Arg	Lys	Leu	Ile	Arg	Arg	Leu	Ser	Arg	Ala	Arg
1				5					10					15	

Ala	Thr	Leu	Ser	Thr	Trp
					20

<210> 7507

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7507

Lys Met Arg Phe Ile Ser Lys Leu Phe Lys Arg Leu Asn Thr Arg Leu
 1 5 10 15

Lys Val Lys Ala Gln Ala Ala Leu Ala Lys Leu
 20 25

<210> 7508

<211> 41

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7508

Phe Leu Arg Leu Phe Lys Arg Leu Leu Arg Leu Leu Asn Thr Gly Ile
 1 5 10 15

Lys Leu Thr Pro Leu Arg Thr Gly Leu Leu Arg Ala Trp Pro Leu Cys
 20 25 30

Asp Lys Met Ala Ala Met Arg Tyr Lys
 35 40

<210> 7509

<211> 65

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7509

Arg Leu Arg Leu Tyr Lys Lys Leu Ile Arg Phe Ile Pro Ser Thr Ile
 1 5 10 15

Ala Cys Val Lys Arg Lys Gln Arg Leu Arg Ala Ala Gln Ala Leu Pro
 20 25 30

Pro Leu Lys Leu Arg Ser Arg Arg His Tyr Leu Val Asn Lys Leu Cys
 35 40 45

Met His Lys Lys Asp Glu Arg Ala Lys Lys Leu Pro Phe Cys Ala Asn
 50 55 60

Glu
65

<210> 7510
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 7510

Arg Met Lys Leu Tyr Asn Lys Trp Phe Lys Lys Trp Arg Arg Lys Trp
1 5 10 15

Arg Ile Ser Val Lys Tyr Leu Ala Gly Ala Ala Ala Ala Gln Leu Trp
20 25 30

<210> 7511
<211> 45
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 7511

Tyr Leu Arg Ile Met Pro Arg Leu Leu Arg Lys Leu Lys Lys Gly Asp
1 5 10 15

Thr Ile Ser Leu Thr Lys Lys Arg Leu Arg Ala Asp Asn Ser Arg Leu
20 25 30

Arg Cys Cys Ala His Ala His Leu Gly Leu Arg Phe Glu
35 40 45

<210> 7512
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 7512

Lys Trp Arg Ile Met Thr Lys Trp Leu Lys Arg Leu Lys Asn Glu Arg
1 5 10 15

Ile Leu Leu Ala Val Asp Leu Ala Ala Lys Arg Ile Glu His
 20 25 30

<210> 7513
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7513

Ile Leu Lys Ile Leu Lys Lys Leu Phe Lys Lys Leu Lys Arg Gln Arg
 1 5 10 15

Met Ala Tyr Asn Arg Leu Ala Pro Arg Ser Leu Met
 20 25

<210> 7514
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7514

Leu Phe Lys Leu Phe Arg Lys Tyr Leu Lys Phe Leu Arg Arg Arg Lys
 1 5 10 15

Pro Val Ala Ala Cys Lys Ala Ala Asn
 20 25

<210> 7515
 <211> 74
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7515

Leu Phe Lys Leu Trp Arg Arg Leu Met Arg Lys Leu Ser Thr Ala Lys
 1 5 10 15

Val Ile Ala Ser Ala Ala Lys Ala Met Lys Val Leu Ala Lys Trp Ile
 20 25 30

Cys Arg Lys Leu His Arg Leu Lys Asp Trp Lys Lys Asn Cys Lys Asp
 35 40 45

Tyr Lys Pro Asp Ile Leu Cys Arg Asn Lys Cys Ser Lys Tyr Lys Ile
 50 55 60

Lys His Lys Trp Ala Ala Lys Pro Cys Ala
 65 70

<210> 7516
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7516

Arg Leu Arg Ile Leu Thr Lys Phe Phe Lys Arg Leu Lys Cys Gly Leu
 1 5 10 15

Lys Ala Gln Phe Ala Ser Met Thr Pro Phe Ala Ala Leu Ala
 20 25 30

<210> 7517
 <211> 73
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7517

Leu Met Lys Leu Leu Arg Arg Leu Met Arg Lys Leu Lys Lys Asp Lys
 1 5 10 15

Ala Ala Ala Met Leu Ala Lys Lys Arg Cys Ala Ile Arg Lys Val Lys
 20 25 30

Lys Lys Arg Cys Ala Lys Pro Phe Met Cys Leu Asn Leu Lys Gln Gln
 35 40 45

Arg Met Lys Arg Ala Glu Ile Glu Ala Phe Lys Glu Cys Lys Arg Ala
 50 55 60

Cys Ala Ser Ala Ser Arg Ala Met Ser

65

70

<210> 7518
 <211> 27
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7518

Arg Leu Arg Leu Phe Cys Lys Trp Phe Arg Ile Leu Asn Lys Ala Phe
 1 5 10 15

Gln Arg Lys Glu Ala Lys Ala Ala Phe Cys Tyr
 20 25

<210> 7519
 <211> 78
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7519

Arg Leu Arg Phe Met Asn Lys Phe Phe Arg Lys Leu Arg Arg Thr Cys
 1 5 10 15

Asn Leu Leu Met Leu Ser Cys Leu Pro Ala Gln Thr Glu Glu Arg Lys
 20 25 30

Asp Leu Thr Ala Gly Leu Leu Leu Lys His Thr Arg Met Lys Arg Phe
 35 40 45

Ala Lys Asn Arg Leu Leu Pro His Asp Lys Leu Gly Arg Arg Lys His
 50 55 60

Lys Leu Ser Gln Leu Leu Leu Pro Ala Pro Cys Leu Lys His
 65 70 75

<210> 7520
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7520

Leu Ile Arg Leu Tyr Lys Arg Phe Trp Arg Phe Leu Asn Arg Ala Lys
1 5 10 15

Ile His Ser Leu Arg Ala
20

<210> 7521

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7521

Lys Trp Arg Ile Ile Gln Arg Phe Tyr Lys Arg Leu Arg Lys Leu Leu
1 5 10 15

Asn Leu Gln Ala
20

<210> 7522

<211> 38

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7522

Leu Leu Arg Tyr Leu Arg Arg Leu Leu Arg Lys Ile Lys Ser Arg Arg
1 5 10 15

Met Arg Ala Ala Arg Tyr Gly Gln Asp Phe Ile Ser Met Ile Leu Gln
20 25 30

Leu Leu Phe Lys Ala Phe
35

<210> 7523

<211> 98

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7523

Lys Trp Lys Trp Leu Arg Lys Leu Leu Arg Phe Met Gln Cys Ile Lys
 1 5 10 15

Ala Lys Tyr Trp Leu Met Tyr Asn Ala Lys Thr His Leu Ala Gln Pro
 20 25 30

Gly Glu Lys Ala Ala Trp Ala Lys Lys Leu Ala Pro Gln Met Ala Ile
 35 40 45

Asn Asp Leu Thr Lys Leu His Ala Leu Pro Gly Leu Cys Lys Arg Met
 50 55 60

Ser Asp Lys Glu Arg Ala Asn Met Ala Ser Arg Ile Lys Val Ser Lys
 65 70 75 80

Leu Lys Leu Lys Glu Arg Cys Arg Gln Lys Lys Phe Lys Arg Leu Arg
 85 90 95

Ala Ala

<210> 7524

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7524

Lys Phe Arg Ile Leu Lys Lys Ile Met Lys Arg Phe Lys Arg Ala Gly
 1 5 10 15

Glu Leu Leu Ala His Ala Leu Leu Lys Lys Ser Trp Glu Thr Leu Ala
 20 25 30

Leu Gln Ile Trp
 35

<210> 7525

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7525

Leu Leu Lys Tyr Phe Lys Arg Met Leu Arg Arg Leu Gln Cys Val Leu
 1 5 10 15

Phe Lys Lys Val Leu Leu Asp Ala Arg
 20 25

<210> 7526

<211> 37

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7526

Arg Leu Arg Leu Tyr Arg Arg Leu Leu Arg Arg Tyr Gln Lys Ala Trp
 1 5 10 15

Ile Asn Ile Ile Leu Arg Leu Ala Pro Tyr Leu Cys Ala Glu Ala Arg
 20 25 30

Gln Asn Met Lys Gly
 35

<210> 7527

<211> 66

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7527

Arg Trp Arg Leu Ile Ser Arg Leu Leu Arg Arg Leu Lys Arg Lys Asp
 1 5 10 15

Ala Met Arg Lys Lys Trp Ala Lys Arg Met Ala Ser Met Ile Leu Arg
 20 25 30

Gly Ser Leu Pro Pro Thr Leu Phe Cys Ser Thr Lys Pro Ala Arg Gly
 35 40 45

Leu Lys Asn Lys Ala Trp Ala Gly Arg Thr Leu Ala Glu Lys Arg Asp

50

55

60

Arg Met
65

<210> 7528
<211> 97
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 7528

Arg Trp Arg Tyr Trp Arg Lys Leu Tyr Lys Arg Phe Pro Thr Asp Leu
1 5 10 15

Asp Ala Pro Arg Pro His Leu Lys Ala Leu Cys Ala Leu Leu Thr Trp
20 25 30

His Arg Trp Phe Gly Asn Cys Val Ala Arg Tyr Leu Tyr Leu Tyr Leu
35 40 45

Lys Leu Thr Glu Ala Asp Val Leu Arg Pro Glu Ala Ala Lys Lys Leu
50 55 60

Arg Ala Arg Arg Cys Met Leu Arg Lys Met Ile Trp Arg Arg Ala Pro
65 70 75 80

Gly Ala Trp Lys Lys Gly Arg Ala Leu Tyr Arg Met Lys Trp Arg Leu
85 90 95

Arg

<210> 7529
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 7529

Tyr Phe Arg Leu Phe Arg Arg Ile Phe Arg Arg Leu Ser Ser Arg Ala
1 5 10 15

Leu Arg Val Arg Gly Ala Leu
20

<210> 7530
<211> 50
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 7530

Ile Phe Arg Leu Met Lys Lys Ile Leu Lys Lys Leu Arg Arg Val Gln
1 5 10 15

Pro Asp Ala Leu Lys Ser His Cys Ala Val Tyr Ala Tyr Lys Ala Ala
20 25 30

His Ala Ala Asp Arg Ala Arg Leu Pro Thr Gly Ala Arg Arg Phe Leu
35 40 45

Ala Trp
50

<210> 7531
<211> 33
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 7531

Leu Phe Arg Leu Met Gln Arg Ile Phe Lys Lys Leu Arg Arg Leu Lys
1 5 10 15

Leu Asp Ser Phe Lys Thr Ala Leu Lys Ala Tyr Arg Gly Glu Ser Lys
20 25 30

Thr

<210> 7532
<211> 29
<212> PRT
<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7532

Arg	Trp	Arg	Leu	Leu	Pro	Lys	Ile	Phe	Lys	Arg	Leu	Lys	Arg	Tyr	Val
1				5					10					15	

Gln	Leu	Leu	Ala	Arg	Pro	Leu	Glu	Ala	Leu	Arg	Ala	Gly
			20					25				

<210> 7533

<211> 31

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7533

Trp	Leu	Lys	Phe	Phe	Lys	Lys	Trp	Met	Arg	Leu	Met	Arg	Lys	Ala	Ala
1				5					10					15	

Ile	Leu	Lys	Gln	Ala	Leu	Leu	Ala	Arg	Gln	Thr	Val	Lys	Arg	Thr
			20					25					30	

<210> 7534

<211> 43

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7534

Arg	Leu	Lys	Leu	Leu	Lys	Lys	Trp	Phe	Arg	Phe	Met	Gln	Lys	Leu	Ser
1				5					10					15	

Leu	Ala	Lys	Leu	Ala	Leu	Gln	Asn	Ile	Gln	Phe	Tyr	Cys	Met	Ala	Gln
			20					25					30		

Glu	Arg	Asn	Arg	Met	Lys	Ala	Arg	Arg	Glu	Ala
		35					40			

<210> 7535

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7535

Tyr	Ile	Arg	Phe	Tyr	Arg	Arg	Phe	Met	Lys	Leu	Leu	His	Lys	Gln	Asp
1				5					10					15	

Ser	Ala	Arg	Ala	Leu	Arg	Thr	Lys	Phe	Cys	Lys	Ser	Ala	Ala	Ala	Lys
			20					25					30		

<210> 7536

<211> 64

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7536

Leu	Phe	Arg	Ile	Trp	His	Arg	Tyr	Phe	Lys	Trp	Leu	Arg	Thr	Gly	Tyr
1				5					10					15	

Ile	Ala	Arg	Cys	Gln	Arg	Asn	Leu	Ala	Val	Arg	Val	Ala	Ala	Asp	Phe
			20					25					30		

Lys	Ala	Lys	Leu	Arg	Trp	Trp	Ala	Leu	Ile	Gly	Arg	Arg	Asn	Leu	Arg
		35					40					45			

Ala	Lys	Ala	Lys	Arg	Arg	Trp	Arg	His	Met	His	Lys	Val	Arg	Arg	Leu
	50					55					60				

<210> 7537

<211> 65

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7537

Leu	Phe	Lys	Met	Ile	Lys	Arg	Leu	Tyr	Arg	Lys	Met	His	Ser	Ala	Leu
1				5					10					15	

Ala	Ala	His	Leu	Arg	Val	Leu	Lys	Lys	Ala	Gly	Gly	Leu	Lys	Leu	Lys
			20					25					30		

Lys	Arg	Gly	Lys	Arg	Asn	Ala	Ala	Pro	Leu	Ser	Asp	Phe	Arg	Thr	Pro
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

35

40

45

Lys Met Ala Tyr Trp Ile Leu Tyr Lys His Ile Lys Tyr Lys Arg Trp
 50 55 60

Asn
 65

<210> 7538
 <211> 42
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7538

Arg Leu Lys Leu Trp Arg Arg Met Leu Lys Leu Tyr His Arg Arg Lys
 1 5 10 15

Ala Ala Leu Arg Pro Val Glu Arg Lys Leu Thr Arg Arg Pro Arg Phe
 20 25 30

Trp Pro Ser Leu Lys Trp Ala Ala Leu Cys
 35 40

<210> 7539
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7539

Lys Leu Arg Leu Leu Lys Arg Tyr Met Lys Tyr Tyr Asn Lys Thr Ile
 1 5 10 15

Ile Arg Ser Ala Leu Trp Phe Leu Leu Arg Ser Lys Leu Leu Gly Ala
 20 25 30

Arg Lys Lys Asp
 35

<210> 7540
 <211> 45
 <212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7540

Leu Trp Arg Leu Ile Arg Arg Tyr Tyr Lys Arg Leu Thr Lys Gln His
1 5 10 15

Leu Leu Thr Lys Arg Lys Thr Lys Lys Gly Ala Ser Ala His Leu Ile
20 25 30

Lys Arg Lys Glu Gly Trp Ala Glu His Ala Val Thr Leu
35 40 45

<210> 7541

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7541

Lys Leu Arg Tyr Met Lys Lys Tyr Phe Arg Ile Trp Lys Arg Cys Cys
1 5 10 15

Lys Ala Lys Leu Asp Gln Trp Leu Ser Glu Arg Leu Gln Leu Arg Ala
20 25 30

Leu Ala Lys Ala Leu Trp Leu Leu
35 40

<210> 7542

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7542

Ile Leu Arg Leu Leu Lys Arg Leu Phe Lys Arg Met Arg Lys Gly Ile
1 5 10 15

Lys Arg Glu Leu Ala Leu Pro Arg Asp Met Met Ile Leu Thr Pro Lys
20 25 30

Thr Ala Tyr
35

<210> 7543
<211> 37
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 7543

Arg Leu Lys Leu Met Arg Arg Tyr Leu Arg Leu Leu Lys Arg Glu Ile
1 5 10 15

Met Leu Gly Arg Ser Pro Ala Ile Ala Pro Val Arg Ala Lys Arg Thr
20 25 30

Leu Asn Asp Tyr Ala
35

<210> 7544
<211> 31
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 7544

Met Phe Lys Phe Leu Pro Lys Phe Leu Lys Lys Leu His Lys Ile Ala
1 5 10 15

Ala Leu Ala Asp Arg Arg Leu Leu Arg Ala Leu Asp Lys Arg Ala
20 25 30

<210> 7545
<211> 78
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 7545

Arg Leu Arg Trp Leu Lys Lys Trp Trp Lys Lys Ile His Lys Leu Lys
1 5 10 15

Gln Tyr Tyr Arg Leu Leu Lys Leu Pro Ala Ala Leu His Cys Ala His
 20 25 30

Leu His Lys Ala Lys Gln Gln Lys Thr Asn Ala Phe Trp Trp Pro Leu
 35 40 45

Gly Gln Gly Leu Lys Val Leu Arg Gly Arg Thr Arg Leu Asn Met Val
 50 55 60

Ala Asn Arg Gly Leu Leu Trp Leu Pro Arg Ala Pro Ala Arg
 65 70 75

<210> 7546

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7546

Lys Phe Lys Leu Tyr Pro Lys Ile Phe Lys Lys Phe Lys Lys Phe Ala
 1 5 10 15

Cys Lys Leu Leu Ser Ala Ala Ser Ala Phe Ala Ser Arg Leu Gly Arg
 20 25 30

Cys Ala Trp
 35

<210> 7547

<211> 72

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7547

Phe Leu Lys Tyr Leu Arg Lys Leu Phe Arg Phe Ile Arg Arg Lys Lys
 1 5 10 15

Arg Glu Gly Met Cys Ala Cys Gln Leu Lys Ala Gly Arg Tyr Ala Leu
 20 25 30

Arg Leu Phe Ala Leu Arg Gly Ala Leu Ala Met Glu Lys Val Arg Pro

35

40

45

Gly Lys Lys Leu Arg Glu Trp Lys Val Ala Lys Arg Ser Pro His Leu
 50 55 60

Ala Gly Met Lys Val Leu Phe Arg
 65 70

<210> 7548

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7548

Arg Leu Arg Met Trp Thr Arg Trp Ile Lys Phe Phe Asn Arg Ala Ile
 1 5 10 15

Leu Gly Leu Leu Ala Leu Leu Ala Leu Thr Arg Arg Thr Cys Arg Phe
 20 25 30

Ala Ile Tyr Arg
 35

<210> 7549

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7549

Leu Leu Arg Met Leu Arg Arg Leu Phe Lys Ile Leu His Arg His Ala
 1 5 10 15

Arg Lys Tyr Ile Leu Ile Ser Arg
 20

<210> 7550

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7550

Leu Leu Lys Phe Tyr Thr Arg Leu Met Lys Ile Leu Cys Arg Asn Arg
1 5 10 15

Leu Ala Asn Thr Leu Phe Arg Ala Leu Ser Lys Ala Leu Ile Lys Arg
20 25 30

<210> 7551

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7551

Leu Tyr Lys Phe Phe Thr Lys Met Leu Arg Phe Leu Arg Lys Leu Leu
1 5 10 15

Ala Ile Lys Pro Ala Lys Lys Asp Ala Arg Leu Ala Lys Ser Arg Phe
20 25 30

Tyr Ser Tyr
35

<210> 7552

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7552

Leu Met Arg Leu Leu Pro Lys Phe Trp Lys Lys Met Arg Lys Gln Leu
1 5 10 15

Glu Leu Ala Lys Arg His Leu Lys Trp
20 25

<210> 7553

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7553

Arg Tyr Lys Leu Leu Cys Arg Phe Phe Arg Arg Phe Arg His Thr Ala
 1 5 10 15

Met Ala Glu Met Ala Leu Lys Lys
 20

<210> 7554

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7554

Trp Tyr Arg Leu Leu Asn Lys Leu Tyr Arg Lys Leu Arg Arg Met Val
 1 5 10 15

Thr Ala Lys Lys Leu Ala Asp Asp Asp Pro Ala Asn Gln Ala Ala Asn
 20 25 30

Lys

<210> 7555

<211> 91

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7555

Arg Phe Lys Tyr Phe Lys Lys Leu Ile Lys Lys Leu Arg Lys Arg Lys
 1 5 10 15

Ala His Phe Ala Asp Arg Asp Ala Glu Cys Met Ala Leu Ala Leu Leu
 20 25 30

Lys Lys Ala Cys Gln Asp Ala Ile Arg Asn Arg Thr Ala Lys Ser Arg
 35 40 45

Leu Leu Arg Val Arg Lys Val Ala Ala Arg Ser Ser Ala Arg Arg Gln
 50 55 60

Pro Cys Ala Cys Lys Pro Asp Ala Asp Ala Leu Lys Thr Lys Lys Asn
 65 70 75 80

Glu Cys Glu Val Gln Ala Trp Tyr Pro Leu Gly
 85 90

<210> 7556

<211> 53

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7556

Arg Leu Lys Leu Met Lys Lys Phe Phe Arg Lys Leu Pro Lys Leu Lys
 1 5 10 15

Lys Phe Asp Glu Pro Ala Asp His Met Gly Leu Ala Ala Ala Leu Glu
 20 25 30

His Val Leu Arg Arg Tyr Arg Lys Leu Leu Gly Gly Ala Lys Ala Ala
 35 40 45

Gly Cys Lys Gln Pro
 50

<210> 7557

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7557

Arg Ile Arg Leu Met Lys Lys Leu Phe Arg Leu Leu Thr Pro Ala His
 1 5 10 15

Pro Met Met Leu
 20

<210> 7558

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7558

Phe	Phe	Lys	Leu	Trp	Lys	Arg	Leu	Leu	Arg	Trp	Phe	Arg	Lys	Gly	His
1				5					10					15	

Ala	Ala	Glu	Ser
			20

<210> 7559

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7559

Arg	Met	Arg	Leu	Leu	Cys	Lys	Phe	Trp	Arg	Lys	Ile	His	Lys	Lys	Ser
1				5					10					15	

Lys	Trp	Leu	Val	His	Glu	Arg	Leu	Ala	Leu	Ile	Ala	Arg	Trp
			20					25					30

<210> 7560

<211> 56

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7560

Arg	Trp	Lys	Leu	Phe	Lys	Lys	Phe	Leu	Lys	Ile	Trp	Arg	Gln	Arg	His
1				5					10					15	

Lys	Ala	Ala	Arg	Leu	Gln	Arg	Asp	Asn	His	Asn	Leu	Ser	Arg	Leu	Arg
			20					25					30		

Lys	Gln	Met	Lys	Leu	Ala	Leu	Lys	Met	Ala	Val	Tyr	Lys	Gln	Leu	Glu
		35					40					45			

Leu	Glu	Thr	Leu	Arg	Glu	Ala	Lys
	50					55	

<210> 7561

<211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7561

Arg Tyr Lys Phe Ile Lys Lys Phe Met Arg Leu Met His Arg Lys Ala
 1 5 10 15

Leu Asp Ala Met Leu
 20

<210> 7562
 <211> 37
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7562

Lys Met Arg Phe Leu Cys Lys Leu Phe Lys Leu Tyr Lys Asn Lys Arg
 1 5 10 15

Lys Asn Lys Leu Ala Leu Ala Ala Ala Leu Trp Ser Asp Leu Ser Ser
 20 25 30

Phe Arg Lys Ala Thr
 35

<210> 7563
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7563

Arg Phe Arg Leu Tyr Lys Lys Leu Leu Arg Arg Phe Arg Pro Leu His
 1 5 10 15

Ile Ala Gln Leu Arg Glu
 20

<210> 7564

<211> 54
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7564

Trp Ile Lys Ile Leu Arg Lys Leu Leu Arg Arg Trp Asn Cys Leu Lys
 1 5 10 15

Ile Asn Asp Glu Leu Lys Trp Ala Leu Pro Arg Arg Ala Gln Leu Ile
 20 25 30

Ile Arg Gln Val Lys Ile Ala Gly Lys Ile Leu Leu Gly Arg Lys Arg
 35 40 45

Ile Ala Val Asp Lys Lys
 50

<210> 7565
 <211> 39
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7565

Arg Leu Arg Ile Ile Gln Arg Ile Leu Lys Lys Ile Thr His Ala Leu
 1 5 10 15

Val Lys Ile Arg Pro Leu Leu Lys Leu Asn Ser Lys Arg Ala Glu Trp
 20 25 30

Lys Met Ala Val Ala Asp Leu
 35

<210> 7566
 <211> 42
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7566

Lys Phe Arg Leu Leu Ser Lys Leu Phe Arg Arg Leu Lys Arg Ile Lys

Leu Phe Lys Phe Leu His Arg Phe Leu Arg Tyr Trp Arg Asn Arg Val
1 5 10 15

Ile Ala Ala Arg Arg Ala Pro
20

<210> 7569
<211> 54
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 7569

Leu Met Lys Phe Leu Cys Arg Leu Leu Lys Lys Leu His Arg Pro Cys
1 5 10 15

Asn Ala Lys Phe Pro Arg Lys Gln Lys Arg Leu Ala Cys Glu Cys Leu
20 25 30

Arg Phe Ala Pro Glu Ala Gln Leu Lys Leu Ala Gly Arg Arg Tyr Lys
35 40 45

Gly His Leu Leu Ala His
50

<210> 7570
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 7570

Arg Phe Lys Tyr Met Arg Arg Leu Ile Lys Arg Leu Arg Lys Ala Val
1 5 10 15

Leu Phe Cys His Ala Leu Met Cys Lys Ala Ser Asp Ser Ala Arg Ala
20 25 30

<210> 7571
<211> 52
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 7571

Tyr Leu Arg Ile Leu Lys Lys Leu Leu Lys Tyr Tyr Arg Lys Glu Ser
 1 5 10 15

Thr Leu Tyr Leu Thr Lys Lys Leu Lys Pro Asn Ile Asn Ala Leu Ala
 20 25 30

Asp Arg Arg Ser Leu Ala Arg Ala Leu Cys Asn Arg Lys Ser Gln Leu
 35 40 45

Met Arg Arg Trp
 50

<210> 7572
 <211> 54
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7572

Arg Met Lys Ile Leu Arg Lys Met Leu Lys Met Leu Lys His Ala Ala
 1 5 10 15

Arg Pro Pro Leu Leu Lys Leu Arg Ala Met Ser Ala Cys Arg Ala Phe
 20 25 30

Leu Ala His Met Met Gln Cys Phe Arg Arg Leu Ala Val Gln Arg Gly
 35 40 45

Leu Trp Phe Arg Lys Ala
 50

<210> 7573
 <211> 69
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7573

Lys Ile Arg Met Phe Lys Lys Ile Leu Arg Met Leu Gln Arg Ala Glu
 1 5 10 15

Arg Leu Leu Lys Lys Arg Ala Val Lys Ala Glu Lys Gln Ala Arg Lys

20 25 30
 Tyr Val His Ile Lys Arg Lys Tyr Glu Ala Thr Ser Phe Ala Val Lys
 35 40 45
 Thr Trp Met Lys Leu Leu His Thr Pro Lys Leu Leu Val Leu Ser Phe
 50 55 60
 Lys Pro Ala Gly Arg
 65

<210> 7574
 <211> 48
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7574

Arg Leu Lys Phe Trp Gln Arg Tyr Met Lys Lys Ile Ser Lys Leu Ile
 1 5 10 15

Leu Leu Leu Thr Ala Arg Pro Ile Lys Leu Lys His Lys Lys Ser Tyr
 20 25 30

Ala Ser Ala Leu Asp Asp Leu Cys Ala Ala Lys Leu Asn Ala His Ala
 35 40 45

<210> 7575
 <211> 58
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7575

Arg Ile Arg Trp Met Arg Lys Tyr Phe Arg Leu Leu Lys Lys Asp Ala
 1 5 10 15

Pro Leu Arg Gln Gly Gly Leu Thr Leu Leu Arg Asn Cys Lys Pro Trp
 20 25 30

Val Ala Ala Leu Lys Lys Ser Asn Thr Ile Gln Leu Arg Arg Asn Ala
 35 40 45

Gly Lys Thr Lys Arg Ala Asn Ala Arg Ala
 50 55

<210> 7576
 <211> 31
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7576

Tyr Met Lys Phe Phe Lys Lys Leu Leu Arg Leu Phe Lys His Arg Thr
 1 5 10 15

Asp Ala Gly Ala Ala Arg Lys Glu Lys Ala Ala Thr Ala Lys Leu
 20 25 30

<210> 7577
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7577

Trp Leu Arg Trp Ile Ser Arg Leu Trp Lys Arg Tyr Arg Asn Leu Leu
 1 5 10 15

Pro Ala Ala Ile Ala Gln Lys
 20

<210> 7578
 <211> 70
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7578

Leu Tyr Arg Ile Leu Lys Arg Leu Phe Arg Phe Leu Arg Thr Asn Leu
 1 5 10 15

Ala Trp Lys Tyr Gln Gln Ala Ile Cys Lys Cys Cys Thr Leu Ala Ala
 20 25 30

Leu Lys Leu Lys Lys Leu Arg Arg Leu Glu Ala His His Arg Leu Lys
 35 40 45

Ile Lys His Lys Cys Asp Arg Gly Leu Leu Asp Lys Ala Gly Gly Pro
 50 55 60

Arg Ala Leu Cys Leu Trp
 65 70

<210> 7579
 <211> 58
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7579

Lys Trp Lys Phe Ile Lys Arg Trp Phe Lys Lys Met Arg Asn Lys Tyr
 1 5 10 15

Ala Phe Leu Ser Leu Ala Lys Arg Leu Arg Lys Leu Thr Arg Leu Ser
 20 25 30

His Leu Ala Leu Ile Cys Ile Thr Ala Glu Lys Arg Ser Ala Leu Glu
 35 40 45

Leu Leu Gly Trp Lys Phe Trp Lys Leu Phe
 50 55

<210> 7580
 <211> 42
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7580

Lys Phe Lys Leu Met Lys Arg Met Met Lys Leu Met Arg Arg Ala Leu
 1 5 10 15

Lys Lys Lys Lys Arg Phe His Asp Ala Met Leu Met Glu Asn Leu Thr
 20 25 30

Ala Trp Leu Leu Trp Asn Ile Ser Ala Leu

35

40

<210> 7581

<211> 80

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7581

Lys Ile Arg Tyr Leu Lys Arg Leu Trp Arg Arg Met Lys Gln Val Leu
 1 5 10 15

Leu Ala Gly Lys Ile Ala Lys Ser Lys Lys Ala Lys Lys Arg Lys Trp
 20 25 30

Ile Trp Ala Lys Phe Gln Lys Val Ala Ser Leu Thr Leu Arg Arg Met
 35 40 45

Glu Met Gly Ile Asp Glu Ala Gly Lys Ala Phe Gly Gly Ala Arg Trp
 50 55 60

Ala Phe Cys Leu Ser Phe Arg Leu Lys Lys Ser Lys Glu Ala Ala Cys
 65 70 75 80

<210> 7582

<211> 45

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7582

Leu Phe Arg Trp Leu Cys Lys Leu Trp Arg Arg Met Lys Arg Leu Arg
 1 5 10 15

Gly Val Lys Gly Leu His Leu Pro Ala Ala Arg Asn Asn Tyr Ala Leu
 20 25 30

Lys Thr Leu Arg Glu Cys Asn Ala Leu Phe Trp Ala Ala
 35 40 45

<210> 7583

<211> 58

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7583

Lys Leu Arg Leu Met Arg Arg Phe Ile Arg Lys Leu Arg Arg Lys Ile
1 5 10 15

Cys Ala Ser Lys Pro Leu Pro Leu Leu Leu Ala Leu Leu Lys Phe Gly
20 25 30

Ser Lys Ala Ser Lys Cys Thr Ala Trp Ala Leu Leu Leu Tyr Gln Lys
35 40 45

Tyr His Arg Leu Gln Asn Leu Leu Arg Asp
50 55

<210> 7584

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7584

Lys Phe Arg Ile Met Pro Arg Leu Leu Lys Leu Trp Arg Arg Ile Ala
1 5 10 15

Leu Ser Ala Asn Lys Ala Glu Asp Ala Ala Ser Leu Gln Arg Asp Leu
20 25 30

<210> 7585

<211> 69

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7585

Lys Leu Lys Leu Trp Lys Lys Phe Phe Lys Arg Ile Thr Lys Cys Arg
1 5 10 15

Arg Pro Leu Leu Thr Pro Ser Phe Lys Glu Glu Arg Leu Arg Leu Leu
20 25 30

Pro Met Gln Lys Ala Ala Ala Ser Glu Glu Ala Met Thr His Arg Lys
 35 40 45

Arg Ala Ala Leu Lys Thr His Ala Met Lys Lys Ala His Phe Ala Leu
 50 55 60

Cys Phe Lys Trp Val
 65

<210> 7586
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7586

Lys Met Arg Leu Ile Asn Lys Tyr Phe Lys Arg Leu Ser His Ala Leu
 1 5 10 15

Leu His Arg Arg Ala Asp Ala Ala Ile Leu Leu Arg Trp Ile Ser Lys
 20 25 30

Arg Met

<210> 7587
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7587

Ile Tyr Arg Leu Phe Lys Arg Leu Trp Arg Arg Leu Ser Pro Cys Ala
 1 5 10 15

Ala Ile Ala Leu Glu Ala Arg Gly Ala Trp Ala Lys Thr Asp Ser Arg
 20 25 30

Lys

<210> 7588

<211> 49
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7588

Arg Leu Lys Leu Leu Arg Lys Leu Leu Lys Phe Leu His Lys Ala Ala
 1 5 10 15

Ala Arg His Arg Lys Leu Ile Ala Ile Gln Lys Ala Gly Lys Tyr Trp
 20 25 30

Ile Arg Ala Phe Tyr Ala Tyr Trp Thr Leu Cys Cys Ile Asn Pro Arg
 35 40 45

Ala

<210> 7589
 <211> 45
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7589

Arg Met Lys Leu Phe Pro Lys Trp Leu Arg Leu Phe Lys Arg Gln Pro
 1 5 10 15

Phe Lys Ala Lys Leu Leu Arg Ala Ala Leu Ala Cys Glu Leu Arg Pro
 20 25 30

Asp Arg Thr His Tyr Leu Lys His Lys Lys Ala Leu Val
 35 40 45

<210> 7590
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7590

Trp Trp Arg Phe Trp Arg Arg Leu Phe Arg Arg Tyr Cys Arg Arg Pro

1 5 10 15

Arg Leu Leu Leu Ala Ile Ala Arg Phe Leu Leu Leu Ser Asn Leu Asn
 20 25 30

Leu

<210> 7591
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7591

Lys Leu Lys Met Leu Arg Lys Trp Leu Arg Arg Ile Arg Gln Asn Ala
 1 5 10 15

Lys Gln Leu Ala Gln Ala Arg Pro Ala Ala Gln Leu
 20 25

<210> 7592
 <211> 64
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7592

Tyr Phe Arg Leu Tyr Lys Lys Leu Trp Arg Trp Met Arg Arg Lys Met
 1 5 10 15

Lys Asn Thr Trp Cys Ala Leu Arg Asp Glu Leu Glu Trp Lys Gly Leu
 20 25 30

Lys Gly Leu Ala Arg His Ala Leu Ala Ala Arg Ser Ser Lys Arg Lys
 35 40 45

Pro Arg Ala Pro Glu Ala Asn Lys Arg Asp Trp Leu Cys Lys Ala Ser
 50 55 60

<210> 7593
 <211> 33
 <212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7593

Lys Phe Arg Met Ile Arg Lys Leu Ile Lys Arg Trp His Lys Arg Asp
1 5 10 15

Glu Leu Lys Leu Asn Arg Ala Leu Ala Leu Met Gly Cys Pro Leu Gln
20 25 30

Ala

<210> 7594

<211> 57

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7594

Lys Leu Arg Leu Tyr Gln Arg Leu Ile Lys Leu Leu Asn Lys Met Tyr
1 5 10 15

Lys Leu Lys His Arg Lys His Leu Ala Leu Glu Leu Pro His Ala Ala
20 25 30

Thr Lys Cys Ala Pro Asn Ala Glu Ile Pro Leu Cys Pro Lys Phe Ala
35 40 45

Lys Arg Leu Trp Gly Lys Leu Asp Asp
50 55

<210> 7595

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7595

Trp Trp Lys Leu Leu Lys Arg Ile Phe Lys Lys Trp Ser Lys Gly Met
1 5 10 15

Ser Ala Tyr Arg Leu Ala Val Ala Leu Gln Leu
 20 25

<210> 7596
 <211> 56
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7596

Arg Leu Lys Leu Leu Arg Lys Met Leu Arg Arg Met Cys Ser Trp Asn
 1 5 10 15

Val Glu His Ala Arg Tyr Lys Val Thr Arg His His Arg Ala Phe Leu
 20 25 30

Ala Cys Tyr Lys Met Lys Arg Val Ile Glu Lys Leu Ala Ser Leu Ile
 35 40 45

Leu Pro Ala Arg Lys Ala Arg Thr
 50 55

<210> 7597
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7597

Arg Tyr Arg Phe Trp Arg Lys Tyr Leu Lys Tyr Leu Arg Lys Leu Cys
 1 5 10 15

Asp Trp Leu Thr Ala
 20

<210> 7598
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7598

Leu Trp Lys Phe Met Pro Arg Phe Leu Arg Met Leu Cys Lys Arg Gln
 1 5 10 15

Arg Asp Ala Ala Asp Cys Leu Leu Arg Ala Pro Tyr Ala Leu Arg Gly
 20 25 30

Lys

<210> 7599
 <211> 90
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7599

Lys Phe Lys Tyr Leu Asn Arg Ile Leu Lys Lys Phe Lys Lys Ala Leu
 1 5 10 15

Thr Pro Ala Leu Gln Ser Arg Lys Tyr Thr Arg Ile Arg Ser Lys Ala
 20 25 30

Arg Arg Ala Met Thr Phe Arg Ala Cys Pro Leu Val Arg Glu Ala Ser
 35 40 45

Asp Thr Ala Arg Arg Leu Leu His Ala Lys Pro Phe Ser Leu Leu Ile
 50 55 60

Asn Val Pro Asp Arg Thr Arg Arg Lys Arg Arg Ala Thr Ala Tyr Tyr
 65 70 75 80

His Leu Val Leu Leu Pro Lys Arg Ala Ala
 85 90

<210> 7600
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7600

Met Phe Arg Tyr Phe His Lys Met Leu Arg Lys Tyr Lys Lys Lys Lys

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7603

Trp Ile Lys Leu Leu Lys Lys Trp Ile Lys Lys Leu Arg His Arg Arg
1 5 10 15

Arg Ser Lys Leu Gln Met Thr Leu Asp Gln Cys Phe Lys Leu Leu Leu
20 25 30

Lys Asn Arg Tyr Ala Trp Met Phe Ala
35 40

<210> 7604

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7604

Lys Phe Lys Met Leu Lys Arg Leu Tyr Arg Leu Trp Arg Gln Trp Lys
1 5 10 15

Arg Asp Met Asn Asn Ala Met Thr Gly Ile Gln Ala Leu Arg Arg Thr
20 25 30

Lys Arg Asp Ala Leu Leu Arg Phe
35 40

<210> 7605

<211> 64

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7605

Arg Leu Arg Leu Phe Arg Lys Phe Met Lys Lys Leu Lys Arg Lys Asp
1 5 10 15

Ala Arg Tyr Ser Gly Arg Leu Gln Ala Leu His Ala Ala Leu Cys Phe
20 25 30

Arg Ala Leu Val Asn Phe Thr Trp Thr Arg Met Ala Lys Leu Tyr Lys
 35 40 45

Asp Leu Leu Pro Ala Leu Pro Phe His Glu Leu Leu Gly Leu Trp Tyr
 50 55 60

<210> 7606
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7606

Trp Phe Lys Leu Trp Ser Arg Phe Ile Lys Arg Phe Gln Ser Ala Leu
 1 5 10 15

Gln Lys Arg Ala Ala Lys Leu Ala
 20

<210> 7607
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7607

Lys Trp Lys Leu Ile Cys Lys Leu Tyr Arg Lys Leu Asn Cys Ala Lys
 1 5 10 15

Arg Ala Phe Ala Cys Ala Ser Ser Lys Ser Asp Arg Leu Tyr Arg Lys
 20 25 30

His

<210> 7608
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7608

Leu Tyr Arg Tyr Leu Lys Arg Leu Tyr Arg Lys Leu Cys Asn Ala Cys
 1 5 10 15

Leu His Ala Lys
 20

<210> 7609

<211> 46

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7609

Arg Tyr Arg Tyr Ile Arg Lys Phe Leu Arg Ile Phe His Ser Val Thr
 1 5 10 15

Arg Ala Val Tyr Leu Leu Thr Lys Lys Leu Arg Met Lys Leu Ala Leu
 20 25 30

Leu Val Leu Ala Lys Ala Ile Arg Val His Ala Leu Lys Val
 35 40 45

<210> 7610

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7610

Arg Trp Lys Trp Trp Arg Arg Tyr Leu Lys Arg Phe Arg Thr Leu Asp
 1 5 10 15

Lys Gln Ala Asp Thr Trp Val Lys Ala Arg Leu Val Ala Ala
 20 25 30

<210> 7611

<211> 38

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7611

Arg Tyr Arg Leu Phe Arg Arg Leu Leu Arg Arg Leu Asn Asn Ala Lys
 1 5 10 15

Ile Ser Leu Ala Phe Gln Leu Val Lys Lys Trp Leu His His Ile Asn
 20 25 30

Tyr Met Ala Leu Leu Arg
 35

<210> 7612
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7612

Arg Leu Lys Leu Leu Arg Arg Leu Met Arg Lys Trp Asn Asn Leu Leu
 1 5 10 15

Ser Leu Arg Val
 20

<210> 7613
 <211> 90
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7613

Lys Leu Arg Leu Leu Lys Arg Tyr Met Lys Tyr Leu Lys Ser Ala Cys
 1 5 10 15

Lys Lys Thr Tyr Lys Ala Arg Arg Asn Leu Trp Tyr Arg Leu Lys Arg
 20 25 30

Leu Arg Lys Lys Ala Leu His Asp Phe Ala Lys Leu Lys Tyr Cys Lys
 35 40 45

Lys Lys Glu Arg Leu Cys Leu Lys Met Gly His Glu Ala Gln Cys Lys
 50 55 60

Ala Tyr Ala Ala Tyr Lys Ala Leu Gly Thr Tyr Arg Lys Ser Arg Glu

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<210> 7614
<211> 77
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 7614
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Leu	Met	Arg	Phe	Leu	Gln	Lys	Phe	Ile	Lys	Lys	Leu	Lys	Gln	Gln	Ser
1				5					10					15	
Thr	Gly	Leu	Arg	His	Val	Leu	Arg	Lys	Arg	Lys	Leu	Arg	Thr	Arg	Asn
			20					25					30		
Leu	Thr	Tyr	Arg	Ser	His	Ala	Ala	His	Arg	Asn	Gln	Ser	Leu	Asn	Leu
		35					40					45			
Ala	Ala	Ala	Ala	Arg	Leu	His	Gly	Asn	Lys	Arg	Glu	His	Gly	Thr	Lys
	50					55					60				
Lys	Ala	Arg	Thr	Lys	Ala	Leu	Trp	Asp	Lys	Lys	Arg	Leu			
65					70					75					

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<210> 7615
<211> 60
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 7615

Phe Leu Arg Met Leu Asn Arg Phe Leu Arg Leu Phe Lys Pro Thr Arg
1          5          10          15

Arg Ala Lys Thr Cys Glu Arg Leu Lys Lys Arg Val Lys Met Arg Leu
20          25          30

Phe Tyr Leu Ala Tyr Arg Ile Thr Met Glu Ala Pro Ala Leu Ile Lys
35          40          45
```

Ala Pro Val Glu Trp Leu Leu Arg Lys Lys Cys Ile
 50 55 60

<210> 7616
 <211> 56
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7616

Leu Ile Arg Leu Leu Lys Lys Leu Phe Arg Arg Phe Asn Arg Ala Leu
 1 5 10 15

Ile Ile Phe Ala Lys Leu Ala Ala Gly Val Lys Ala Leu Lys Leu Phe
 20 25 30

Lys Val Gln Ala Lys Leu Trp Ala Cys Lys Asn Pro Ser Tyr Lys Met
 35 40 45

Pro Gln Tyr Met Arg Trp His Leu
 50 55

<210> 7617
 <211> 38
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7617

Lys Leu Lys Leu Phe Lys Lys Leu Phe Arg Lys Leu Arg Gln Arg Ala
 1 5 10 15

Leu Ala Ala Ser Gly Asp Ala Ile Ser Lys Tyr Cys Ala Phe Asn Phe
 20 25 30

His His Lys Val Ala Ile
 35

<210> 7618
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7618

Arg	Leu	Lys	Leu	Leu	Lys	Arg	Tyr	Leu	Arg	Leu	Leu	His	Arg	Tyr	Gln
1				5					10					15	

Asn	Met	Phe	Ile	Ile	Val	Trp	Leu	Leu	Lys	Leu	Arg	Lys	Tyr	Lys	Lys
			20					25					30		

Leu	Lys	Lys
		35

<210> 7619

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7619

Arg	Tyr	Lys	Leu	Phe	Arg	Lys	Trp	Ile	Lys	Arg	Leu	Ser	Gln	Asp	Arg
1				5					10					15	

Ser	Leu	Ala	Leu	Arg	Ile	Tyr	Ala	His	Arg	Thr	Arg	Met	Leu	Leu	Ile
			20					25					30		

Leu	Leu	Ala	Ala	Ile	Lys	Leu	Leu
		35				40	

<210> 7620

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7620

Phe	Phe	Lys	Trp	Phe	Arg	Lys	Leu	Leu	Lys	Met	Tyr	Arg	Thr	Cys	Pro
1				5					10					15	

Cys	Trp	Asp	Ala	Arg	Arg	Ala	Pro	Leu	Gln	Lys	Leu	Lys	Leu	Leu	Arg
			20					25					30		

Glu	Lys	Lys	Leu
-----	-----	-----	-----

35

<210> 7621
 <211> 53
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7621

Arg Ile Lys Phe Phe Lys Arg Phe Leu Arg Leu Trp Lys Lys Glu Ile
 1 5 10 15

Val Arg Phe Gly Gly Glu Leu Arg Asp Lys Asp Ala Arg Leu Ile Leu
 20 25 30

Val Pro Arg Lys Tyr Leu Ala Lys Asp Thr Leu Pro Leu Leu Arg Ala
 35 40 45

Ala Arg Pro Leu Met
 50

<210> 7622
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7622

Leu Trp Arg Tyr Ile Asn Lys Tyr Ile Lys Leu Leu Arg Cys Gly Leu
 1 5 10 15

Leu Lys His Gly Leu Ala Leu Arg Val Asn Ala Arg Glu Ser Ala Arg
 20 25 30

<210> 7623
 <211> 52
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7623

Lys Leu Arg Trp Leu Thr Arg Phe Tyr Lys Leu Leu Thr Arg Ser His

1 5 10 15

Lys Ser Lys Arg Cys Trp Leu Trp Leu Leu Asn Arg Leu Pro Leu Glu
20 25 30

Asp Tyr Lys Ala Thr Ala Met Phe Tyr Lys Glu Ala Lys Phe Ala Ala
35 40 45

Trp Arg Arg Lys
50

```
<210> 7624
<211> 22
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 7624
```

Lys Leu Lys Leu Trp Asn Lys Ile Leu Arg Trp Leu Cys Lys Lys Leu
1 5 10 15

Ala Gly Arg Ala Arg Arg
20

<210>	7625
<211>	68
<212>	PRT
<213>	Artificial Sequence
<220>	
<223>	Computer-generated peptide variant
<400>	7625

Leu	Tyr	Lys	Phe	Phe	Cys	Arg	Phe	Phe	Arg	Phe	Leu	His	Arg	Leu	Lys
1				5					10					15	
Ala	Ala	Ala	Thr	Cys	Ser	Tyr	Pro	Arg	Arg	Arg	Glu	Arg	Gly	Lys	Leu
			20					25					30		
Arg	His	Ala	Arg	Leu	Lys	Ala	Gln	Gly	Ile	Lys	Lys	Lys	Trp	Arg	Leu
		35					40					45			
Arg	Gly	His	Arg	Thr	Gly	Ala	Lys	Tyr	Asn	Asn	Ala	Arg	Trp	Ala	Leu
	50					55					60				

Leu Cys Leu Ile
65

<210> 7626
<211> 45
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 7626

Lys Phe Arg Trp Leu Cys Arg Ile Leu Lys Phe Tyr Lys Arg Lys Lys
1 5 10 15

Glu Pro Asn Arg Met Ala Arg Leu Gln Leu Gln Arg Leu Ala Tyr Leu
20 25 30

Glu Ala Pro Arg Ala Asp Leu Ile Arg His Leu Lys Gln
35 40 45

<210> 7627
<211> 70
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 7627

Leu Trp Arg Tyr Leu His Arg Ile Phe Lys Lys Trp Gln Arg Lys Arg
1 5 10 15

Leu Gly Lys Lys Ala Lys Lys Ala His Leu Val Gly Arg Glu Glu Lys
20 25 30

Met Met Pro Ala Arg Phe Asn Lys Leu Cys Met Asp Leu Leu Cys Pro
35 40 45

Arg Ala Lys Pro Leu Leu Arg Arg Lys Ala Arg Lys Ala Ser Cys Leu
50 55 60

Ala Lys Ser Pro Ser Trp
65 70

<210> 7628

<211> 50
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7628

Arg Trp Arg Leu Leu Arg Lys Met Phe Lys Lys Leu Arg Arg Ala Cys
 1 5 10 15

Arg Phe Leu Pro Lys Arg Gly Ser Val Ala Asp Gln His Leu Cys Ala
 20 25 30

Ala Ile Ile Lys Gly Arg Arg Arg Val Ala Leu His Ile Leu Arg Arg
 35 40 45

Leu Lys
 50

<210> 7629
 <211> 98
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7629

Leu Phe Lys Ile Leu Arg Lys Phe Tyr Lys Leu Tyr Lys Arg Ser Trp
 1 5 10 15

Ala Gly Asp His Gln Lys Gln Leu Asn Arg Leu Leu Gln Glu His Arg
 20 25 30

Leu Lys Ala Lys Ala Leu Glu Ser Arg Cys Thr Cys Arg Lys Val Arg
 35 40 45

Lys Val Lys Lys Leu Pro Arg His Leu Lys Leu Lys Trp Ser Leu Lys
 50 55 60

Val Leu Leu Cys Lys Pro Pro Phe Ala Ala Gln Asn Phe Tyr Val Pro
 65 70 75 80

Gly Leu Ala Pro Ala Leu Asp Arg Lys Lys Cys Arg Lys Arg Asn Leu
 85 90 95

Gln Leu

<210> 7630
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7630

Leu Leu Lys Ile Phe Arg Lys Phe Leu Arg Lys Leu His Lys Gln Leu
 1 5 10 15

Gln Glu Arg Ala Lys Asp Ser Tyr Ala Tyr Ser Lys
 20 25

<210> 7631
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7631

Ile Met Lys Leu Tyr Arg Arg Phe Tyr Lys Leu Phe Cys Lys Lys Pro
 1 5 10 15

Ala Lys Ala His Ala Val Asn Lys Ala
 20 25

<210> 7632
 <211> 81
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7632

Ile Leu Lys Met Phe Gln Lys Ile Leu Arg Arg Ile Lys Cys Lys Tyr
 1 5 10 15

Trp Ala Gln Ala Leu Asp Ala Cys Lys Asn Leu Lys Arg Lys Pro Lys
 20 25 30

Cys Arg Gln Lys Ile Leu Val Tyr Asn Arg Lys Leu Lys Cys Ala Ala
 35 40 45

Asn Pro Gly Lys Ala Leu Thr Leu Arg Ala Tyr Met Phe Glu Arg Lys
 50 55 60

Arg Pro Leu Ala Ala Leu Met Leu Ile Leu Leu Met Thr His Leu Ala
 65 70 75 80

Trp

<210> 7633
 <211> 52
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7633

Tyr Tyr Lys Leu Met Lys Arg Leu Leu Arg Arg Leu Arg Lys Ile Leu
 1 5 10 15

Val Phe Cys Lys Tyr Ala Glu Gln Gly Lys Arg Ile Pro Arg Leu Pro
 20 25 30

Lys Ile Gly Ala Leu Pro Val Arg Lys Lys Lys Leu Leu Val Val Ile
 35 40 45

Ala Ala Ala Arg
 50

<210> 7634
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7634

Lys Tyr Lys Tyr Leu Arg Arg Trp Met Lys Lys Trp Ser Arg Lys Trp
 1 5 10 15

Leu Leu Leu Leu Lys Met Leu Leu

20

<210> 7635
 <211> 48
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7635

Leu Leu Lys Tyr Phe Cys Arg Leu Ile Lys Ile Met Ser Ser Lys Lys
 1 5 10 15

Lys Arg Leu Ile Glu Ala Leu Pro Phe Ser Leu Arg Ala Ala Met His
 20 25 30

Phe Glu Tyr Val Lys Lys Pro Lys Ile Arg Ala Leu Leu Leu Ala Arg
 35 40 45

<210> 7636
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7636

Met Leu Arg Leu Met Ser Lys Leu Leu Arg Met Met Lys Asn Lys Thr
 1 5 10 15

Glu Ser Lys Leu Leu Arg Arg Arg Phe Ala Leu Glu
 20 25

<210> 7637
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7637

Phe Ile Arg Leu Phe Lys Arg Trp Leu Lys Lys Phe Asn Asn Leu Ala
 1 5 10 15

Gln Ala Lys His Ala Ala Leu Lys Ile Arg Pro Arg Ala Thr Phe Ile

20

25

30

Leu Lys

<210> 7638
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7638

Trp Leu Lys Leu Met Ser Arg Trp Leu Arg Arg Leu Lys Gln Arg Leu
 1 5 10 15

Leu Gly Glu Ile Ala Ser Ala
 20

<210> 7639
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7639

Leu Phe Arg Leu Phe Pro Arg Leu Leu Lys Met Phe Arg Arg Ser Arg
 1 5 10 15

Ala Lys Arg Leu Cys Gln Lys Leu Trp Lys Asn Leu Arg Arg Leu Leu
 20 25 30

Glu

<210> 7640
 <211> 41
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7640

Phe Phe Lys Tyr Leu Lys Arg Ile Leu Lys Lys Phe Lys Pro Arg Arg

Ala Leu Leu Gly Lys Arg Tyr Ala Gly His Leu Trp Leu His Ala Lys
20 25 30

Trp Tyr Asn Glu Ala Leu Trp His Lys
35 40

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<210> 7641
<211> 40
<212> PRT
<213> Artificial Sequence
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<220>
<223>  Computer-generated peptide variant
<400>  7641
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Lys Leu Lys Leu Tyr Gln Lys Trp Leu Arg Arg Trp Pro Asn Arg Tyr
1 5 10 15

His Phe Leu Ala Ala Ala Val Ile Arg Leu Phe Lys Lys Lys Lys Gln
20 25 30

Arg Lys Ala Leu Asp Tyr Val Arg
35 40

<210>	7642
<211>	56
<212>	PRT
<213>	Artificial Sequence

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<220>
<223> Computer-generated peptide variant
<400> 7642
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Leu Phe Arg Tyr Trp Asn Arg Phe Leu Arg Lys Met Pro Cys Ala Lys
1 5 10 15

Leu Leu Val Lys Ser Ala Leu Lys Glu Ala Arg Pro Tyr Leu Lys Phe
20 25 30

Arg Ala Pro Lys Ile His Cys Arg Trp Leu Leu Arg Lys Ala Leu Tyr
35 40 45

Lys Arg Trp Gly Leu Trp Ala Pro
50 55

<210> 7643
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7643

Lys Leu Arg Phe Ile Lys Arg Trp Leu Arg Leu Leu Thr Cys Lys Lys
 1 5 10 15

Leu Leu Trp Pro His Lys Val Ala Trp Arg Gly Lys Leu Leu Arg Asn
 20 25 30

Arg Thr

<210> 7644
 <211> 66
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7644

Lys Leu Arg Met Phe His Lys Leu Leu Arg Tyr Leu Cys Arg Lys Ala
 1 5 10 15

Gly Lys Gln Cys Met Glu Arg Pro Leu Lys Leu Ala Lys Met Arg Ile
 20 25 30

Thr Cys Leu Leu Ala Lys Ala Leu Arg Arg Leu Arg Phe Arg Cys Tyr
 35 40 45

Glu Lys Ala Cys Lys Ala Thr Glu Cys Thr Gln Leu Arg Gln Ala Asp
 50 55 60

Leu Cys
 65

<210> 7645
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7645

Trp	Leu	Lys	Tyr	Met	Asn	Arg	Phe	Tyr	Lys	Lys	Leu	Lys	Lys	Thr	Thr
1				5					10					15	

Trp	Asn	Met	Leu	Lys	Lys	Leu	Leu	Ala	Ala	Trp	Ser	Leu	Met	Ala	Leu
			20					25					30		

Lys

<210> 7646

<211> 73

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7646

Phe	Leu	Lys	Leu	Leu	Thr	Arg	Ile	Leu	Lys	Leu	Phe	Arg	Lys	Phe	Lys
1				5					10					15	

Asp	Gly	Lys	Leu	Lys	Asp	Ala	Lys	Gly	Phe	Phe	Ala	Cys	Met	Arg	Arg
			20					25					30		

Pro	Tyr	Trp	Leu	Arg	Leu	Arg	Arg	Leu	Arg	Asn	Met	Leu	Ala	Asp	Lys
		35				40					45				

Arg	Thr	Leu	Asn	Ala	Leu	Arg	Asp	Phe	Ala	Tyr	Lys	Phe	Val	Lys	Arg
	50					55					60				

Val	Lys	Val	Thr	Gly	Ala	Arg	His	Ala
65					70			

<210> 7647

<211> 44

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7647

Tyr Phe Arg Leu Leu Arg Lys Met Tyr Lys Lys Trp Lys Lys Glu Ser

1 5 10 15

Lys Ala Pro Lys Asn Ala Ser Arg Leu Asp Tyr Val Ala Arg Thr Arg
20 25 30

Trp Ala Leu Ala Ala Arg Ser Ala Met Ala Gln Asn
35 40

<210> 7648
<211> 26
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 7648

Arg Leu Arg Leu Leu Cys Arg Leu Leu Lys Phe Leu Pro Ser Thr Leu
1 5 10 15

Trp Lys Pro Cys Leu Lys His Pro Lys Ala
20 25

<210> 7649
<211> 25
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 7649

Arg Phe Arg Leu Phe Lys Lys Met Phe Arg Phe Trp Lys His Lys Leu
1 5 10 15

Ser Cys Ala Leu Lys Ala Ser Ile Leu
20 25

<210> 7650
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 7650

Leu Leu Arg Leu Leu Lys Arg Leu Trp Arg Lys Leu Thr Pro Lys Glu

1 5 10 15

Ala Gln Lys Val Cys Asp Arg Phe His Leu Asn Leu Asn Thr Tyr Ala
 20 25 30

Leu Lys Arg Glu Ser Leu Lys Met
 35 40

<210> 7651
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7651

Ile Phe Arg Leu Leu His Arg Met Leu Lys Trp Phe Arg Ser Tyr Leu
 1 5 10 15

Lys Ala Ile Arg
 20

<210> 7652
 <211> 87
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7652

Lys Leu Arg Trp Leu Pro Lys Tyr Leu Arg Trp Ile Arg Thr His Ala
 1 5 10 15

Ala Glu Glu Leu Ala His Glu Arg Ala Cys Leu Asp Tyr Lys Asp Met
 20 25 30

Ala Pro Leu Lys Trp Arg Lys Lys Arg Asp Arg Leu Leu Asn Leu Ala
 35 40 45

Leu Val Ala Lys Pro Ala Leu Ser Leu Ala His Trp Lys Met Ser Leu
 50 55 60

His Leu Lys Asp Cys Gly Leu Arg Leu Lys Asn Gln Thr Tyr Lys Thr
 65 70 75 80

Lys Met Arg Phe Ile Leu Ala
85

<210> 7653
<211> 74
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 7653

Arg Met Lys Leu Trp Lys Arg Phe Tyr Arg Lys Tyr Arg Gln Tyr Ala
1 5 10 15

Pro Cys Pro Lys Ala Ala Thr Ala Trp Lys Ala Arg Ser Ala Arg Leu
20 25 30

Ala Trp Ala Ile Trp Phe Ala Tyr His Glu Ala Lys Thr Arg Glu Arg
35 40 45

Leu Lys Leu Glu Thr Gln Lys Trp Arg His Asp Ala Lys Arg Glu Arg
50 55 60

Leu Arg Leu Gln Cys Lys Ile Asn Arg Arg
65 70

<210> 7654
<211> 33
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 7654

Lys Trp Lys Met Leu Arg Lys Leu Ile Lys Leu Met Thr Lys Met Asn
1 5 10 15

Gln Leu Trp Ala Leu Lys Thr Phe Ala Leu Lys Lys Leu Ser Ala Ser
20 25 30

Ala

<210> 7655

<211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7655

Lys Phe Arg Phe Leu Arg Lys Leu Phe Arg Lys Leu Arg Pro Phe Leu
 1 5 10 15

Leu Leu Phe Lys Leu Gln Asn Gln Lys Leu Asn Ile Thr Arg Ala Arg
 20 25 30

Thr

<210> 7656
 <211> 45
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7656

Arg Phe Lys Leu Leu Lys Arg Phe Ile Arg Arg Leu Arg Arg Asp Val
 1 5 10 15

Tyr Asn Cys Trp Pro Arg Asn Thr Leu Ala Lys Arg Met Gln Leu Arg
 20 25 30

Lys Leu Ala Tyr Cys Asp Asn Lys Leu Ala Cys His Leu
 35 40 45

<210> 7657
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7657

Lys Leu Arg Trp Ile Arg Lys Phe Phe Lys Leu Phe Arg Asn Tyr Arg
 1 5 10 15

Arg Trp Ala Ala Tyr Leu Leu

20

<210> 7658
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7658

Arg Leu Lys Leu Ile Arg Lys Phe Ile Lys Trp Leu Cys Thr Val Leu
 1 5 10 15

Leu Lys Ala Pro Lys Arg Lys Arg Glu Leu Pro Met Lys Trp Ala Leu
 20 25 30

Leu Leu Met Val
 35

<210> 7659
 <211> 50
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7659

Lys Ile Arg Trp Trp Lys Lys Trp Tyr Lys Lys Leu Arg Ser Arg Leu
 1 5 10 15

Trp Glu Ala Cys Lys Leu Pro Arg Ile Asp Leu Val Lys Thr Leu Tyr
 20 25 30

Leu Ala Val Arg Met Ala Cys Arg Leu Leu Tyr Glu Leu Leu Arg Asn
 35 40 45

Glu Ala
 50

<210> 7660
 <211> 27
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7660

Arg Leu Lys Leu Phe His Arg Leu Phe Arg Leu Phe Thr Arg Leu Phe
1 5 10 15

Lys Ala Ile Leu Lys Asp Thr His Met Lys Phe
20 25

<210> 7661

<211> 37

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7661

Leu Phe Arg Leu Leu Gln Arg Trp Leu Arg Arg Leu Arg Arg Gln Ile
1 5 10 15

Lys Asp Leu Arg Ser Arg Tyr Lys Leu Gly Leu Ala Glu Ala Met Val
20 25 30

Ser Lys Pro Arg Arg
35

<210> 7662

<211> 43

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7662

Arg Ile Arg Met Trp Arg Arg Met Phe Lys Leu Ile Lys Lys Ala Met
1 5 10 15

Phe Asp Cys Ala Met Ala His Arg Pro Lys Trp Thr Leu His Ala Leu
20 25 30

Ile Pro Met Arg Ala Leu Arg Leu Arg Ala Arg
35 40

<210> 7663

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7663

Lys Phe Lys Trp Phe Arg Lys Leu Met Lys Phe Leu Pro His Val Lys
1 5 10 15

Ala Met Arg Leu Ser Glu Asn Ala Arg Ala Ala Lys Arg Ala His Asp
20 25 30

Leu His

<210> 7664

<211> 56

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7664

Arg Leu Arg Tyr Trp Arg Lys Ile Leu Lys Lys Leu Thr Ser Arg Ala
1 5 10 15

Asp Ala Leu Lys Arg Ala Ala Ala Ala Glu Arg Leu Met Ile Glu Lys
20 25 30

Tyr Gly Arg Ile Val Tyr Thr Tyr Val Leu Ala Lys Tyr Val Arg Pro
35 40 45

Trp Arg Leu Arg Pro Pro Arg Asn
50 55

<210> 7665

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7665

Arg Ile Lys Phe Ile Arg Lys Leu Leu Arg Met Met Arg Gln Asp Leu
1 5 10 15

Leu Ile Ala Ala Lys Phe Lys Asn Ala Val Glu Val Lys Lys Lys Ser
 20 25 30

Tyr Met Leu Leu Leu Asp Leu Lys
 35 40

<210> 7666

<211> 100

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7666

Lys Leu Lys Leu Ile Ser Arg Leu Leu Lys Phe Leu Pro Lys Phe Glu
 1 5 10 15

Leu Leu Gly Tyr Trp Leu Lys Met Thr Arg Arg Asn Leu Met Arg Ile
 20 25 30

Lys Ala Leu Lys Ala Leu Arg Asn Arg Ala Arg Pro Leu Asn Gly Phe
 35 40 45

Arg Arg Thr Leu Val Ala Leu Met Pro Leu Tyr Ala Lys Leu Lys Asn
 50 55 60

Ala His Leu Ala Arg Gly Leu Ala Gln Ala Lys Lys Val Arg Met Leu
 65 70 75 80

Tyr Lys Gly Met Leu Asp Asn Ile Leu Trp His His Ala Leu Tyr Leu
 85 90 95

Glu Arg Pro Cys
 100

<210> 7667

<211> 65

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7667

Phe Leu Arg Leu Leu Lys Lys Met Phe Lys Arg Ile Lys Lys Ala Leu

[illegible]

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<210> 7668
<211> 50
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 7668
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[illegible]

<210>	7669
<211>	27
<212>	PRT
<213>	Artificial Sequence
<220>	
<223>	Computer-generated peptide variant
<400>	7669

Leu Tyr Lys Leu Met His Arg Trp Leu Arg Trp Leu Lys Lys Tyr His
1 5 10 15

Asn Phe Ala Leu Lys Ala Arg Gln Lys Leu Leu
 20 25

<210> 7670
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7670

Arg Ile Arg Leu Trp Pro Lys Phe Trp Lys Arg Leu Arg Arg Ala Tyr
 1 5 10 15

Met Ala Asn Ala Ala Ala Arg His Lys Trp Val Thr Ala Lys Leu Cys
 20 25 30

Thr Phe

<210> 7671
 <211> 41
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7671

Arg Phe Lys Leu Met Lys Arg Phe Tyr Arg Phe Trp Pro Asn Ala Ala
 1 5 10 15

Ala Lys Lys Lys Pro Asp Leu Tyr Ala Asn Arg Gly Ala Arg Ala Leu
 20 25 30

Pro Leu His Ile Lys Lys Lys Arg Ala
 35 40

<210> 7672
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7672

Lys Leu Lys Phe Phe Asn Arg Phe Ile Arg Lys Leu Ser Cys Ala Ala
 1 5 10 15

Ala Lys Thr Met Gly Ala Lys
 20

<210> 7673

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7673

Arg Phe Lys Ile Met Ser Lys Leu Leu Arg Phe Tyr Thr Lys Leu Leu
 1 5 10 15

Leu Leu Met Leu Lys Gln Ile Lys Lys Asp Ser Lys Leu
 20 25

<210> 7674

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7674

Arg Leu Arg Met Trp His Lys Leu Trp Arg Arg Leu Asn Gln Ala Ile
 1 5 10 15

Ala Cys Pro Lys Lys Ala Met Lys Arg Leu Asp Ala Gln
 20 25

<210> 7675

<211> 48

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7675

Trp Leu Arg Leu Leu Arg Arg Trp Ile Arg Met Phe Arg Ser Cys Leu
 1 5 10 15

Ala Lys Asp Asn Asn Lys Arg Cys Gln Leu Ala Cys Val Asn Phe Leu
 20 25 30

Lys Asp Asn Gly Cys Arg Ala Ala Arg Ala Arg Lys Cys Ala Leu Arg
 35 40 45

<210> 7676

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7676

Lys Ile Lys Leu Phe His Arg Leu Leu Arg Lys Leu Ser Lys Arg Cys
 1 5 10 15

Leu Ala Arg Gly Ala Arg Asp Ala Lys Asn
 20 25

<210> 7677

<211> 54

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7677

Lys Ile Arg Leu Leu Arg Arg Leu Leu Lys Leu Leu Asn Thr Lys Ala
 1 5 10 15

Cys Arg Glu Ala Arg Asn Glu Ala Lys Lys Gln Asn Asn Arg Leu Lys
 20 25 30

Ser Trp Ser His Lys Cys Asn Ala Lys Leu Gln Arg Met Thr Pro Arg
 35 40 45

Asp Arg Lys Leu Leu Glu
 50

<210> 7678

<211> 48

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7678

Arg	Trp	Lys	Phe	Leu	Arg	Lys	Phe	Tyr	Arg	Lys	Tyr	Asn	Lys	Ala	Ala
1				5					10					15	

Leu	Leu	Leu	Arg	Leu	Arg	Arg	Val	Ala	His	Phe	Trp	Arg	Leu	Val	Lys
			20					25					30		

Leu	Ala	Cys	Ala	Arg	Arg	Lys	Pro	Cys	His	Leu	Glu	Lys	His	Ala	Ile
		35					40					45			

<210> 7679

<211> 59

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7679

Arg	Met	Arg	Tyr	Trp	Pro	Arg	Leu	Trp	Arg	Leu	Trp	Pro	Arg	Gln	Arg
1				5				10						15	

Asn	Ala	Lys	Tyr	Ala	Lys	Lys	Lys	Ser	Asn	Arg	Leu	Lys	Lys	Leu	Leu
			20					25					30		

Ile	Lys	Asn	Leu	Ala	Leu	Val	Leu	Ser	Arg	Pro	Ala	Trp	Leu	Pro	Asp
		35					40					45			

Trp	Trp	Ala	Gln	Leu	Val	Leu	Leu	Leu	Ile	Lys
	50					55				

<210> 7680

<211> 92

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7680

Leu	Tyr	Lys	Phe	Phe	Lys	Arg	Leu	Phe	Lys	Tyr	Leu	Arg	Lys	Asp	Trp
1				5					10					15	

Pro	Arg	Ala	Lys	Leu	Met	Arg	Asp	Ala	Leu	Ile	Ala	Ala	Lys	Lys	Trp
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

20

25

30

Lys Ala Pro Lys Lys Lys Ser Lys Ala Tyr Gln Lys Leu Ala Cys Leu
 35 40 45

Lys Ala Lys Ala Ala Asp Arg Gly Ala Asn Lys Lys Leu Asn Lys Met
 50 55 60

Ala Arg Val Tyr Asn Leu Asp Arg Ala Arg Trp Ser Ala Asp Arg Lys
 65 70 75 80

Lys Gly Leu Arg Phe Tyr Met Asp Arg Pro Ala Glu
 85 90

<210> 7681

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7681

Arg Leu Arg Phe Met Asn Arg Leu Trp Arg Arg Phe Arg His Leu Leu
 1 5 10 15

Leu Ala Arg Leu Leu Ala Cys Asn Arg Phe Trp
 20 25

<210> 7682

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7682

Lys Leu Arg Leu Ile Pro Lys Ile Leu Arg Phe Phe Lys Gln Tyr Lys
 1 5 10 15

Leu Ala Ala Leu Arg Ala Arg Gly Arg Lys
 20 25

<210> 7683

<211> 37

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7683

Arg Ile Arg Phe Leu Arg Arg Phe Leu Arg Arg Phe Gln Lys Arg Arg
1 5 10 15

Leu Trp Met Leu Ala Trp Ala Pro Ala Arg Leu Leu Thr Trp Lys Trp
20 25 30

Lys Ala Arg Ala Thr
35

<210> 7684

<211> 66

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7684

Arg Leu Lys Met Phe Pro Arg Leu Ile Arg Lys Phe Arg Lys Pro Ala
1 5 10 15

Trp Pro Lys Ala Tyr Leu Ile Leu Tyr Leu Leu Lys Phe Leu Leu Pro
20 25 30

Tyr Ala Gly Arg Leu Ile Lys Thr Cys Tyr Lys Glu Leu Met Arg Lys
35 40 45

Arg Arg Leu Pro Trp Leu Arg Met Arg Gln Gln Arg Asp Arg Leu Asn
50 55 60

Lys Pro
65

<210> 7685

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7685

Leu Met Arg Phe Phe Lys Lys Leu Tyr Arg Lys Phe Arg Arg Ala Leu
 1 5 10 15

Cys Lys Glu Lys Cys Phe Val Lys Lys Cys Leu Pro Thr Ala Pro Leu
 20 25 30

Ile Leu Ala Arg
 35

<210> 7686
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7686

Leu Phe Arg Ile Phe Arg Lys Phe Leu Lys Lys Phe Ser Arg Ser Asp
 1 5 10 15

Ala Ala Asn Leu Leu
 20

<210> 7687
 <211> 78
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7687

Arg Tyr Arg Tyr Leu Lys Lys Leu Leu Lys Ile Phe Pro Pro Thr Pro
 1 5 10 15

Ala Lys Ile His Lys Thr Lys Leu Lys Ala Arg Leu Ala Gly Arg Ser
 20 25 30

Val Arg Ala Lys Leu Leu Cys His Tyr Leu Ala Leu Leu Glu Ala Phe
 35 40 45

Ala Gly Arg Lys His Ala Lys Arg Lys Ala Met Ala Ser Asp Arg Leu
 50 55 60

Lys Cys Gln Lys Ile Ala Ala Arg Asn Ser Cys Gln Val His

65 70 75

<210> 7688
 <211> 62
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant
 <400> 7688

Arg Leu Lys Leu Leu Thr Lys Phe Phe Arg Phe Phe Lys Arg Met Ala
 1 5 10 15

Leu Leu Ala Arg Leu Lys Lys Lys Lys Thr Ala Ala His Leu Thr Leu
 20 25 30

Pro His Gln Glu Ala Ala Arg Lys Ala Leu Leu Tyr Phe Lys Pro Arg
 35 40 45

Arg Ala Glu Leu Trp Met Arg Leu Met Arg Val Leu Leu Arg
 50 55 60

<210> 7689
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant
 <400> 7689

Tyr Leu Lys Leu Leu His Lys Leu Met Arg Leu Trp Asn Lys Arg Glu
 1 5 10 15

Arg Ile Ile Gly Leu
 20

<210> 7690
 <211> 51
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant
 <400> 7690

Lys Trp Arg Tyr Ile Arg Arg Trp Ile Lys Leu Met Arg Lys Gly Val

1 5 10 15

Met Gln Tyr Ala Ala Arg Met Ala Arg Glu Val Lys Ala Ala Leu Arg
20 25 30

Lys Phe Leu Leu Arg Glu Pro Leu Leu Val Lys Arg His Cys Ala Ile
35 40 45

Leu Trp Lys
50

<210> 7691
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 7691

Met Ile Arg Leu Leu Lys Arg Leu Phe Lys Lys Phe Lys Ser Lys Asn
1 5 10 15

Leu Ala Ile Ala Ala
20

<210> 7692
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 7692

Leu Phe Lys Leu Tyr Arg Arg Phe Phe Lys Leu Tyr Arg Arg Leu Val
1 5 10 15

Ile Ser Lys Pro Ala Arg Ile Ser Arg Thr Leu Ala
20 25

<210> 7693
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 7693

Phe Leu Arg Leu Met Lys Arg Phe Leu Arg Lys Trp Pro Asn Ala Leu
 1 5 10 15

Lys Lys Lys Ile Ala His Cys
 20

<210> 7694

<211> 79

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7694

Lys Leu Arg Tyr Trp Arg Lys Tyr Phe Lys Leu Leu Arg Arg Glu Leu
 1 5 10 15

Val Ile Lys Phe Ala Arg Gly Arg Lys Asp Leu Leu Lys Met Gly Tyr
 20 25 30

Pro Ala Ala Lys His Leu Pro Asp Ala Val Trp Phe Ala Gln Leu Thr
 35 40 45

Ala Arg Leu Phe Lys Trp Leu Trp Gln Arg Tyr Tyr Asn Ala Ala Gly
 50 55 60

Ile Leu Arg Lys Arg Lys Tyr Arg Arg Ala Leu Cys Tyr Leu Trp
 65 70 75

<210> 7695

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7695

Arg Leu Lys Phe Leu Arg Arg Leu Leu Lys Lys Met Asn Asn Thr Ala
 1 5 10 15

Ser Glu Gly Ala Arg Val Leu
 20

<210> 7696
 <211> 39
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7696

Lys Leu Arg Trp Leu Cys Lys Leu Ile Lys Trp Phe Pro His Leu Arg
 1 5 10 15

Ala Glu Arg Phe Leu Ala Lys Val Met Leu Phe Arg Ala Val Ile Arg
 20 25 30

Arg Lys Tyr Lys Asp Leu Met
 35

<210> 7697
 <211> 61
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7697

Lys Leu Arg Leu Tyr Lys Arg Leu Leu Lys Lys Tyr Lys Lys Val Cys
 1 5 10 15

Lys Asp Lys Arg Val Arg Leu Phe Phe Leu Arg Pro Ala Asn Thr Tyr
 20 25 30

Leu Gln Arg Ala Arg Val Leu Ala Cys Thr His Tyr Lys Asn His Leu
 35 40 45

Pro Ala Asn Ala Ala Leu Thr Trp Lys Leu Asn Trp Asn
 50 55 60

<210> 7698
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7698

Met Tyr Arg Met Tyr Arg Arg Ile Tyr Arg Lys Leu Lys Arg Leu Ala
 1 5 10 15

Arg Ile Glu Ala Asn Lys Leu Ala Arg Gly Phe Leu Cys Ala Arg Cys
 20 25 30

Leu Tyr Arg
 35

<210> 7699
 <211> 42
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7699

Leu Tyr Lys Phe Leu Arg Arg Leu Leu Arg Lys Met His His Thr Arg
 1 5 10 15

Gln Thr Ala Tyr Leu Lys Thr Pro Ala Ala Trp Ala Leu Trp Lys Leu
 20 25 30

Val Thr Leu Leu Arg Lys Lys Ser Pro Ala
 35 40

<210> 7700
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7700

Lys Phe Lys Phe Leu Lys Arg Leu Tyr Arg Leu Phe Lys Lys Val Lys
 1 5 10 15

Gly Lys Ala Thr Arg Ala Ile Leu Met Cys Lys Lys Leu Ile Ile Leu
 20 25 30

Trp Trp His Met Glu Glu Leu Ala
 35 40

<210> 7701

<211> 27
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7701

Arg Leu Arg Ile Met Pro Lys Leu Phe Arg Leu Phe Arg Arg Thr Ala
 1 5 10 15

Ala Arg Arg Leu Cys Asn Asn Leu Thr Gly Ile
 20 25

<210> 7702
 <211> 39
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7702

Lys Leu Lys Phe Tyr Arg Lys Leu Phe Lys Tyr Met Arg Lys Ser Trp
 1 5 10 15

Tyr Gln Ala Trp Ala Arg Asn Ala Trp Ala Leu Ala Arg Gly Trp Ala
 20 25 30

Arg Ala Gln Phe Ala Arg Arg
 35

<210> 7703
 <211> 41
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7703

Lys Tyr Lys Trp Met Arg Lys Trp Phe Arg Tyr Leu Lys Lys Ile Trp
 1 5 10 15

Leu Leu Lys Ala Ser Lys Arg Asn Arg Arg Phe Pro Leu Asn Val Ala
 20 25 30

Ala Leu Tyr Lys Asn Leu Lys Ala Leu

35

40

<210> 7704
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7704

Ile Tyr Lys Leu Leu Pro Arg Trp Leu Lys Arg Phe Gln Gln Lys Leu
 1 5 10 15

Ala Ala Cys Leu
 20

<210> 7705
 <211> 44
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7705

Lys Leu Arg Met Ile Lys Arg Met Leu Arg Phe Tyr Lys Lys Ala Ala
 1 5 10 15

Gln Lys Cys Gly Ala Thr Arg Lys Lys Ala Pro Ala Ser Leu Leu Ser
 20 25 30

Arg Tyr Ala Ala Ser Arg Met His Leu Ser Ile Lys
 35 40

<210> 7706
 <211> 66
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7706

Lys Ile Arg Met Trp Thr Arg Phe Met Lys Lys Tyr Gln Lys Leu Arg
 1 5 10 15

Asp Ala Ser Trp His Leu Arg Ile Gly Glu Ala Lys Ala Leu Ala Ala

20 25 30

Arg Trp Leu Lys Lys Ala Ala Arg Leu Glu Ile Lys Tyr Ala Asp Glu
35 40 45

Thr Ala Phe Lys Ala Leu Glu Lys Leu Lys Leu His Leu Arg Asn Val
50 55 60

Cys Ile
65

<210>	7707
<211>	67
<212>	PRT
<213>	Artificial Sequence
<220>	
<223>	Computer-generated peptide variant
<400>	7707

Leu	Leu	Arg	Met	Met	Cys	Lys	Phe	Tyr	Lys	Lys	Phe	Arg	Lys	Lys	Thr
1				5					10					15	
Leu	Ala	Arg	Ala	Gly	Leu	Ala	Lys	Leu	Lys	Leu	Leu	Asn	Arg	Pro	Glu
			20					25					30		
Lys	Pro	Asp	Phe	Val	Asn	Lys	Gly	Arg	Gly	Trp	Gly	Leu	Ala	Tyr	Leu
		35					40					45			
Leu	Ala	Ser	Ala	Tyr	Ala	Leu	Phe	Lys	Pro	Ile	Pro	Ala	Ala	Thr	Ala
	50					55					60				

```
Met Ser Lys
65

<210> 7708
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 7708
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Arg Ile Arg Phe Leu Thr Lys Trp Ile Lys Leu Phe Gln Arg Lys Arg
1 5 10 15

Leu Leu Ala Lys Glu Leu Val Ala Val Arg Lys Lys Asp Leu
 20 25 30

<210> 7709
 <211> 90
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7709

Arg Phe Arg Leu Ile Lys Lys Phe Tyr Lys Leu Leu Arg Lys Asp Lys
 1 5 10 15

Asn Pro Ala Lys Arg Leu Lys Lys Arg Ala Tyr Arg Gln Arg Leu Gln
 20 25 30

Ala Ala Ser Lys Cys Phe Gln Ala Arg Pro Leu Leu Arg Leu Leu Leu
 35 40 45

Phe Lys His Glu Lys Lys Ala Ala Leu Ala Ile Glu Arg Asp Gln Cys
 50 55 60

Lys Arg Leu Ala Leu Phe Phe Lys Asp Arg Leu Cys Ala Arg Leu Ala
 65 70 75 80

Leu Leu Leu Phe Lys Ser Arg His Trp Thr
 85 90

<210> 7710
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7710

Tyr Tyr Lys Leu Tyr Arg Lys Leu Phe Lys Lys Met Arg Gln Lys Leu
 1 5 10 15

Met Ala Pro Tyr Leu
 20

<210> 7711

<211> 27
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7711

Leu Leu Arg Tyr Met Pro Lys Met Leu Arg Lys Leu Asn Lys His Ile
 1 5 10 15

Met Pro Ala Gly His Cys Ala Ala Arg Lys Leu
 20 25

<210> 7712
 <211> 26
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7712

Tyr Trp Lys Leu Leu Arg Lys Ile Phe Arg Lys Leu Ser Gln Arg Gln
 1 5 10 15

Asp Ala His Lys Ala Ala Leu Lys His Met
 20 25

<210> 7713
 <211> 58
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7713

Lys Leu Arg Phe Phe Asn Lys Ile Tyr Arg Arg Phe Gln Thr Gln Arg
 1 5 10 15

Arg Arg Leu Leu Asp Arg Trp Ala Arg Leu Val Asp Met Lys Ser Arg
 20 25 30

Tyr Arg Cys Met Ala Leu Gln Asn Lys Val Ser Ala Ala Ala Leu Arg
 35 40 45

Arg Ala Asn Arg Ala His Ala Arg Met Val

50

55

<210> 7714
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7714

Tyr Trp Lys Leu Leu Ser Lys Leu Ile Arg Lys Phe Arg Lys Tyr Pro
 1 5 10 15

Ala Lys Ala Ala Leu Lys
 20

<210> 7715
 <211> 39
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7715

Lys Leu Arg Leu Phe Gln Arg Tyr Met Lys Leu Leu Lys Ser Leu Ala
 1 5 10 15

Gln Lys Trp Leu Phe Leu Leu Arg Val Arg Leu Ala Trp Ser Ala Lys
 20 25 30

Cys Asn Arg Asp Arg Gln Arg
 35

<210> 7716
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7716

Arg Trp Arg Leu Leu Lys Lys Leu Phe Lys Lys Ile Asn Lys Ala Leu
 1 5 10 15

Asp Cys Ile Leu Glu Thr Thr

20

<210> 7717
 <211> 59
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7717

Lys Leu Arg Phe Leu Asn Arg Phe Phe Lys Leu Leu Cys His His Leu
 1 5 10 15

Pro Glu Leu Leu Ala Glu Tyr Thr Val Arg Ala Gln Ala Arg Lys Arg
 20 25 30

Ser Trp Trp Val Pro Ile Leu Leu Arg Arg Leu Arg Tyr Arg Met Arg
 35 40 45

Gln Lys Arg Ala Arg Ala His Lys Lys Ala Ala
 50 55

<210> 7718
 <211> 26
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7718

Leu Tyr Lys Leu Tyr Lys Arg Met Phe Lys Phe Phe Lys His Ala Gly
 1 5 10 15

Lys Leu Ala Lys Leu Ala Pro Gln Arg Lys
 20 25

<210> 7719
 <211> 43
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7719

Leu Ile Arg Leu Leu Lys Arg Leu Leu Arg Leu Trp Pro Asn Arg Val

<210> 7722
 <211> 39
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7722

Lys Leu Arg Phe Phe Arg Lys Leu Leu Lys Leu Phe Lys Asn Leu Gln
 1 5 10 15

Lys Met Leu Arg Asp Ala Arg Met Ser Lys Leu Glu Leu Lys Leu Gly
 20 25 30

Trp Val Lys Lys Pro Leu Gln
 35

<210> 7723
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7723

Leu Leu Lys Leu Ile Gln Lys Tyr Phe Lys Arg Leu Lys Asn Arg Trp
 1 5 10 15

Arg Arg Lys Arg Leu Ile Val Ala Lys Ala Thr Ile Lys Leu Ala Ala
 20 25 30

Met Gly Glu Pro
 35

<210> 7724
 <211> 39
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7724

Arg Ile Lys Leu Ile Ser Arg Phe Leu Lys Arg Met Lys Lys Ala Cys
 1 5 10 15

Leu Leu Lys Ala Leu Cys Ala Ala Met Arg Ala Asn Arg Ala Gly His
 20 25 30

Gly Trp Asn Leu Phe Val Ser
 35

<210> 7725

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7725

Tyr Tyr Lys Met Leu Lys Arg Ile Met Lys Leu Leu Arg Gln Gly Lys
 1 5 10 15

Ala Leu Val Pro Arg
 20

<210> 7726

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7726

Phe Ile Arg Leu Tyr Arg Arg Met Trp Arg Lys Trp Lys Ser Ala Leu
 1 5 10 15

Ala Trp Ser Pro Lys Lys Cys Phe Ala Lys Leu Arg Leu Leu Tyr Arg
 20 25 30

Ala

<210> 7727

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7727

Arg Leu Arg Tyr Phe Arg Arg Tyr Tyr Lys Arg Tyr Thr Asn Lys Gly
 1 5 10 15

Leu Ile Ala Ala Ala
 20

<210> 7728

<211> 52

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7728

Phe Leu Lys Leu Tyr Cys Lys Tyr Phe Arg Arg Leu Lys Arg Glu Lys
 1 5 10 15

Ala His Ile Tyr Arg Lys Ala Ala Lys Cys Ala Cys Leu Gly Lys Ala
 20 25 30

Ala Lys Ala Met Lys Pro Lys Gln Asn Leu Leu Leu Thr Gly Thr Lys
 35 40 45

Lys Lys Gln Lys
 50

<210> 7729

<211> 54

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7729

Leu Leu Lys Ile Tyr Arg Lys Trp Met Arg Leu Leu Lys Pro Arg Ala
 1 5 10 15

Leu Thr Lys Lys Lys Leu Cys Gln Asp Ile Pro Leu Gln Asp Arg Lys
 20 25 30

Asp Thr Leu Leu Ala Arg Lys Arg Ile Leu Met Pro Ala Arg Arg Leu
 35 40 45

Trp Ile Leu Lys Val Trp

50

<210> 7730
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7730

Arg Phe Lys Met Ile Gln Arg Phe Trp Arg Arg Leu Thr Lys Gly Lys
 1 5 10 15

Trp Ala Ala Leu Ser Ala Pro Leu Thr Met Trp Lys Ala Arg Leu Ala
 20 25 30

Arg Met Lys
 35

<210> 7731
 <211> 45
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7731

Leu Ile Lys Trp Tyr Lys Lys Met Met Lys Lys Leu Thr Arg Lys Leu
 1 5 10 15

Lys Asp Phe Ala Lys Leu Thr Val Met Tyr Ala Ala Pro Gln Cys Arg
 20 25 30

His Tyr Leu Leu Trp Ser Lys Arg Arg Leu Leu Lys Arg
 35 40 45

<210> 7732
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7732

Lys Phe Arg Leu Leu Arg Arg Ile Met Arg Trp Phe Gln Arg His Leu

1 5 10 15

Leu Lys Ala Ala Lys
20

<210> 7733
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 7733

Arg Leu Lys Leu Tyr Arg Arg Phe Ile Arg Leu Trp Cys Lys Leu Ser
1 5 10 15

His Gln His Lys Ala
20

<210> 7734
<211> 74
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 7734

Leu Leu Arg Leu Leu Arg Arg Met Phe Lys Phe Leu Arg Lys Tyr His
1 5 10 15

Ile Leu Ile Lys Leu Lys Lys Gln Leu Lys Asn Asp Thr Pro Ser Ala
20 25 30

Ser Glu Leu Met Ala Met Met Ala Leu Lys Asn Cys Met Leu Arg Leu
35 40 45

Leu Ser Arg Glu His Arg Val Leu Val Asn Ala Ala Arg Leu Cys Arg
50 55 60

Ala Leu Ala Trp Phe Arg Lys Ala Arg Arg
65 70

<210> 7735
<211> 29
<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7735

Tyr Phe Lys Phe Phe Arg Arg Met Leu Arg Leu Tyr Lys Arg Glu Gln
1 5 10 15

Gln Phe Leu Arg Arg Tyr Leu Lys Ala Met Gly Ala Leu
20 25

<210> 7736

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7736

Lys Phe Lys Ile Leu Pro Lys Leu Leu Arg Lys Ile Lys Lys Glu Asn
1 5 10 15

Val Tyr Arg Leu Leu Ala Cys Val
20

<210> 7737

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7737

Tyr Phe Lys Leu Leu Lys Arg Leu Tyr Lys Arg Phe Arg Lys Gln Arg
1 5 10 15

Ala Leu His Arg Asn Leu Thr Ala Ala Arg Leu Ala Cys Ser Ala Trp
20 25 30

Cys Ala Arg Glu Ile Phe Asn Lys
35 40

<210> 7738

<211> 45

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7738

Ile Trp Lys Leu Phe Lys Arg Tyr Phe Lys Arg Ile Ser His Gln Ala
1 5 10 15

Asn Lys Lys Thr Lys Arg Leu Arg Leu Met Ile Ser Met Lys Leu Thr
20 25 30

Ile Leu Thr Leu Lys Thr Ala Val Leu Ala Leu Leu Ala
35 40 45

<210> 7739

<211> 97

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7739

Arg Met Arg Leu Leu Asn Lys Tyr Phe Arg Arg Leu Arg Arg Asn Pro
1 5 10 15

Ala Tyr His Ala Ala Cys Leu Tyr Cys Lys Arg Arg Cys Lys Lys Phe
20 25 30

Ala Arg Arg Leu Leu Ser Lys Asp Arg Lys Arg Cys Gly Arg Arg Lys
35 40 45

Cys Arg Leu Ile Asp Lys Ala Gly Thr Ala Ala Glu Asn Leu Arg Lys
50 55 60

Arg Tyr Arg Arg Val Lys Arg Leu Arg Val Ala Thr Leu Phe Leu Gly
65 70 75 80

His Ala Ala Val Leu Trp Leu Trp Val Lys Phe Tyr Trp Met His Ala
85 90 95

Leu

<210> 7740

<211> 47
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7740

Met Met Arg Tyr Met Thr Lys Leu Leu Arg Phe Tyr Gln Arg Gly Gln
 1 5 10 15

Lys Ser Ala Ala Leu Arg Gln Arg Arg Arg Arg Leu Val His Tyr Ala
 20 25 30

Arg Arg Asp Ala Leu Cys Lys Leu Phe Gly Arg Ser Lys Leu Leu
 35 40 45

<210> 7741
 <211> 98
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7741

Lys Leu Lys Ile Leu His Lys Met Phe Lys Leu Met Pro Arg Arg Ala
 1 5 10 15

Tyr Lys Ala Leu Leu Gly Phe His Leu Arg Ala Lys Phe His Arg Arg
 20 25 30

Tyr Lys Leu Ala Leu Lys Arg Leu Tyr Gln Ala Trp Arg Ala Val Met
 35 40 45

Thr Pro Lys Leu Lys Met Glu Leu Leu Leu Lys Leu Lys Ala Lys Arg
 50 55 60

Leu Asp Gly Tyr Asn Arg Val Leu Leu Leu Arg Lys Asp Asp His Ile
 65 70 75 80

Arg Gly Pro Leu Lys Asn Glu Arg Ala Tyr Ala Ile Arg His Leu Lys
 85 90 95

Tyr Cys

<210> 7742
 <211> 64
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7742

Trp Leu Arg Leu Met Arg Arg Ile Met Arg Phe Leu Asn Lys Thr Arg
 1 5 10 15

Trp Pro Leu Glu Lys Gly Arg Ala Arg Lys Ala Thr Asp Ile Leu Lys
 20 25 30

Ala Lys Phe Gly Lys Arg Leu Pro Trp Leu Lys Lys Cys Ser Leu Ile
 35 40 45

Asn Lys Arg Ala Ala Leu Thr Ala Lys Val Ser Arg Met Leu Glu Asp
 50 55 60

<210> 7743
 <211> 53
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7743

Leu Ile Arg Leu Met His Arg Leu Leu Arg Leu Ile Lys Lys Arg Lys
 1 5 10 15

Ala Lys Ala Leu Lys Lys Leu Trp Pro Cys Gln Val Lys Arg Gly Ala
 20 25 30

Ser Lys Ala Lys Lys Val Ile Phe Gln Ile Arg Leu Thr Asp Arg Ala
 35 40 45

Thr Val Asp Ser Pro
 50

<210> 7744
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7744

Lys	Leu	Lys	Phe	Phe	Arg	Arg	Leu	Met	Arg	Met	Phe	Ser	Arg	Arg	Ala
1				5					10					15	

Leu	Lys	Leu	Lys	Thr	Asn	Val	His	Leu	Ser	Asp	Arg	Ala	Pro	Gly	Cys
			20					25						30	

Lys	Cys	Ala	Ala
		35	

<210> 7745

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7745

Lys	Phe	Arg	Leu	Tyr	Arg	Arg	Leu	Ile	Lys	Lys	Phe	Thr	Lys	Leu	Ile
1				5					10					15	

Lys	Glu	His	Arg	Ala	Glu	Tyr	Lys	Ala	Tyr	Asn	Lys	Ala	Arg	Arg	Leu
			20					25					30		

Lys	Ala	Leu	Met	Cys	Ala	Leu	Ser
		35					40

<210> 7746

<211> 48

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7746

Ile	Tyr	Lys	Leu	Leu	Pro	Lys	Leu	Met	Lys	Lys	Leu	Pro	His	Ala	Met
1				5					10					15	

Leu	Ala	Lys	Ala	Gly	Leu	His	Lys	Arg	Pro	Gly	Arg	Met	Gly	Met	Ala
			20					25					30		

Arg	Asn	Ala	Phe	Leu	Glu	Lys	Met	Leu	Asn	Ile	Arg	Lys	Arg	Trp	Ala
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35

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45

<210> 7747

<211> 42

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7747

Arg Leu Lys Leu Met Pro Arg Phe Leu Arg Lys Ile Arg His Leu Trp
 1 5 10 15

Asn Tyr Ala Glu Thr Ala Thr Trp Ala Met Cys Ala Leu Lys Cys Ala
 20 25 30

Ala Lys Leu Val Leu Ile Lys Ala Lys Asn
 35 40

<210> 7748

<211> 63

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7748

Phe Tyr Arg Leu Met Arg Lys Tyr Trp Arg Arg Phe Lys Lys Ser Glu
 1 5 10 15

His Arg Arg Ala Leu Tyr Pro Trp Ile Ala Leu Lys Ala Ala Ala Pro
 20 25 30

Trp Ala Lys Cys Lys Arg Leu Arg Leu Trp Cys Lys Ile Met Gly Leu
 35 40 45

Arg His Lys Lys Ala Asn Cys Phe Ile Ala Ile Ala Arg Lys Gln
 50 55 60

<210> 7749

<211> 46

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7749

Met Tyr Arg Phe Trp Cys Lys Phe Tyr Arg Leu Leu Arg Arg Ala Glu
 1 5 10 15

Trp Lys Ala Arg Leu Arg Leu Ala Gly Arg Lys Pro Arg Ala Cys Arg
 20 25 30

Leu Gly Arg Lys Arg Leu Thr Ile Ser Glu Leu Trp Gln Ser
 35 40 45

<210> 7750

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7750

Arg Phe Arg Leu Trp Asn Lys Ile Leu Lys Arg Leu Arg Lys Ala Leu
 1 5 10 15

Thr Gly Phe His Glu Cys Ala Ala Val Arg Leu
 20 25

<210> 7751

<211> 49

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7751

Lys Phe Arg Leu Met Lys Arg Ile Leu Lys Arg Leu Lys Arg Tyr Met
 1 5 10 15

Arg Leu Lys Ala Arg Ala Thr Arg Ile Glu Val His Leu Ala His Arg
 20 25 30

Cys Thr Arg Leu Ile Val Cys Ser Thr Cys Thr Lys Ala Glu Lys Leu
 35 40 45

Leu

<210> 7752
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7752

Lys Trp Arg Tyr Trp His Lys Phe Leu Lys Phe Leu Arg Thr Asn Leu
 1 5 10 15

Leu Met Leu Ala
 20

<210> 7753
 <211> 89
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7753

Arg Leu Arg Ile Ile Lys Lys Leu Trp Lys Tyr Met Pro Lys Asn Ala
 1 5 10 15

Leu Ala Pro Lys Pro Leu Ser Met Asn Leu Leu Ala Ile Pro Tyr Arg
 20 25 30

Glu Gln Ala Ala Leu Asp Lys Arg Ala Ala Arg Gly Glu Arg Val Asn
 35 40 45

Ser Lys Lys His Thr Gln Asn Trp Gly Ala Phe Ala Arg Leu His Arg
 50 55 60

Lys Met Lys Arg Lys Ala Arg Val Lys Gln Lys Tyr Arg Leu Arg Cys
 65 70 75 80

Leu Ala Ile His Tyr Arg Lys Lys Tyr
 85

<210> 7754
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7754

Arg Leu Lys Leu Leu Gln Lys Trp Leu Arg Phe Leu Arg Ser His Leu
 1 5 10 15

Ala Thr Leu Arg Lys Pro His Met Tyr
 20 25

<210> 7755

<211> 96

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7755

Leu Phe Arg Leu Met Ser Arg Leu Met Arg Met Met Arg Cys Ile Lys
 1 5 10 15

Ala His Lys Gln Leu Lys Tyr Ala Trp Asp Arg Arg Lys Ser Ala Val
 20 25 30

Leu Ile Ile Gly Met Arg Thr Arg Val Ala Leu Ala Leu Asn Leu Arg
 35 40 45

Lys Phe Lys Phe Tyr Gly Leu Asn Leu Leu Leu Ala Tyr Gln Lys Gln
 50 55 60

Leu Ser Arg Ala Ala Arg Arg Lys Thr Tyr Asp Leu Asp Met Ala Lys
 65 70 75 80

Ala Arg Ala Pro Arg Arg Ile Ala Ser Ala Arg Thr Ile Cys Arg Asn
 85 90 95

<210> 7756

<211> 83

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7756

Leu Trp Lys Leu Leu Lys Arg Tyr Phe Lys Met Met Arg Lys Gln Gly

Phe Leu Lys Leu Leu Thr Lys Trp Leu Arg Phe Leu Lys Arg Ala Asp
1 5 10 15

Arg Asp Phe Tyr Ile Arg Arg Met Gln
20 25

Phe Trp Arg Tyr Leu Lys Arg Tyr Leu Lys Met Leu Asn Lys Ala Leu
1 5 10 15

Ala Ser Leu Cys Thr Arg Lys Gly Cys Arg Leu Met Ala Asn Leu Asp
20 25 30

Tyr Arg Ala Arg Leu Lys Trp Asn Ala Phe Gly Ala Pro Val Tyr Lys
 35 40 45

Leu Lys Val Arg Ala Ala Phe Ala Lys Pro Arg Met
 50 55 60

<210> 7759
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7759

Arg Leu Arg Leu Tyr Arg Lys Leu Phe Arg Lys Phe Arg Cys Val Ala
 1 5 10 15

Lys Ala Ala Tyr Asn Lys Phe Gly His Arg Met Ala Ala Phe Cys Arg
 20 25 30

Leu

<210> 7760
 <211> 27
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7760

Lys Leu Arg Ile Tyr Pro Arg Met Trp Arg Lys Phe Cys Lys Leu Leu
 1 5 10 15

Arg Ile Arg Ala Leu Lys Ala Ile Ala Asn Trp
 20 25

<210> 7761
 <211> 61
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7761

Leu Phe Lys Tyr Ile Lys Lys Trp Leu Lys Leu Leu Lys Lys Lys Ala
 1 5 10 15

Thr Ile Phe Pro Lys Arg Lys Phe Pro Met Cys Arg Ala Lys Leu Leu
 20 25 30

Trp Leu Trp Val Lys Leu Pro Tyr Leu Tyr His Cys Ala Leu Arg Leu
 35 40 45

Leu Ala Cys Arg Ala Pro Ala Cys Arg Asp Lys Gln Arg
 50 55 60

<210> 7762
 <211> 31
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7762

Lys Leu Lys Phe Leu Lys Lys Leu Phe Arg Lys Ile Thr Arg Ala Leu
 1 5 10 15

His Leu Arg Ala Ala Phe Gly Tyr Pro Leu Leu Pro Arg Tyr Lys
 20 25 30

<210> 7763
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7763

Leu Trp Lys Tyr Leu Gln Arg Tyr Ile Arg Met Phe Pro Arg Ala Arg
 1 5 10 15

Ala Phe Leu Ser Arg Arg Leu Ala
 20

<210> 7764
 <211> 66
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7764

Phe Leu Lys Tyr Tyr Lys Arg Phe Ile Lys Arg Trp Arg Lys Glu Ala
 1 5 10 15

Ser Ala Lys Leu Arg Ala Leu Arg Leu Pro Leu Asp Ala Lys Arg His
 20 25 30

Ala Met Lys Arg Ala Leu Arg Ala Lys Lys Asp Met Arg Trp Phe Met
 35 40 45

Ala Leu Arg Leu Leu Ala Met Leu Trp Ala Lys Trp Lys Asn Gln Asp
 50 55 60

Lys Gly
 65

<210> 7765

<211> 66

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7765

Lys Tyr Lys Leu Met Thr Lys Leu Leu Arg Met Tyr Pro Lys Lys Leu
 1 5 10 15

Arg Thr Arg Leu Val Ala Arg Trp Leu Val Leu Arg Pro Lys Ser Ala
 20 25 30

Tyr Arg Lys Tyr Ala Pro Arg Trp Leu Gln Val Trp Leu Arg Ser Asn
 35 40 45

Arg Tyr Asp Lys Tyr Val Leu Ala Lys Ile Met Ser Leu Thr Leu Lys
 50 55 60

Leu Lys
 65

<210> 7766

<211> 100

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7766

Trp Leu Arg Phe Trp Ser Lys Leu Trp Lys Arg Phe Lys Thr Cys Ser
1 5 10 15

Ala Lys Lys Ala Lys Arg Asp Ala Ala Asp Met Lys Ala His Lys Ala
20 25 30

Arg Lys Ala Val His Arg Thr Tyr Ala Lys Thr Arg Arg Asp Pro Arg
35 40 45

Ala Val Lys Ile Lys Met Arg Gly Leu Arg Leu Lys Phe Ser Arg Pro
50 55 60

Asp Gln Trp Ala Asp Ala Phe Lys Leu Asp Lys Phe Met Leu Lys Lys
65 70 75 80

Leu Ala Arg Lys Leu Cys Lys Glu Arg Ala Met Tyr Thr Ile Leu Leu
85 90 95

Met Cys Lys Asp
100

<210> 7767

<211> 62

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7767

Lys Trp Lys Phe Phe Lys Arg Leu Leu Lys Arg Trp Arg Arg Ile Lys
1 5 10 15

Ile Leu Arg Lys Arg Ile Asp Leu His Tyr Glu His Ala Arg Ile Tyr
20 25 30

Ala Gly Tyr Lys Ile Phe Arg Ala Leu Ile Arg Leu Ser Cys Pro Gln
35 40 45

Gln Ala Trp Leu Ala Ala Leu Ala Ala Leu Phe Leu Ala Lys

50

55

60

<210> 7768

<211> 41

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7768

Arg Leu Lys Trp Ile Asn Lys Phe Phe Arg Arg Leu Ser Arg Ser His
 1 5 10 15

Asp Ser Gln His Val Leu Ala Ala Phe Leu Lys Lys Lys Ala Arg Thr
 20 25 30

Leu Ile Ala Ala Gly Arg Val Ala Arg
 35 40

<210> 7769

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7769

Arg Leu Arg Leu Phe Lys Arg Phe Leu Arg Ile Met Cys Arg Ala Tyr
 1 5 10 15

Ala Ala Val Arg
 20

<210> 7770

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7770

Phe Leu Arg Leu Tyr Lys Arg Trp Ile Lys Ile Phe Arg Arg Met Arg
 1 5 10 15

Leu Leu Asn Gln Leu Gln Glu His Arg Leu Leu Leu Arg Asp Lys Ala

20

25

30

Leu

<210> 7771

<211> 41

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7771

Lys Phe Arg Leu Leu Lys Arg Tyr Trp Lys Met Leu Arg Lys His Ala
 1 5 10 15

Ser Ala Arg Ala Ala Gln Asn Thr Val Gln Leu Asn Thr Met Ala Ala
 20 25 30

Leu Trp Gln Glu Lys Ala Arg Arg Gly
 35 40

<210> 7772

<211> 76

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7772

Ile Phe Arg Tyr Tyr Lys Lys Ile Leu Lys Arg Leu Arg Lys Lys Lys
 1 5 10 15

Leu Asn Ala Lys Lys Glu Ala Lys Arg Lys Asp Leu Trp Pro Gln Ile
 20 25 30

Asp Lys Ser Arg Ala Ile Leu Gln Asn Lys Ile Pro Leu Glu Cys Ile
 35 40 45

Ala Leu Asn Leu Leu Tyr Asp Leu Lys Arg Glu Asn Arg Val Trp Leu
 50 55 60

Arg Lys Leu Lys Ala Lys Thr Glu Phe Gln Ala Gly
 65 70 75

<210> 7773
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7773

Phe Met Lys Leu Phe Lys Arg Phe Tyr Lys Met Tyr Arg Lys Ile Ala
 1 5 10 15

Thr Ala Ala Pro Leu Arg Arg Ala Cys
 20 25

<210> 7774
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7774

Ile Leu Arg Phe Leu Lys Arg Leu Trp Arg Arg Leu Thr Lys Ala Asn
 1 5 10 15

Ala Val Gln Thr
 20

<210> 7775
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7775

Lys Tyr Lys Met Ile Cys Lys Leu Leu Arg Lys Leu Arg Arg Thr Val
 1 5 10 15

Arg Met Gly Arg Cys Glu Ala Thr Tyr Leu Leu Phe Ala His Lys Glu
 20 25 30

Asp Lys Leu Arg Phe Leu Asn Lys
 35 40

<210> 7776
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7776

Arg Leu Lys Leu Ile Lys Lys Trp Ile Arg Lys Leu Lys Arg Tyr Lys
 1 5 10 15

Ala Cys Phe Ala Cys Ala His Cys Leu Trp Pro Leu Lys Trp His Lys
 20 25 30

Asp Ala Gly Trp
 35

<210> 7777
 <211> 48
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7777

Leu Leu Arg Trp Ile Lys Lys Leu Leu Arg Phe Leu Pro Gln Ala Trp
 1 5 10 15

Asn Thr Met Leu Ile Gln Cys Leu Gly Met His Arg Lys Leu Arg Arg
 20 25 30

Gln Lys Ser Leu Lys Arg Glu Lys Met Gly Ala Gln Leu Arg Ala Arg
 35 40 45

<210> 7778
 <211> 38
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7778

Leu Leu Arg Met Leu Lys Arg Ile Ile Arg Lys Leu Arg Arg Leu Lys
 1 5 10 15

Ala Glu Ala Phe Leu Lys Met Leu Ala Tyr Asp Ser Asp Ala Leu His
 20 25 30

Gly Tyr Leu Lys Met Met
 35

<210> 7779

<211> 52

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7779

Leu Phe Lys Tyr Trp Arg Lys Phe Leu Lys Ile Leu Asn Lys Tyr Lys
 1 5 10 15

Arg Ala Leu Pro Leu Ala Lys Leu Lys Lys Lys Tyr Arg Pro Gly Lys
 20 25 30

Ala Ala Leu Asp Trp Leu Ile Arg Lys Asn Leu Lys Lys Leu Ala Phe
 35 40 45

Val Ala Ala Arg
 50

<210> 7780

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7780

Trp Phe Lys Ile Tyr Lys Lys Ile Met Arg Leu Ile Lys Lys His Ile
 1 5 10 15

Phe Ala Leu Leu Arg Leu Arg Ala Glu
 20 25

<210> 7781

<211> 43

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7781

Lys	Leu	Lys	Phe	Tyr	Lys	Arg	Met	Phe	Arg	Arg	Leu	Arg	Asn	Lys	Ala
1				5					10					15	

Arg	Leu	Ala	Gln	Gln	Ala	Phe	Ala	Met	Lys	Pro	Thr	Ala	Pro	Gly	Ser
			20					25					30		

Arg	Leu	Arg	Trp	Leu	Lys	Met	Cys	Arg	Ser	Trp
		35				40				

<210> 7782

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7782

Arg	Leu	Lys	Trp	Leu	Pro	Arg	Leu	Tyr	Lys	Leu	Tyr	Lys	Gln	Ser	Lys
1				5					10					15	

Ala	Ala	Arg	His	His	Ala	Lys
			20			

<210> 7783

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7783

Ile	Phe	Arg	Phe	Ile	Arg	Lys	Tyr	Ile	Arg	Leu	Leu	Thr	His	Lys	Tyr
1				5					10					15	

Lys	Leu	Trp	Arg	Ala	Glu	Arg	Leu	Leu
			20				25	

<210> 7784

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7784

Arg	Leu	Lys	Tyr	Phe	Asn	Lys	Ile	Leu	Lys	Lys	Leu	Asn	Asn	Pro	Asn
1				5				10						15	

His	Leu	Leu	Arg	Ala	Lys	Ala	Ala	Val	Phe	Lys	Tyr	Ala	Arg	Ile	His
			20					25					30		

<210> 7785

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7785

Ile	Ile	Arg	Leu	Leu	Cys	Arg	Leu	Leu	Arg	Leu	Phe	Lys	Lys	Asp	Tyr
1			5					10						15	

Leu	Ser	Lys	Asn	Asn	Asn	Asp	Ala	Leu
			20				25	

<210> 7786

<211> 41

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7786

Ile	Leu	Lys	Phe	Leu	Thr	Arg	Leu	Leu	Lys	Arg	Phe	Lys	His	Arg	His
1			5					10						15	

Val	Cys	His	His	Leu	Leu	Arg	Arg	Arg	Leu	Ala	Thr	Leu	Val	Ala	Pro
			20					25					30		

Arg	Arg	Leu	Arg	Ser	Lys	Met	Gln	Gly
		35				40		

<210> 7787

<211> 50

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7787

Arg	Tyr	Lys	Phe	Tyr	Pro	Arg	Phe	Leu	Lys	Tyr	Tyr	Lys	Ser	Ala	Arg
1				5					10					15	

Lys	Lys	Arg	Asp	Cys	Thr	Asp	Tyr	Lys	Leu	Ser	Leu	Arg	Lys	Glu	Ala
			20					25					30		

Asp	Leu	Asn	Leu	Tyr	Leu	Ala	Arg	Gln	Gln	Leu	Leu	Leu	Lys	Val	Leu
		35					40					45			

Lys	Lys
	50

<210> 7788

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7788

Lys	Leu	Arg	Phe	Trp	Gln	Lys	Leu	Met	Arg	Lys	Ile	Pro	Lys	Ala	Asp
1				5					10					15	

Thr	Ala	Tyr	Leu	Lys	Lys	Glu	Ala	Ser	Ala	Lys	Arg	Ser	Asn	Ala	Ile
			20					25					30		

<210> 7789

<211> 58

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7789

Arg	Tyr	Lys	Phe	Met	Lys	Lys	Leu	Trp	Lys	Phe	Ile	Arg	Arg	Arg	Leu
1				5					10					15	

Val	Asp	Arg	Lys	Arg	Ala	Pro	Thr	Val	Ala	Ile	Lys	Cys	Leu	Pro	Arg
			20					25					30		

Ala	Arg	Thr	Lys	Gln	Leu	Ala	Cys	Asn	Pro	Leu	Gly	Gln	Thr	Lys	Asp
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

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Phe Ala Ala Ala Ser Leu Tyr Leu Arg Lys
 50 55

<210> 7790

<211> 67

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7790

Arg Leu Arg Ile Trp Lys Lys Tyr Phe Lys Arg Leu Gln Lys Arg Lys
 1 5 10 15

Leu Glu Ala Ile Leu Phe Asp Met Asp Ala Met Asn Pro Thr Trp Ala
 20 25 30

Ser Ile Ala Leu Tyr Leu Arg Gly Arg Trp Ala Leu Ala Lys Ala Lys
 35 40 45

Lys Ala Ser Leu Lys Met Leu Cys Ser Arg Arg Pro Pro Gly Ala His
 50 55 60

Arg Asn Ala
 65

<210> 7791

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7791

Ile Trp Arg Leu Trp Arg Arg Leu Leu Arg Arg Leu Arg Ser Thr Tyr
 1 5 10 15

Ala Lys Asp Glu Cys Lys Pro Arg Ala Leu Thr Pro
 20 25

<210> 7792

<211> 38

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7792

Trp Leu Lys Phe Leu Pro Arg Phe Tyr Arg Leu Leu Gln Ser Ile Ala
1 5 10 15

Pro Lys Arg Ala Lys Lys Lys Glu Ala Phe Lys Asp Gln Lys Lys Met
20 25 30

Leu Val Ile Lys Ala Ala
35

<210> 7793

<211> 59

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7793

Trp Trp Lys Leu Phe Arg Arg Leu Phe Lys Arg Phe Lys Lys Leu Leu
1 5 10 15

Ala Ala Leu Ile Arg Met Ala Leu Gln Arg Lys Leu Tyr Arg His Lys
20 25 30

Leu Leu Arg Leu Pro Ser Phe Cys Gln Ala Val Asp Ala Leu Ala Lys
35 40 45

Lys Cys Lys Ser Val Gln Tyr Leu Asn Gly Arg
50 55

<210> 7794

<211> 41

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7794

Lys Ile Lys Leu Trp Arg Arg Trp Phe Arg Arg Trp Ser Lys Arg Ala
1 5 10 15

Leu Ala Arg Pro Trp Met Asn Arg Lys Val Lys Ala Ala Pro Leu Lys
 20 25 30

Gln Ala Cys Val Leu Ala Cys Lys Met
 35 40

<210> 7795

<211> 67

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7795

Arg Met Lys Met Leu Arg Lys Ile Ile Arg Arg Leu Arg Lys Val Arg
 1 5 10 15

Lys Leu Arg Leu Asp Glu Cys Ala Trp Arg Cys Met Trp Lys Lys Leu
 20 25 30

His Val Arg Ser Asp Leu His Ala Tyr Leu Trp Ala Arg Pro Lys Ile
 35 40 45

Ala Leu Asp Cys Tyr Ile Arg Lys Tyr Ala Lys Leu Pro Arg Arg Ala
 50 55 60

Leu Lys Ala
 65

<210> 7796

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7796

Leu Leu Lys Leu Leu Ser Lys Leu Phe Lys Tyr Ile Arg Lys Lys Arg
 1 5 10 15

Asn Leu His Arg Gln Val Phe Met Lys Leu Tyr Ala Gln Gln Arg Arg
 20 25 30

Lys Ala

<210> 7797
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7797

Arg Trp Arg Ile Trp Gln Arg Leu Ile Arg Lys Phe Arg Ser Leu His
 1 5 10 15

Ala Lys Leu Trp Ala Asn Asp Arg Ile Leu Arg Gln Ala
 20 25

<210> 7798
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7798

Leu Leu Lys Trp Ile Arg Lys Met Phe Lys Lys Trp Gln Pro Ser Ala
 1 5 10 15

Arg Lys Ala Gly Ala Ile Gln Met Arg Leu Phe Leu Lys Ala Leu Arg
 20 25 30

Gly

<210> 7799
 <211> 62
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7799

Lys Leu Lys Leu Phe Arg Arg Phe Phe Lys Arg Tyr Arg Cys His Lys
 1 5 10 15

Gly Leu Leu Lys Ile Arg Arg Lys Asp Ser Tyr Gln Thr Lys Val Arg

<210> 7802
 <211> 48
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7802

Lys Leu Arg Leu Phe Cys Arg Leu Tyr Lys Leu Tyr Lys His Ala Ala
 1 5 10 15

Glu Arg Lys Trp Lys Gln Ser Thr Lys Ser Ile Lys Pro Glu Leu Asn
 20 25 30

Leu Ala His Lys Leu Pro Leu Gln Lys Lys Ala Glu Gln Ser Arg Lys
 35 40 45

<210> 7803
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7803

Met Leu Arg Leu Leu Asn Arg Leu Tyr Lys Lys Phe His Ser Leu Glu
 1 5 10 15

Lys Leu Leu Val Arg Arg Met Arg
 20

<210> 7804
 <211> 43
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7804

Lys Phe Arg Phe Phe Arg Lys Leu Ile Lys Tyr Ile Lys Asn Arg Ala
 1 5 10 15

Gly Tyr Ala Ala Cys Lys Ala Lys Ser His Ala Lys Leu Ala Tyr Ala
 20 25 30

Ala Leu Arg Arg Gln Arg Arg Lys Glu Pro Gln
35 40

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<210> 7805
<211> 30
<212> PRT
<213> Artificial Sequence
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<220>
<223> Computer-generated peptide variant

<400> 7805

Arg Trp Lys Tyr Leu Thr Arg Leu Ile Lys Tyr Phe Arg Lys Cys Leu
1 5 10 15

Ala Leu His Ser Lys Pro Ala Leu Arg Ser Thr Ser Lys Ala
20 25 30

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<210> 7806
<211> 21
<212> PRT
<213> Artificial Sequence
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<220>
<223> Computer-generated peptide variant

<400> 7806

Leu Tyr Arg Phe Leu Lys Lys Met Leu Arg Leu Leu Lys Arg Tyr Ile
1 5 10 15

Leu Asn Leu Arg Ser
20

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<210> 7807
<211> 43
<212> PRT
<213> Artificial Sequence
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<220>
<223> Computer-generated peptide variant

<400> 7807

Leu Leu Arg Met Trp Lys Arg Ile Tyr Lys Lys Ile Arg Arg Ala Leu
1 5 10 15

Ala Ala Ala Lys Thr Lys Leu Ile Phe Lys Arg Leu Leu Leu Val Gln
20 25 30

His Met Ala Tyr Arg Thr Lys Ala Asn Glu Lys
 35 40

<210> 7808
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7808

Arg Phe Lys Ile Leu Lys Arg Trp Trp Lys Lys Leu Ser Lys Ala Phe
 1 5 10 15

Arg Thr Ala Trp Leu Lys Met Asp Val Ala Lys Trp Ala His Ala Arg
 20 25 30

Asp

<210> 7809
 <211> 52
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7809

Arg Trp Arg Trp Phe Arg Arg Trp Leu Lys Ile Leu Lys Arg Phe Trp
 1 5 10 15

Ala Leu Arg His Leu Gln Ala Met Tyr Cys Ala Met Tyr Leu Phe Leu
 20 25 30

Lys Phe Tyr Gly Lys Leu Ala Met Ala Ala Lys Lys Thr Arg Arg Lys
 35 40 45

Glu Thr Arg Leu
 50

<210> 7810
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7810

Leu	Leu	Arg	Trp	Leu	Lys	Lys	Phe	Met	Lys	Arg	Tyr	Asn	Lys	Ala	Cys
1				5					10					15	

Leu	Met	Ala	Ala	Ala	Leu	Ser	Gly	Lys	Cys	Cys	Gln	Asn	Gln	Ala	Ser
			20					25					30		

Arg	Asp	Arg	Arg
			35

<210> 7811

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7811

Arg	Leu	Arg	Phe	Tyr	Thr	Arg	Phe	Phe	Lys	Arg	Phe	Lys	Lys	Lys	Ala
1				5					10					15	

Gln	Val	Val	Phe	Lys	Pro	Ala	Leu	Leu	Asp	Ala	Lys	Ala	Leu	Ala	Leu
			20					25					30		

Asp	Arg	Pro	Glu
			35

<210> 7812

<211> 43

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7812

Leu	Ile	Arg	Leu	Phe	Lys	Lys	Leu	Ile	Lys	Arg	Ile	Arg	Arg	Pro	Glu
1				5					10					15	

Leu	Ala	Ser	Ala	Gln	Pro	Leu	Arg	Leu	Glu	Arg	Tyr	Leu	Trp	Tyr	Asn
			20					25					30		

Thr	Lys	Leu	Lys	Arg	Lys	His	Lys	Cys	Glu	Thr
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

35

40

<210> 7813

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7813

Trp	Leu	Arg	Met	Leu	Cys	Lys	Phe	Leu	Lys	Lys	Leu	Pro	Lys	Lys	Lys
1				5					10					15	

Ala	Leu	Ser	Ala	His	Ala	Lys	Val	Asp	Trp	Lys	Val	Trp	Arg	Phe	Lys
			20					25					30		

Gly	Thr	Ala
		35

<210> 7814

<211> 52

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7814

Phe	Leu	Lys	Phe	Ile	Lys	Lys	Leu	Leu	Arg	Lys	Met	Arg	Lys	Leu	Tyr
1				5					10					15	

Arg	Pro	Gly	Leu	Lys	Pro	Cys	Asn	Lys	His	Ala	Ala	Asn	Leu	Leu	Arg
			20					25					30		

Cys	Asp	Leu	Trp	Ala	Ile	Arg	His	Arg	Lys	Leu	Val	Gln	Lys	Ala	Thr
		35					40					45			

Leu	Lys	Lys	Asn
			50

<210> 7815

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7815

Trp Leu Arg Tyr Leu Lys Lys Leu Tyr Lys Leu Trp Asn Asn Lys Ile
1 5 10 15

Leu Leu Thr Cys Glu Arg Leu Leu
20

<210> 7816

<211> 60

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7816

Met Ile Arg Met Phe Lys Arg Ile Leu Arg Arg Leu Lys Gln Phe Ala
1 5 10 15

Ala Asn Leu Glu Asn Leu Arg Ala Ala Tyr Asp Glu Leu Thr Ala Leu
20 25 30

Ser Arg Phe Ala Lys Leu Asp Asn Gln Gly Leu Gln Asn Gly His Lys
35 40 45

Trp Leu Arg His Lys Phe Lys Ala Leu Arg Lys Lys
50 55 60

<210> 7817

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7817

Arg Met Lys Leu Leu Pro Arg Phe Leu Arg Phe Ile Lys Thr Val Ala
1 5 10 15

Ala Leu Lys Ala
20

<210> 7818

<211> 43

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7818

Phe	Phe	Arg	Leu	Met	Arg	Lys	Leu	Leu	Lys	Lys	Phe	Lys	Lys	Tyr	Gly
1				5					10					15	

Phe	Glu	Ala	Asp	Ala	Val	Ala	Ala	Ser	Cys	Tyr	Lys	Cys	Arg	Glu	Lys
			20					25					30		

Ala	Leu	Thr	Arg	Lys	Trp	Trp	Leu	Leu	His	Leu
		35					40			

<210> 7819

<211> 55

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7819

Phe	Tyr	Lys	Leu	Leu	Ser	Lys	Tyr	Leu	Arg	Met	Leu	Lys	Lys	His	Leu
1				5					10					15	

Tyr	Tyr	Trp	Ile	Ala	Ala	Gln	Tyr	Ser	Arg	Ala	Leu	Leu	Tyr	Arg	Lys
			20					25					30		

His	Ala	Lys	Leu	Ala	His	Ser	Leu	Arg	Arg	Arg	Asn	Arg	Ala	Lys	Asp
		35					40				45				

Gly	Ala	Glu	Arg	Leu	Arg	Gln
	50					55

<210> 7820

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7820

Arg	Leu	Lys	Leu	Leu	Thr	Lys	Trp	Ile	Arg	Leu	Tyr	Arg	Arg	Tyr	Arg
1				5				10						15	

Leu Leu Lys Ala Pro Ala Val Ser His Leu Ala Arg Met Leu Val Val
 20 25 30

<210> 7821
 <211> 69
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7821

Phe Phe Arg Tyr Tyr Arg Arg Ile Leu Lys Lys Ile Arg Cys Thr Pro
 1 5 10 15

Asp Arg Asp Val Lys Lys Ile Leu Leu Ala Arg Lys Lys Ala Arg Val
 20 25 30

Cys Gly Gln Leu Thr Arg Lys Phe Glu His Leu Ala Ala Leu Arg Lys
 35 40 45

Arg Ala Leu Glu His Ala Leu Leu Arg Tyr Arg Asp Lys Lys Leu Arg
 50 55 60

Asn Val Ala Gln Val
 65

<210> 7822
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7822

Phe Phe Lys Leu Tyr Arg Lys Phe Tyr Lys Leu Phe Arg His Asp Ser
 1 5 10 15

Arg Leu Ala Leu
 20

<210> 7823
 <211> 98
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7823

Lys Phe Arg Ile Leu Lys Arg Leu Phe Lys Trp Leu Asn Lys Leu Met
 1 5 10 15

Leu Gln Tyr Ala Leu Cys Ala Gly Lys Met Ala Lys Arg Lys Trp Lys
 20 25 30

Leu Thr Ala Ala Gln Ala Leu Leu Lys Glu Lys Cys Phe Phe Cys Phe
 35 40 45

Lys Arg Gly Asn Ser Ala Glu Tyr Trp Ala Ala Leu Arg Lys Arg Gly
 50 55 60

Tyr Leu Lys Leu Lys Lys Ala Met Ala Glu Cys Ser Cys Ala Lys Ser
 65 70 75 80

Met Leu Leu Ala Arg Cys Met Ala Arg Lys Thr Gly His Arg Ile Asp
 85 90 95

Trp Gly

<210> 7824

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7824

Arg Trp Arg Leu Met His Arg Leu Leu Arg Lys Leu Cys Arg Lys Pro
 1 5 10 15

Arg Gly Ala Leu Arg Ala Ile
 20

<210> 7825

<211> 43

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7825

Phe Met Arg Leu Trp Lys Arg Phe Tyr Arg Leu Phe Cys Lys Phe Arg
 1 5 10 15

Leu Phe Lys Lys Leu Arg Ala Met Leu Lys Ala Trp Leu Arg Thr Ala
 20 25 30

Arg Arg Leu Arg Leu Asn Gln Met Leu His Leu
 35 40

<210> 7826

<211> 66

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7826

Tyr Phe Arg Phe Leu Arg Lys Phe Phe Lys Lys Leu Lys Lys Ala Arg
 1 5 10 15

Arg Lys Ser Cys Ala Ile Ala Gln Trp Gly Ser Thr Tyr Asn Lys Lys
 20 25 30

Leu Asn Cys Ile Lys Lys Ala Arg Arg Arg Leu Pro Lys Gln Tyr Ala
 35 40 45

Ala Thr Ala Asp Ala Glu Arg Leu Ala Lys Arg Glu Leu Leu Lys Val
 50 55 60

Ala Asn
 65

<210> 7827

<211> 80

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7827

Lys Leu Arg Ile Trp Asn Lys Leu Trp Lys Arg Tyr Thr Arg Tyr Ala
 1 5 10 15

Thr Lys Met Ile Lys Glu Asp Trp Ala Ala Arg Arg Asp Phe Lys Ala
 20 25 30

Gln Pro Ile Arg Arg Gln Ala Pro Ala Leu Gly Arg Lys Leu Leu Arg
 35 40 45

Ile Ala Ala Ala Lys Pro Asn Asn Leu Glu His Phe Ser Arg Lys Ser
 50 55 60

Ile Gly Arg Ala Ala Glu Gly Lys Leu Gly Tyr Leu Lys Leu Leu Leu
 65 70 75 80

<210> 7828

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7828

Arg Tyr Arg Leu Ile Lys Lys Trp Tyr Arg Phe Leu Arg Arg His Lys
 1 5 10 15

His Val Val Lys Gln Leu Lys Leu Asn Leu Leu Thr Ala Ala Phe Asp
 20 25 30

<210> 7829

<211> 49

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7829

Ile Leu Arg Trp Leu Arg Arg Ile Phe Arg Leu Phe Arg Lys Ala Ala
 1 5 10 15

Pro Gly Leu Asn Arg Asn Cys Ile Glu Leu Ala Leu Ala Ala Lys Arg
 20 25 30

Leu Asn Cys Gly Ala Ala Arg Thr Arg Ile Leu His Lys Arg Ala His
 35 40 45

Arg

<210> 7830
 <211> 61
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7830

Lys Met Lys Tyr Leu Arg Arg Phe Phe Arg Arg Leu His Asn His Cys
 1 5 10 15

Pro Lys Ala Glu Leu Ala Phe Cys Trp Tyr Leu Trp Lys Lys Ile Lys
 20 25 30

Lys Lys Leu Cys Leu Ala Ala Lys Arg Ala Tyr Ala Leu Leu Ala Arg
 35 40 45

Thr Leu Ala Glu Cys Tyr Met Lys Thr Arg Thr Met Leu
 50 55 60

<210> 7831
 <211> 48
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7831

Lys Trp Arg Leu Tyr His Arg Phe Leu Lys Arg Met Lys Gln Gly Arg
 1 5 10 15

Arg Lys Cys Val Met Tyr Ala Leu Ala Leu Arg Ala Leu Leu Val Thr
 20 25 30

Cys Tyr Ala Arg Ser Asn Leu Phe Arg Leu Leu Ser Leu Ile Tyr Ala
 35 40 45

<210> 7832
 <211> 31
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7832

Arg Leu Arg Leu Phe Thr Lys Leu Met Lys Arg Leu Arg Arg Asp Cys
1 5 10 15

Ile Asn His Trp Leu Lys Ala Lys Thr Asn Leu Ala Leu Glu Ile
20 25 30

<210> 7833

<211> 45

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7833

Arg Leu Lys Leu Leu Arg Lys Met Phe Arg Met Phe Lys Lys Glu Trp
1 5 10 15

Arg Ala Asp Arg Asp Phe Tyr Phe Ala Lys Lys Trp Ile Pro Trp Ala
20 25 30

Ala Ala Pro Leu Leu Gly Lys Ile Leu His Cys Ala Leu
35 40 45

<210> 7834

<211> 53

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7834

Met Ile Lys Leu Leu Lys Arg Met Phe Lys Arg Leu Lys Gln Asn Pro
1 5 10 15

Arg Gly Asn His Lys Arg Arg Leu Leu Ala Tyr Arg Ala Trp Leu Pro
20 25 30

His Tyr Leu Leu Gln Ser Ala Lys Pro Ala Thr Tyr Ala Lys Glu Ile
35 40 45

Lys Lys Arg His Lys
50

<210> 7835
 <211> 46
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7835

Tyr Tyr Lys Ile Leu Lys Arg Phe Phe Lys Lys Met Arg Arg Ala Arg
 1 5 10 15

Cys Leu Phe Leu Leu Arg Tyr Cys Ala Ile Ala Val Ala Tyr Ala Lys
 20 25 30

Arg Ala Lys Ala Ala Lys Gln Ser Asp Thr Val Asp Ser Lys
 35 40 45

<210> 7836
 <211> 60
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7836

Lys Leu Arg Ile Phe Lys Lys Leu Phe Lys Met Leu Arg Thr Val Arg
 1 5 10 15

Asn Asn Arg Ala Arg Phe Ala Arg Asp Ser Val Lys Trp Gln Ala Tyr
 20 25 30

Gln Asp Phe Arg Asp Leu Arg Lys Phe Arg Lys Leu Ala His Val Ser
 35 40 45

Leu Ser Lys Leu Ala Thr Ala Arg Leu Gly Thr Ala
 50 55 60

<210> 7837
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7837

Arg Tyr Lys Met Trp Lys Lys Ile Met Lys Lys Tyr Pro Asn Leu Arg
 1 5 10 15

Ala Lys Ser Leu Lys Leu Trp Ala Cys Ala Thr Leu Ala Val Ala Lys
 20 25 30

Thr

<210> 7838
 <211> 66
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7838

Arg Leu Arg Leu Tyr Asn Arg Met Phe Arg Lys Leu Lys Lys Ala Val
 1 5 10 15

Pro Asp Ala Arg Gln Leu Ile Ala Lys His Leu Tyr Arg His Leu Met
 20 25 30

Val Lys Ala Arg Leu Lys Arg Leu His Ala Gly Leu Asp Tyr Gly Arg
 35 40 45

Cys Ser Leu Lys Ile Lys Arg Asp Gln Pro Ala Ile Asn Trp Arg Lys
 50 55 60

Lys Ile
 65

<210> 7839
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7839

Arg Ile Lys Phe Trp His Lys Met Trp Arg Phe Leu Ser Arg Tyr Pro
 1 5 10 15

Lys Ala Leu Ala Pro Cys Arg Leu Lys Lys Ala Met Ala

20

25

<210> 7840
 <211> 47
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7840

Phe Phe Arg Phe Leu Cys Arg Tyr Tyr Lys Arg Leu Arg Lys Leu Leu
 1 5 10 15

Arg Leu Pro Ala Arg His Ala Ala Arg Ala Leu His Cys Leu Arg Ile
 20 25 30

Arg Lys Gln Gln Lys Arg Val Leu Asp Lys Ala Lys His Thr Thr
 35 40 45

<210> 7841
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7841

Tyr Leu Lys Phe Leu Gln Arg Phe Tyr Lys Arg Leu Thr Arg Arg His
 1 5 10 15

Ala Ala Arg Ala Ala Ala
 20

<210> 7842
 <211> 75
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7842

Leu Phe Arg Leu Phe Asn Lys Phe Trp Arg Leu Tyr Lys Ser Leu Arg
 1 5 10 15

Leu Lys Ser Lys Thr Ala Lys Leu Ala Leu Arg Ser Arg Ala Thr Tyr

20

25

30

Glu Ile Leu Tyr Leu Ile Leu Met Ala Lys Lys Phe Lys Lys Ala Lys
 35 40 45

Trp Thr Lys Thr Arg His Ala Pro Ala Arg His Arg Thr Lys Lys Leu
 50 55 60

Asn Phe Lys Ala Ala Leu Leu Arg Ser Pro Gly
 65 70 75

<210> 7843

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7843

Phe Leu Arg Leu Leu Lys Lys Ile Tyr Lys Lys Phe Arg Asn Leu Lys
 1 5 10 15

Ala Met Leu Pro Tyr Asp Ala Ala Asp Met
 20 25

<210> 7844

<211> 46

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7844

Lys Leu Lys Trp Met Pro Lys Trp Leu Arg Leu Leu Lys Arg Lys Arg
 1 5 10 15

Arg Leu Gln Ser Arg Val Ser Ala Met Leu Lys Arg Pro Arg Leu Phe
 20 25 30

Asp Arg Ala Leu Val Val Lys Tyr Glu Ala Trp Cys Cys Asp
 35 40 45

<210> 7845

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7845

Lys Trp Lys Leu Leu Lys Arg Leu Leu Lys Trp Leu Ser Arg Trp Ala
1 5 10 15

Gly Lys His Thr
20

<210> 7846

<211> 38

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7846

Leu Met Arg Leu Phe Pro Arg Phe Ile Lys Lys Leu Arg Arg Ala Ala
1 5 10 15

Glu Leu Val Arg Thr Glu His Leu Tyr Arg Asp Tyr Leu Leu Lys Arg
20 25 30

Arg Cys Phe His Leu Cys
35

<210> 7847

<211> 74

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7847

Met Leu Arg Leu Leu Gln Lys Met Leu Arg Arg Met Lys Arg Phe Met
1 5 10 15

Pro Gly Leu Val Arg Lys Pro Glu Thr Tyr Leu Gln Tyr Leu Cys Leu
20 25 30

Thr Leu Ala Tyr Lys Lys Pro Leu Lys Lys Leu Arg Lys Leu Arg Glu
35 40 45

Lys Arg Gln Asn Lys Lys Ala Ile Met Arg Ala Gln Ala His Ala Thr
 50 55 60

Ser Ala Arg Pro Tyr His Leu Ala Lys Ala
 65 70

<210> 7848
 <211> 41
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7848

Phe Leu Lys Phe Leu Arg Arg Leu Phe Lys Lys Tyr Thr Thr Leu Lys
 1 5 10 15

Met Ser Gln Trp Asn Asp Leu Phe Arg Leu Trp Asp Arg Ala Arg Ala
 20 25 30

Leu Leu Phe Trp Lys Arg Arg Ala Leu
 35 40

<210> 7849
 <211> 27
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7849

Tyr Leu Arg Trp Ile Cys Lys Phe Tyr Lys Arg Leu Gln Ser Gly Asp
 1 5 10 15

Ala Leu Trp Leu Arg Arg Arg Leu Ala Leu Phe
 20 25

<210> 7850
 <211> 47
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7850

Arg Ile Lys Trp Leu Lys Arg Met Met Arg Met Trp Arg Thr Ala Ala
 1 5 10 15

His Ala Leu Arg Gln Leu Ala Asn Gly Ala Ala Asp Ala Ala Ala Lys
 20 25 30

Arg Lys Arg Arg Asp Met Trp Thr Met Trp Asn Asp Leu Ala Thr
 35 40 45

<210> 7851
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7851

Lys Leu Arg Trp Trp Asn Arg Met Leu Lys Phe Leu Arg Lys Ala Leu
 1 5 10 15

Arg Met Lys Asn Asp Phe Val Leu Ala Trp Ala Lys Val Val Pro Arg
 20 25 30

Lys Pro Leu
 35

<210> 7852
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7852

Arg Leu Arg Leu Phe Lys Lys Leu Leu Lys Leu Phe Thr Lys Ile Asp
 1 5 10 15

Cys Phe Lys Lys Phe Ala Leu Gln
 20

<210> 7853
 <211> 38
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7853

Phe	Leu	Lys	Leu	Tyr	Ser	Arg	Phe	Leu	Arg	Lys	Phe	Ser	Arg	Cys	Lys
1				5					10					15	

Lys	Lys	Leu	Glu	Ala	Lys	Trp	Asp	Met	Phe	Lys	Leu	Ala	Ala	Lys	Cys
			20					25						30	

Gly	Leu	Pro	Thr	His	Ala
					35

<210> 7854

<211> 37

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7854

Phe	Phe	Arg	Tyr	Phe	Arg	Arg	Leu	Trp	Arg	Arg	Leu	Cys	Arg	Gln	Arg
1				5					10					15	

Lys	Pro	Leu	His	Leu	Ala	Leu	Cys	Ala	Tyr	Arg	Leu	Gln	Arg	Ala	Phe
			20					25					30		

Gln	Asn	Leu	Arg	Arg
				35

<210> 7855

<211> 42

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7855

Arg	Ile	Lys	Leu	Leu	Lys	Lys	Leu	Leu	Lys	Phe	Phe	Lys	Ser	Gly	Leu
1				5					10					15	

Asp	Lys	Leu	Glu	Lys	Ser	His	Val	Trp	Lys	Leu	Trp	Gly	Thr	Asn	Arg
			20					25					30		

Leu	Thr	Asp	Leu	Leu	Lys	Asn	Lys	Arg	Ala
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

35

40

<210> 7856

<211> 39

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7856

Arg Leu Arg Leu Leu Arg Arg Met Ile Arg Trp Leu Asn Ser Arg Arg
 1 5 10 15

Ala Glu Leu Arg Val Ala Ser Ala Glu Ala Gln Val Lys Met Lys Gln
 20 25 30

Ala Gly Arg Gln Pro Asn Leu
 35

<210> 7857

<211> 56

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7857

Leu Leu Arg Leu Leu Cys Arg Leu Met Lys Arg Met His Arg Tyr Thr
 1 5 10 15

Leu Arg His Ala Gln Leu Ile Tyr Leu Pro Lys Arg Arg Trp Trp Arg
 20 25 30

Ala Ala Phe Lys Asp Cys Lys Val Arg Cys Ala Leu Ala Ser Arg Leu
 35 40 45

Lys His His Lys Ala Ser Ser Leu
 50 55

<210> 7858

<211> 60

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7858

Met Trp Arg Trp Phe Arg Lys Trp Tyr Arg Arg Leu Asn Arg Gly Arg
 1 5 10 15

Arg Lys Arg Asn Ala Pro Pro Thr Phe Leu Lys Leu Glu Glu Lys Ala
 20 25 30

Glu Ala Leu Gln Leu Ala Arg Ile Tyr Lys Lys Asp Val Phe Trp Arg
 35 40 45

Phe Leu Leu Ala Lys Lys Leu Leu Leu Lys Ala Phe
 50 55 60

<210> 7859

<211> 82

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7859

Leu Leu Arg Ile Trp Thr Arg Met Leu Arg Lys Met Arg Thr Leu Lys
 1 5 10 15

Arg Leu Leu Leu Ala Arg Tyr Arg Val Thr Arg His Lys Asn Ala Arg
 20 25 30

Ala Arg Thr His Cys Lys Lys Ala Lys Trp Asn Val Ile Leu Ala Lys
 35 40 45

Ala Arg Ala Ala Gly Glu Ala Met Glu Lys Ala Ala Phe Val Cys Lys
 50 55 60

Lys Arg Gly Gly Leu Lys Ile Leu Leu Ser Pro Met Arg Thr Phe Leu
 65 70 75 80

His Val

<210> 7860

<211> 98

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7860

Lys	Trp	Lys	Trp	Met	Cys	Arg	Tyr	Leu	Arg	Arg	Trp	Lys	Arg	Ile	Lys
1				5				10						15	

Thr	Trp	Gln	Gln	Thr	Asn	Ala	Ala	Ala	Leu	Arg	Leu	Asp	Leu	Ala	Pro
		20						25					30		

Ala	Leu	Leu	Arg	Arg	Phe	Lys	Met	Leu	Thr	Trp	Tyr	Ala	Asp	Tyr	Arg
		35					40					45			

Arg	Asn	Leu	Arg	Val	Leu	Leu	Phe	Arg	Ala	Lys	Gly	His	Phe	Lys	Leu
	50					55					60				

Leu	Gly	Ala	Lys	Tyr	Lys	Tyr	Ala	Met	Gln	Pro	Arg	Arg	Ala	Lys	Pro
65					70					75					80

His	Leu	Glu	Ala	Ala	Arg	His	Arg	Met	Gln	Gln	Asp	Leu	Ile	Arg	Tyr
				85					90					95	

Ala Arg

<210> 7861

<211> 31

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7861

Arg	Leu	Lys	Leu	Trp	His	Lys	Leu	Phe	Arg	Phe	Leu	Gln	Lys	Phe	Pro
1				5				10						15	

Thr	Arg	Arg	Leu	Lys	Ala	Ala	Leu	Ala	Lys	Arg	Thr	Tyr	Ala	Arg
			20					25					30	

<210> 7862

<211> 58

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7862

Lys Leu Lys Ile Leu Arg Arg Leu Leu Arg Leu Phe Cys Arg His Tyr
 1 5 10 15

Lys His Asn Leu Ala Arg Glu Cys Tyr Lys Gln Arg Phe Arg Gly Ala
 20 25 30

Arg Thr Ala Ser Ser Phe His Ser Ile Gly Lys Thr Ala Val Arg Arg
 35 40 45

Met Leu Gly Lys Lys Ala Leu Leu Ala Phe
 50 55

<210> 7863

<211> 48

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7863

Arg Trp Arg Trp Tyr Gln Arg Leu Met Arg Met Ile Lys Lys Phe Leu
 1 5 10 15

Val Ala Leu Gly Leu Lys His Ile His Lys Lys Glu Leu Arg Leu Ala
 20 25 30

Leu Leu Ala Val Leu Arg Val Tyr Ala Asp Pro Met Ala Arg Ala Val
 35 40 45

<210> 7864

<211> 31

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7864

Arg Tyr Arg Leu Phe Thr Arg Leu Ile Lys Arg Leu Gln Arg Arg Met
 1 5 10 15

Phe Ala Ala Tyr Ser Lys Arg Ala Arg Thr Ala Asp Ala Gln Val
 20 25 30

<210> 7865
 <211> 69
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7865

Phe Leu Lys Leu Phe Ser Lys Leu Ile Lys Met Leu Arg Arg Met Arg
 1 5 10 15

Cys Asp Asp Leu Asp Leu Phe Arg Lys Lys Ala Leu Met Ser Met Ala
 20 25 30

Ala Leu Lys Arg Gly Asp Lys Pro Leu Lys Ala Asn Arg Met Met Lys
 35 40 45

Lys Gln Lys Asn Arg Ala Val Gln Trp Ile Ala Tyr Trp Cys Leu Lys
 50 55 60

Ala Asn Lys Glu Ala
 65

<210> 7866
 <211> 66
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7866

Met Phe Lys Leu Leu Asn Arg Phe Ile Arg Arg Trp Pro Lys Val Gln
 1 5 10 15

Ala Ala Ala Leu Leu Leu Arg Pro Lys Cys Ala Arg Val Ser Tyr Cys
 20 25 30

Arg Ser Pro Asn Arg Arg Ala Asn Ala Ala Leu Leu Ala Ala Pro Gly
 35 40 45

Ala Lys His Lys Arg Leu Arg Glu Lys Ala Ala Asn Glu Cys Asp Ala
 50 55 60

Lys Thr

65

<210> 7867

<211> 61

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7867

Phe Trp Arg Phe Leu Ser Lys Leu Ile Lys Phe Met Arg Arg Lys Leu
 1 5 10 15

Tyr Leu Asp Ala Gln Arg Asp Leu Thr Lys Leu Leu Leu Lys Lys Asp
 20 25 30

Arg Ala Leu Leu Lys Asp Arg Ala Ile His Lys Gln Ser Lys Pro Cys
 35 40 45

Leu Arg Ala Arg Ala Gln Met Lys Lys Arg Lys Ala Met
 50 55 60

<210> 7868

<211> 51

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7868

Trp Leu Lys Leu Tyr Arg Arg Tyr Leu Lys Ile Leu Arg Arg Leu Met
 1 5 10 15

Tyr Ala Leu Arg Gly Leu Gly Met Arg Ala Lys Trp Tyr Arg Arg Lys
 20 25 30

Glu Leu Ile Val Met Arg Arg Asp Val Ala Asn Cys Lys Arg Leu Gly
 35 40 45

Ala Ile Gln
 50

<210> 7869

<211> 51

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7869

Lys Ile Lys Leu Ile Lys Arg Trp Leu Lys Leu Met Lys Gln Leu Phe
1 5 10 15

Lys Ala Arg Arg Arg Arg Ile Cys Leu Phe Cys Leu Pro Ala Ala Asn
20 25 30

Ala Leu Gln Phe Leu Ile Ala Leu Val Ser Arg Leu Leu Ser Gln Thr
35 40 45

Gly Ala Thr
50

<210> 7870

<211> 60

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7870

Arg Leu Arg Leu Leu Arg Lys Leu Phe Arg Leu Met Arg Arg Gly His
1 5 10 15

His Trp Ala Ala Gln Ala Glu Ile Glu Arg Val Leu Leu Tyr Ser Arg
20 25 30

Glu Phe Lys Cys Phe Ala Phe Ile Lys Phe Asn Arg Asp Leu Arg Leu
35 40 45

Ala Arg Arg Cys Lys Asn Leu Phe Leu Lys Lys Arg
50 55 60

<210> 7871

<211> 72

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7871

Leu Leu Lys Leu Leu Asn Lys Leu Ile Arg Lys Leu Pro Arg Pro Ala
 1 5 10 15

Trp Phe Gly Ile Gln Ala His Trp Ala Trp Arg Asn Gln Cys Lys Ala
 20 25 30

Ala Lys Met Val His Ala Arg Gln Ala Trp Asn Asp Arg Asn Leu Tyr
 35 40 45

Lys Phe His Leu Lys Ala Lys Leu Gly Arg Arg Gly Arg Lys Ile Lys
 50 55 60

Ser Ala Leu Leu Arg Leu Gln Gly
 65 70

<210> 7872
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7872

Ile Leu Arg Leu Leu Arg Arg Met Met Arg Lys Tyr Arg Lys Ala Gly
 1 5 10 15

Pro Phe Leu Arg Trp Leu
 20

<210> 7873
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7873

Arg Trp Lys Leu Leu Gln Arg Ile Phe Lys Trp Phe Arg Pro Arg Thr
 1 5 10 15

Leu Glu Leu Asp Arg Leu Leu
 20

<210> 7874

<211> 38
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7874

Lys Leu Lys Leu Phe Arg Arg Leu Phe Arg Phe Leu Ser Pro Lys Leu
 1 5 10 15

Leu Ala Lys Gly Asn Ala Tyr Lys Trp Met Tyr Leu Cys Val Val Lys
 20 25 30

Asn Lys Thr Arg Ile Lys
 35

<210> 7875
 <211> 51
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7875

Arg Leu Arg Leu Phe Lys Arg Tyr Phe Arg Arg Ile Cys Cys Cys Arg
 1 5 10 15

Arg Leu Gln Ala Ala Gly Trp Glu Arg Asp Leu Lys Asn Ala Ala Lys
 20 25 30

Leu Ala Cys Lys Lys Leu Pro Ala Arg Ile Asp Gly Leu Ala Gly Ala
 35 40 45

Asn Trp Gly
 50

<210> 7876
 <211> 42
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7876

Arg Met Arg Phe Phe Lys Lys Leu Leu Lys Lys Phe Gln Asn Tyr Arg

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<210> 7877
<211> 35
<212> PRT
<213> Artificial Sequence
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<220>
<223> Computer-generated peptide variant

<400> 7877

Lys Leu Lys Ala Val Ser Leu Leu Thr Ile Gly Leu Leu Lys Lys Arg
20 25 30

Glu Leu Pro
35

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<210> 7878
<211> 20
<212> PRT
<213> Artificial Sequence
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<220>
<223> Computer-generated peptide variant

<400> 7878

Leu Leu Arg Phe Ile Arg Arg Tyr Phe Arg Leu Leu Gln Lys Thr Lys
1 5 10 15

Asn Gln Asn Leu
20

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<210> 7879
<211> 58
<212> PRT
<213> Artificial Sequence
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<220>
<223> Computer-generated peptide variant

<400> 7879

Lys Leu Arg Leu Phe His Arg Ile Phe Lys Arg Tyr Lys Pro Arg Arg
 1 5 10 15

Lys Lys Lys Ala Asn Ile Ala Arg Ala Pro Met Met Lys Met Leu Trp
 20 25 30

Ala Gln Pro Arg Ala Leu Ala Leu Leu Trp Lys Thr Tyr Arg Asn Leu
 35 40 45

His Pro Tyr Arg Trp Gly Leu Arg Asp Trp
 50 55

<210> 7880

<211> 45

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7880

Lys Ile Lys Tyr Leu Lys Lys Phe Leu Lys Ile Phe Cys Lys Ile Ala
 1 5 10 15

Leu Lys Ala Ile Leu Gly Gln Lys Val Asp Trp Arg Ser Lys Phe Lys
 20 25 30

Asn Thr Thr Leu Trp Ala Ala Leu Arg Leu Met Lys Lys
 35 40 45

<210> 7881

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7881

Arg Phe Arg Ile Phe Thr Lys Phe Leu Arg Phe Leu Ser Arg Ala Arg
 1 5 10 15

Asn Leu Cys Ala
 20

<210> 7882
 <211> 50
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7882

Arg Phe Arg Leu Leu Thr Lys Trp Leu Arg Arg Leu Arg Thr Gly Arg
 1 5 10 15

Glu Pro Arg Ala Ala Thr Leu Asn Phe Arg Ala Gln Arg Ala Asn Phe
 20 25 30

Phe Met Ala Asp Lys Phe Lys Leu Lys Asp Ala Lys Glu Leu Arg Thr
 35 40 45

Thr Arg
 50

<210> 7883
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7883

Lys Leu Lys Leu Leu Arg Lys Leu Met Arg Phe Phe Cys Lys Thr Phe
 1 5 10 15

Leu Phe His Lys Cys Leu Lys Lys Arg Arg Asn Arg Ala Gly Ala Ala
 20 25 30

Leu Thr Leu
 35

<210> 7884
 <211> 82
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7884

Lys Phe Arg Phe Tyr Pro Arg Trp Met Lys Arg Leu Lys Lys Val Leu
 1 5 10 15

Arg Ala Lys Met Lys Gln Lys Ala His Gly Gly Arg Cys Trp Leu Leu
 20 25 30

Leu Ala Ile Ile Pro Ala Glu Val Ala Leu Arg Leu Lys Lys Asp Glu
 35 40 45

Glu Asp Leu Ala Leu Leu Leu Ser Arg Val Glu Leu Lys Lys Lys Val
 50 55 60

Pro Leu Ala Leu Ala Lys Trp Cys Leu Phe Met Gln Leu Ala Phe Ala
 65 70 75 80

Tyr Lys

<210> 7885
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7885

Lys Tyr Lys Leu Met Lys Lys Leu Phe Arg Leu Leu Arg Gln Leu Ala
 1 5 10 15

Leu Leu Arg Met Lys Arg Arg Leu Lys His Leu Val Pro
 20 25

<210> 7886
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7886

Arg Met Arg Leu Tyr Arg Arg Tyr Phe Lys Lys Leu Pro Asn Arg Ala
 1 5 10 15

His Lys Val Leu Lys Ile Arg Trp Leu Ala Ala Ala

20

25

<210> 7887
 <211> 31
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7887

Phe Met Arg Leu Phe Arg Arg Ile Leu Lys Arg Leu Lys Lys Phe Pro
 1 5 10 15

Cys Lys Arg Ala Ala Ala Thr His Glu Ala Ala Arg Leu Arg Val
 20 25 30

<210> 7888
 <211> 49
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7888

Lys Met Lys Tyr Trp His Lys Phe Phe Arg Leu Ile Gln Lys Leu Gly
 1 5 10 15

His Ala Lys Ala Asn Leu Asn Asp Ile Leu Ile Leu Lys Lys Val Lys
 20 25 30

Ala Lys Arg Leu Lys His Leu Lys Ala Ser Asp Arg Gly Arg Ala Ala
 35 40 45

Asn

<210> 7889
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7889

Leu Phe Arg Leu Tyr His Lys Ile Phe Lys Lys Leu Lys Gln Leu Lys

1 5 10 15

Phe Leu Ala Val
20

<210> 7890
<211> 31
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 7890

Arg Met Lys Leu Ile Arg Lys Leu Leu Lys Lys Leu Arg His Lys Ala
1 5 10 15

Cys Gln Arg Val Ala Lys Tyr Arg Phe Ala Ala Asp Ala Ala Leu
20 25 30

<210> 7891
<211> 25
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 7891

Leu Phe Lys Leu Trp Gln Lys Ile Met Arg Leu Leu Lys Ser Leu Lys
1 5 10 15

Ala Cys Pro Leu Asn Ala Thr Lys Glu
20 25

<210> 7892
<211> 24
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 7892

Arg Leu Lys Phe Ile Lys Lys Leu Leu Lys Lys Ile Lys Arg Ala Ala
1 5 10 15

Cys Ala Asn Lys Ala Leu Ala Ala

20

<210> 7893
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7893

Tyr Phe Lys Leu Trp His Arg Met Leu Arg Tyr Met Arg Lys Thr Asp
 1 5 10 15

Gln Leu Ser Leu Ala Lys Tyr Lys Leu Ala Val Arg Gly Glu Ala Arg
 20 25 30

Ala Lys Ala
 35

<210> 7894
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7894

Leu Leu Arg Ile Tyr Thr Arg Trp Trp Arg Lys Met Lys Lys Lys Trp
 1 5 10 15

Gly Leu Ala Ala
 20

<210> 7895
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7895

Arg Leu Arg Leu Met Lys Lys Ile Trp Arg Leu Leu Arg Gln Met Leu
 1 5 10 15

Ala Val Ser Cys

20

<210> 7896
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7896

Leu Leu Arg Leu Phe Thr Arg Leu Leu Lys Arg Tyr Lys Gln Gly Asn
 1 5 10 15

Lys Arg Lys Tyr Lys Leu Ala Tyr Ser
 20 25

<210> 7897
 <211> 52
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7897

Arg Leu Arg Trp Leu Cys Arg Leu Leu Arg Phe Ile Ser Thr Lys Ala
 1 5 10 15

Ala Arg Arg Gly Leu Lys Leu His Lys Leu Ser Ala His Pro Pro Thr
 20 25 30

Glu Pro Lys Arg Val Cys Leu Tyr Arg Ala Asn Trp Glu Lys Ala Lys
 35 40 45

Phe Lys Ala Ser
 50

<210> 7898
 <211> 37
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7898

Arg Phe Arg Phe Met Cys Lys Phe Leu Lys Lys Leu Asn Arg Cys Ala

<210>	7899
<211>	67
<212>	PRT
<213>	Artificial Sequence

<400> 7899

Lys Arg Lys Met Arg Ala Ala Ala Tyr Arg Lys Thr Asp Asn Arg Arg
20 25 30

Leu Leu Ala Leu Val Ala Trp Leu Pro Tyr Lys Val Lys Asp Tyr Lys
50 55 60

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<210> 7900
<211> 29
<212> PRT
<213> Artificial Sequence
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<400> 7900

Val Met Tyr Arg Gly Thr His Lys Met Thr Thr Arg Leu
20 25

<210> 7901
 <211> 51
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7901

Ile Leu Lys Met Met Pro Lys Phe Leu Arg Lys Leu Lys Arg Leu Leu
 1 5 10 15

Lys Arg Arg Tyr Pro Gly Thr Ala Glu Pro Arg Asp Leu Arg Arg Lys
 20 25 30

Leu Arg Arg Ile Val Leu Lys Leu Leu Ile Val Arg Ala His His Lys
 35 40 45

Thr Leu His
 50

<210> 7902
 <211> 47
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7902

Tyr Leu Lys Phe Leu Pro Arg Leu Leu Lys Lys Trp Ser Lys Leu Leu
 1 5 10 15

Arg Cys Arg Val Arg Ile Lys Phe Ala Val Lys Leu Phe Phe Ile Leu
 20 25 30

Ala Arg Ser Glu Phe Gly Arg Ala Tyr Arg Tyr His Ala Lys Trp
 35 40 45

<210> 7903
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7903

Tyr Leu Arg Phe Tyr His Arg Leu Met Lys Arg Leu Arg Lys Lys Ala
 1 5 10 15

Ala Asp Gly Phe Leu
 20

<210> 7904
 <211> 57
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7904

Ile Leu Arg Leu Phe Lys Arg Leu Phe Arg Lys Trp Asn Arg Leu Arg
 1 5 10 15

Arg Arg Gln Phe Ala Arg Leu Tyr Ala Arg Asp Tyr Leu Gln Arg Lys
 20 25 30

Leu Ala Glu Cys Trp Lys Ala Glu Met Ser Met Ala Cys Arg Glu Ala
 35 40 45

Met Thr Leu His Arg Met Lys Lys His
 50 55

<210> 7905
 <211> 62
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7905

Arg Leu Lys Trp Phe Lys Lys Ile Leu Arg Leu Leu Ser Lys Arg Pro
 1 5 10 15

Ile Ser Leu Leu Leu Ala Lys Lys Ala Ala Ala Leu Gln Asp Val Lys
 20 25 30

Tyr Phe Lys Trp Met Ile Cys Lys Lys Ala Arg Lys Ala Ala Tyr Cys
 35 40 45

Cys Arg Phe Glu Lys Thr Leu Glu Thr Asn Ala Gly Leu Asp

50

55

60

<210> 7906

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7906

Lys Trp Arg Trp Met Lys Lys Leu Trp Lys Phe Leu Gln Lys Arg Leu
 1 5 10 15

Leu Arg Ala Thr Arg Leu Ala Thr His Ile Ser
 20 25

<210> 7907

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7907

Lys Leu Arg Phe Tyr His Lys Ile Tyr Lys Leu Leu His Ser Leu Ala
 1 5 10 15

Arg Thr Lys Arg
 20

<210> 7908

<211> 47

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7908

Arg Met Lys Leu Met Pro Lys Phe Leu Arg Phe Trp Arg Arg Thr Ala
 1 5 10 15

Leu Ala Ala Arg Glu Met Glu Ala Cys Gln Ala Leu Arg Gly Ala Leu
 20 25 30

Tyr Thr Asn Lys Glu Arg Gly Tyr Ala Gln Ala Ala Lys Leu Arg

35

40

45

<210> 7909

<211> 59

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7909

Arg Leu Lys Phe Leu Arg Arg Phe Met Arg Lys Phe Lys His Phe Lys
 1 5 10 15

Ala Ala Ala Ala Leu Ala Lys Ser Lys Asn Asn Cys Pro Cys Ala Ala
 20 25 30

Ala Leu Phe Ser Lys Arg Pro Ser Ala Ser Cys Pro Val Gln Lys Ala
 35 40 45

Lys Arg Leu Pro Asn Leu Glu Arg Met Leu Lys
 50 55

<210> 7910

<211> 37

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7910

Phe Leu Lys Met Leu Arg Lys Phe Phe Lys Arg Phe Arg Arg Ala His
 1 5 10 15

Ala Tyr Asp Lys Glu Ala Leu Leu Trp Arg Leu Arg Ala Ala Trp Gly
 20 25 30

Ile Cys Pro Ala Lys
 35

<210> 7911

<211> 77

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7911

Lys Met Lys Leu Leu Arg Arg Leu Trp Lys Phe Ile Thr Arg Leu Trp
 1 5 10 15

Val Met Gly Lys Leu Lys His Lys Ala Leu His Gln Leu Val Leu Gly
 20 25 30

Pro Ile Gln Lys Lys Leu Arg His Arg Ser Arg Ser Lys Lys Lys Phe
 35 40 45

Gln Lys Asp Cys His Arg Ala Ala Ala Leu Leu Arg Phe Leu Trp Trp
 50 55 60

Met Arg Glu Lys Trp Lys Leu Leu Ser Gly Ala Gln Arg
 65 70 75

<210> 7912

<211> 38

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7912

Lys Leu Lys Ile Leu Lys Lys Tyr Tyr Lys Leu Ile Arg Lys Ile Lys
 1 5 10 15

Ala Asn Ala Arg Ala Trp Met Arg Leu Leu Leu Asn Arg His Asn Trp
 20 25 30

Tyr Ala Asn Val Lys Leu
 35

<210> 7913

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7913

Arg Ile Lys Phe Trp Gln Arg Phe Leu Arg Leu Ile Arg Asn Ala Leu
 1 5 10 15

Lys Ala Lys Arg Tyr Thr Lys Leu Gln Met Asn Ala Thr
 20 25

<210> 7914
 <211> 43
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7914

Arg Met Lys Leu Ile Arg Arg Leu Ile Lys Leu Met Arg Lys Arg Val
 1 5 10 15

Phe Pro Trp Arg Leu Ser Ala Leu Thr Leu Lys Asp Leu Ala Leu Tyr
 20 25 30

Arg Leu Val Arg Asn Ser Glu Glu Thr Leu Lys
 35 40

<210> 7915
 <211> 60
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7915

Leu Tyr Arg Tyr Phe Arg Arg Trp Trp Arg Arg Phe Asn Lys Arg Pro
 1 5 10 15

Cys Arg Met Leu Lys Met Ala Gln Arg Lys Leu Ser Leu Ala Leu Lys
 20 25 30

Ser Lys Arg Ser Thr Glu Ala Lys Ala Val Ser Ala Cys Leu Arg Lys
 35 40 45

Phe Ala Ala Glu Ile Val Ile Arg Leu Ala Lys His
 50 55 60

<210> 7916
 <211> 26
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7916

Lys Ile Lys Tyr Leu Ser Arg Leu Leu Arg Leu Tyr Arg His Leu Phe
 1 5 10 15

Tyr Arg Arg Leu Arg Val Arg Arg Leu Leu
 20 25

<210> 7917

<211> 73

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7917

Leu Ile Lys Tyr Ile Lys Arg Ile Ile Lys Arg Met Lys Lys Leu Ala
 1 5 10 15

Arg Lys Arg Ser Gly Arg Arg Pro Thr Leu Arg Leu Ala Cys Ala Glu
 20 25 30

Leu Arg Cys Glu Pro Ile Arg Pro Asp Ala Ala Leu Trp Ala Leu Ala
 35 40 45

Lys Lys Arg Gly Met Val Asn Arg Ile Leu Lys His Tyr Ala Val Leu
 50 55 60

Leu Arg Phe Thr Pro Ala Gly Tyr Lys
 65 70

<210> 7918

<211> 76

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7918

Phe Trp Lys Phe Tyr His Arg Leu Phe Lys Leu Phe Arg Arg Glu Lys
 1 5 10 15

Phe Phe Leu Leu Val Thr Arg Leu Asp Val Leu Arg Leu Glu Gly Asn

Phe His Lys Pro Ala Leu Arg Gly Lys Gln Leu Gly Leu Arg Arg Asn
35 40 45

Glu Leu Lys Arg Met Phe Lys Leu Ala Lys Tyr Ala Lys Phe Ala Trp
50 55 60

Leu Met Ala Ala Pro Ala Leu Lys Ala Asn Ala Val
65 70 75

<210>	7919
<211>	80
<212>	PRT
<213>	Artificial Sequence
<220>	
<223>	Computer-generated peptide variant
<400>	7919

Arg	Phe	Arg	Leu	Ile	Lys	Lys	Phe	Met	Lys	Arg	Ile	Lys	Cys	Ile	Asp
1				5					10					15	
Leu	Leu	Leu	Lys	Lys	His	Ala	Tyr	Ala	Ile	Ala	Lys	Ala	Pro	Leu	Arg
			20					25					30		
Lys	Val	Met	Asp	Met	Phe	Leu	Ala	Thr	Lys	Trp	Tyr	Thr	Leu	Ala	Ala
		35					40					45			
Arg	Ala	Ala	Leu	Val	Ala	Trp	Leu	Ala	Thr	Arg	His	Asp	Ala	Met	Thr
	50					55					60				
Gly	Ile	Leu	Val	Phe	Arg	Arg	Ala	Lys	Ile	Phe	Ala	Gln	Ala	Arg	Ala
65					70					75					80

<210>	7920
<211>	46
<212>	PRT
<213>	Artificial Sequence
<220>	
<223>	Computer-generated peptide variant
<400>	7920

Lys Leu Lys Phe Met Asn Lys Ile Phe Lys Tyr Phe Asn Lys Ala Arg
1 5 10 15

Pro Leu Ala Thr Leu Ser Ala Asp Asp Lys Gln Arg Leu Lys Ala Ala
 20 25 30

Leu Phe Lys Lys Asp Trp Glu Arg Lys Leu Gly Arg His Arg
 35 40 45

<210> 7921

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7921

Arg Leu Arg Leu Leu His Arg Leu Phe Lys Arg Leu Arg Lys Cys Leu
 1 5 10 15

Arg Thr Val Ala Leu Pro Lys Arg Ala Arg Asn Ala Pro
 20 25

<210> 7922

<211> 58

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7922

Lys Phe Arg Phe Leu Lys Lys Phe Phe Arg Arg Leu Arg Asn Lys Thr
 1 5 10 15

Ala Trp Ala His Leu Ala Leu Leu Gly Ile Cys Thr Lys Leu Val Ser
 20 25 30

Ala Ala Ser Ser Lys Val Ile Lys Cys His Lys Glu Ala Leu Arg Thr
 35 40 45

Arg Cys Arg Arg Ala Arg Lys Lys Gly His
 50 55

<210> 7923

<211> 37

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7923

Phe	Leu	Arg	Phe	Leu	Ser	Lys	Leu	Leu	Arg	Lys	Leu	Gln	Lys	Cys	His
1				5					10					15	

Lys	Ser	Arg	Ala	Met	Thr	Ala	Arg	Ala	Gln	Ala	Leu	Arg	Leu	Lys	Ala
			20					25					30		

Lys	Ser	Ser	Ser	Phe
				35

<210> 7924

<211> 50

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7924

Arg	Leu	Lys	Met	Phe	Lys	Arg	Tyr	Phe	Lys	Arg	Met	Lys	Arg	Cys	Tyr
1				5					10					15	

Ile	Leu	Phe	Ala	Leu	Lys	Tyr	Lys	Ala	Tyr	Gln	Leu	Thr	Thr	Lys	Glu
			20					25					30		

Arg	Ala	Leu	Lys	Asp	Leu	Leu	Leu	Leu	Phe	Trp	Leu	Ala	Leu	Ser	Gly
		35					40					45			

Ser	Ile
	50

<210> 7925

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7925

Lys	Trp	Arg	Ile	Leu	Lys	Lys	Leu	Phe	Lys	Leu	Trp	Pro	Lys	Tyr	Arg
1				5					10					15	

Lys	Arg	Val	Ala	Asn	Ala	Leu	Arg	Thr	Ile	Pro	Ala	Leu
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

20

25

<210> 7926
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7926

Leu Tyr Lys Leu Leu Arg Arg Met Ile Arg Leu Tyr Lys Arg Arg Lys
 1 5 10 15

Pro Asn Asn Leu Ala Leu Gln Tyr Cys Lys Leu Leu Ala
 20 25

<210> 7927
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7927

Leu Leu Arg Leu Leu Lys Lys Phe Phe Arg Phe Leu Arg Lys Thr Cys
 1 5 10 15

Tyr Ile Leu Leu Pro Lys Cys Ile Leu Arg Leu Glu
 20 25

<210> 7928
 <211> 60
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7928

Lys Leu Lys Leu Leu Arg Arg Met Met Lys Lys Leu Asn Arg Trp Gly
 1 5 10 15

Ala Thr Ala Lys Pro Lys Ile Pro Thr Gln Ala Leu Trp Asp Asn Trp
 20 25 30

Ser Cys Asp Gly Trp Arg Arg Ala Gln Arg Arg Arg Ala Arg Leu Lys

35

40

45

Arg Leu Leu Val Arg Asn His Phe Arg Cys Ala Ala
 50 55 60

<210> 7929
 <211> 39
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7929

Phe Phe Arg Trp Ile Lys Lys Leu Met Arg Arg Met Ser Arg Ala Arg
 1 5 10 15

Ile Leu Arg Arg Tyr Ala Ala Asp Ala Lys Gly Ala Gly Pro Pro His
 20 25 30

Phe Glu Leu Leu Leu Arg Ala
 35

<210> 7930
 <211> 37
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7930

Arg Met Arg Phe Leu Cys Arg Leu Phe Lys Lys Trp Pro Arg Thr Ala
 1 5 10 15

Lys Leu Asn Leu Arg Asp Gln Ala Lys Cys Leu Phe Arg Ala Phe Gln
 20 25 30

Pro Met Leu Lys Ala
 35

<210> 7931
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7931

Arg Ile Arg Leu Tyr Ser Arg Leu Leu Lys Lys Leu His Lys Lys Leu
1 5 10 15

Ala Gly Leu Lys Met Asp Lys Arg Arg Cys Ala Met Arg Pro Lys Ala
20 25 30

Asp Gln Gly Leu Gly Tyr Gly His
35 40

<210> 7932

<211> 69

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7932

Lys Phe Lys Tyr Leu Pro Arg Leu Met Lys Ile Leu Thr Pro Ala Leu
1 5 10 15

Ala Pro Ala Gly Ile Arg Leu Leu Arg Pro Leu Arg Glu Pro Ala Met
20 25 30

Lys Arg Lys Arg His Leu Asp His Lys Leu Arg Trp Arg Trp Val Ala
35 40 45

Cys Ala Ala Asn Ile His Arg His Leu Cys Asp Ala Glu Leu Phe Asp
50 55 60

Lys Ala Arg Phe Leu
65

<210> 7933

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7933

Lys Tyr Arg Leu Phe Arg Arg Met Leu Lys Tyr Trp Lys Ser Lys Ala
1 5 10 15

Leu Leu Val Val
20

<210> 7934
<211> 48
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 7934

Arg Leu Lys Tyr Met Arg Arg Leu Leu Lys Met Leu Cys Arg His Arg
1 5 10 15

Glu Lys Asn Arg Arg Glu Pro Ala Leu Ala Val Leu Ala Ala Glu Arg
20 25 30

Gly Leu Arg Arg Lys Ala Pro Ala Pro Tyr Ala Phe Arg Tyr His Arg
35 40 45

<210> 7935
<211> 34
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 7935

Lys Leu Arg Met Met Arg Lys Leu Leu Arg Arg Trp Lys Asn Met Leu
1 5 10 15

Gln Gln Asp Thr Leu Leu Leu Ala His Arg Leu Ile Ala Lys Lys Val
20 25 30

Asp Tyr

<210> 7936
<211> 44
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 7936

Leu Leu Lys Tyr Leu Pro Lys Phe Leu Arg Lys Leu Lys Lys Phe Asp
 1 5 10 15

Ala Pro Phe Lys Leu Leu Ala Arg Leu Phe Tyr Lys Lys Glu Ile Arg
 20 25 30

Gln Lys Asp Lys Leu Arg Ala Phe Ala Cys Cys Val
 35 40

<210> 7937
 <211> 26
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7937

Trp Trp Lys Leu Leu Thr Lys Leu Phe Arg Arg Trp Ser Arg Leu Lys
 1 5 10 15

Pro Met Ala Leu Ala Leu Lys Asn Lys Asn
 20 25

<210> 7938
 <211> 49
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7938

Arg Met Arg Phe Phe His Lys Leu Leu Lys Leu Phe Arg Asn Ala His
 1 5 10 15

Arg Ala Ala Val Ala Ala Met Ala Lys Leu Leu Arg Lys Arg Val Leu
 20 25 30

Asp Leu Arg Gly Met Ile Leu Lys His Lys Val Met Tyr Asp Leu Met
 35 40 45

Trp

<210> 7939

<211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7939

Lys Tyr Arg Leu Phe Lys Lys Tyr Leu Lys Leu Leu Cys Lys Lys Arg
 1 5 10 15

Ser Leu Lys Ala Asp Trp Leu Gly Met Tyr Lys Val Lys Leu Asn Ala
 20 25 30

Leu His Tyr Tyr
 35

<210> 7940
 <211> 43
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7940

Arg Leu Lys Leu Phe Lys Arg Trp Ile Arg Arg Leu Lys Arg Leu Ser
 1 5 10 15

Lys Cys Cys Arg Lys Ala Gly Trp Ala Arg Arg Arg Asn Leu Leu Ile
 20 25 30

Leu Val Pro Leu Ile Ala Arg Gly Thr Ala Arg
 35 40

<210> 7941
 <211> 31
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7941

Leu Leu Lys Leu Trp Arg Arg Trp Leu Lys Ile Leu Arg Lys Leu Ile
 1 5 10 15

Ala Phe Leu Leu Lys His Lys Trp Val Lys Lys Cys Lys Ala Ser

20

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<210> 7942
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7942

Trp Leu Arg Phe Tyr Arg Arg Phe Ile Arg Arg Leu Lys Ser Ala Ala
 1 5 10 15

Lys His Gln Leu Leu Arg Ala Trp
 20

<210> 7943
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7943

Lys Trp Arg Trp Leu His Arg Met Leu Arg Leu Tyr Asn Lys Leu Ser
 1 5 10 15

Ala Lys Asp Leu Glu
 20

<210> 7944
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7944

Arg Trp Lys Leu Leu Ser Lys Leu Leu Arg Leu Phe Ser Cys His Lys
 1 5 10 15

Ser Arg Lys Asn His Phe Leu Leu Lys Arg Lys Ala Glu Phe Ala Val
 20 25 30

<210> 7945

<211> 46
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7945

Lys Phe Arg Leu Leu Ser Arg Leu Met Arg Ile Leu Arg Pro Lys Ala
 1 5 10 15

Glu Lys Met Lys Leu Leu Lys Ala Phe Asp Trp Leu Lys Ser Trp Arg
 20 25 30

Asp Leu Phe Arg Lys Glu Leu Ala Pro Ser Gly Pro Leu Arg
 35 40 45

<210> 7946
 <211> 44
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7946

Arg Met Lys Phe Tyr Arg Arg Trp Ile Arg Arg Leu Thr Arg Ala Arg
 1 5 10 15

Ala Asp Ala Leu Trp Gln Ala Thr Glu Ala Ala Lys Cys Cys Ala Pro
 20 25 30

Leu Arg Phe Ala Arg Pro Leu Ala Asp Lys Cys Trp
 35 40

<210> 7947
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7947

Phe Leu Arg Leu Phe Ser Arg Phe Leu Arg Leu Tyr Lys His Lys Cys
 1 5 10 15

Leu Gln Ala Ala Arg Val Asp Lys Arg Leu Ala Val Thr Arg Gly Lys

20

25

30

Phe Cys Val Arg
35

<210> 7948

<211> 78

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7948

Phe Leu Arg Phe Ile Thr Arg Leu Phe Arg Lys Phe Arg Lys Ala Leu
1 5 10 15

Arg Met Lys Leu Lys Leu Lys Val Leu Leu Leu Gly Lys Ala Lys Ala
20 25 30

Lys Pro Leu Arg Lys Arg Lys Ser Pro Cys Ala Val Met Ala Arg Gly
35 40 45

Glu Cys Gln Met Glu Ala Lys Arg Gln Lys His Ala Phe Tyr Ala Trp
50 55 60

Asn Asp Gln Asn Ala Cys Ala Leu Ile Arg Glu Leu Tyr Glu
65 70 75

<210> 7949

<211> 52

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7949

Leu Tyr Arg Leu Trp Arg Lys Phe Leu Arg Lys Leu Pro Pro Lys Leu
1 5 10 15

Leu Arg Ile Ala Trp Arg Leu Gly Pro Lys Tyr Arg Arg Lys Tyr Leu
20 25 30

Gln Ala Asp Gln Ser Lys Glu His Leu Gly Leu Ala Gln Lys Leu Leu
35 40 45

Lys Leu Lys Leu
50

<210> 7950
<211> 56
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 7950

Lys Leu Arg Phe Leu Gln Lys Tyr Leu Lys Arg Ile Gln Thr Lys Lys
1 5 10 15

Arg Glu Leu Gln Pro Leu Lys Ile Ile Lys Lys Phe Arg Lys Cys His
20 25 30

Tyr Met Leu Trp Arg Leu Leu Leu Lys Arg Ile Tyr Ala Ile Leu Asp
35 40 45

Ala Ala Glu His Ile Leu Ala Pro
50 55

<210> 7951
<211> 69
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 7951

Leu Ile Lys Phe Ile Ser Arg Leu Leu Arg Lys Leu Arg Lys Leu Lys
1 5 10 15

Tyr Met Lys Ile Ala Met Leu Val Ala Ala Arg Ala Ala Val Ser Leu
20 25 30

Arg Asn Lys Lys Ser Tyr Lys Asp Phe His Val Arg Tyr Lys Pro Asn
35 40 45

Leu Ala Lys Arg Arg Gln Phe Thr Trp Arg Ile Val Leu His Ser Ala
50 55 60

Ile Arg Lys His Lys

65

<210> 7952

<211> 42

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7952

Leu	Trp	Lys	Leu	Tyr	His	Arg	Leu	Phe	Lys	Leu	Tyr	His	His	Leu	Arg
1				5					10					15	

Arg	Trp	Leu	Gly	Pro	Leu	Lys	Lys	Trp	Ile	Val	Leu	Lys	Arg	Ala	Lys
			20					25					30		

Val	Ala	Leu	His	Arg	Thr	Trp	Leu	His	Arg
		35					40		

<210> 7953

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7953

Arg	Leu	Arg	Phe	Met	Arg	Lys	Tyr	Leu	Lys	Leu	Ile	Pro	Gln	Tyr	Ala
1				5					10					15	

Ala	Leu	Leu	Lys	Asp	Lys	Asn	Leu	Arg	Ile	Glu	Val	Asp	Arg	Met	Leu
			20					25					30		

<210> 7954

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7954

Leu	Phe	Lys	Leu	Ile	Lys	Arg	Trp	Met	Lys	Leu	Leu	Arg	Asn	Thr	Glu
1				5					10					15	

Arg	Lys	Ala	Ala	Leu	Tyr	Thr	Arg
-----	-----	-----	-----	-----	-----	-----	-----

20

<210> 7955
 <211> 31
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7955

Lys Phe Arg Trp Phe Thr Arg Leu Leu Arg Tyr Ile Lys Arg Asp Ile
 1 5 10 15

Leu Tyr Leu Lys Lys Leu Met Glu Phe Ala Ala Arg Leu Asn Lys
 20 25 30

<210> 7956
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7956

Leu Leu Lys Leu Leu Ser Lys Ile Met Lys Arg Phe Lys Lys Ala Ala
 1 5 10 15

Thr Ser Lys Arg Leu Ala Leu Lys Trp Val Gly Met Lys Gly Gly Ile
 20 25 30

Arg Ser Ile Arg Gly Val Asn Leu
 35 40

<210> 7957
 <211> 31
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7957

Arg Leu Arg Leu Phe Arg Arg Phe Met Arg Arg Phe Asn Pro Leu Arg
 1 5 10 15

Ile Asn Leu Ala Arg Thr Ala Leu Arg Arg Pro Glu Ala Lys Leu

20

25

30

<210> 7958
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7958

Arg Ile Arg Leu Met Thr Arg Phe Met Arg Leu Leu Lys Pro Ser Ile
 1 5 10 15

Gly Leu Lys Val Leu Trp Asp Arg Leu Leu Arg Ala Lys Ala Lys Gly
 20 25 30

Ala Lys

<210> 7959
 <211> 66
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7959

Leu Met Lys Leu Trp His Lys Met Leu Lys Leu Phe Lys Lys Lys Met
 1 5 10 15

Leu Arg Lys Ala His Thr Leu Ala Ala Ala Pro Trp Val Ala Thr His
 20 25 30

Thr Asn Lys Arg Leu Arg Tyr Arg Lys Val Phe Ala Leu Phe Ala Lys
 35 40 45

Arg Lys Cys Lys Leu Asn Met Asn Lys His Gln Ala Gln Ala Ala Arg
 50 55 60

Met Lys
 65

<210> 7960
 <211> 22
 <212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7960

Arg Trp Arg Phe Tyr Ser Lys Leu Leu Arg Arg Leu Arg His Ala Trp
1 5 10 15

Leu Arg Ile Gly Met Leu
20

<210> 7961

<211> 87

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7961

Leu Trp Lys Ile Leu His Arg Phe Leu Lys Lys Phe Cys Thr Ile His
1 5 10 15

Ala Asn Asp Met Arg Lys Asp Val Gly Met Asp Arg Ala Arg Ala Ala
20 25 30

Ala Arg Asn Lys Thr Cys Asn Ala Leu Ala Glu Ser Leu Ile Ile Ala
35 40 45

Lys Met Lys Lys Gly Lys Ser Lys Lys Asn Glu Ala Thr Ala Gln Lys
50 55 60

Arg Val Tyr Gly Lys Leu Arg Leu Ala Arg Leu Trp Leu Ala Leu Ala
65 70 75 80

Leu Pro Tyr Lys Ala Arg Ser
85

<210> 7962

<211> 45

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7962

Leu Met Lys Ile Tyr Lys Arg Leu Tyr Lys Leu Leu Arg Thr Lys Leu
 1 5 10 15

Lys Asn Leu Val Glu Ser Cys Leu Leu Tyr Arg Leu Leu Val His Lys
 20 25 30

Arg Lys Tyr Asn Cys Ala Ala Gln Ala Trp Gly Ala Lys
 35 40 45

<210> 7963

<211> 74

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7963

Arg Phe Lys Leu Leu Ser Lys Leu Trp Arg Lys Phe Cys Lys Pro Asn
 1 5 10 15

Leu Gly His Tyr Leu Ala Lys Pro Phe Cys Leu Ile Ala Arg Asn Thr
 20 25 30

His Arg Arg Ala Lys Lys Val Leu Leu Lys Ala Ala Cys Leu Ser
 35 40 45

His Ala Ser Arg Asp Cys Lys Ile His Ala Thr Arg Arg Trp Cys Ala
 50 55 60

Lys Cys Lys Val Lys Arg Ala Ala Ala Ser
 65 70

<210> 7964

<211> 85

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7964

Arg Leu Lys Leu Ile Arg Arg Trp Leu Arg Leu Phe Lys Thr Gly Ala
 1 5 10 15

Tyr Ala Arg Cys Arg His Arg Gly Arg Gln Arg Ala Leu Lys Val Leu

20

25

30

Arg Gly Arg Arg Leu Glu Gln Asn Leu Lys Leu Leu Gln Lys Met Leu
 35 40 45

Ala Leu Met Glu Asp Leu Leu Cys Ala Leu Asp Gly Arg Asn Gly Val
 50 55 60

Arg Lys Asp Ser Cys Lys Lys Gln Lys Leu Gly Trp Lys Phe Lys Tyr
 65 70 75 80

Leu Ala Pro Ala His
 85

<210> 7965

<211> 72

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7965

Lys Leu Lys Leu Leu Lys Lys Ile Leu Lys Leu Leu Arg Ser Lys Leu
 1 5 10 15

Phe Trp Cys Leu Trp Tyr Pro Lys Ala Ile Glu Arg Ser Arg Leu Tyr
 20 25 30

Lys His Ala Leu Ala Val Arg Arg His Ala Ala Leu Leu Leu Lys Thr
 35 40 45

Ala Ala Lys Leu Asn Ser Met Thr Thr Ala Ser Ile Phe Lys His His
 50 55 60

Met Arg Trp Ala Ala Asn Leu Arg
 65 70

<210> 7966

<211> 45

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7966

Lys Trp Arg Leu Leu Arg Lys Leu Leu Lys Lys Phe His Arg Pro Val
 1 5 10 15

Cys Ala Arg Ala Thr Met Arg Ala Asn Trp Lys Met Tyr Met Asn Met
 20 25 30

Leu Gln Ala Ala Thr Gly Leu Tyr Lys Ile Lys Leu Arg
 35 40 45

<210> 7967
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7967

Arg Phe Arg Leu Tyr Lys Lys Leu Leu Arg Lys Phe Ser Ser Lys Ala
 1 5 10 15

Trp Ser Arg Ala Val Ala Ser
 20

<210> 7968
 <211> 59
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7968

Lys Phe Lys Leu Leu Arg Arg Leu Leu Arg Leu Ile Lys Lys Ala Leu
 1 5 10 15

Arg Tyr Tyr Gly Ala Cys Arg Leu Glu Cys Arg Lys Ala Ala Trp Gln
 20 25 30

Thr Thr Lys Trp Ala Met Leu Ala Gly Trp Ala His Phe Arg Arg Ala
 35 40 45

Asp Phe Asn Tyr His Lys Lys Ala Ser Arg Asp
 50 55

<210> 7969

<211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7969

Arg Leu Arg Trp Tyr Lys Arg Leu Leu Arg Arg Leu Pro Arg Arg Lys
 1 5 10 15

Asp Leu Phe Lys Thr Ala Leu Leu His
 20 25

<210> 7970
 <211> 90
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7970

Lys Leu Lys Met Tyr Lys Lys Leu Leu Lys Lys Phe Lys Ser Ser Ser
 1 5 10 15

Leu Arg Arg Lys Lys Cys Ala Val Gly Lys Asn Lys Arg Val Ile Asn
 20 25 30

His Leu Glu Pro Lys Arg Leu Gln Gln Leu Val Asp Lys Lys Gly Arg
 35 40 45

Asn Val Met Leu Arg Tyr Ala Trp Ala Gly Leu Arg Leu Pro Gly Trp
 50 55 60

Ile Tyr Leu Lys Lys Leu Gln Ala Lys Asn Lys Leu Lys Lys Asp Asn
 65 70 75 80

Leu Val Asn Leu Leu Asp Ala Lys Lys Arg
 85 90

<210> 7971
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7971

Met Leu Lys Leu Leu Thr Lys Leu Tyr Lys Lys Phe Lys Arg Tyr Leu
1 5 10 15

Gly Val Met Ala Arg Arg Gly Met
20

<210> 7972

<211> 42

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7972

Lys Leu Lys Ile Phe Ser Arg Phe Leu Lys Leu Phe Lys Lys Cys Pro
1 5 10 15

Leu Lys Arg Leu Leu Ser Leu Arg Ile Arg Leu Met Arg Val Asn Ala
20 25 30

Leu Ile Leu Thr Pro Ser Lys Arg Gln Leu
35 40

<210> 7973

<211> 45

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7973

Ile Trp Arg Phe Leu Asn Arg Tyr Leu Arg Leu Trp Lys Thr Arg Leu
1 5 10 15

Ala His Arg Leu Pro Cys Lys Lys Ala Ala Asp Asp Pro Leu Met Ala
20 25 30

Arg Thr Thr Val Arg Leu Leu Ala Lys Val Leu Met Thr
35 40 45

<210> 7974

<211> 46

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7974

Lys Tyr Lys Ile Met Arg Arg Leu Leu Arg Lys Leu Lys Thr Gln Lys
1 5 10 15

Lys Asp Asn Trp Ala Ile Ala Ala Leu Ala Asp Glu His Leu Pro Ser
20 25 30

Phe Leu Arg Val Arg Lys His Ala Ala Asn Pro His Leu Arg
35 40 45

<210> 7975

<211> 60

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7975

Lys Ile Arg Tyr Leu Lys Lys Leu Met Arg Lys Phe Arg Cys Thr Arg
1 5 10 15

Thr Lys Leu Ala Gly Leu Tyr Arg His Ala Glu Arg Thr Met Phe Trp
20 25 30

Thr Trp Lys Lys Glu Leu Ala Ala Ala Asp Ala Leu Ala Leu Ala Asn
35 40 45

Tyr Lys Asp Lys Asp Gly Lys Lys Leu Trp Thr Cys
50 55 60

<210> 7976

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7976

Lys Leu Arg Leu Phe Lys Arg Ile Phe Lys Arg Met Arg Arg Leu Tyr
1 5 10 15

Arg Leu Trp Gln Leu Leu Val Thr Pro Leu
 20 25

<210> 7977
 <211> 76
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7977

Phe Phe Arg Phe Leu Asn Lys Leu Tyr Arg Arg Tyr Asn Arg Arg Glu
 1 5 10 15

His Leu Lys Ile Met Pro Ala Asp Leu Glu Thr Leu Leu Cys Lys Gly
 20 25 30

Arg Leu Arg Ala Trp Phe Arg Trp Arg Cys Ala Ala Asp Lys Tyr Arg
 35 40 45

Leu Ser Ser Gly Lys Arg Leu Ala Glu Ala Ala Lys Ser Ser Lys Asn
 50 55 60

Ala Lys Phe Gln Arg Leu Tyr Ala Glu Arg Lys Ala
 65 70 75

<210> 7978
 <211> 42
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7978

Ile Tyr Lys Met Trp Lys Lys Phe Leu Arg Lys Phe Gln Lys Gly Glu
 1 5 10 15

Arg Gln Ala Ala Leu Arg Ser Ala Leu Arg Glu Ala Thr Lys Leu Arg
 20 25 30

Arg Ala Lys Leu Gln Arg His Leu Glu Gln
 35 40

<210> 7979

<211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7979

Arg Met Lys Phe Tyr Thr Lys Trp Phe Arg Leu Trp Gln Arg Lys Met
 1 5 10 15

Arg Lys Ala Met Leu Pro Ala Leu Lys Cys Ala Ala Val Lys Leu Ala
 20 25 30

Ala Val Arg
 35

<210> 7980
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7980

Met Leu Arg Leu Trp Asn Arg Leu Leu Lys Lys Met Arg Thr Leu Pro
 1 5 10 15

Phe Asn Ala Phe Ile Lys Gln Ala Arg Ala Gln Leu
 20 25

<210> 7981
 <211> 65
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7981

Tyr Trp Arg Ile Tyr Pro Arg Met Met Lys Leu Leu Asn Arg Ala His
 1 5 10 15

Glu Tyr Glu Arg Arg Cys Arg Ala Arg Ala Met Leu Arg Arg Tyr Asp
 20 25 30

Ala Ser Ala Lys Ala Lys Asn Lys Leu Met Arg Lys Lys Gly Leu Pro

35

40

45

Leu Ala Leu Met Phe Lys Met Lys Ser Ala Gln Arg Leu Lys Ile Arg
 50 55 60

Arg
 65

<210> 7982
 <211> 71
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7982

Leu Leu Lys Leu Met Lys Lys Trp Leu Arg Leu Phe Arg Ser Ile Val
 1 5 10 15

Val Pro Arg Ala Arg Asp Val Cys Cys Lys Lys Glu Ala Ala Lys Lys
 20 25 30

Thr Lys Arg Met Gln Glu Ala Arg Asp Ile Leu Gln Ala Leu Gln Gly
 35 40 45

Leu Ala Arg Asp Arg Ser Ala Val His Ala Phe Ala Lys Lys Ile Val
 50 55 60

Ala Lys Glu Trp Arg Ala Arg
 65 70

<210> 7983
 <211> 27
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7983

Leu Leu Lys Leu Ile Arg Lys Leu Phe Lys Tyr Ile Pro Lys His Arg
 1 5 10 15

Arg Ala Ser Arg Ala Trp Cys Arg Leu Leu Leu
 20 25

<210> 7984
 <211> 51
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7984

Arg Ile Lys Leu Trp Lys Arg Met Leu Lys Arg Leu Lys Arg Lys Leu
 1 5 10 15

Ala Ala Ala His Cys His Ala Ala Ile Tyr Arg Met Arg Arg Lys Asn
 20 25 30

Ala Leu Leu His Ile Asn Cys Val Ser Trp Arg Arg Ser Asp Arg Arg
 35 40 45

Leu Asp Ser
 50

<210> 7985
 <211> 53
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7985

Lys Leu Lys Met Leu Lys Lys Trp Leu Lys Arg Tyr Arg His Ala Ala
 1 5 10 15

Phe Leu Arg Phe His Glu Leu Pro Asn Gln Val Tyr Leu Ile Leu Lys
 20 25 30

Phe Tyr Lys Arg Gly Phe Ala Val Leu Arg Leu Lys Leu Trp Asn Tyr
 35 40 45

Thr Lys Arg Lys Lys
 50

<210> 7986
 <211> 43
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7986

Arg	Ile	Arg	Ile	Leu	Lys	Arg	Trp	Phe	Lys	Phe	Met	Pro	Lys	Leu	Gln
1				5					10					15	

Met	Leu	Leu	Lys	Leu	Arg	Lys	Ala	Ala	Lys	Tyr	Gln	Leu	Tyr	Asn	Lys
			20					25						30	

Arg	Asp	Trp	Glu	Ala	Leu	Lys	Val	Trp	Asp	Leu
			35				40			

<210> 7987

<211> 56

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7987

Arg	Tyr	Lys	Tyr	Leu	Thr	Lys	Trp	Met	Lys	Lys	Phe	Ser	Lys	Ala	Ala
1				5					10					15	

Lys	Asn	Gln	Pro	Ser	Ala	Leu	Thr	Cys	Arg	Leu	Ser	Asn	Arg	Ala	Arg
			20					25					30		

Thr	Gly	Ile	Lys	Ala	Lys	Gln	Trp	Ala	Ala	Arg	Lys	Lys	Glu	Met	Phe
			35				40					45			

Arg	Leu	Cys	Ala	Leu	Lys	Leu	Tyr
	50					55	

<210> 7988

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7988

Ile	Phe	Lys	Phe	Phe	Arg	Arg	Met	Leu	Arg	Phe	Leu	Asn	Arg	Glu	Ile
1				5					10					15	

Ala	Arg	Leu	Thr	Arg	Leu	Ala	Ala
-----	-----	-----	-----	-----	-----	-----	-----

20

<210> 7989
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7989

Arg Trp Lys Leu Leu Cys Lys Tyr Met Lys Lys Leu Lys Arg Lys Asp
 1 5 10 15

Ala His Glu Phe Gln Lys Trp Ala Ile Leu Tyr Gly Leu Ser Ala Leu
 20 25 30

Arg Leu Trp Leu
 35

<210> 7990
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7990

Met Leu Lys Phe Phe Arg Arg Leu Met Arg Trp Leu Lys Lys His Ala
 1 5 10 15

Ala Pro Lys Trp Leu Asn
 20

<210> 7991
 <211> 60
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7991

Leu Met Lys Trp Tyr Gln Lys Met Trp Arg Leu Leu Ser Ser Ala Gln
 1 5 10 15

Ala Lys Lys Ala Ala Pro Ala Gln Asn Lys Asp Ala Gln Lys Lys Arg

20

25

30

Gln Ala Gln Thr Leu Asn Lys Leu Lys Asp Gly Lys Leu Asn Leu Arg
 35 40 45

His Arg Lys Leu Glu Leu Arg Thr Ile Val Ala Glu
 50 55 60

<210> 7992

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7992

Arg Trp Arg Tyr Leu His Arg Leu Tyr Arg Arg Leu Arg Pro Ala Val
 1 5 10 15

Ile His Arg Asp Ala Ser Leu Ala
 20

<210> 7993

<211> 66

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 7993

Leu Phe Arg Leu Phe Lys Lys Leu Tyr Arg Phe Trp His Lys Arg Leu
 1 5 10 15

His Asp Met Ser His Ala Arg Met Pro Arg Glu Arg Leu Arg Ala Cys
 20 25 30

Arg Tyr Thr Asp Ile Lys Arg Leu Leu Asn Ala Lys Arg Gln Phe Thr
 35 40 45

Ser Leu Tyr Phe Arg Val Ile Leu Leu Ala Lys Leu Ala Lys Arg Arg
 50 55 60

Lys Glu
 65

<210> 7994
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7994

Phe Leu Lys Ile Leu Arg Lys Leu Trp Lys Tyr Leu Thr Arg Lys His
 1 5 10 15

Lys Leu Thr Val Cys Ala Arg
 20

<210> 7995
 <211> 62
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7995

Ile Met Lys Phe Trp Cys Lys Leu Trp Lys Arg Phe Cys Pro Arg Lys
 1 5 10 15

Leu Leu Phe Ala Arg Tyr Leu Pro Glu Ser Arg Phe Arg Arg Lys Tyr
 20 25 30

Arg Ala Arg Lys Arg Cys Met Lys Gln Ala His Ala Lys Gly Ala Leu
 35 40 45

Ala Arg Ala Ile Ala Leu Cys Cys Gly Gln Leu Ala Arg Cys
 50 55 60

<210> 7996
 <211> 43
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7996

Leu Leu Arg Phe Leu Pro Arg Leu Leu Lys Leu Phe Arg Arg Lys Ile
 1 5 10 15

Asn Leu Leu Arg Ala Ile Leu Lys Leu Leu Lys Lys Met Met Arg Leu
 20 25 30

Lys Lys Ala Gly Thr Leu Lys Phe Lys Ile Pro
 35 40

<210> 7997
 <211> 37
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7997

Lys Leu Lys Leu Leu Lys Lys Tyr Phe Arg Leu Leu Lys Gln His Arg
 1 5 10 15

Gly Trp Ala Arg Tyr Arg Ala Leu Ala Ala Ala Leu Arg Trp Asn Val
 20 25 30

Leu Ala Lys His Phe
 35

<210> 7998
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7998

Arg Leu Lys Met Phe Arg Arg Trp Leu Lys Arg Met Lys Lys Lys Asn
 1 5 10 15

Ala His Lys Gly Leu Phe Leu Glu Ala Ile Tyr Ala His Leu
 20 25 30

<210> 7999
 <211> 51
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 7999

Lys Tyr Lys Leu Leu Lys Lys Leu Met Arg Tyr Trp Arg Asn Arg Met
 1 5 10 15

Tyr Arg Leu Ile Arg Ala Ala Ser Leu Val Lys Leu Lys Arg Lys Leu
 20 25 30

Arg Gly Cys Leu Glu Leu Asp Ala Glu Pro Ala Phe Leu Pro Leu Thr
 35 40 45

His Pro Tyr
 50

<210> 8000
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8000

Arg Leu Lys Leu Phe Cys Lys Trp Leu Lys Arg Leu His Arg Ser Asn
 1 5 10 15

Leu Phe Tyr Leu Glu Leu Lys
 20

<210> 8001
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8001

Leu Leu Arg Tyr Phe Ser Arg Trp Leu Lys Lys Phe Gln Lys Leu Ala
 1 5 10 15

Gly Leu Pro Leu Lys Thr Lys Ala Arg Lys Leu Leu Thr Val
 20 25 30

<210> 8002
 <211> 63
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8002

Lys Leu Lys Phe Phe Arg Lys Leu Trp Lys Lys Met Pro Lys Lys Ser
 1 5 10 15

Arg Pro Lys Lys Cys Lys Gln Lys Leu Ile Ser Met Leu Cys Asn Ala
 20 25 30

Val Met Ala Leu Leu Leu Gln Ala Thr Ala Ile Ala Trp Asp Arg Lys
 35 40 45

Arg Ala Arg Glu Ser Ile Phe Met Cys Asp Lys Ala Ala Lys Arg
 50 55 60

<210> 8003

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8003

Phe Phe Lys Leu Met Gln Arg Leu Ile Arg Phe Trp Arg Arg His Ala
 1 5 10 15

Lys Phe Lys Ser Asp Tyr Ala Ile Arg Ala Trp Ala Val Arg Leu Leu
 20 25 30

Leu Arg

<210> 8004

<211> 51

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8004

Tyr Tyr Arg Met Ile Lys Arg Leu Leu Lys Arg Ile Arg Arg Pro Leu
 1 5 10 15

Arg Val Lys Glu Lys Ala Ala Arg Ala Gln Arg Ser Leu His Thr Ala

30

Lys Phe His Leu Cys Pro Lys His Gln Leu Ala Leu Phe Phe Pro Arg
35 40 45

Ala Ala Leu
50

```
<210> 8005
<211> 50
<212> PRT
<213> Artificial Sequence
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<220>
<223> Computer-generated peptide variant

<400> 8005

Lys Met Arg Leu Ile Pro Arg Phe Phe Lys Leu Tyr Asn Lys Arg Phe
1 5 10 15

Ala Arg Met Ser Asn Pro Leu Glu Ala Arg Lys Thr Pro Trp Ala Cys
20 25 30

Leu Leu Phe Lys Ala Ala Ala Arg Ala Phe His Leu Lys Lys Arg Ala
35 40 45

Leu Cys
50

```
<210> 8006
<211> 87
<212> PRT
<213> Artificial Sequence
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<220>
<223> Computer-generated peptide variant

<400> 8006

Arg Phe Arg Leu Phe Cys Arg Met Trp Arg Arg Phe Thr Lys Val Pro
1 5 10 15

Gly Ser Ala Glu Asp Thr Ala Lys Leu Leu Ala Lys Ser Lys Tyr Glu
20 25 30

Pro Lys Tyr Leu Leu Leu Val Thr Ile Gln Ala Arg Leu Met Asp Lys
35 40 45

Asp Lys Lys Ala Leu Leu Lys Asn Arg Gly Arg Met Leu Trp Lys Leu
 50 55 60

Trp Asn Arg Glu Lys Ala Met Lys Gly Arg Leu Ala Gln Asp Tyr Lys
 65 70 75 80

Lys Ala Leu Leu Arg Phe Arg
 85

<210> 8007

<211> 48

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8007

Tyr Leu Lys Tyr Leu Arg Arg Phe Phe Lys Phe Leu Lys Asn Ser Lys
 1 5 10 15

Ala His Phe Arg Met Leu Leu Ala Ala Tyr Met Leu Arg Gly Leu Met
 20 25 30

Arg Ala His Trp Thr Lys Arg Leu Lys Phe Arg Gly Arg Ile Trp Lys
 35 40 45

<210> 8008

<211> 57

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8008

Trp Phe Arg Phe Leu Lys Lys Leu Leu Arg Arg Phe Cys Gln Ala Lys
 1 5 10 15

Arg Ala Met Ala Leu Ala Met Leu Cys Lys Lys Tyr Val Ala Ala Met
 20 25 30

Leu Lys Trp Ser Glu Leu Ala Asp Val Arg Arg Leu Leu Ala Lys Lys
 35 40 45

Lys Ala Arg Met Lys His Leu Arg Gln

50

55

<210> 8009

<211> 61

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8009

Met Trp Arg Ile Leu Lys Arg Leu Phe Arg Leu Leu Arg Gln Leu Asp
 1 5 10 15

Ala Phe Gln Leu Arg Leu Arg Glu Asn Lys Ala Gln Leu Ala Ser Arg
 20 25 30

Arg Ser Arg Met Ala Ala Arg Glu Lys Arg Arg Pro Arg Pro Leu Cys
 35 40 45

Gly Lys Lys Cys Asn Pro Gly Arg Gly Leu Arg Lys Tyr
 50 55 60

<210> 8010

<211> 80

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8010

Tyr Leu Arg Phe Phe Lys Arg Leu Leu Lys Met Trp Gln Arg Arg Trp
 1 5 10 15

Ala Arg Lys Arg Leu Thr Leu His Ala Lys Cys Arg Pro Leu Gln Arg
 20 25 30

Lys His Ala Val Arg Lys Asp Gln Leu Val Leu Ala Ala Met Asp Leu
 35 40 45

Ala Lys Trp Leu Lys Leu Phe Leu Ile Ser Lys Lys Leu Gln Gly Cys
 50 55 60

Ala Lys Gly Arg Arg Arg Leu Ser Val Met Leu Ala Gln Lys Trp Ile
 65 70 75 80

<210> 8011
 <211> 85
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8011

Ile Met Lys Leu Trp Lys Lys Tyr Leu Arg Tyr Phe Pro Cys Ser Ala
 1 5 10 15

Gln Lys Ile Leu Val Leu Met Leu Trp Trp Ala Pro Glu Leu Asn Leu
 20 25 30

Lys Met Leu Lys Lys Arg Gln Arg Arg Trp Arg Asn Gly Leu Thr Val
 35 40 45

Pro Gln His Gln Lys Asn Lys Ala Arg Gln Lys Lys Leu Leu Ile Ala
 50 55 60

Leu Ala Pro Ala Ala Ala Lys Asp Leu Leu Ile Ala Ala Arg Ala
 65 70 75 80

Asp Ile Arg Ala Glu
 85

<210> 8012
 <211> 55
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8012

Arg Leu Lys Trp Leu Thr Lys Ile Ile Lys Tyr Leu Lys Arg Met Lys
 1 5 10 15

Ala Leu Lys Pro Asp Leu Val Ile Asn His Arg Ala Val Arg Leu Tyr
 20 25 30

Leu Leu Leu Ala Ala Pro Ile Phe Arg Leu Ala His Ala Asn Trp Arg
 35 40 45

Lys Asp Lys Ala Ile Ala His

50

55

<210> 8013
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8013

Lys Met Arg Phe Leu Lys Lys Leu Leu Lys Leu Tyr Arg His Ala Ala
 1 5 10 15

Lys Phe Asn Leu Ser Met His Val Glu Lys Arg Leu
 20 25

<210> 8014
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8014

Lys Leu Arg Ile Leu His Lys Met Leu Arg Lys Leu Arg Arg Val Leu
 1 5 10 15

Phe Ala Pro Cys Val Ala Ala Arg Cys Ser Arg Arg Asn Lys Leu Ala
 20 25 30

Ile Ser Lys
 35

<210> 8015
 <211> 81
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8015

Arg Ile Arg Met Leu Lys Lys Leu Ile Lys Met Leu Lys Pro Met Asp
 1 5 10 15

Arg Cys Ala His Asp Asp Lys Leu Lys Ala Ala Leu Met His Arg Ala

[illegible]

Lys

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<210> 8016
<211> 33
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 8016
```

Lys Phe Lys Phe Phe Gln Arg Leu Ile Arg Lys Leu Thr Asn Phe Arg
1 5 10 15

Ala Ile Phe Leu Leu Lys Gln Trp Thr Ala Ala Ala Lys Lys Leu Arg
20 25 30

Leu

```
<210> 8017
<211> 72
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 8017
```

Leu Leu Arg Leu Met Lys Lys Ile Leu Lys Lys Tyr Lys Lys Lys Ile
1 5 10 15

Ala Arg Ala Leu Arg His Arg Ser Glu Asp Arg Pro Lys Met Leu Met
20 25 30

Ala Asn Leu Pro Arg Gln Tyr Gln Ile Leu Leu His Asp Asn Leu Arg
 35 40 45

Ile Phe Arg Ser Lys Ser Met Met Pro Arg Ala Arg Phe Lys Leu Trp
 50 55 60

Leu Ala Leu Leu Trp Cys Phe Lys
 65 70

<210> 8018
 <211> 47
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8018

Lys Leu Arg Leu Met Arg Arg Trp Leu Lys Lys Phe Lys Asn Lys Leu
 1 5 10 15

Met Ala Gln Arg Lys Leu Lys Leu His Met Trp Ile Thr Pro Ala Phe
 20 25 30

Glu Leu Trp Ile Lys Thr Lys Ser Ala His Asn Lys Ala Ala Leu
 35 40 45

<210> 8019
 <211> 42
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8019

Lys Ile Arg Leu Leu Gln Arg Leu Leu Arg Leu Trp His Lys Ser Lys
 1 5 10 15

Leu Gln Ala Lys Phe Met Arg Lys Cys Asn Arg Lys Glu Ala Leu Ala
 20 25 30

Asn Gly Glu Ala Asn His Glu Arg Ala Ala
 35 40

<210> 8020

<211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8020

Ile Tyr Lys Tyr Phe Lys Arg Phe Ile Lys Leu Leu Lys Cys Leu Arg
 1 5 10 15

Lys Ala Ala Ser Glu Phe Leu Thr Arg Arg Phe Leu Gln
 20 25

<210> 8021
 <211> 67
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8021

Leu Phe Arg Tyr Phe Lys Arg Leu Tyr Arg Ile Tyr Pro Thr Arg Gln
 1 5 10 15

Ser Leu Arg Trp His Arg Arg Ile Ala Ser Thr Lys Arg Lys Leu Ala
 20 25 30

Ile Thr Ala Arg Leu Trp Leu Leu Arg Arg Asp Lys Ala Arg Ala Arg
 35 40 45

Thr Gly Lys Arg Leu Gly Ser Leu Leu His Ala Ser Met Ala Ala Ala
 50 55 60

Asp Gly Leu
 65

<210> 8022
 <211> 65
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8022

Arg Ile Arg Met Met Lys Lys Met Phe Arg Lys Phe Arg Arg Lys Lys

1					5					10					15				
Ala	Leu	Lys	Met	Ala	Ala	Met	Trp	Leu	Trp	Val	Ala	Ala	Arg	Met	Ser				
			20					25					30						
Ala	Ala	Pro	Arg	Asp	Leu	Lys	Asp	Leu	Lys	Ala	Phe	Phe	Arg	Arg	Leu				
		35					40					45							
Trp	Lys	Cys	Phe	Thr	Ala	Arg	Ser	Thr	Leu	Phe	His	Trp	Leu	Ala	Leu				
	50					55					60								

Arg
65

```
<210> 8023
<211> 75
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 8023
```

Ile	Leu	Arg	Phe	Tyr	Lys	Arg	Leu	Met	Lys	Arg	Phe	Arg	Arg	Asn	Ala
1				5					10					15	
Asp	Val	Pro	Lys	Arg	Leu	Leu	Lys	Val	Gln	Gln	Val	Gly	Gly	Asn	Ala
			20					25					30		
Lys	Leu	Arg	Val	Ala	Thr	Ala	Lys	Arg	Glu	Phe	Lys	Ala	Ile	Ala	Asp
		35					40					45			
Leu	Ala	Leu	Ser	Leu	Arg	Lys	Arg	Tyr	Lys	Lys	Asp	Gln	Arg	Asp	Asp
	50					55					60				
Lys	Ser	Leu	Arg	Ile	Ala	Arg	Ala	Leu	Leu	Lys					
65					70					75					

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<210> 8024
<211> 29
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 8024
```

Arg Leu Lys Leu Tyr His Arg Phe Phe Lys Leu Ile Lys Pro Cys Val
 1 5 10 15

Thr Leu Lys Asp Tyr Met Lys Arg Ala Tyr Arg Leu Ala
 20 25

<210> 8025
 <211> 45
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8025

Trp Leu Arg Met Leu Pro Lys Tyr Ile Lys Arg Trp Arg Arg Gly Ala
 1 5 10 15

Tyr Leu Lys Lys Ala Pro Lys Arg Asn Asn Ala Thr Lys Arg Asp Leu
 20 25 30

Leu Arg Asp Asp Tyr Lys Leu Ala Leu Arg Ala Thr Ser
 35 40 45

<210> 8026
 <211> 31
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8026

Met Tyr Lys Met Leu Arg Arg Leu Leu Arg Lys Leu Gln Arg Lys Ile
 1 5 10 15

Glu Lys Arg Arg Met Leu Val Leu Ala Gln Gly Thr Lys Leu His
 20 25 30

<210> 8027
 <211> 69
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8027

Lys Ile Lys Met Leu Arg Lys Leu Phe Lys Arg Tyr His Cys Ala Gln
 1 5 10 15

Ser Arg Ala Cys Val Lys Lys Lys Leu Lys Arg Ala Lys Lys Gln Lys
 20 25 30

Leu Lys Lys Asn Arg Tyr Phe Glu Leu Arg Ala Ala Ala Met Trp Met
 35 40 45

Leu Gln Arg Arg Leu Asp Tyr Leu Val Ala Arg Ala Gln Trp Ala Gln
 50 55 60

Glu Ala Ala Glu Leu
 65

<210> 8028
 <211> 26
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8028

Tyr Leu Arg Leu Leu Asn Lys Phe Leu Lys Lys Phe Ser His Arg Val
 1 5 10 15

Gln Glu Pro Lys Leu Arg Asp Leu Leu Ala
 20 25

<210> 8029
 <211> 43
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8029

Lys Phe Arg Leu Met Lys Arg Trp Met Lys Arg Ile Cys Arg Asp Phe
 1 5 10 15

Leu Asp Phe Lys Lys Lys Arg Asn Tyr His Trp Leu Leu Leu Leu Leu
 20 25 30

Arg Leu Tyr Glu Lys Glu Leu Leu Cys Ser Ala

35

40

<210> 8030

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8030

Leu Met Arg Met Phe Cys Arg Trp Leu Arg Lys Leu Arg Arg Lys Leu
 1 5 10 15

Glu Asp Arg Ile Ala Leu Val Arg Met Ala Trp Glu Leu Pro His Leu
 20 25 30

<210> 8031

<211> 53

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8031

Ile Ile Arg Phe Trp Ser Lys Leu Leu Lys Phe Leu Lys Pro Ala Lys
 1 5 10 15

Thr Met Arg Lys Arg Lys Gln Thr Val Val Arg Phe Leu Ala Ala Lys
 20 25 30

Leu Arg Arg Trp Arg Thr Pro Ile Lys Ala Ala Lys Cys Ala Leu Ala
 35 40 45

Trp Tyr Leu Val Val
 50

<210> 8032

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8032

Leu Leu Lys Ile Trp Ser Lys Ile Leu Arg Lys Met Arg Arg Lys Ser

1 5 10 15

Ala Leu Pro Gln Glu Arg Tyr Tyr Trp Asn Pro Lys Ala Leu Ala Ser
20 25 30

Arg Arg Arg Lys Leu Ala Tyr Trp
35 40

<210> 8033

<211> 56

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8033

Arg Tyr Lys Leu Phe Thr Lys Leu Met Arg Lys Ile Cys Thr His Ala
1 5 10 15

Gln Leu Thr Ala Leu Ala Phe Val Leu Trp Arg Arg Asn Arg Lys Asp
20 25 30

Ser Val Tyr Ala Lys Arg Tyr Leu Arg Phe Val Leu Lys Gly Ser Ala
35 40 45

Lys Arg Leu Ala Lys Phe Met Arg
50 55

<210> 8034

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8034

Arg Tyr Lys Phe Ile Lys Arg Phe Leu Arg Arg Phe Thr Lys His Ile
1 5 10 15

Val Glu Leu Arg Cys Leu Lys Ala Phe Ala Leu Ala Leu
20 25

<210> 8035

<211> 39

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8035

Ile Leu Arg Leu Phe Arg Arg Tyr Phe Arg Leu Ile Arg Ser Ala Tyr
1 5 10 15

Gln Ala Ser Gln Arg Glu Pro Arg Leu Ser Asn Leu Ala Arg Ser Leu
20 25 30

Arg Ala Ala Lys Ala Arg Lys
35

<210> 8036

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8036

Tyr Trp Arg Leu Leu Lys Lys Tyr Phe Arg Phe Tyr Lys Ser Ala Ile
1 5 10 15

Leu Tyr Ile Leu Leu Glu Cys Leu Leu Leu Ala Glu Lys Ile Asp Gln
20 25 30

Ala Arg Arg His Asn Ala Arg Arg
35 40

<210> 8037

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8037

Lys Trp Lys Phe Phe His Lys Ile Leu Arg Leu Leu Lys Lys Arg Arg
1 5 10 15

Arg Glu Tyr Leu Cys His Lys Ala Arg Ala Leu Val Ser Lys Gln Leu
20 25 30

Leu Arg Leu
35

<210> 8038
<211> 47
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 8038

Lys Trp Lys Leu Leu His Lys Phe Leu Lys Lys Tyr Ser Arg Leu Cys
1 5 10 15

Trp Pro Arg Leu Ala Gln Leu Leu Asp Phe Thr Trp Lys Ala Ile Glu
20 25 30

Lys Ala Asp Ala Cys Ala Ile Ala Arg Leu Gln Arg Gln Leu Gln
35 40 45

<210> 8039
<211> 75
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 8039

Arg Ile Arg Tyr Tyr Arg Arg Leu Ile Lys Lys Ile Lys Lys Pro Arg
1 5 10 15

Trp Leu Lys Val Ala Arg Lys Gln Leu Ile Thr Ala Gly Leu Arg Leu
20 25 30

Thr Ala His Lys Pro Ala Leu Lys Leu Lys Lys Asn Arg Phe Leu Arg
35 40 45

Asp Cys Arg Gln Leu Met Pro Lys Leu Ala His Lys Asn Leu Trp Asn
50 55 60

Gln Phe His Arg Ala Arg Lys Leu Cys Ser Met
65 70 75

<210> 8040

<211> 83
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8040

Phe Ile Lys Leu Leu Gln Arg Trp Leu Lys Phe Phe Lys Arg Gln Cys
 1 5 10 15

Lys Ala Asp Glu Thr Lys Leu Met Lys Arg Glu Val Arg Arg Ser Ala
 20 25 30

Ile Cys Arg Ala His Arg Arg Lys Phe Asp Lys Arg Trp Ser Leu Leu
 35 40 45

Leu Val Arg Thr Ile Ala Ala Arg Leu Arg Glu Ser Ala Leu Ala Phe
 50 55 60

Glu Leu Glu Gly Arg Gln Pro Glu Ala Ala Ala Gly Arg Leu Val Leu
 65 70 75 80

Arg Tyr Leu

<210> 8041
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8041

Phe Phe Lys Ile Leu Lys Arg Leu Tyr Arg Phe Leu Asn Lys Ala Gly
 1 5 10 15

His Trp Lys Leu Lys
 20

<210> 8042
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8042

Leu Phe Lys Leu Phe Pro Arg Leu Tyr Arg Lys Met Arg Lys Gln Gly
1 5 10 15

Ala Arg Ala Arg Arg Tyr Leu Leu Tyr Ala Thr Gln Ala Gln
20 25 30

<210> 8043

<211> 31

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8043

Ile Leu Lys Tyr Leu Cys Arg Phe Leu Lys Leu Trp Arg Arg Arg Gly
1 5 10 15

Leu His Leu Ala Val Lys Ser Asn Cys Ala Arg Arg Ile Ala Arg
20 25 30

<210> 8044

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8044

Arg Met Lys Phe Ile Lys Lys Tyr Phe Lys Trp Leu Thr Arg Lys Ala
1 5 10 15

Ala Ala Glu Leu Ala Ser Cys Trp Ala Leu Ile Glu Trp Leu Lys Val
20 25 30

Leu Ala

<210> 8045

<211> 38

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8045

Phe Trp Arg Leu Trp Lys Arg Leu Leu Arg Phe Phe Lys Lys Arg Leu
1 5 10 15

Ala Asn Lys Ser Ile Ala Lys Lys His Leu Ala Gln His Leu Ala Lys
20 25 30

Asn Lys Glu Leu Ser Lys
35

<210> 8046

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8046

Lys Leu Lys Leu Leu Ser Arg Ile Phe Arg Arg Trp Arg Lys Asn Arg
1 5 10 15

Arg Gln Leu Leu Ala Ala Phe Tyr Met Leu Asp Ser
20 25

<210> 8047

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8047

Phe Phe Arg Ile Leu Asn Lys Tyr Phe Arg Arg Phe Thr His Ala Ile
1 5 10 15

Arg Ala Asp Arg Leu Ala Leu Trp Met Leu Ala Arg Arg Lys Leu Ala
20 25 30

Met Glu

<210> 8048

<211> 48

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8048

Lys Leu Arg Phe Tyr Thr Lys Leu Trp Lys Lys Phe Lys Arg Leu Lys
1 5 10 15

Leu Ile Leu Lys Arg Val Asp Leu Gly Gln Ile Lys His Thr Ala Ala
20 25 30

Asn Lys Leu Lys Ala Leu Ser Ala Lys Lys Asn Lys Ile Leu Pro Thr
35 40 45

<210> 8049

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8049

Arg Tyr Arg Tyr Phe Arg Lys Leu Met Arg Ile Tyr Arg Asn Arg Leu
1 5 10 15

Gly Leu Tyr Ser Ala Leu Cys Leu Thr Arg Lys Leu Ala Leu Asp Cys
20 25 30

<210> 8050

<211> 45

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8050

Ile Met Lys Leu Tyr Cys Arg Phe Leu Lys Arg Leu Lys Lys Ala Arg
1 5 10 15

Ala Pro Asn Lys Asp Gly Ile Lys Ala Asp Met Arg Arg Leu Lys Leu
20 25 30

Met Ala Trp Arg Asn Asn Ala Tyr Ala Thr Gly Tyr Leu
35 40 45

<210> 8051
 <211> 57
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8051

Arg Leu Arg Met Phe Arg Lys Ile Tyr Lys Tyr Met Arg Lys Cys Leu
 1 5 10 15

Ala Lys Lys Arg Ala Leu Lys Met Asn Gln Phe Gly Gly His Arg Ala
 20 25 30

Ala Ala Gln Val Gly Leu Asp Ala Lys Gln Thr Lys Gln Leu Leu Lys
 35 40 45

Leu Cys Ala Phe Ala Leu Leu Pro Thr
 50 55

<210> 8052
 <211> 49
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8052

Arg Leu Lys Leu Trp Arg Lys Leu Leu Arg Arg Phe Arg Cys Arg Met
 1 5 10 15

Tyr Ala Ala Met Val Lys Gly Trp Arg Leu Ala Ser Phe Lys Gln Leu
 20 25 30

His Thr Cys Ala Ala Asn Leu Arg Asp Cys Lys Gly Arg Cys Lys Val
 35 40 45

Leu

<210> 8053
 <211> 53
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8053

Ile	Leu	Arg	Leu	Tyr	Arg	Lys	Phe	Leu	Arg	Arg	Trp	Pro	Ser	Lys	Arg
1				5					10					15	

Gln	Ile	Leu	His	Leu	Ala	Asp	Ser	Arg	Arg	Asn	Lys	His	Tyr	Lys	Lys
			20					25					30		

Leu	Ala	Ile	Ala	Leu	Thr	Leu	Ala	Cys	Leu	Cys	Trp	His	Ala	Ala	Ser
			35				40					45			

Leu	Arg	Ala	Gln	Pro
				50

<210> 8054

<211> 37

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8054

Arg	Leu	Arg	Leu	Met	Lys	Arg	Tyr	Leu	Arg	Arg	Leu	Pro	Asn	Lys	Ser
1				5					10					15	

Arg	Arg	Gln	Ser	Gly	Pro	Arg	Ser	Leu	Gly	Ala	Lys	Lys	Trp	Leu	Ser
			20					25					30		

Glu	Asp	Trp	Ala	Leu
				35

<210> 8055

<211> 52

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8055

Lys	Leu	Arg	Phe	Leu	Arg	Arg	Ile	Phe	Arg	Arg	Leu	Lys	Gln	Asn	Ala
1				5					10					15	

Arg	Lys	Gly	Gly	Arg	Ile	Leu	Lys	Phe	Gln	Asp	Ala	Leu	Ser	Leu	Arg
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

20

25

30

Leu Lys Asn Val Cys Thr Met Ile Leu Val Arg Gly Ala Val His Leu
 35 40 45

Leu Arg Gly Arg
 50

<210> 8056
 <211> 43
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8056

Arg Met Lys Leu Tyr Lys Lys Phe Phe Arg Lys Leu Lys Pro Arg Ala
 1 5 10 15

Cys Leu Tyr Arg Phe Leu Cys Tyr Asn Phe Glu Pro Ala Leu Leu Val
 20 25 30

Lys Arg Lys Leu Val Thr Thr Leu Lys Ala Asn
 35 40

<210> 8057
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8057

Ile Phe Lys Leu Leu His Lys Ile Leu Arg Leu Phe Arg Lys Ala Leu
 1 5 10 15

Asp Tyr Arg Lys Arg Leu Ser
 20

<210> 8058
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8058

Lys Leu Lys Trp Leu Gln Lys Leu Ile Lys Arg Phe Lys Arg Ala Gln
1 5 10 15

Val Ser Val Leu Val Lys Leu Lys Cys Lys Trp Leu Ala Ala
20 25 30

<210> 8059

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8059

Leu Phe Arg Trp Phe Asn Arg Phe Trp Arg Lys Leu Arg Thr Ala Ser
1 5 10 15

Ile Tyr Lys Arg Lys Glu Ala Pro Ala Lys Ala Ala Ala Leu Leu Cys
20 25 30

Trp Cys

<210> 8060

<211> 31

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8060

Leu Met Lys Leu Ile Lys Arg Leu Phe Lys Ile Leu Lys Lys Cys Ile
1 5 10 15

Leu Leu Trp Glu Arg Arg Ile Ala Trp Arg Ile Arg Ala Arg Glu
20 25 30

<210> 8061

<211> 70

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8061

Phe Leu Lys Met Met His Lys Leu Trp Arg Arg Phe Lys Arg Leu Lys
 1 5 10 15

Cys Asp Lys Asp Ala Lys Ser Leu Asp Leu Leu Lys Ala Lys Arg Ser
 20 25 30

Gln Asn Ser Arg Ala Arg Lys Asn Leu Lys Gly Leu Leu Lys Ile Lys
 35 40 45

Leu Lys Gly Ala Leu Asp Ala Cys Ala Gln Asp Ser Trp Asp Pro Ala
 50 55 60

Ser Arg Ala Tyr Met Lys
 65 70

<210> 8062

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8062

Leu Leu Arg Leu Trp Ser Arg Leu Met Lys Arg Trp Lys Arg Asp Arg
 1 5 10 15

Lys Ile Val Leu Ala Cys Arg Arg Trp Ala Ala Thr Arg Cys
 20 25 30

<210> 8063

<211> 49

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8063

Arg Met Lys Phe Tyr Arg Lys Leu Leu Lys Lys Leu Lys Asn Ile Phe
 1 5 10 15

Arg Ser Lys Ala Lys Asn Ala Asp Lys His Lys Pro Asn Gln Ala Lys
 20 25 30

Leu Leu Arg Leu Cys Val Ala Phe Gln Tyr Ala Tyr Lys Pro Glu Asp
35 40 45

Ala

<210>	8064
<211>	32
<212>	PRT
<213>	Artificial Sequence
<220>	
<223>	Computer-generated peptide variant
<400>	8064

Leu Leu Lys Trp Leu Thr Arg Phe Phe Lys Lys Leu Arg Lys Met Asp
1 5 10 15

Ile Lys Lys Ala Leu Asp Trp Ala Ala Trp Cys Ala Ile Tyr Cys Lys
20 25 30

<210>	8065
<211>	29
<212>	PRT
<213>	Artificial Sequence
<220>	
<223>	Computer-generated peptide variant
<400>	8065

Arg Ile Lys Phe Ile Thr Lys Ile Tyr Lys Ile Phe Thr Lys Lys Leu
1 5 10 15

Arg Leu His Ser Ala Gln Leu Arg Ala Ala Leu Leu Arg
20 25

<210>	8066
<211>	38
<212>	PRT
<213>	Artificial Sequence
<220>	
<223>	Computer-generated peptide variant
<400>	8066

Leu Tyr Lys Leu Leu Lys Arg Phe Phe Arg Met Leu Lys Lys Asp Leu
1 5 10 15

Leu Ile Arg Lys Ser Ile Leu Arg Glu Ala Ala Tyr Lys Leu Lys Lys
 20 25 30

Leu Lys Ala Ala Ala Ala
 35

<210> 8067
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8067

Leu Leu Lys Leu Tyr Arg Arg Met Phe Arg Phe Tyr Lys Arg Leu Ala
 1 5 10 15

Thr Ala Ala Ala Gln Glu Ala Asn Pro Thr His Lys Glu
 20 25

<210> 8068
 <211> 43
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8068

Arg Trp Arg Phe Ile Lys Arg Phe Phe Arg Arg Tyr Lys Pro Ala Gln
 1 5 10 15

Asn Leu Glu Gln Cys Leu Ser Met Lys Leu Thr Lys Leu Leu Val Ile
 20 25 30

Arg Lys Leu Ser Ala Arg Leu Cys Ala Ala Lys
 35 40

<210> 8069
 <211> 26
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8069

Arg Leu Arg Leu Leu His Arg Leu Leu Arg Arg Phe Lys Ser Cys Ala
 1 5 10 15

Arg Lys Leu Asp Ala Leu Ile Ser Ala Arg
 20 25

<210> 8070
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8070

Phe Leu Lys Leu Met Lys Lys Met Ile Lys Lys Phe Arg Cys Asp Trp
 1 5 10 15

Phe Ala Ser Leu Lys Lys Ala Leu Ile
 20 25

<210> 8071
 <211> 31
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8071

Lys Phe Lys Met Phe Arg Lys Tyr Phe Lys Lys Phe Pro Thr Leu Tyr
 1 5 10 15

Arg Ala Lys Thr Gly Ala Pro Ala Leu Cys Ala Leu Lys Arg Ala
 20 25 30

<210> 8072
 <211> 45
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8072

Arg Leu Arg Leu Trp Arg Lys Leu Leu Arg Trp Leu Lys Arg Arg Ala
 1 5 10 15

Ala Pro His Glu Ala Met Lys Lys Leu Arg Tyr Tyr Arg Leu Arg Ile
 20 25 30

Leu Trp Trp Met Lys Cys Lys Glu Asn Leu Ala Ala Tyr
 35 40 45

<210> 8073

<211> 37

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8073

Arg Met Arg Phe Met Ser Lys Phe Leu Lys Lys Met Thr Arg Arg Val
 1 5 10 15

Arg Arg Ala Asp Leu Phe Lys Leu Gly Val Trp Leu Ala Gln Arg Ala
 20 25 30

Leu Lys Ala Glu Leu
 35

<210> 8074

<211> 94

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8074

Arg Leu Lys Leu Leu Gln Arg Leu Phe Arg Met Leu Ser Lys Tyr Phe
 1 5 10 15

Leu Phe Leu Trp Trp Lys Pro Leu Ala Phe Leu Leu Leu Ala Ala Pro
 20 25 30

Lys Leu His Lys Ala Pro Ala Pro Ala Val Met His Arg Gly Ala Arg
 35 40 45

Arg Arg Gln Leu Arg Lys Cys Asn Trp Ala Met Asp Leu Leu Leu Ala
 50 55 60

Trp Ser Asn Phe Asp Ser Arg Cys Lys Arg Ala His Val Val Ile Lys

<210>	8075
<211>	61
<212>	PRT
<213>	Artificial Sequence

<400> 8075

Ala Val Ala Lys Cys Ile Arg Lys Cys Ala Ala Gly Val Leu Tyr Thr
20 25 30

Ala Lys Lys Leu Lys Leu Leu Leu Asn Lys Leu Met Trp Leu Leu Lys
35 40 45

Leu Lys Leu Lys Arg Gly Ala Ala Lys Val Asn Pro Lys
50 55 60

<210>	8076
<211>	40
<212>	PRT
<213>	Artificial Sequence

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<220>
<223> Computer-generated peptide variant
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<400> 8076

Lys Leu Lys Leu Tyr Ser Lys Tyr Trp Arg Trp Leu Lys Asn Ala Arg
1 5 10 15

Arg Asp Glu Lys Lys Arg Thr Trp Met Lys Phe Ala Glu Leu Leu Leu
20 25 30

Arg Gly Leu Asp Lys Ala Met Lys
35 40

<210>	8077
<211>	65
<212>	PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8077

Trp Tyr Arg Phe Trp His Arg Trp Met Arg Arg Phe Arg Arg Leu Tyr
1 5 10 15

Phe Trp Phe His Leu Lys His Ser Lys Ala Thr Trp Lys Leu Gln Lys
20 25 30

Lys Lys Leu Lys Leu Gly Pro Pro Asp Leu Cys Arg Ser Ser Ala Lys
35 40 45

Leu Tyr Leu Met Arg Leu Leu Arg Ala Arg Gln Leu Asn Lys Leu Arg
50 55 60

Arg
65

<210> 8078

<211> 45

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8078

Met Leu Lys Leu Ile Lys Lys Trp Leu Lys Lys Leu Arg Cys Lys His
1 5 10 15

Pro Val Arg Tyr Ala Cys Met Ser Ala Leu Arg Cys Trp Tyr Glu Tyr
20 25 30

Leu Asp Leu Val Ala Arg Cys Ala Lys Lys Asp Ala Leu
35 40 45

<210> 8079

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8079

Leu Leu Arg Phe Leu Arg Lys Ile Tyr Arg Arg Trp Lys Asn Ala Arg
 1 5 10 15

Leu Arg Ser Trp Ala Gly
 20

<210> 8080
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8080

Lys Phe Lys Leu Leu Cys Lys Leu Leu Arg Tyr Leu Arg Lys Gly His
 1 5 10 15

Ser Gln Val Arg Leu Lys Tyr
 20

<210> 8081
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8081

Leu Met Arg Leu Leu Lys Lys Phe Leu Lys Arg Ile Asn Lys Gln Arg
 1 5 10 15

Tyr Arg Ala Ala Asn Ala Ala Ser Ala Ile Gln Leu Ile Met Ala Asn
 20 25 30

Thr

<210> 8082
 <211> 26
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8082

Arg Phe Lys Ile Leu Lys Arg Leu Leu Lys Leu Tyr Lys His Asn Ser
 1 5 10 15

Leu Asn Ala Pro Met Ser Asp Ala Lys Arg
 20 25

<210> 8083
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8083

Leu Phe Arg Leu Met Arg Lys Leu Phe Lys Leu Leu Pro Ser Arg Arg
 1 5 10 15

Lys Pro Ala Ala Ala Lys Asn Lys Phe Ala Leu Glu Met Lys Val Ile
 20 25 30

Gln Gln Arg Ala
 35

<210> 8084
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8084

Lys Leu Arg Leu Met Arg Arg Phe Tyr Lys Lys Tyr Pro Gln Ala Val
 1 5 10 15

Ala Glu Arg Leu Leu
 20

<210> 8085
 <211> 79
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8085

Phe Tyr Lys Phe Phe Lys Arg Leu Met Arg Tyr Ile Asn Lys Phe Gln
 1 5 10 15

Cys Lys Glu Lys Cys Thr Trp Leu Leu Ala Gln Ala Leu Arg Met Ala
 20 25 30

Arg Phe Arg Thr Leu Arg Arg Asn Lys Arg Met Leu Lys Leu Ala Leu
 35 40 45

Ala Lys Ala Trp Glu Lys Gln Lys Met Ile Arg Lys Ser Lys Thr Ala
 50 55 60

Leu Lys Thr Ala Asn Leu Ala Leu Glu Arg Phe Leu Asn Phe Val
 65 70 75

<210> 8086

<211> 67

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8086

Leu Phe Lys Tyr Ile His Arg Leu Met Arg Lys Leu Ser Lys Ala Arg
 1 5 10 15

Leu Ser Trp Asn Ile Tyr Leu Glu Leu Lys Gly Met Trp Ala Thr Ala
 20 25 30

Leu Arg Ala Thr Leu Pro Arg Thr Ala Arg Asn Lys Gln Leu Asp Leu
 35 40 45

Ala Arg Arg Arg Ala Ala Gly Arg Lys Ala Phe Gln Leu His Ile Ala
 50 55 60

His Ala Phe
 65

<210> 8087

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8087

Met Phe Arg Leu Leu Gln Arg Phe Leu Arg Lys Leu Arg Cys Leu Cys
1 5 10 15

Glu Arg Lys Val Pro
20

<210> 8088

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8088

Lys Phe Arg Leu Leu Arg Arg Leu Phe Lys Met Ile Lys Arg Thr Lys
1 5 10 15

Gln Gln Ser Arg Ala Ala Ala Ile Ala
20 25

<210> 8089

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8089

Arg Leu Lys Phe Trp Lys Arg Leu Phe Lys Lys Phe His Lys Tyr Ser
1 5 10 15

Leu Ala Met Leu
20

<210> 8090

<211> 49

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8090

Leu Leu Arg Ile Phe Lys Lys Leu Leu Lys Leu Met Asn Arg Ser Lys

1 5 10 15

Lys Leu Leu Leu Phe Arg Tyr Arg Trp Leu Pro Leu Leu Arg Leu Pro
 20 25 30

Ala Arg Arg Pro Asn Leu Phe Pro Thr Arg Glu Leu Ala Lys Ser Ser
 35 40 45

Ala

<210> 8091
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8091

Phe Leu Lys Phe Phe Cys Arg Met Leu Arg Ile Phe Arg Arg Val Arg
 1 5 10 15

Ala Ala Lys Arg Cys Glu Leu Ala Lys Ala Arg Ala Phe Lys
 20 25 30

<210> 8092
 <211> 52
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8092

Leu Phe Arg Phe Leu Lys Arg Leu Trp Arg Arg Leu His Gln Arg Arg
 1 5 10 15

Gly Glu Leu Phe Met Ser Ser Lys Leu Ser Arg Phe Leu Met Met Arg
 20 25 30

Lys Val Arg Asp Ala Lys Lys Arg Ala Thr Leu Lys Val His Ala Val
 35 40 45

Ala Lys Ala Pro
 50

<210> 8093
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8093

Arg Phe Lys Ile Ile Thr Lys Leu Leu Lys Phe Leu Arg Lys His Val
 1 5 10 15

Pro Ala Gly Ala
 20

<210> 8094
 <211> 46
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8094

Trp Met Arg Leu Met Arg Lys Met Leu Arg Arg Ile Cys His Asn Leu
 1 5 10 15

Val Ala Leu Leu His Pro His Lys His Lys Ala Tyr Ala Ala Ile His
 20 25 30

His Ala Asp Arg Cys Ile Arg Arg Lys Leu Arg Lys Leu Leu
 35 40 45

<210> 8095
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8095

Phe Met Lys Tyr Tyr Lys Arg Met Leu Lys Ile Leu Arg His Arg Lys
 1 5 10 15

Ala Thr Leu Ile Ala
 20

<210> 8096
 <211> 47
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8096

Arg Leu Arg Leu Leu Gln Lys Leu Phe Lys Met Trp Ser Lys Pro Ile
 1 5 10 15

Asn Leu Ala Gln Ala Ile Arg Arg Pro Met Val Ala Glu Lys Lys Ala
 20 25 30

Trp Val Ala Lys Lys Arg Val Leu Tyr Met Gly Leu Arg Lys Arg
 35 40 45

<210> 8097
 <211> 26
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8097

Arg Phe Arg Phe Trp Gln Arg Leu Tyr Lys Lys Leu Arg Arg Cys Leu
 1 5 10 15

Asp Val Leu Asn Lys Lys Ala Ala Asn
 20 25

<210> 8098
 <211> 41
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8098

Arg Trp Arg Tyr Phe Lys Arg Ile Met Arg Ile Leu Lys Arg Ile Pro
 1 5 10 15

Ala Lys Lys Lys Met Lys Lys Asn Asp Ile Leu Leu Ala Asp Ala Ala
 20 25 30

Ala Tyr Asp Leu Glu Trp Arg Ala Met
 35 40

<210> 8099
 <211> 77
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8099

Lys Ile Arg Ile Phe Lys Arg Ile Leu Arg Lys Trp Arg Ser Phe Leu
 1 5 10 15

Arg Leu Gly Arg Pro Phe Leu Met Leu Arg Leu Ala Arg Ala Thr Arg
 20 25 30

Ala Ala Leu Ala Val Lys Phe Trp Arg Asn Ala Met Met Leu Asn Ala
 35 40 45

Met Met Lys Leu Leu Cys Val Glu Glu Ala Trp Arg Arg Lys Ala Ser
 50 55 60

Leu Thr Arg Ala Lys Glu Met Leu His Lys Lys Trp Leu
 65 70 75

<210> 8100
 <211> 45
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8100

Trp Leu Arg Phe Leu Pro Arg Leu Leu Arg Ile Phe Cys Lys Lys Asp
 1 5 10 15

Gly Arg Ala Pro Ala Leu Ala Phe Arg Lys Tyr Ala His Arg His Thr
 20 25 30

Leu Asn Ala Ala Leu Pro Lys Lys Leu Gly Met Leu Cys
 35 40 45

<210> 8101

<211> 49
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8101

Leu Leu Arg Leu Ile Asn Lys Leu Leu Lys Arg Leu Arg Arg Met Ala
 1 5 10 15

Asn Ala Leu Lys Ser Asn Tyr Arg Phe Arg Asp Ala Pro Arg Gly Lys
 20 25 30

Ala Pro Lys Arg Gly Ala Leu Arg Phe Trp Met Val Ser Ala Leu Thr
 35 40 45

Leu

<210> 8102
 <211> 91
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8102

Lys Met Arg Phe Tyr Arg Arg Tyr Leu Lys Lys Leu Thr Arg Leu Phe
 1 5 10 15

Lys Leu Pro Ser Tyr Cys Val Leu Ile Lys Cys Lys Met Phe Leu Cys
 20 25 30

Asn Lys Trp Ala Pro Cys Asn Trp Val Leu Phe Ala Pro Leu Lys Leu
 35 40 45

Lys Ala Arg Arg Lys Tyr Asp Phe Arg Arg Ala Arg Gln Ser Tyr Leu
 50 55 60

Lys Ile Arg Met Arg Pro Ala His Asn His Arg Asp Leu Ala Arg Ala
 65 70 75 80

Gln Leu Lys Ala Gln Leu Arg Leu Leu Leu Ala
 85 90

<210> 8103
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8103

Arg Leu Lys Leu Phe Gln Lys Met Met Arg Trp Ile Lys Arg Lys Met
 1 5 10 15

Trp Asn Ala Arg Ala Glu Leu Asn Tyr Glu Ala Arg Gln Leu Leu Arg
 20 25 30

Ile Ala

<210> 8104
 <211> 77
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8104

Lys Trp Lys Leu Tyr Gln Arg Ile Trp Lys Leu Leu Arg Cys Pro Lys
 1 5 10 15

Ala Leu Lys Arg Ala Asn Leu Arg Lys Lys Tyr Lys Lys Cys Ser Lys
 20 25 30

Lys Leu Arg Gly Asn Lys Ala Val Ala Val Asp Arg Leu Thr Ala Arg
 35 40 45

Met Phe Asn Arg Pro Thr Ala Leu Leu Phe Lys Leu Trp Phe Gln Leu
 50 55 60

Leu Ile Lys Lys Phe Val Gly Pro Leu Lys Lys Ala Ala
 65 70 75

<210> 8105
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8105

Lys	Leu	Arg	Phe	Leu	Cys	Lys	Leu	Leu	Lys	Arg	Trp	Arg	Arg	Tyr	Leu
1				5					10					15	

Glu	Trp	Asn	Asn	Glu
				20

<210> 8106

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8106

Phe	Leu	Lys	Leu	Trp	Gln	Lys	Met	Tyr	Lys	Arg	Leu	Arg	Lys	Ala	Leu
1				5					10					15	

Leu	Glu	Leu	Lys	Met	Tyr	Asn	Ala	Leu	Met
			20					25	

<210> 8107

<211> 79

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8107

Lys	Ile	Arg	Met	Leu	Lys	Lys	Met	Tyr	Arg	Lys	Phe	Lys	Lys	Lys	Ala
1				5					10					15	

Val	Ala	Met	Leu	Lys	Lys	Ala	Tyr	His	Leu	Lys	Lys	Ala	His	Ala	Phe
			20					25					30		

Asn	Gln	Ala	Arg	Ser	Leu	Asp	Leu	Ala	Ala	Glu	Ile	Tyr	Lys	Leu	Val
		35					40					45			

Arg	Ala	Arg	Cys	Phe	Leu	Tyr	Glu	Val	Ile	Asn	Arg	Lys	Lys	Met	Pro
	50					55					60				

Glu	Arg	Thr	Trp	Asn	Arg	Pro	Leu	Lys	Leu	Leu	Asn	Thr	Ala	Lys
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

65 70 75

<210> 8108
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8108

Lys Leu Arg Leu Leu His Lys Phe Leu Lys Arg Leu Arg Lys Lys Thr
 1 5 10 15

Lys Phe Asn Leu Asp Trp Asn Thr His Leu Ala Ser Ser
 20 25

<210> 8109
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8109

Leu Phe Arg Phe Phe Gln Lys Trp Leu Arg Phe Leu Arg Lys Ala Ala
 1 5 10 15

Lys Cys Gly Phe Ala Arg Asp Phe Leu Lys Leu Lys Arg Ala Arg Leu
 20 25 30

Leu

<210> 8110
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8110

Lys Phe Arg Leu Leu Lys Lys Leu Leu Lys Arg Phe Thr Cys Arg Asn
 1 5 10 15

Gln Thr His Leu Leu Lys

20

<210> 8111
 <211> 46
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8111

Lys Phe Arg Trp Phe Arg Arg Leu Tyr Arg Lys Leu Thr Pro Leu Lys
 1 5 10 15

Arg Leu Val Arg Ala Asn Leu Ala Ala Thr Phe Leu Arg Leu Ile Ala
 20 25 30

Leu Ile Ala Lys Ser Ile Ala Leu Met Lys Tyr Arg Arg Glu
 35 40 45

<210> 8112
 <211> 71
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8112

Arg Leu Lys Leu Phe Lys Arg Leu Met Arg Arg Ile Arg Pro Thr Gly
 1 5 10 15

Leu Cys Lys Lys Lys Leu Ala Ser Met Arg Cys Lys Arg Trp Leu Arg
 20 25 30

Gln Lys Cys Ala Met Lys Trp Gly Trp Lys Val His Leu Thr Lys Ala
 35 40 45

Arg Ala Leu Lys Ser Glu Pro Ala Ala Asn Ala Met Glu Ile Arg Met
 50 55 60

Lys Lys Gln Ile Ala Ala Lys
 65 70

<210> 8113
 <211> 94
 <212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8113

Arg Leu Lys Phe Trp Arg Lys Leu Leu Arg Lys Leu Thr His Leu Arg
1 5 10 15

Lys Leu Ala Lys Val Arg Cys Arg Ser Ala Ala Tyr Arg Tyr Arg Cys
20 25 30

Leu Tyr Ala Gly Ile Tyr Pro Thr Ala Arg Ala Ile Met Ala Lys Ala
35 40 45

Lys Gly Arg Lys Ala Lys His Cys Leu Gln Glu Lys Leu Gln Gly Ala
50 55 60

Leu Asn Arg Leu Met Ala Gly Thr Ala Lys Thr Tyr Trp Ala Arg Leu
65 70 75 80

Asp Met Ile Thr Ala Pro Arg Gln Leu Lys Trp Tyr Leu Gln
85 90

<210> 8114

<211> 67

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8114

Tyr Leu Lys Leu Leu Lys Lys Leu Leu Lys Leu Ile Asn Lys Lys Gln
1 5 10 15

Ala Gly Arg Tyr Tyr Arg Cys Gly Phe Lys Asn Arg Lys Asn Cys Lys
20 25 30

Arg Ala Trp Lys Met Asp Phe Ile Arg Lys Asp Glu Met Lys Pro Lys
35 40 45

Arg Phe Asp Ala Asn Lys Leu Leu His Tyr Ala Thr Arg Lys Ala Leu
50 55 60

Ala Ala Val

65

<210> 8115
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8115

Tyr Leu Lys Ile Leu Cys Arg Leu Phe Lys Tyr Trp His Thr Glu Leu
 1 5 10 15

Ala Leu Arg Arg
 20

<210> 8116
 <211> 67
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8116

Arg Phe Arg Phe Trp Arg Lys Trp Leu Arg Lys Leu Gln Pro Tyr Cys
 1 5 10 15

Val Tyr Leu Asp Ala His Asp Ala Leu Lys Asp Lys Thr Leu Met Lys
 20 25 30

Lys Ala Arg Arg Val Leu Arg Pro Val Pro Gln Arg Lys Gly Ala Lys
 35 40 45

Arg Leu Gln Leu Tyr Thr Leu Leu Arg Asn Arg Leu Lys Arg Leu Leu
 50 55 60

Ile Glu Arg
 65

<210> 8117
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8117

Leu Tyr Arg Leu Tyr Cys Lys Ile Leu Lys Lys Leu Asn His Lys Leu
1 5 10 15

Arg Ala Ala Arg Leu Pro
20

<210> 8118

<211> 76

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8118

Leu Phe Lys Phe Met Arg Arg Leu Tyr Lys Met Tyr His Lys Arg Thr
1 5 10 15

Ala Arg Arg Lys Leu Arg Leu Lys Leu Leu Phe Arg Met Glu Glu Phe
20 25 30

Ala Ala Ala Ile Gly Leu Asp Lys Leu Asn Lys Glu Lys Leu Leu Arg
35 40 45

Ile Ala Arg Arg Leu Lys Asn Trp Ala Lys Leu Lys Lys Ser Pro Phe
50 55 60

Ile Arg Phe Val Ile Leu Trp Asn His Leu Leu Lys
65 70 75

<210> 8119

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8119

Arg Met Arg Met Tyr Lys Arg Leu Met Arg Leu Phe Lys Ser Leu Ala
1 5 10 15

Lys Ala Trp Tyr
20

<210> 8120
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8120

Arg Leu Arg Leu Phe Ser Lys Tyr Ile Lys Lys Leu Arg Lys His Leu
 1 5 10 15

Glu Pro Leu Leu Phe Lys Phe Leu
 20

<210> 8121
 <211> 76
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8121

Arg Tyr Arg Trp Ile Ser Lys Met Met Lys Leu Phe Cys Lys Trp Lys
 1 5 10 15

Lys Ala Cys His Ala Met Lys Trp Arg Tyr Ile Lys Asn Cys Phe Leu
 20 25 30

Ala Ala Arg Arg Leu Lys Val Arg Arg Gly Lys Phe Ala Gly Val Glu
 35 40 45

Ala Lys Asp Arg Ala Ala Asn Val Leu His Ala Cys Arg Ala Lys Ser
 50 55 60

Ala Ala Arg Ser Ala Leu Met Leu Cys Leu Arg Leu
 65 70 75

<210> 8122
 <211> 59
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8122

Ile Met Lys Met Phe Arg Lys Trp Leu Arg Arg Phe Lys Lys Leu Ser
 1 5 10 15

Gly Arg Cys Lys Arg Pro Asp Phe Arg Leu Leu Ala Arg Ala Ala Thr
 20 25 30

Asn Lys Asp Lys Met Pro Ala Ala Met Ala Glu Leu Lys Arg Arg Thr
 35 40 45

Leu Phe Phe Ala Ala Arg Gln Ala Phe Arg Glu
 50 55

<210> 8123

<211> 47

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8123

Leu Tyr Arg Leu Ile His Lys Ile Tyr Arg Lys Ile Asn Arg Lys Met
 1 5 10 15

Leu Asn Leu Pro Lys Arg Lys Phe Ser Lys Leu Ser Met Ala Ala Ser
 20 25 30

Gln Gly Leu Leu Leu Arg Ile Phe Arg Phe Lys Lys Lys Ser Ala
 35 40 45

<210> 8124

<211> 54

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8124

Arg Leu Arg Tyr Leu Lys Lys Phe Leu Lys Lys Met Lys Arg Leu Glu
 1 5 10 15

Arg His Ala Met Thr Lys Trp Ser Lys Ala Cys Ile Val Phe Lys Leu
 20 25 30

Ala Ala Glu Ala Asp Ala Cys His Arg Leu Val Ala Val Tyr Met Arg

35

40

45

Ser Lys Arg Gln Lys Glu
50

<210> 8125
<211> 48
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 8125

Lys Tyr Lys Leu Met Gln Lys Leu Phe Lys Arg Leu Asn Arg Leu Gln
1 5 10 15

Gln Ala Ala Lys Lys Lys Leu Ala Ala Ser Ile Ile Arg Gln Leu Glu
20 25 30

Cys Ala Arg Ala Lys Ala Lys Lys His His Arg Lys Cys Trp Lys Leu
35 40 45

<210> 8126
<211> 57
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 8126

Arg Tyr Arg Leu Ile Lys Lys Met Tyr Arg Lys Trp Arg Ser Glu Val
1 5 10 15

Lys Asp Asn Tyr Cys Arg Arg Leu Leu Lys Arg Lys Leu Ile Thr Cys
20 25 30

Trp Leu Lys Arg Leu Ala Ser Ser Ala Glu Arg Arg Lys Tyr Ser Leu
35 40 45

Ala Ile Ala Leu Pro Ala Ser Gly Ala
50 55

<210> 8127
<211> 40
<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8127

Lys Trp Arg Met Trp Lys Lys Leu Phe Lys Arg Met Arg Gln Arg Arg
1 5 10 15

Glu Tyr Phe Ala Lys Ala Asp Leu Val Met Asp Ala Arg Arg Pro Leu
20 25 30

Ile Tyr Leu Ser Ala Gly Lys Leu
35 40

<210> 8128

<211> 52

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8128

Arg Leu Arg Ile Phe Lys Arg Trp Trp Lys Arg Tyr Arg Thr Ala Lys
1 5 10 15

His Leu Ala Pro Cys Ala Asp Arg Cys Ser Ala Arg Lys Arg Ala Glu
20 25 30

Pro Arg Lys Val Cys Leu Leu Lys Cys Ala Ala Val Ile Ala Gln Gly
35 40 45

Arg Leu Trp Trp
50

<210> 8129

<211> 83

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8129

Ile Tyr Arg Leu Met Lys Lys Met Met Lys Lys Leu Lys Arg Leu Lys
1 5 10 15

Cys Val Arg Phe Thr Ala Ala Ala Gln Lys Tyr Leu Ala Asn Val Asp
 20 25 30

Trp Phe Ala Lys Met Asn Leu Ala Ala Asp Pro Lys Lys Ser Cys Thr
 35 40 45

Arg Glu Arg Leu Cys Arg Ala Lys Leu Tyr Ala Lys Thr Ala Ser Cys
 50 55 60

Val Arg Lys Phe Lys Lys Phe Leu Leu Arg His Lys Met Arg Ser Tyr
 65 70 75 80

Lys Trp Ala

<210> 8130
 <211> 45
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8130

Lys Leu Arg Leu Leu Lys Lys Leu Leu Arg Lys Leu Arg Arg Cys Leu
 1 5 10 15

Gly Leu Cys Leu Cys Ala Phe Gly Asp Pro Ala Val Gly Arg Trp Arg
 20 25 30

Gln Ile Thr Pro Glu Cys Leu Leu Asn Arg Ala Ile Asp
 35 40 45

<210> 8131
 <211> 55
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8131

Tyr Phe Arg Phe Phe Arg Lys Phe Met Lys Arg Met Arg Lys Ala His
 1 5 10 15

Lys Met Ala Gln Ala Ala Glu Arg Arg Lys Tyr Lys Ala Cys Arg Gly

20

25

30

Gly Ala Ala Arg Ala Trp Asn His Cys Leu Lys Ala Thr Thr Phe Arg
 35 40 45

Trp Leu Leu Arg Gln Leu Lys
 50 55

<210> 8132

<211> 46

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8132

Arg Ile Arg Phe Leu Arg Arg Phe Trp Arg Arg Trp Pro Lys Arg Leu
 1 5 10 15

Met Pro Gly Ser Lys Ala Leu Arg Ala Met Leu Glu Leu Thr Thr Lys
 20 25 30

Lys Ala Ala Ala Arg Lys Asn Leu Leu Gln Trp Asn Pro Ala
 35 40 45

<210> 8133

<211> 31

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8133

Lys Leu Arg Met Met Lys Lys Leu Leu Lys Arg Leu Lys Asn Ala His
 1 5 10 15

Lys Ser Asn Tyr Lys Tyr Leu Ala Ala Trp Trp Leu Lys Lys Trp
 20 25 30

<210> 8134

<211> 72

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8134

Leu Trp Arg Phe Leu Lys Lys Met Phe Arg Leu Phe Arg Arg Ser Ala
 1 5 10 15

Arg Lys Tyr His Ile Arg Arg Ile Met Arg Tyr Lys His Gln Ala Tyr
 20 25 30

Lys Pro Arg Pro Ala Ala Thr Met Leu Arg Ser Arg Lys Ala Ile Ala
 35 40 45

Gln Val Leu Glu Ala Thr Asn Ala Gly Lys Lys Ser Arg Arg Ala Lys
 50 55 60

Ala Ala Arg Leu Glu Leu Asn Leu
 65 70

<210> 8135

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8135

Arg Phe Arg Trp Leu Arg Lys Trp Leu Arg Arg Leu Pro Asn Arg Gln
 1 5 10 15

Gly Leu Thr Asn Leu
 20

<210> 8136

<211> 60

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8136

Arg Leu Arg Leu Phe Lys Arg Trp Phe Lys Arg Ile Asn Arg Ala Met
 1 5 10 15

His Ala Cys Ala Lys Arg Arg Leu Leu Pro Lys Thr Phe Gln Tyr Ala
 20 25 30

Lys Thr His Ala Lys Leu Ile Ser Asp Ala Glu Pro Gln Leu Pro Leu
 35 40 45

Trp Tyr Ala Arg Tyr Arg Ala Leu Lys Gln Trp Leu
 50 55 60

<210> 8137
 <211> 60
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8137

Arg Tyr Arg Ile Phe His Arg Met Phe Arg Lys Leu Thr Lys Tyr Phe
 1 5 10 15

Trp Lys Glu Leu Gly Asp Leu Leu Phe Arg Ala Lys Leu Glu Ala Glu
 20 25 30

Cys Ala Leu Lys Leu Leu Phe Ala Ile Ala Arg Ser Leu Leu Leu His
 35 40 45

Asn Ile Cys Leu Leu Arg Ser Met Arg Leu His Lys
 50 55 60

<210> 8138
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8138

Lys Leu Arg Phe Phe Lys Arg Leu Tyr Lys Arg Leu Lys Lys Lys Phe
 1 5 10 15

Trp Asp Leu Met Pro Leu Leu Ala Arg Gln Ala Ala Gly Lys Lys Tyr
 20 25 30

Ala Lys

<210> 8139

<211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8139

Lys Leu Arg Trp Leu Gln Lys Ile Ile Arg Leu Leu Lys Gln Met Ala
 1 5 10 15

Gly Pro Gln Leu Asn Thr Leu Leu Arg Trp Met Arg Leu Lys
 20 25 30

<210> 8140
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8140

Met Tyr Lys Leu Leu His Arg Leu Phe Lys Met Trp Gln Arg Leu Leu
 1 5 10 15

Cys Phe Lys Lys Ala Ala
 20

<210> 8141
 <211> 93
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8141

Trp Ile Arg Met Ile Lys Arg Leu Leu Lys Leu Leu Lys Pro Leu Arg
 1 5 10 15

Arg Ala Glu Ala Gln Arg Ala Glu Arg Ser His Glu Ala Leu Lys Phe
 20 25 30

Arg Trp Gly Ala Arg Ile Leu Lys Lys Arg Ala Leu Pro Asn Asp Val
 35 40 45

Asp Ala Ala Phe Ile Trp Arg Lys Arg Glu Leu Thr Arg Gly Leu Tyr

50

55

60

Leu Lys Lys Glu Leu Ala Gly Arg Ala Leu Asn Arg Ser Val Asp Ala
 65 70 75 80

Asn Val Ala Ala Leu Cys Glu Arg Ala Leu Met Leu His
 85 90

<210> 8142

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8142

Ile Ile Lys Leu Leu Cys Lys Trp Leu Lys Lys Ile Arg Lys Gly Thr
 1 5 10 15

Lys Thr Val Leu Leu Lys Thr Lys Arg Thr Met Leu Arg Gln Ala Ala
 20 25 30

<210> 8143

<211> 43

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8143

Phe Leu Lys Ile Trp Lys Arg Leu Phe Lys Arg Met Lys Gln Lys Phe
 1 5 10 15

Leu Ile Cys Ala Phe Ile Glu Lys Ser Phe Leu Ala Ala Met Leu Arg
 20 25 30

Cys Ile Lys Ala Lys Arg Arg Leu Val Ala Lys
 35 40

<210> 8144

<211> 66

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8144

Trp Leu Arg Leu Leu Lys Lys Leu Leu Lys Lys Leu Arg Gln His Lys
 1 5 10 15

Ala Phe Lys Arg Ile Ser Arg Lys Leu Glu Cys Arg Ala Leu Gly Phe
 20 25 30

Arg Cys Ile Asn Lys Arg Ala Tyr Arg Leu Ala Gly Asn Ser Trp Pro
 35 40 45

Leu Cys Leu Lys Pro Leu Val Gln His Arg His Ala Cys Val Cys Val
 50 55 60

Lys Lys
 65

<210> 8145

<211> 63

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8145

Lys Tyr Lys Phe Leu Arg Lys Ile Phe Lys Arg Met Lys Gln Phe Leu
 1 5 10 15

Pro Gly Ala Leu Asp Leu Lys Ile Asp Lys Leu Arg Ala Ala Gln Val
 20 25 30

Met Val Lys Leu Thr Arg Val Leu Ile Lys Leu Leu Val Gly Gln Lys
 35 40 45

Tyr Ala Arg Gln Lys Asn Leu Leu Leu Thr Lys Ser Glu Ala Lys
 50 55 60

<210> 8146

<211> 92

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8146

Lys Trp Lys Met Trp Lys Lys Leu Tyr Arg Lys Leu His Pro Gly Lys
 1 5 10 15

Pro Ala Lys Lys Gly Ala Asp Phe Leu Gly Arg Ala Lys Leu Trp Ala
 20 25 30

Glu Ala Leu Lys Phe Arg Tyr Ala Leu Met Leu Asp Tyr Thr Leu Ser
 35 40 45

Leu Ile Asn Ser Leu Met Arg Ala Glu Asn Arg Lys Lys Gln Lys Cys
 50 55 60

Arg Lys Pro Ala Ser Ala Pro Met Ala Asp Arg Ala Arg Ala Lys Arg
 65 70 75 80

Tyr Phe Lys Gly Asn Leu Met Asn Ser Leu Arg Ala
 85 90

<210> 8147

<211> 54

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8147

Lys Leu Lys Leu Phe Lys Lys Phe Leu Arg Leu Phe Arg Arg Arg Cys
 1 5 10 15

Ala Ala Lys Ala Lys Tyr Arg His Thr Ile Ala Leu Ala Gly Ile Lys
 20 25 30

Gly Lys Pro Arg Thr Thr Arg Arg Tyr Phe Gln Ala Gln Arg Ala Gly
 35 40 45

Ala Tyr Gly Leu Phe Asn
 50

<210> 8148

<211> 46

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8148

Trp Leu Lys Ile Ile Lys Arg Met Phe Arg Met Leu Lys Lys Arg Lys
1 5 10 15

Glu Ala Arg Leu Ile Leu Ile Trp Arg Lys Trp Leu Gly Phe Thr Ala
20 25 30

Met Lys Ala Ala Asp Arg Ala Leu His Ala Ile Ile Ile Leu
35 40 45

<210> 8149

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8149

Leu Met Arg Leu Leu Arg Lys Leu Phe Lys Lys Leu Pro Lys Leu Arg
1 5 10 15

Met Ala Gln Cys Leu Leu Arg Pro Phe Thr Leu Pro Ala Asn
20 25 30

<210> 8150

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8150

Leu Phe Arg Phe Leu Arg Lys Ile Ile Arg Trp Leu Arg Asn Arg Arg
1 5 10 15

Leu Lys Gly Glu Ala Phe Leu Arg Val Ala Thr Gln Lys Glu
20 25 30

<210> 8151

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8151

Trp Trp Lys Leu Leu Lys Arg Leu Met Arg Ile Met Cys Lys Ala Gly
 1 5 10 15

Cys Pro Leu Thr Tyr Lys Lys Leu Arg
 20 25

<210> 8152

<211> 59

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8152

Leu Phe Arg Leu Ile Arg Lys Trp Ile Arg Ile Ile Lys Lys Lys Arg
 1 5 10 15

Leu Gln Met Gly His Ala Leu Asp Arg Asp Ser Ala Ala Phe Gly Leu
 20 25 30

Ile Arg Leu Ser Met His Ala Arg Leu Arg Arg Gly Ala Ser Ile Leu
 35 40 45

Thr Val Ala Lys Arg Cys Ala Lys Arg Lys Ala
 50 55

<210> 8153

<211> 62

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8153

Arg Trp Arg Phe Leu Lys Arg Leu Trp Lys Lys Trp Arg Lys Cys Lys
 1 5 10 15

Phe Lys Gln Thr Leu Ser Cys Phe Arg Leu Ile Asp Leu Ala Ser Leu
 20 25 30

Val Leu Tyr Gly Lys Tyr Ala Arg Ala Ala Ala Arg Leu Phe Leu Gln
 35 40 45

Lys Gln Ala Leu Lys Met Lys His Leu Ala Ile Asn Ile His
 50 55 60

<210> 8154
 <211> 52
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8154

Leu Ile Arg Met Leu Thr Lys Leu Leu Arg Lys Leu Thr Lys Leu Pro
 1 5 10 15

Asn Gly Arg Pro Pro Leu Arg Arg Thr Pro Val Val Arg Arg Arg Leu
 20 25 30

Lys Asn Cys Ala Trp Ala Met Arg Leu Leu Asp Ala Pro His Arg Asn
 35 40 45

Asp Leu Leu Lys
 50

<210> 8155
 <211> 98
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8155

Arg Trp Arg Leu Phe Arg Lys Met Leu Lys Lys Leu Lys Cys Gly Pro
 1 5 10 15

Gly Ala Asp Arg Lys Glu Lys Phe Asp Ser Ser Arg Ala Gly Lys Cys
 20 25 30

Leu Glu Phe Gln Met Lys Gln Leu Trp Arg Ala Gln Trp Cys His Gly
 35 40 45

Ala Lys Leu Arg Ala Leu Arg Lys Met Arg Lys Ala Leu Ala Ala Phe
 50 55 60

Asn Met Asp Arg Leu Leu Lys Arg Met Leu Arg Ala Lys Thr Ile Gly

<210>	8156
<211>	52
<212>	PRT
<213>	Artificial Sequence
<220>	
<223>	Computer-generated peptide variant
<400>	8156

Arg Ala Leu Arg
50

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<210> 8157
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 8157
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<210>	8158
<211>	33
<212>	PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8158

Lys Leu Lys Leu Leu Asn Lys Leu Leu Lys Arg Leu Ser Pro Ala Asp
1 5 10 15

Pro Lys Trp Leu Arg Ser Lys Ala Cys Tyr Gly Arg Pro Gln Leu Leu
20 25 30

Trp

<210> 8159

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8159

Lys Phe Lys Ile Tyr Lys Arg Leu Phe Arg Lys Phe Asn Lys Leu Leu
1 5 10 15

Leu Ala Trp Ile Arg Asp Leu Cys Val
20 25

<210> 8160

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8160

Leu Leu Lys Met Tyr Arg Lys Ile Leu Arg Arg Leu Asn Arg Ala Ser
1 5 10 15

Leu Pro Leu Ser Val Leu Met Met Pro Glu Arg Leu Ile
20 25

<210> 8161

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8161

Lys Leu Lys Phe Phe Pro Arg Trp Met Arg Lys Trp Gln Asn Ala Ile
1 5 10 15

Leu Arg Ala Glu Met Arg Tyr Lys Ala Ala Lys Ala Ala Lys Arg Thr
20 25 30

Ser His

<210> 8162

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8162

Tyr Trp Lys Leu Leu Lys Lys Trp Leu Arg Ile Phe Lys Lys Ile Ala
1 5 10 15

Cys Thr Asp Leu Ala Ala Leu Cys Arg Asn
20 25

<210> 8163

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8163

Leu Met Lys Leu Phe Arg Arg Leu Tyr Lys Leu Leu Asn Arg Thr Gln
1 5 10 15

Ile Lys Cys Ala Val Leu
20

<210> 8164

<211> 72

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8164

Lys Trp Arg Leu Tyr Pro Lys Leu Trp Arg Ile Leu Lys Pro Lys Phe
1 5 10 15

Cys Leu Leu Ala His Asn Ala Met Ser Ala Thr Met Leu Ala Leu Leu
20 25 30

Arg Ala Lys Asn Gly Lys Gln Ile Leu Pro Gln Lys Ala Gln Lys Arg
35 40 45

Cys Tyr Ala Val Lys Cys Leu Pro Trp Phe Arg Ala Ala Asn Lys Arg
50 55 60

Ala Lys Lys Pro Lys Trp Leu Gly
65 70

<210> 8165

<211> 51

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8165

Leu Trp Arg Phe Tyr Lys Lys Tyr Phe Lys Leu Leu Gln Arg Glu Leu
1 5 10 15

Lys Tyr Ala Ala Ala Lys Ala Arg Leu Arg Met Gln Ile Asn Thr Asp
20 25 30

Phe His Ala Glu Lys Arg Lys Gln Arg Glu Ala Pro Arg Arg Lys Thr
35 40 45

Ser Ala Leu
50

<210> 8166

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8166

Leu Leu Arg Tyr Leu Pro Lys Leu Leu Lys Arg Phe Arg Arg Glu Val
 1 5 10 15

Lys Lys Asn Arg Leu Pro Tyr Cys Tyr Tyr Met Trp Ala
 20 25

<210> 8167

<211> 55

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8167

Lys Phe Arg Tyr Leu Arg Arg Leu Leu Lys Lys Phe Arg His Leu Met
 1 5 10 15

Ala Arg Leu Arg Leu Lys Thr Trp Thr Val Arg Thr Leu Ala Gly Ala
 20 25 30

Pro Ala Ala His Trp Leu Val Lys Arg Glu Trp Asn Ala Lys Lys Asn
 35 40 45

Leu Gly Gly Lys Gln Leu Arg
 50 55

<210> 8168

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8168

Leu Leu Arg Met Leu Gln Lys Met Trp Arg Arg Phe Arg Arg Lys Leu
 1 5 10 15

Leu Gln Asn Ala Ala
 20

<210> 8169

<211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8169

Lys Leu Lys Leu Trp Pro Arg Phe Ile Arg Arg Leu Lys Arg Ala Trp
 1 5 10 15

Leu Phe Leu Lys His Gly Gly Gly
 20

<210> 8170
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8170

Leu Trp Arg Phe Ile Pro Arg Leu Leu Arg Tyr Ile Lys Arg Leu Phe
 1 5 10 15

Arg Lys Ala Leu Arg Arg Ala Met Phe Gln Leu Gln His Val Leu His
 20 25 30

Trp Leu

<210> 8171
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8171

Arg Met Lys Leu Tyr Pro Arg Leu Trp Lys Phe Trp Ser Arg Leu Ala
 1 5 10 15

Lys Leu Asp Thr Leu Arg Lys Leu Leu Arg Trp Arg
 20 25

<210> 8172

<211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8172

Arg Leu Lys Leu Ile Lys Lys Leu Trp Lys Lys Leu His Thr Lys Lys
 1 5 10 15

Thr Lys Gln Leu Asn Trp Ala Arg Cys Ala Trp Leu Val
 20 25

<210> 8173
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8173

Lys Trp Arg Leu Leu Cys Arg Ile Tyr Lys Met Trp Gln Lys Arg Leu
 1 5 10 15

Phe Ala Leu Val
 20

<210> 8174
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8174

Leu Leu Arg Phe Met Lys Lys Ile Leu Lys Leu Phe Thr Lys Lys Leu
 1 5 10 15

Asn Pro Gly Gly Arg Lys Tyr Gly Leu Arg Ala His Asn Lys Leu Ser
 20 25 30

Lys

<210> 8175

<211> 43
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8175

Arg Phe Arg Tyr Phe Lys Lys Leu Leu Lys Lys Phe Lys Lys Pro Cys
 1 5 10 15

Leu Lys Arg Gly Lys Leu Gln Glu Asn Lys Glu Ala Leu Ser Gly Val
 20 25 30

Lys Lys Arg Tyr Val Leu Leu Leu Val Ala Leu
 35 40

<210> 8176
 <211> 100
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8176

Lys Met Arg Leu Leu His Arg Leu Leu Lys Tyr Leu Arg Cys Lys Cys
 1 5 10 15

Ala Met Ala Ala Thr Trp Pro Ala Asp Pro Lys Lys Leu Asp Ser Lys
 20 25 30

Tyr Phe Tyr Leu Ser Glu Ala Leu Gly Arg Ala Leu Lys Ala Gly Lys
 35 40 45

Ala Leu Gln Val Leu Gly Ala Lys Gln Arg Lys Lys Val Arg Val Leu
 50 55 60

Trp Phe Leu Val Lys Trp Leu Lys Glu Arg Ala Ile Met Thr Met Asp
 65 70 75 80

Ala Leu Pro Asp Ser Trp Ala Gly Arg Arg Ala Val Leu Lys Ile Asn
 85 90 95

Ala Glu Ala Ala
 100

<210> 8177
 <211> 51
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8177

Lys Met Lys Leu Leu Thr Lys Tyr Leu Lys Arg Leu Thr Lys Leu Lys
 1 5 10 15

Ala Arg Ala Ala Asp Ile Val Lys Ile Ala Leu Phe Gln Leu Phe Gln
 20 25 30

Pro Lys Gln Ala Lys Tyr Leu Met Lys Ala Lys Gln Ala Gln Tyr Ala
 35 40 45

Ile Thr Ala
 50

<210> 8178
 <211> 54
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8178

Phe Met Lys Ile Leu Lys Arg Phe Phe Arg Leu Met Pro Arg Lys Glu
 1 5 10 15

Leu Leu Arg His His Ala Cys Cys His Arg Gln Asn Arg Leu Ala Glu
 20 25 30

Arg Leu Ala Tyr Ala Leu Ala Leu His Ala Leu Ser Arg Ile Arg Cys
 35 40 45

His Asp Leu Lys Leu Cys
 50

<210> 8179
 <211> 67
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8179

Leu Met Arg Met Leu Arg Lys Ile Leu Lys Arg Phe Arg Thr Arg Leu
 1 5 10 15

Val Ala Arg Thr Ala Thr Arg Asp Tyr Leu Tyr Phe Leu Lys His Ala
 20 25 30

Cys Lys Arg Ala Arg Pro Lys Thr Gly Gln Leu Asp Arg Leu Leu Lys
 35 40 45

Ala Gln Val Leu Lys Ile Phe Arg Val Met Gly Met Asp Arg Lys Gln
 50 55 60

Ala Ile Lys
 65

<210> 8180

<211> 87

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8180

Leu Tyr Arg Leu Phe Cys Arg Phe Leu Arg Lys Phe Arg Arg Val Val
 1 5 10 15

Arg Ala Glu Lys Ile Asn Ala Tyr Ala Cys Val Lys Arg Leu Lys Ile
 20 25 30

Leu Ala Gln Leu Pro Phe Val Ala Arg Arg Trp Leu Leu Asn Arg Lys
 35 40 45

Cys Lys Ala His Leu Arg Lys Phe Ala Arg Ser Ser Leu Arg Lys Glu
 50 55 60

Asn Glu Gly Glu Lys Leu Arg Ala Leu Leu His Gly Cys Gly Arg Asp
 65 70 75 80

Gln Arg Lys Met Leu Ala Leu
 85

<210> 8181
 <211> 43
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8181

Lys Phe Lys Leu Leu Ser Arg Tyr Leu Lys Leu Tyr Cys Asn Glu Ala
 1 5 10 15

Lys Lys Gln His Glu Ala Leu Tyr Asp Arg Leu Gly His Ala Trp Val
 20 25 30

Leu Lys Glu Arg Arg Leu Lys Trp Asn Leu Lys
 35 40

<210> 8182
 <211> 63
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8182

Arg Ile Lys Tyr Met Arg Arg Trp Leu Arg Arg Met Arg Lys Glu Ile
 1 5 10 15

Tyr Ala Cys Ala Glu Leu Arg Leu Lys Asp Pro Leu Ala Thr Leu Arg
 20 25 30

Asn Leu Asn Leu Ala Leu Ala Gly Asp His Leu Lys Leu Gln Glu Phe
 35 40 45

Ala Tyr Val Cys Lys Ala Ala Asp Leu Lys Met Cys Lys Lys Gln
 50 55 60

<210> 8183
 <211> 94
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8183

Lys Leu Lys Phe Leu Ser Arg Leu Leu Lys Arg Leu Thr His Arg Thr
 1 5 10 15

Leu Arg Ala Lys Asn Asn Lys Ala Ile Trp Asp Leu Ile Asn Phe Tyr
 20 25 30

Ser Ile Ala Leu Leu Glu Cys Arg Glu Ala Ile Lys Met Trp Lys Arg
 35 40 45

Phe Ala Met Cys Arg Lys Ala Cys Gly Leu Ala Arg Lys Lys Ala Phe
 50 55 60

Thr Ser Lys Pro Leu Cys Ala Trp Lys Trp Arg Thr Lys Gly Leu Lys
 65 70 75 80

Ile Ala Arg Leu Lys Cys Gln Asp Lys Ala Ala Ala Ile Ser
 85 90

<210> 8184

<211> 59

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8184

Arg Leu Lys Phe Ile Lys Arg Leu Leu Arg Arg Leu Gln Arg Ala Thr
 1 5 10 15

Tyr Leu Leu Phe Lys Val Cys Ala Gly His Tyr Arg Trp Ala Arg Ala
 20 25 30

Ile Thr Arg Leu Arg Leu Leu Gly Trp His Trp Arg Leu Arg Trp Arg
 35 40 45

Arg Leu Thr Leu Ile Ala Lys Leu Phe Ile His
 50 55

<210> 8185

<211> 49

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8185

Lys Met Lys Ile Tyr Lys Arg Leu Tyr Lys Lys Met His Lys Pro Met
 1 5 10 15

Ser Phe Trp Gly Ala Asn Arg Ser Asp Val His Lys Ala Lys Gly Leu
 20 25 30

Leu Lys Ala Ala Ala Arg Cys Arg Ala Cys Lys Arg Asp Ala Leu Ser
 35 40 45

Leu

<210> 8186

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8186

Lys Ile Arg Phe Leu Thr Lys Leu Phe Lys Leu Leu Lys Pro Arg Leu
 1 5 10 15

Lys Lys Leu Lys Lys Ala Asn Trp Leu Thr Ala
 20 25

<210> 8187

<211> 67

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8187

Lys Phe Lys Ile Leu Lys Arg Ile Phe Arg Arg Leu Lys Ser Glu Phe
 1 5 10 15

Asn Asp Leu Lys Ala Thr Ala Leu Asp Ala Asp Tyr Cys Val Phe Arg
 20 25 30

Asp Ala Cys Leu Arg Ala Lys Lys Thr Trp Phe Ala Asn Met Ser Arg
 35 40 45

Asp Asn Trp Lys Cys Lys Leu Gly Leu Arg Arg Ala Leu Leu Arg Lys
 50 55 60

Lys Asn Ala
 65

<210> 8188
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8188

Lys Phe Lys Phe Met Lys Arg Phe Leu Lys Arg Ile Lys Arg Arg His
 1 5 10 15

Pro Asp Leu Pro Ser Gly Gln Asp Phe Asp Leu Leu Arg Arg Leu Ala
 20 25 30

Thr Ala Ala Arg Ala Ala Asp Gln
 35 40

<210> 8189
 <211> 91
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8189

Arg Leu Arg Leu Phe Lys Lys Tyr Trp Arg Leu Met His Lys Ala Asn
 1 5 10 15

Leu Ala Lys Lys Gln Gln Asn His Leu Arg Glu Pro Leu Met Lys Gly
 20 25 30

Arg Arg Tyr Lys Trp Lys Arg Lys Asp Arg Arg Asn Ala Ala Lys Gly
 35 40 45

Thr Arg His Leu Asp His Leu Lys Gln Ala His His Leu Arg Cys Ala
 50 55 60

Met Thr Pro Lys Tyr Ala Leu Gly Leu Lys Met Met Asp Asp Arg Arg

Cys Arg Gln Val Ser Thr Ile Phe Leu Asn Met Arg Arg Leu Tyr Leu
 20 25 30

Leu Leu Leu Gln Leu Ala Arg Met Glu Leu Phe Lys Cys Lys
 35 40 45

<210> 8192

<211> 60

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8192

Lys Met Lys Phe Leu Ser Lys Tyr Leu Arg Leu Met His Arg Ala Asn
 1 5 10 15

Ala Cys Ile Leu Arg Ser Lys Leu Ser Met Ala Gln Leu Pro Trp Gln
 20 25 30

Leu Arg Arg Arg His Leu Leu Asn Leu Lys Ala Asp Ala Arg Arg Ser
 35 40 45

Trp His Glu Ile Arg Lys His Ala Leu Asn Arg Met
 50 55 60

<210> 8193

<211> 72

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8193

Tyr Phe Lys Phe Met Lys Arg Ile Trp Arg Phe Phe Arg Arg Lys Lys
 1 5 10 15

Leu Arg Asp Ala Arg Leu Ala Lys Val Glu Ala Asn Arg Asn Phe Pro
 20 25 30

Leu Ala Arg Arg Gly Arg Ala Val Lys Cys Lys Leu Tyr Arg Pro Ala
 35 40 45

Trp Arg Leu Ala Ala Ala Ala Arg Ile Val Lys Thr Leu Asn Ala Val

50

55

60

Glu Leu His Val Thr Leu Lys Arg
65 70

<210> 8194

<211> 64

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8194

Ile Leu Arg Leu Leu Gln Arg Tyr Leu Arg Lys Trp Gln Arg Pro Leu
1 5 10 15

His Ala Thr Ala Leu Glu Gly Ser Arg Thr Trp Asp Lys Arg Trp Arg
20 25 30

Lys Arg His Ala Ala His Leu Ser Leu Arg Leu His Lys Asp Arg Phe
35 40 45

Ala Lys Leu Arg Ala Ala Ile Arg Gly Cys Ala Ala Phe Leu Lys Ala
50 55 60

<210> 8195

<211> 38

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8195

Ile Leu Arg Phe Met Arg Arg Leu Phe Lys Leu Ile Gln Lys Ala Ala
1 5 10 15

Lys Lys Gln Ala Ile Trp Ser Lys Gly Arg Val Trp Arg Val Ala Tyr
20 25 30

Ala Lys Ala Lys Ile Met
35

<210> 8196

<211> 55

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8196

Arg Leu Lys Leu Phe Arg Lys Tyr Leu Lys Lys Phe Lys Arg Lys Leu
1 5 10 15

Asn Ala Asp Leu Thr Ser Ser Leu Ile Arg Leu Ala Val Arg His Lys
20 25 30

His Asn Lys Leu Lys Tyr Pro Val Ala Cys Gln Tyr Arg Leu Cys Leu
35 40 45

Pro Ala Leu Tyr Ser Ala Met
50 55

<210> 8197

<211> 49

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8197

Lys Phe Arg Trp Phe Gln Arg Met Phe Lys Arg Leu Lys Arg Leu Lys
1 5 10 15

Leu Ile Arg Arg Lys Gly Arg Lys Lys Leu Ala Thr Met Ile Ser Gln
20 25 30

Arg Pro Glu Trp Arg Leu Ala Glu Phe Ala Ala Leu Leu Ala Ala Lys
35 40 45

Val

<210> 8198

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8198

Tyr Leu Arg Leu Ile Arg Arg Phe Leu Lys Tyr Phe Cys Lys Arg Lys
 1 5 10 15

Leu Asp Val Ala Trp Ala Asn Trp Ala Ala Val Gln Gln Ala Ala Arg
 20 25 30

Gly Lys

<210> 8199
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8199

Ile Leu Arg Tyr Tyr Asn Lys Leu Ile Lys Leu Phe Asn Lys Ile Ala
 1 5 10 15

Leu Lys Ala Gly
 20

<210> 8200
 <211> 72
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8200

Lys Leu Lys Tyr Leu Arg Arg Ile Leu Lys Lys Leu Cys Arg Arg Phe
 1 5 10 15

Trp Arg Asp Arg Phe Trp Ala Thr Cys Arg His Lys Glu Leu Leu Lys
 20 25 30

Ala Val Asn Met Cys Ala His Leu Cys Met Lys Leu Leu Arg Tyr Leu
 35 40 45

Arg Arg Arg Cys Leu Met Asn Ala Trp Gln Ala Leu Ala Ile Arg Phe
 50 55 60

Tyr Cys Arg Asn Lys His Ala Gln

65

70

<210> 8201
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8201

Phe Leu Arg Leu Trp Thr Lys Phe Phe Lys Arg Leu Gln Lys Ala Tyr
 1 5 10 15

Ala Leu Leu Cys Cys Lys Asp
 20

<210> 8202
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8202

Lys Leu Arg Ile Leu Arg Lys Leu Leu Lys Lys Leu Ser Pro Arg Lys
 1 5 10 15

Cys Trp Ala Asp Met Gln Gln Ala Asn Ala Met Arg Arg Leu His Lys
 20 25 30

<210> 8203
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8203

Lys Met Arg Leu Tyr His Arg Leu Trp Arg Phe Leu His His Asn Arg
 1 5 10 15

Asp Ala Lys Gln Leu Leu Arg
 20

<210> 8204

<211> 52
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8204

Trp Tyr Lys Ile Tyr Lys Lys Leu Trp Arg Ile Tyr Arg Arg Leu Asn
 1 5 10 15

Ser Arg Arg Ser Ala Cys Leu Arg Phe Met Asn Leu Ala Leu Lys Lys
 20 25 30

Lys Ala Ala Gln Lys Arg Leu Trp Arg Ala Lys Tyr Lys Val Arg Asn
 35 40 45

Leu Ser Leu Gln
 50

<210> 8205
 <211> 79
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8205

Lys Leu Lys Leu Tyr Arg Arg Met Ile Arg Trp Phe Arg Lys Phe Ser
 1 5 10 15

Asp Lys Lys Val Gln Arg Cys Val Ala Trp Leu Ala Lys Ala Leu Pro
 20 25 30

Ile Ala Lys Met Ala Arg Ala Leu Val Ala Phe Lys Val Leu Val Lys
 35 40 45

Trp Ile Leu Arg Ile Leu Phe Leu Asp Arg Gly Ala Arg Asn Cys Lys
 50 55 60

His Glu Tyr Glu Arg Arg Leu Ala Ser Arg Lys Cys Ile Ala Ala
 65 70 75

<210> 8206
 <211> 86
 <212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8206

Lys Tyr Arg Phe Phe Lys Arg Ile Trp Lys Leu Tyr Lys Lys Ala Arg
1 5 10 15

Asn Ala Lys Pro Leu His Arg Arg Asp His Cys Phe Ala Leu Leu Ala
20 25 30

Asn Gln Leu Pro Ala Ile Leu Gly Leu Ala Lys Gln Ser Arg Tyr Leu
35 40 45

Leu Gly Arg Lys Ser Trp Arg Lys Cys Cys Lys Ser Lys Tyr Glu Ala
50 55 60

Leu Arg Glu Val Asn Ile Leu Ala Pro Asp Lys Arg Lys Ala Arg Ala
65 70 75 80

Asp Lys Ala Ser Val Lys
85

<210> 8207

<211> 31

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8207

Ile Met Lys Phe Leu Asn Arg Phe Leu Lys Phe Trp Lys Lys Asn Lys
1 5 10 15

Thr Pro Tyr Ala Arg Ala Arg Ala Leu Ala Arg Leu Phe Arg Thr
20 25 30

<210> 8208

<211> 37

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8208

Lys Leu Lys Leu Tyr Gln Arg Ile Tyr Arg Leu Leu His Ser Asn Ala
 1 5 10 15

Asn Met Val Arg Asp Lys Phe Leu Arg Arg Lys Leu Leu Gln Ala Ser
 20 25 30

Met Lys Arg Met Arg
 35

<210> 8209
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8209

Lys Leu Lys Met Leu Cys Lys Tyr Leu Lys Leu Trp Lys Arg Ala Ser
 1 5 10 15

Cys Leu Lys Ala
 20

<210> 8210
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8210

Arg Leu Arg Tyr Leu Arg Lys Leu Leu Lys Lys Leu Thr Arg Phe Arg
 1 5 10 15

Asp Asn Leu Lys Phe Gly Ile Arg Lys Leu Cys Thr Tyr Ile Asn Leu
 20 25 30

<210> 8211
 <211> 56
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8211

Phe Leu Lys Leu Phe Arg Lys Tyr Phe Lys Tyr Phe Pro Arg Cys Leu
 1 5 10 15

Asp Lys Met Gln His Val Asn Leu Trp Leu Leu Leu Lys Leu Thr Ala
 20 25 30

Ala Glu Phe Leu Trp Phe Lys Arg Thr Arg Leu Lys Gln Arg Met Leu
 35 40 45

Pro Ala Lys Arg Arg Gly Arg Ala
 50 55

<210> 8212
 <211> 49
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8212

Lys Phe Arg Leu Leu Lys Arg Phe Trp Arg Phe Leu Lys His Ala Gly
 1 5 10 15

Leu Val Arg Leu Ile Gly Arg Leu Thr Leu Leu Thr Lys Ala Arg Ala
 20 25 30

Pro Leu Leu Asp Ser Glu Ala Lys Arg Trp Lys Arg Arg Val Trp Ala
 35 40 45

Ile

<210> 8213
 <211> 96
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8213

Leu Leu Arg Leu Leu Gln Arg Phe Leu Lys Ile Phe Lys Ser Leu Lys
 1 5 10 15

Ala Ala Val Glu Ser Ala Ala Leu Val Pro Ala Arg Val Ile Tyr Arg

Arg	Phe	Arg	Leu	Met	Arg	Lys	Phe	Trp	Arg	Trp	Trp	Lys	Asn	Thr	Lys
1				5					10					15	
Ser	Met	Trp	Arg	Pro	Ile	Gln	Leu	Arg	Leu	Val	Phe	Ala	Ala	Arg	Leu
			20					25					30		
Gly	Lys	Arg	Gln	Met	Leu	Arg	Tyr	Arg	Ala	Ala	Asp	Pro	Ala	Leu	Ala
		35					40					45			
Ala	Lys	Met	Arg	Ala	Val	Gln	Thr	Leu	Arg	Leu					
	50					55									

Arg Ile Arg Trp Ile Arg Arg Leu Tyr Arg Lys Phe Lys Arg Leu Lys
1 5 10 15

Ala Arg Leu Trp Gly Glu Lys Arg Phe Trp Cys Ala Leu Lys Lys Leu
 20 25 30

Tyr Ala Leu Ala Thr Thr Glu Cys Leu Arg Leu Lys Leu Gln
 35 40 45

<210> 8216

<211> 72

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8216

Leu Ile Arg Leu Tyr Pro Lys Phe Met Arg Leu Phe Pro Asn Gly Trp
 1 5 10 15

Ile Arg His Gly Ala Arg Glu Cys Lys Tyr Leu Gly Lys Arg Ala Trp
 20 25 30

Arg Gln Ile Ala Asp Leu Ala Glu Lys Cys Met Ala Lys Ala Lys Lys
 35 40 45

Asn Ala Arg Leu Arg Leu Arg Asn Lys Leu Trp Ala Lys Ala Met Ala
 50 55 60

Lys Lys Lys Ser Ile Tyr Met Leu
 65 70

<210> 8217

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8217

Arg Ile Arg Trp Leu Lys Lys Tyr Tyr Arg Leu Ile Lys Pro Gly Phe
 1 5 10 15

Leu Ala Leu Asp Ala Arg Asp Pro Leu Lys Met
 20 25

<210> 8218

<211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8218

Trp Met Arg Met Leu Arg Lys Leu Leu Lys Phe Met Lys Cys Ser Met
 1 5 10 15

Arg Ala Ala Arg Phe Ala Lys Leu Thr
 20 25

<210> 8219
 <211> 39
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8219

Arg Leu Arg Ile Leu Asn Lys Leu Phe Lys Arg Tyr Arg Gln Trp Lys
 1 5 10 15

Cys Leu Leu Ala Ala Leu Leu Lys Gln Ser Lys Lys Leu Gly Arg His
 20 25 30

Lys Thr Met Trp Cys Cys His
 35

<210> 8220
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8220

Arg Leu Arg Phe Phe Lys Lys Leu Leu Lys Arg Phe Lys Pro Lys Leu
 1 5 10 15

Leu Leu Asp Ala Arg
 20

<210> 8221

<211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8221

Trp Leu Lys Met Leu Arg Arg Leu Phe Lys Leu Phe His Arg Asp Cys
 1 5 10 15

Thr Ser Arg Lys Ala
 20

<210> 8222
 <211> 37
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8222

Lys Leu Lys Leu Trp Arg Lys Leu Tyr Lys Ile Tyr Arg Arg Leu Met
 1 5 10 15

Trp Asp Arg Leu Gly Leu Phe Phe Cys Thr Phe Ala Gly Ala Arg Lys
 20 25 30

Met Arg Ala Leu Ala
 35

<210> 8223
 <211> 43
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8223

Lys Leu Lys Phe Met Arg Arg Trp Phe Arg Ile Leu Gln Lys Lys Gly
 1 5 10 15

Lys Glu Gln Leu Lys Lys Arg Ile Asn Cys Arg Met Lys Gly Met Pro
 20 25 30

Val Leu Ala Pro Ala Ala Leu Lys Leu Ala Leu

35

40

<210> 8224
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8224

Arg Leu Arg Leu Leu Lys Arg Trp Tyr Lys Leu Leu Arg Lys Ala Ala
 1 5 10 15

Leu Thr His Trp Arg Trp Pro Gln Thr Cys Gly Asp Ala
 20 25

<210> 8225
 <211> 31
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8225

Arg Ile Arg Leu Leu Arg Arg Ile Phe Lys Leu Trp Arg Lys Tyr Lys
 1 5 10 15

Leu Arg Val Leu Ser His Tyr Cys Leu Ile Lys Tyr Ala Leu Ser
 20 25 30

<210> 8226
 <211> 50
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8226

Met Leu Lys Leu Trp Lys Arg Met Leu Arg Lys Ile Lys Lys Leu Arg
 1 5 10 15

Arg Ala Ala Arg Cys Tyr Ala Ala Lys Ile Gln Leu Leu Trp Val Gln
 20 25 30

Leu Ala Met Ala Ser Tyr Leu Gly Arg Lys Tyr Cys Lys Trp Arg Arg

35

40

45

Ala Leu
50

<210> 8227

<211> 48

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8227

Lys Ile Arg Met Phe Asn Lys Phe Leu Lys Lys Trp Asn Asn Ala Leu
1 5 10 15

Leu Arg Asp Arg Leu Met Leu Ile Lys Leu Ser Tyr Arg Ala Leu Ala
20 25 30

Thr Leu His Arg Arg Lys Glu Ala Arg Lys Leu Ala Lys Ser Lys Lys
35 40 45

<210> 8228

<211> 89

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8228

Met Leu Arg Leu Leu Arg Arg Leu Met Lys Leu Phe Lys Thr His Ala
1 5 10 15

Lys Lys Leu Leu Leu Lys Ala Leu His Lys His Ser Lys Ala Thr Ala
20 25 30

Lys Ile Asp Ala Arg Leu Ile Arg Ala Lys Lys Leu Ile Val Arg Arg
35 40 45

Arg Pro Thr Glu Leu Lys Cys Arg Gln Lys Glu Val Arg Asn Ser His
50 55 60

Leu Cys Arg Arg Lys Thr Ala Cys Cys Leu Lys Ala Lys Ala Asn Asn
65 70 75 80

Ser Cys Gln Leu Pro Met Asp Ala Gln
85

<210> 8229
<211> 36
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 8229

Trp Met Lys Leu Tyr Lys Lys Tyr Phe Lys Tyr Leu Ser Thr Cys Ala
1 5 10 15

Leu Leu Ile Lys Lys Tyr Ala Leu Trp Gln Val Arg Ala Arg Glu Leu
20 25 30

Leu Arg Lys Leu
35

<210> 8230
<211> 69
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 8230

Arg Leu Lys Phe Leu Lys Arg Leu Phe Lys Lys Phe Pro Lys Arg Gly
1 5 10 15

Ile Gln Lys Trp Arg Arg Ala Gln Ala Ala Ala Gly Val Lys Leu
20 25 30

Ser Asp Lys Cys Arg His Leu Ala Arg Gln His Lys Leu Arg Ala Val
35 40 45

Asp Glu Glu Leu Glu Lys Thr Lys Leu Arg Ala Asp Arg Arg Ile Ala
50 55 60

Ile Gln Ile Ile Ile
65

<210> 8231

<211> 58
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8231

Lys Met Lys Leu Trp Arg Arg Phe Leu Arg Lys Tyr Arg Thr Arg Thr
 1 5 10 15

Lys Asn Ala Ala Arg Thr Trp Arg Tyr Gly Cys Arg Met Lys Lys Pro
 20 25 30

Glu Leu Pro Leu Leu Lys Lys Gln Thr Val Tyr Ala Leu Met His Ala
 35 40 45

Leu Val Tyr Pro Lys Trp Ala Arg Leu Ala
 50 55

<210> 8232
 <211> 64
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8232

Leu Leu Lys Tyr Leu Asn Arg Leu Leu Lys Lys Trp Gln Arg Asn Asn
 1 5 10 15

Lys Met Leu Arg Lys His Ala Arg Gly Lys Ala Thr Arg Arg Glu Ala
 20 25 30

Leu Arg Pro His Lys Glu Val Val Leu Met Asn Gly Ala Cys Arg Ala
 35 40 45

Ala Gly Ala Asp Lys Arg Pro Trp Tyr Val Lys Arg Gln Ala Leu Glu
 50 55 60

<210> 8233
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8233

Arg Leu Lys Leu Ile Lys Lys Leu Trp Lys Arg Ile Lys Pro Ala Arg
1 5 10 15

Leu Lys Cys Thr Ala Leu Val
20

<210> 8234

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8234

Lys Leu Arg Ile Phe Cys Lys Leu Leu Arg Met Met Arg Arg Asp Trp
1 5 10 15

Arg Gln Ala Thr Ala Leu Arg
20

<210> 8235

<211> 31

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8235

Arg Leu Arg Ile Trp Lys Arg Ile Phe Lys Lys Leu Lys Arg Ala Lys
1 5 10 15

Phe Lys Leu Ala Cys Met Lys Cys Lys Leu Leu Leu Ala Ala Asn
20 25 30

<210> 8236

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8236

Leu Leu Arg Met Phe Arg Lys Leu Leu Arg Arg Tyr Thr Lys Gln Tyr

1 5 10 15

Ala Arg Leu Phe Ile Asn Arg Ile Arg Asp Leu Asp
20 25

<210> 8237
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 8237

Arg Tyr Lys Leu Leu Lys Lys Met Phe Arg Arg Tyr Cys Lys Trp Lys
1 5 10 15

Ala Phe Gln Gly Leu Leu Ala
20

<210> 8238
<211> 36
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 8238

Arg Leu Lys Ile Trp Arg Arg Leu Leu Lys Ile Ile Lys Lys Lys Lys
1 5 10 15

Lys Gly Tyr Ala Cys Val Phe Ile Ile Leu Ala Ala Gln Leu Lys Ala
20 25 30

Leu Asp Trp Ser
35

<210> 8239
<211> 47
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 8239

Arg Met Lys Trp Leu Thr Arg Phe Leu Lys Arg Phe Asn Arg Ala Leu

1 5 10 15

Ile Cys Tyr Glu Arg Leu Ala Ile Arg Leu Ala Leu Asp Arg Arg Ala
20 25 30

Ile Asp Val Leu Ile Gln Ala Met Lys Lys Arg Cys Arg Trp Asp
35 40 45

<210> 8240

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8240

Leu Trp Lys Phe Phe Arg Lys Phe Phe Arg Leu Met Lys Lys Asp Leu
1 5 10 15

Gln Arg Lys Leu Leu Arg Ala Thr Ala Ala Gln Ala Asp Leu Tyr Leu
20 25 30

Leu Ala Phe Lys Arg Asn Arg Lys
35 40

<210> 8241

<211> 43

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8241

Lys Trp Arg Leu Phe Arg Lys Phe Phe Lys Lys Trp His Arg Ala His
1 5 10 15

Lys Arg Lys Leu Ser Leu Arg Asp Cys Lys Leu Leu Tyr Asn Gln Asp
20 25 30

Ala Trp His Arg Leu Arg Asn Leu Val Ala Phe
35 40

<210> 8242

<211> 41

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8242

Arg Leu Lys Met Leu Ser Arg Met Phe Lys Arg Leu Arg His Ala Gly
1 5 10 15

Arg Cys Arg Lys Ala Ala Arg Ala Ala Cys Gln Ala Tyr Ala Lys Phe
20 25 30

Ile Val Trp His Trp His Lys Ala Ile
35 40

<210> 8243

<211> 50

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8243

Lys Trp Arg Leu Phe Lys Arg Ile Trp Arg Trp Phe Lys Lys Leu Ala
1 5 10 15

Lys Lys Arg Thr Lys Ala Glu Ser Leu Leu Ala Asn His Ala Val Lys
20 25 30

Leu Leu Lys Leu Leu Lys Gly Arg Leu Gln Leu Cys Tyr Leu Leu Val
35 40 45

Lys Lys
50

<210> 8244

<211> 58

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8244

Leu Ile Lys Met Ile Arg Lys Leu Trp Arg Trp Phe Arg Lys Gly Arg
1 5 10 15

Asp Arg Ser Ala Leu Lys Ala Tyr Lys His Lys Val Leu Trp Ala Val
 20 25 30

Ala Pro Lys Arg Leu Ala Asp Asp Glu Leu Leu Leu Asn Arg Asn Asn
 35 40 45

Phe Ala Lys His Lys Lys Gln Phe Phe Leu
 50 55

<210> 8245
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8245

Leu Leu Arg Leu Tyr Cys Lys Leu Phe Lys Lys Phe Arg Thr Ile Lys
 1 5 10 15

Thr Gln Ala Ile
 20

<210> 8246
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8246

Tyr Leu Arg Leu Leu His Arg Leu Phe Lys Tyr Met Arg Arg Arg Gln
 1 5 10 15

Leu Asp Asn Met
 20

<210> 8247
 <211> 57
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8247

Arg Phe Lys Met Phe Lys Lys Phe Tyr Arg Lys Phe Lys Arg Lys Lys
 1 5 10 15

Leu Arg Arg Tyr Trp Tyr Pro Ala Ala Arg Phe Lys Lys Pro Lys Ala
 20 25 30

Pro Phe Leu Ala Leu Pro Ala Leu Arg Trp Ile Asp Leu Lys Thr Lys
 35 40 45

Ala Pro His Ala Ile Ser Ala Leu Tyr
 50 55

<210> 8248
 <211> 38
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8248

Lys Met Arg Met Met Arg Arg Leu Phe Arg Arg Leu Cys Arg Arg Lys
 1 5 10 15

Asn Val Ala Ala Leu Arg Ile Lys Asn Ala Leu Leu Trp Leu Pro Arg
 20 25 30

Gly Met Arg Glu Cys Leu
 35

<210> 8249
 <211> 67
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8249

Arg Ile Arg Ile Tyr Lys Arg Leu Ile Lys Arg Leu Cys Lys His Gly
 1 5 10 15

Gln Arg Arg Ala Ala Trp Lys Pro Leu Gly Tyr Lys Ala Ala Arg Asn
 20 25 30

Ile Lys Ala Leu Cys Ala Arg Thr Gln Arg Gly Ile Lys Leu Lys Phe

35

40

45

Thr Arg Met Lys Gly Ala Ala Leu Leu Cys Val Leu Leu Lys Glu Leu
 50 55 60

Tyr Lys Ser
 65

<210> 8250

<211> 56

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8250

Lys Trp Lys Met Trp His Arg Trp Leu Lys Tyr Leu Lys Lys Leu Arg
 1 5 10 15

Ser Glu Arg His Ala Arg Gln Lys Phe His Leu Ser Asp Lys Lys Thr
 20 25 30

Ala Leu Gly His Leu Ala Thr Thr Ala Cys Arg Trp Gly Asn Ala Thr
 35 40 45

Ala Lys Arg Arg Ala Lys Arg Val
 50 55

<210> 8251

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8251

Phe Leu Arg Leu Leu Pro Lys Ile Met Lys Lys Ile Gln Lys Lys Leu
 1 5 10 15

Arg Leu Phe Asn Lys Gly Ala Met Leu Arg Ala Leu His Phe
 20 25 30

<210> 8252

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8252

Lys Tyr Lys Leu Tyr Gln Arg Leu Met Arg Lys Phe Lys Arg Val Tyr
1 5 10 15

Pro Ala Arg Ile Ala Cys Ala Ala
20

<210> 8253

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8253

Arg Leu Lys Met Leu Arg Lys Leu Leu Lys Lys Phe Cys Ser Leu Asn
1 5 10 15

His Lys Thr Gly Ala Ala Leu Pro Ala Ser Ala Gln Pro Lys Met Arg
20 25 30

<210> 8254

<211> 37

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8254

Tyr Ile Lys Phe Met Ser Lys Trp Leu Lys Leu Met Pro Lys Lys Ala
1 5 10 15

Leu Leu Leu Val Ser Ala Arg Tyr His Ala Arg Leu Phe Arg Ile Arg
20 25 30

Asp Lys Lys Ala Pro
35

<210> 8255

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8255

Met	Leu	Arg	Leu	Leu	Lys	Lys	Met	Phe	Arg	Lys	Tyr	Lys	Gln	Met	Glu
1				5					10					15	

Ala	Leu	Glu	Trp	Lys	Cys	Leu	Ala	Arg	Tyr	Leu	Ala	Ala
			20					25				

<210> 8256

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8256

Arg	Ile	Arg	Leu	Phe	Asn	Lys	Leu	Ile	Lys	Lys	Leu	Arg	Lys	Gly	Gly
1				5					10					15	

Arg	Ala	Leu	Leu	Asn	Gly
				20	

<210> 8257

<211> 31

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8257

Trp	Ile	Arg	Leu	Leu	Lys	Lys	Tyr	Tyr	Lys	Lys	Phe	Asn	Ser	Gly	Val
1				5					10					15	

Arg	Ala	Glu	Lys	Arg	Leu	Ala	Ser	Lys	Leu	Leu	Ala	Ala	Tyr	Phe
			20					25					30	

<210> 8258

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8258

Trp	Leu	Lys	Met	Leu	Lys	Lys	Leu	Phe	Lys	Phe	Ile	Lys	Arg	Lys	Gly
1				5					10					15	

Ala	Glu	Pro	Leu	Gln	Ala	Ala	Ala	Arg
			20					25

<210> 8259

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8259

Trp	Leu	Lys	Leu	Phe	Lys	Arg	Tyr	Leu	Arg	Lys	Met	Gln	Thr	Arg	Lys
1				5					10					15	

Ala	Pro	His	Ser	Leu	Arg	Arg	Ala	Ala	Arg	Leu	Ala	Ile	Leu	Ala	Ser
			20					25					30		

Ala	His	Lys
		35

<210> 8260

<211> 67

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8260

Phe	Trp	Lys	Leu	Met	Cys	Arg	Phe	Phe	Arg	Arg	Trp	Arg	Ser	Tyr	Gly
1				5					10					15	

Val	Lys	Cys	Leu	Ser	Lys	Lys	Ser	Ala	Thr	Glu	Arg	Arg	Arg	Ala	Lys
			20					25					30		

Cys	Val	His	Arg	Ala	Arg	Ala	Leu	Leu	Asn	Thr	Arg	Val	Pro	Gln	Arg
		35					40					45			

Ala	Trp	His	Glu	Leu	Leu	Ala	Ala	Leu	Asn	Lys	Arg	Lys	Tyr	Arg	Leu
	50					55					60				

Arg Phe Ala
65

<210> 8261
<211> 34
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 8261

Arg Leu Lys Leu Tyr Arg Lys Trp Leu Arg Trp Phe Cys Arg Cys Gly
1 5 10 15

Pro Met Lys Leu Asn Lys Glu Leu Gly Leu Lys Ala Ala Leu Lys Ser
20 25 30

Pro Asn

<210> 8262
<211> 90
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 8262

Trp Met Arg Met Tyr Lys Lys Leu Ile Lys Trp Phe Gln Asn Gln Gln
1 5 10 15

Val His Lys Leu Arg Gln Leu Pro Val Thr Arg Arg Arg Leu Lys Thr
20 25 30

Ala Ile Arg Leu Gln Glu Leu Val Ala Pro Lys Ala Ala Arg Lys Glu
35 40 45

Leu Ala Arg Cys His Phe Phe Phe Lys Arg Leu Pro Ala Ala Arg Lys
50 55 60

Tyr Arg Lys Thr Leu Lys Val Trp Ala Leu Lys Ala Ala Arg Arg Glu
65 70 75 80

Arg Lys Ala Asn Trp Met Val Thr Ala Arg

85

90

<210> 8263
 <211> 55
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8263

Tyr Leu Lys Leu Ile Arg Lys Met Tyr Lys Lys Leu Arg His Trp Arg
 1 5 10 15

Phe Lys Phe Pro Leu Asp Phe Lys Arg Met His Arg Arg Tyr Ile Ala
 20 25 30

Lys Leu Ile Lys Leu Arg Lys Ala Leu Ile Tyr Ala Ala Trp Asp Arg
 35 40 45

Gln Cys Ala Pro Ala Gln Ala
 50 55

<210> 8264
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8264

Met Leu Arg Trp Leu Lys Arg Phe Phe Lys Arg Leu Lys Gln Ala Gly
 1 5 10 15

Thr Asp Lys Arg Ile Lys Leu Leu Ala Leu Ala Arg
 20 25

<210> 8265
 <211> 81
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8265

Tyr Leu Lys Phe Phe Asn Arg Leu Phe Arg Arg Ile Thr Lys Met Thr

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<210> 8266
<211> 38
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 8266
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Cys Ala Val Gly Ala Phe Gly Leu Ala Lys Lys Ala Lys Leu Lys Pro
20 25 30

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<210> 8267
<211> 48
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 8267
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Tyr Tyr Arg Phe Met Gln Arg Leu Leu Arg Lys Tyr Lys Gln Leu Leu
1 5 10 15

Arg Lys Lys Leu Cys Lys Gly Ala His Lys Ala Gln Ala Phe Lys Phe
 20 25 30

Lys Val Val Cys Thr Ala Ala Tyr Lys Trp Ala Ala Ala Met Pro Leu
 35 40 45

<210> 8268

<211> 41

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8268

Arg Leu Lys Met Leu Asn Lys Leu Phe Lys Arg Phe Lys Cys Leu Gln
 1 5 10 15

Lys Met His Arg Arg Arg Ile Ala Glu Pro Ser Leu Ala Ile Val Asn
 20 25 30

Arg Leu Asn Leu Leu Ala Leu Thr His
 35 40

<210> 8269

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8269

Ile Leu Lys Ile Leu Pro Lys Leu Met Lys Ile Leu Ser Lys Cys Arg
 1 5 10 15

Ala His Leu Ala Ala Thr Thr Arg Glu
 20 25

<210> 8270

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8270

Phe Tyr Arg Phe Leu Arg Lys Leu Leu Arg Leu Leu Gln Ser Pro Lys
 1 5 10 15

Leu Met Lys Ser Arg Arg Cys Ala
 20

<210> 8271
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8271

Lys Phe Arg Leu Trp Arg Lys Leu Phe Arg Ile Trp Gln Lys Arg Leu
 1 5 10 15

Gly Glu Arg Leu Leu Leu Pro Ala Gln Gln Pro Arg
 20 25

<210> 8272
 <211> 41
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8272

Lys Phe Lys Trp Leu Arg Arg Trp Leu Arg Phe Leu Lys Ser Lys Asp
 1 5 10 15

Tyr Lys His Phe Ile Leu Lys Lys Cys Glu Arg Ser Thr Leu Lys Ala
 20 25 30

Trp Ala Lys Ala Leu Ala Arg Ala Leu
 35 40

<210> 8273
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8273

Arg Leu Lys Leu Leu Lys Lys Trp Leu Arg Leu Phe His Gln Ala Cys
 1 5 10 15

Leu Arg Val Lys Gln Glu Pro Met
 20

<210> 8274

<211> 57

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8274

Lys Leu Lys Trp Met Gln Lys Leu Ile Lys Lys Leu Arg Thr Lys Val
 1 5 10 15

Leu Trp Arg Phe Lys Phe Ala Trp Arg Tyr Ala Lys Arg Ser Leu Ala
 20 25 30

Met Leu Lys Asp Tyr Cys Pro Phe Ala Leu Lys Arg Lys Lys Leu Arg
 35 40 45

Leu Ile Leu Thr Ile Cys Asn Trp Phe
 50 55

<210> 8275

<211> 87

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8275

Lys Leu Arg Leu Trp Thr Lys Leu Leu Arg Leu Leu Lys Arg His Ala
 1 5 10 15

Leu Leu His Met Pro Val Leu Leu Arg Asp Arg Asn Trp Lys Gly Lys
 20 25 30

Ala Leu Ala Trp His Ile Gly His His Glu Leu Leu Phe Phe Arg Leu
 35 40 45

Gln Asn His Arg His Arg Arg Lys Ile Phe Arg Arg Asp Cys Lys Leu

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8278

Lys Met Arg Phe Tyr Lys Lys Met Trp Lys Arg Met Lys Asn Met Leu
1 5 10 15

Asn Ala Gln Lys Leu Phe Arg Leu Trp Cys Ala Cys Met Ala Val Ala
20 25 30

Leu Leu Leu Asn Arg Arg Met Ala Ala Gly Leu Ala Arg Asp Ile Thr
35 40 45

Ala

<210> 8279

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8279

Arg Tyr Lys Leu Phe Lys Lys Trp Phe Arg Phe Trp His Arg Gln Glu
1 5 10 15

Ala Trp Ala Glu Lys Ala Lys Gln Ala Ala Leu
20 25

<210> 8280

<211> 75

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8280

Met Tyr Lys Leu Met Lys Lys Tyr Phe Arg Arg Phe Arg His Asp Phe
1 5 10 15

Ile Ala Arg Leu Val Phe Lys Lys Leu Ser Leu His Ser Met Lys Ala
20 25 30

Ala Arg Leu Arg Ala Asn Ala Arg Arg Ala Leu Lys Val Arg Glu Arg
 35 40 45

Ala Ile Leu Thr Asp Gly Met Phe Glu Lys Arg Ile Phe Ala Trp Ala
 50 55 60

Lys Ala Thr Thr Arg Lys Arg Ala Tyr Lys Arg
 65 70 75

<210> 8281
 <211> 41
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8281

Tyr Ile Arg Trp Tyr Lys Arg Phe Tyr Lys Arg Phe Arg Arg Gly Asn
 1 5 10 15

Leu Glu Arg Arg Arg His Arg Ala Ala Phe Cys Ile Glu Gln Leu Ala
 20 25 30

Lys Arg Leu Leu Tyr Glu Ala Leu Leu
 35 40

<210> 8282
 <211> 79
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8282

Arg Met Lys Leu Leu Cys Lys Tyr Trp Arg Lys Leu Lys Gln Leu Ala
 1 5 10 15

Arg Gln Ala Met Thr Glu Lys Leu Lys His Glu Arg Arg Ala Leu Val
 20 25 30

Ala Lys Ala Val Lys Leu Lys Val Ser Arg Gly Ile Arg Cys Val Ala
 35 40 45

Leu Ala Arg Cys Glu Gln Lys Ser Ala Ala Trp Arg Cys Arg Gln Lys

50

55

60

Asp Val His Ser Arg Arg Glu Leu Ala Ala Leu Trp Phe Asn Arg
 65 70 75

<210> 8283

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8283

Leu Trp Arg Tyr Tyr Pro Lys Phe Phe Arg Ile Trp Pro Lys Asp Leu
 1 5 10 15

Met Ala Lys Val Leu Asp Ala Arg Lys Arg Leu Arg Ala
 20 25

<210> 8284

<211> 92

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8284

Lys Ile Arg Trp Leu Arg Arg Tyr Phe Lys Phe Leu Thr Lys Leu Arg
 1 5 10 15

Gly Ala Gln Arg Leu Trp Lys Ala Ala His Met Gln Lys Leu Lys Gln
 20 25 30

Trp Lys Arg Thr Ala His Phe Asn Gln Ala Glu Ala Ser Lys Lys Cys
 35 40 45

Leu Ala Leu Lys Phe Leu Phe Trp Arg Leu Arg Leu Leu Ser Leu Thr
 50 55 60

Leu Phe Ala Arg Lys Arg Lys Ser Leu Lys Asp Ala Lys Trp Tyr Glu
 65 70 75 80

Leu Val Trp Thr Ala Leu Ala Met Arg His Asn Trp
 85 90

<210> 8285
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8285

Leu Phe Arg Met Phe Thr Lys Leu Leu Arg Arg Leu Arg Arg Leu Thr
 1 5 10 15

Arg Arg Met Met Lys Gln Leu Tyr Leu Lys Glu Glu His Gln Pro Ala
 20 25 30

<210> 8286
 <211> 67
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8286

Arg Phe Lys Leu Met Ser Arg Met Leu Arg Lys Ile Arg Lys Asp Pro
 1 5 10 15

Pro Arg Leu Lys Ala Ala Ala Asp Arg Leu Gln Ala Asp Asp Val Gly
 20 25 30

Lys Lys Leu Leu Gln Leu Tyr Asp Phe Arg Leu Ala Ser Lys Arg Lys
 35 40 45

Ala Lys Ala Asp Arg Asn Lys Leu Ile Thr Tyr Tyr Arg Leu Leu Ala
 50 55 60

Lys Arg Lys
 65

<210> 8287
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8287

Leu Tyr Arg Ile Phe Arg Arg Trp Met Arg Arg Phe Pro Lys Ala Lys
 1 5 10 15

Phe Leu Leu Leu Ser Ile Arg Asp Ala
 20 25

<210> 8288

<211> 31

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8288

Leu Met Lys Leu Phe Lys Lys Phe Leu Lys Arg Tyr Cys Arg Ala His
 1 5 10 15

Ala His Leu Glu Ala Ile Ala Lys Leu Thr Ala Arg Ile Leu Lys
 20 25 30

<210> 8289

<211> 98

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8289

Phe Leu Lys Ile Trp Lys Lys Tyr Phe Arg Tyr Leu His Thr Leu Lys
 1 5 10 15

Ala Lys Glu Thr Thr Leu Ser Ala Ala Leu Ser Ala Leu Ile Ala Pro
 20 25 30

Met Leu Phe Arg Met Ala Ala Lys Phe Phe Val Arg Tyr Leu Cys Lys
 35 40 45

Tyr Arg Ala Lys Leu Ala Lys Arg Pro Pro Ala Arg Tyr Pro Lys Leu
 50 55 60

Arg Gln Ser Lys Lys Cys Leu Ser Leu Ile Tyr Leu Phe Leu Arg Lys
 65 70 75 80

Arg Asp Cys Asn Leu Asn Lys Asp Arg Leu Ile Lys Leu Leu Val Tyr

85

90

95

Ile Lys

<210> 8290

<211> 81

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8290

Met Ile Arg Phe Ile Thr Lys Ile Phe Arg Arg Leu Arg Lys Leu Leu
 1 5 10 15

Ser Leu Leu Lys Lys Leu Asp Leu Met Leu Arg Pro Pro Arg Leu Val
 20 25 30

Ala Trp Leu Met Ala Ile Gln Lys Ile Arg Arg Ala Leu Tyr Ala Asp
 35 40 45

Arg Met Thr Ala Leu Ile Lys Leu Leu Leu Leu Ala Tyr Cys Arg Leu
 50 55 60

Glu Tyr Trp Lys Cys Ala Ala Gln His Asp Lys Arg Tyr Leu Arg Leu
 65 70 75 80

Met

<210> 8291

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8291

Lys Leu Arg Tyr Leu Arg Lys Phe Leu Arg Lys Phe His Arg Leu Ser
 1 5 10 15

Glu Ala Ala Arg Ala
 20

<210> 8292
 <211> 50
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8292

Met Leu Lys Leu Tyr Pro Arg Ile Leu Arg Leu Phe Arg Lys Leu Pro
 1 5 10 15

Lys Val Asn Arg Glu Arg Ala Gly Leu Lys Phe Ala Lys Arg Lys His
 20 25 30

Arg Gly Val Trp Leu Thr Ala Tyr Leu Trp Gln Ser Met Ala Arg Lys
 35 40 45

Ala Tyr
 50

<210> 8293
 <211> 75
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8293

Lys Phe Arg Tyr Trp His Arg Phe Phe Arg Arg Ile Cys Ser Arg Ala
 1 5 10 15

Gly Gly Leu Leu Leu Asp Ala Arg Gly Ala Arg His Gly Leu Gln Ala
 20 25 30

Lys Glu Arg Ala His Arg Cys Arg Lys Glu Lys Leu Ile Gln Leu Gln
 35 40 45

Gln Lys Leu Leu Asp Leu Val Leu Ala Gly Glu Lys Arg Arg Arg Pro
 50 55 60

Ala Ala Ile Gly Lys Ala Ala Leu Cys Glu Lys
 65 70 75

<210> 8294

<211> 43
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8294

Arg Leu Lys Leu Trp Asn Lys Leu Leu Arg Arg Phe Lys Arg Cys Thr
 1 5 10 15

Thr Asn Ala Pro Leu Ile Arg Thr Ile Arg Lys Leu Ala Ser Ala Ala
 20 25 30

Ile Arg Lys Trp Cys Trp Lys Tyr Ala Leu Pro
 35 40

<210> 8295
 <211> 88
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8295

Lys Met Arg Met Phe Thr Arg Leu Phe Lys Arg Leu Arg Lys Ala Lys
 1 5 10 15

Arg Asn Leu Pro Leu Arg Ala Ala Arg Arg Trp Leu Ala Met Lys Leu
 20 25 30

Lys Arg Pro His Arg Asp Leu Ala Val Trp Arg Ala Arg Tyr Lys Ala
 35 40 45

Gly Ala Gln Lys Ser Val Pro Cys Pro Phe Ala Asp Lys Val Arg Lys
 50 55 60

Cys Met Arg Glu Ala Leu Asp Thr Trp Arg Ala Arg Lys Ala Met Lys
 65 70 75 80

Arg Ile Leu Ala His Lys Tyr Leu
 85

<210> 8296
 <211> 56
 <212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8296

Lys Phe Arg Trp Leu Lys Lys Phe Leu Arg Lys Phe Arg Ser Ala Met
1 5 10 15

Gln Ala Arg Asp Lys Asp Ala Ala Ala Arg Trp Asn Arg Ile Asn Leu
20 25 30

Lys Lys Lys Asn His Trp Leu Ala Ile Leu Ser Leu Arg Met Trp Ala
35 40 45

Pro Leu Phe Gly Ala Val Lys Arg
50 55

<210> 8297

<211> 49

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8297

Arg Leu Lys Trp Leu Cys Arg Tyr Trp Lys Arg Ile Gln Thr Lys Ala
1 5 10 15

Lys Trp Lys Arg Leu Cys His Pro Gln Phe Ala Arg Arg Asp Thr Asp
20 25 30

Ala Ile Arg Leu Ala Ala Lys Met Arg Leu Lys Tyr Trp Ala Arg Leu
35 40 45

Leu

<210> 8298

<211> 41

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8298

Leu Tyr Arg Leu Tyr Lys Lys Phe Trp Lys Leu Phe Lys Lys Ala Leu
 1 5 10 15

Ala Lys Leu Leu Met Gln Ala Asn Leu Lys Ala Tyr Arg Lys Lys Leu
 20 25 30

Tyr Pro Phe Leu Gly Ser Gln Ser Met
 35 40

<210> 8299
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8299

Lys Phe Lys Leu Phe Lys Lys Tyr Leu Arg Leu Leu Lys Lys His His
 1 5 10 15

Val Lys Leu Ala Phe
 20

<210> 8300
 <211> 31
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8300

Lys Ile Lys Leu Met Lys Arg Leu Leu Arg Leu Phe Arg Arg Ala Ala
 1 5 10 15

Gln Tyr Arg Phe Asp Arg His Val Leu Lys Leu Lys Met Tyr Ala
 20 25 30

<210> 8301
 <211> 27
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8301

Arg Leu Lys Leu Trp Gln Lys Leu Met Lys Lys Phe Lys Gln Thr Thr
 1 5 10 15

Phe Leu Asp Arg Met His Lys Ala Ala Phe Ala
 20 25

<210> 8302
 <211> 39
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8302

Lys Leu Lys Leu Tyr Arg Lys Met Tyr Lys Leu Leu His Lys Lys Glu
 1 5 10 15

Glu Lys Ala Ile Tyr Lys Ala Ala Arg Ala Lys Ala Ala Pro Ile Asn
 20 25 30

Arg Cys Gly Trp Phe Lys Leu
 35

<210> 8303
 <211> 31
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8303

Arg Met Arg Leu Leu Arg Arg Ile Leu Lys Trp Met Lys Lys Trp Lys
 1 5 10 15

Ala Asn Met Pro Asp Leu Gly Leu Ala Ala Lys Leu Asp Asp Asn
 20 25 30

<210> 8304
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8304

Leu Ile Arg Leu Phe Lys Lys Leu Leu Arg Phe Ile Arg Lys Ala Lys
 1 5 10 15

Arg Gly Lys Val Ala Asp Ala Arg Glu Ala Ala Ile Cys Lys Leu Glu
 20 25 30

Leu Glu Ala Gln Gly Phe Asn Leu
 35 40

<210> 8305

<211> 66

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8305

Lys Phe Arg Phe Phe Lys Lys Leu Phe Lys Trp Trp Arg Thr Asp Arg
 1 5 10 15

Arg Asn Arg Lys Gly Ala Val Arg Ser Leu Arg Leu Arg Ala Leu His
 20 25 30

Arg Arg Thr Asp Lys Ala Leu Leu Leu Lys Ala Ala Tyr Phe Trp Leu
 35 40 45

Ala Arg Asp Asp Glu Tyr Ala Gln Cys Lys Pro Gly Leu Lys Ala Ala
 50 55 60

Val Lys
 65

<210> 8306

<211> 83

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8306

Phe Leu Arg Met Leu Lys Lys Trp Met Arg Arg Tyr Ser Gln Arg Leu
 1 5 10 15

Ser Lys Ala Gln Ala Ala Pro Leu Leu Ala Leu Arg Arg Lys Asp Leu

[illegible]

<210>	8307
<211>	53
<212>	PRT
<213>	Artificial Sequence
<220>	
<223>	Computer-generated peptide variant
<400>	8307

[illegible]

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<210> 8308
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 8308
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Arg Leu Arg Met Leu Gln Arg Ile Leu Arg Arg Leu Thr Arg Leu Thr
1 5 10 15

Leu Cys Tyr Trp
20

<210> 8309
<211> 57
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 8309

Arg Met Lys Leu Phe Lys Lys Tyr Leu Arg Lys Trp Lys Ser Pro Ala
1 5 10 15

Ala Arg Thr Ile Gln Lys Asp Ala Asp Leu Lys Met Arg Leu Leu Arg
20 25 30

Thr Glu Lys Lys Cys Ala Ser Leu Ala Asn Val His Tyr Lys Ala Lys
35 40 45

Lys Leu Glu Pro Lys Tyr Gly Leu Arg
50 55

<210> 8310
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 8310

Lys Leu Lys Leu Leu Ser Arg Ile Ile Lys Lys Phe Lys Arg Asp Leu
1 5 10 15

Gly Gln Ser Arg Ile Thr Glu Ala Ala Ala Cys Lys
20 25

<210> 8311
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 8311

Lys Phe Arg Ile Tyr Arg Arg Ile Tyr Lys Met Met Asn Arg Ala Arg
 1 5 10 15

Pro Tyr Leu Leu Trp Phe Ala Ala Lys Leu Leu Arg
 20 25

<210> 8312

<211> 94

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8312

Lys Leu Lys Leu Met Lys Arg Tyr Ile Arg Lys Ile Lys Arg His Leu
 1 5 10 15

Cys Asp Ala Ala Cys Ala Ala Arg Leu Trp Lys Ser Leu Ala Lys Ser
 20 25 30

Phe Trp Leu Arg Trp Arg Lys Lys Leu Tyr Val Pro Ala Arg Ile Lys
 35 40 45

Ala Met Ala Cys Phe Val Leu Phe Lys Leu Asp Lys Ala Thr Pro Cys
 50 55 60

Lys Ala Thr Lys Lys Asp Phe Gly His Lys Arg Ala Gln Ala Arg Arg
 65 70 75 80

Cys Ile Arg Ala Phe Arg Gln Lys Arg Leu Cys Ile Asn Thr
 85 90

<210> 8313

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8313

Lys Phe Arg Leu Phe Arg Lys Ile Phe Lys Lys Leu Asn His Pro Glu
 1 5 10 15

Met Gly Leu Lys Ala Leu Lys Leu Arg Leu

20

25

<210> 8314
 <211> 99
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8314

Met Phe Arg Ile Leu Lys Arg Leu Tyr Arg Arg Phe Arg Lys Lys Lys
 1 5 10 15

Trp Val Ala Phe Arg Thr Ala Ala Lys Arg Lys Arg Phe Ile Gln Leu
 20 25 30

Lys Arg Ser Thr Trp Arg Gly Asp Leu Tyr Arg Trp His Trp Ala Trp
 35 40 45

His Ile Arg Arg Thr Val Gln Lys Ala Arg Ala Lys Pro Ala Met His
 50 55 60

Ala Arg Pro Gln Glu Ala Arg Asn Ala Gly Arg Lys Ile His Val Leu
 65 70 75 80

Ala Asp Arg Phe Arg His Leu Arg Leu Ala Ala Lys Leu Cys Asn Arg
 85 90 95

Pro Ala Ala

<210> 8315
 <211> 41
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8315

Lys Phe Arg Phe Leu Arg Lys Met Leu Lys Arg Leu Cys Lys Arg Val
 1 5 10 15

Ser Ala Met Thr Ala Phe Val Arg Leu Ala Leu Lys Arg Asn Ala Glu
 20 25 30

Ala Phe Pro Leu Ile Ala Ser Val Met
 35 40

<210> 8316
 <211> 27
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8316

Lys Phe Lys Leu Leu Arg Arg Phe Trp Arg Leu Leu Gln Thr Leu Ala
 1 5 10 15

Pro Ile His Asp Glu Lys Leu Tyr Lys Arg Trp
 20 25

<210> 8317
 <211> 51
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8317

Lys Ile Arg Phe Leu Lys Lys Tyr Phe Arg Arg Leu Lys Lys Ala Arg
 1 5 10 15

His Ala His Phe Leu Arg Lys Leu Asn Lys Val Leu Lys Glu Ile Glu
 20 25 30

Ala Tyr Leu Cys Ala Asp Trp Ile Ala Asp Leu Lys Gly Leu Asn Pro
 35 40 45

Arg Arg Asp
 50

<210> 8318
 <211> 75
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8318

Arg Leu Arg Met Trp Thr Arg Tyr Leu Arg Met Ile Arg Lys Trp His
 1 5 10 15

Ala Leu Ala Thr Leu Lys Ser Cys Asp Lys Arg Lys Thr Lys Pro Leu
 20 25 30

Ala Arg Gln Arg Glu Ile Arg Tyr Glu Lys Leu Gly Leu Leu Leu Trp
 35 40 45

Gln Lys Leu Leu Leu Lys Ala Arg His Leu Ala Lys Pro Lys Arg Val
 50 55 60

Tyr Tyr Met Gln Gly Lys Arg Ala Ala Arg Lys
 65 70 75

<210> 8319

<211> 57

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8319

Phe Leu Arg Tyr Ile Arg Lys Ile Ile Lys Met Leu Lys Arg Ala Ala
 1 5 10 15

Arg Leu Leu Cys His Arg Tyr Lys Arg Arg Lys Leu Ala Leu Glu Ala
 20 25 30

Arg Arg Leu Ala Cys Arg Arg Val Ala Leu Arg Leu Ala Trp Ala Gln
 35 40 45

Asp Leu Leu Glu Gln Phe Lys Val Ala
 50 55

<210> 8320

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8320

Lys Phe Lys Phe Leu Lys Lys Leu Leu Lys Met Phe Pro His Arg Gly

1 5 10 15

Asp Leu Gln Met Gly Arg Leu Leu Leu Ile Lys
20 25

<210> 8321
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 8321

Arg Trp Lys Tyr Phe Arg Lys Tyr Phe Lys Arg Leu Pro Asn Glu Trp
1 5 10 15

Leu Leu Pro Ala Ala Leu Lys
20

<210> 8322
<211> 37
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 8322

Leu Leu Lys Leu Trp Arg Lys Met Ile Arg Arg Met Lys Pro Arg Ile
1 5 10 15

Arg Ile Ser Gly Ala Asn Ser Gln Pro Ser Asp Leu Gln Lys Lys Leu
20 25 30

Ala Arg Leu Ala Ala
35

<210> 8323
<211> 76
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 8323

Leu Met Arg Tyr Phe His Arg Trp Met Lys Leu Tyr Lys Cys Lys Leu

Met	Leu	Arg	Leu	Met	Cys	Arg	Phe	Phe	Arg	Lys	Leu	Asn	Thr	Lys	Ala
1				5					10					15	
Ala	Ala	Lys	Leu	Gln	Pro	Arg	Leu	Arg	Arg	Lys	Val	Leu	Met	Tyr	Asp
			20					25					30		
Leu	Lys	Lys	Thr	Arg	Trp	Leu	Asp	Glu							
		35					40								

Arg Phe Lys Trp Leu Arg Lys Trp Phe Arg Lys Ile Cys Arg Arg Lys
1 5 10 15

Ala Ala Arg Ala Leu Leu Leu Lys Ala Lys Ala Leu His Leu Tyr Thr
20 25 30

Leu His Val Cys Cys
35

<210> 8326
<211> 38
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 8326

Trp Leu Arg Met Leu His Lys Leu Leu Lys Arg Leu Arg Arg Ile Trp
1 5 10 15

Met Asn Leu Arg Ser Trp Val Leu Arg Arg Gly Glu Ala Lys Gly Ala
20 25 30

Cys Leu Phe Met Arg Cys
35

<210> 8327
<211> 41
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 8327

Lys Tyr Arg Leu Phe Asn Lys Phe Phe Arg Lys Ile Thr Lys Arg Leu
1 5 10 15

Asp Leu Lys Asp Tyr Ala Tyr Pro Ala Ala Lys Ala Leu Arg Ala Lys
20 25 30

Ala Asn Asn Lys Val Phe Ile Lys Arg
35 40

<210> 8328
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 8328

Trp Leu Lys Trp Leu Arg Arg Phe Ile Arg Lys Leu Ser His Ala Ile
 1 5 10 15

Ile Ile Ala Ala Ala Arg Lys
 20

<210> 8329

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8329

Lys Leu Lys Leu Trp Thr Lys Leu Ile Arg Tyr Phe Arg Arg Trp Thr
 1 5 10 15

Ile Trp Leu Ala Leu Arg Thr Ala Tyr Ala Arg Asp Phe Ala
 20 25 30

<210> 8330

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8330

Phe Leu Arg Phe Tyr Lys Lys Trp Trp Lys Trp Ile Arg Lys Leu Ala
 1 5 10 15

His Leu Leu Gln Leu Arg Leu Gly Ala Ala Lys
 20 25

<210> 8331

<211> 67

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8331

Arg Phe Lys Phe Leu Arg Arg Leu Leu Lys Trp Leu Arg Asn Phe Leu
 1 5 10 15

Lys Leu Asp Lys Cys Lys Phe Arg Thr Lys Arg Arg Leu Arg Arg Leu
 20 25 30

Lys Val Lys Asp Ile Glu Ala Arg Phe Ala Lys Glu Asn Leu Leu Ser
 35 40 45

Leu Asp Pro Ser Met His Trp Ala Gln Val Arg Lys Leu Phe Ala His
 50 55 60

Tyr Asn Asn
 65

<210> 8332
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8332

Lys Leu Arg Leu Leu Arg Lys Met Leu Lys Phe Ile Lys Ser Trp Leu
 1 5 10 15

Asp Ala Arg Tyr Val Arg Gly Leu Ala Lys Tyr Ile Trp Pro
 20 25 30

<210> 8333
 <211> 42
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8333

Phe Leu Arg Leu Trp Cys Lys Phe Leu Arg Arg Phe Thr Arg Glu Ile
 1 5 10 15

Ala Leu Arg Leu His Lys Gln Lys Arg Leu Ile Gly Lys Ala Gly Tyr
 20 25 30

Arg Lys Leu Arg Ala Val Leu Tyr Arg Val
 35 40

<210> 8334

<211> 37
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8334

Phe Leu Lys Leu Leu Lys Arg Phe Leu Arg Phe Leu Lys Arg Gly Arg
 1 5 10 15

Arg Met Phe Ala Ala Ala Lys Trp Leu Lys Ala Thr Arg Glu Ala Tyr
 20 25 30

Trp Ala Ala Leu Asn
 35

<210> 8335
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8335

Arg Met Arg Leu Tyr Arg Arg Met Leu Arg Lys Leu Lys Arg Ala Phe
 1 5 10 15

Ala Ala Ala Met Arg Arg Asn Leu Arg Ser Ile Gln Asp Asn
 20 25 30

<210> 8336
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8336

Met Leu Lys Trp Leu Gln Arg Leu Ile Arg Lys Trp Asn Lys Leu Gly
 1 5 10 15

His Leu Lys Ala Gln
 20

<210> 8337

<211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8337

Leu Leu Arg Phe Ile Lys Arg Trp Tyr Lys Arg Met Gln Ser Leu Ala
 1 5 10 15

Ala Lys Glu Gly Ala
 20

<210> 8338
 <211> 69
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8338

Arg Phe Lys Phe Leu Lys Lys Phe Tyr Lys Arg Met Cys Thr Lys Leu
 1 5 10 15

Leu Lys Cys Met Lys Leu Ala Asn Ala Leu Lys Thr Pro Lys Arg Asn
 20 25 30

Ala Ala Ile Trp Glu Leu Arg Ala Val Leu Arg Phe Leu Lys Phe Leu
 35 40 45

Ala Lys Leu Phe Arg Ile Leu Ala Thr Trp Leu Leu Trp Asp Arg Arg
 50 55 60

Leu Gly Leu Asn Cys
 65

<210> 8339
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8339

Arg Phe Lys Phe Ile Pro Arg Ile Trp Lys Arg Leu Lys Gln Ser Ala

1 5 10 15

Ala Asp Arg Arg Arg Cys Cys Lys Leu Ala Ala Arg Ala Leu Ala Arg
20 25 30

His Tyr Gly Met
35

<210> 8340
<211> 60
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 8340

Lys Leu Arg Leu Trp Arg Lys Phe Leu Arg Arg Ile Arg Arg Tyr Met
1 5 10 15

Thr Leu Ala Glu Ala Lys Cys Thr Asp Leu Arg Thr Phe Arg Ala Glu
20 25 30

Tyr Arg Leu Leu Leu Ser Asp Trp Lys Leu Pro Asn Lys Leu Lys Met
35 40 45

Leu Lys Leu Cys Tyr Trp Lys Met Lys Gln Arg Ala
50 55 60

<210> 8341
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 8341

Leu Leu Arg Phe Met Lys Lys Leu Ile Lys Lys Trp Pro Arg Arg Ala
1 5 10 15

Ser Ala Leu His Ile Leu His Lys Leu Leu Lys Leu Lys Arg Asn Pro
20 25 30

<210> 8342
<211> 43
<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8342

Lys Phe Lys Phe Phe Thr Arg Tyr Leu Arg Arg Leu Pro Lys Ala Ile
1 5 10 15

Thr Glu Ala Pro Tyr Leu Arg Tyr Ala Leu Ile Gln Gln Gly Leu Leu
20 25 30

Lys Leu Ala Arg His Lys Cys Ala Arg His Leu
35 40

<210> 8343

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8343

Leu Leu Arg Phe Met Lys Arg Phe Leu Arg Ile Leu Arg His Leu Lys
1 5 10 15

Asn Pro Thr Trp
20

<210> 8344

<211> 57

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8344

Lys Met Arg Leu Leu Cys Lys Phe Trp Lys Phe Leu Thr Arg Leu Leu
1 5 10 15

Leu Arg Leu Arg Arg Arg Leu Val Leu Thr Asn Glu Lys Asp Gly Leu
20 25 30

Val Lys Gln Ala Phe Ala Tyr Ala Trp Lys Pro Ser Lys Leu Ala Ala
35 40 45

Lys Met Tyr Val Leu Lys Thr Leu Arg
 50 55

<210> 8345
 <211> 52
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8345

Lys Leu Arg Ile Phe Lys Arg Phe Phe Lys Tyr Phe Lys Lys Ala Arg
 1 5 10 15

Lys Ala Tyr His Lys Ala Arg Thr Asn Ile Leu Arg Tyr Asp Leu Val
 20 25 30

Leu Arg Ala Leu Arg Thr Asn Arg Asn Gly Leu Ala Asn Leu Lys Leu
 35 40 45

Leu Phe Gln Met
 50

<210> 8346
 <211> 45
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8346

Met Leu Lys Leu Tyr Asn Arg Phe Tyr Lys Lys Trp Lys Arg Lys Thr
 1 5 10 15

Gln Cys Lys Leu Leu Leu Lys Arg Glu Ile Ser Arg Asn Leu Thr Met
 20 25 30

Ala Arg Ala Arg Lys Phe Tyr Lys Ala Glu Ala Glu Leu
 35 40 45

<210> 8347
 <211> 72
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8347

Arg Tyr Lys Tyr Met Arg Arg Met Met Lys Phe Ile Lys Arg Trp Arg
 1 5 10 15

Arg Met Leu Arg Ile Ala Asn Trp Leu Ala Arg Arg Leu Ser Val Arg
 20 25 30

Ala Pro Met Ile Pro Ala Cys Lys Ala Ala Ala Leu Thr Val Ile Thr
 35 40 45

Ala Arg Lys Gln Ala Val Thr Leu Lys Leu Arg Arg Lys Lys Ser Lys
 50 55 60

Val Arg Ala Arg Ile Glu Ala His
 65 70

<210> 8348

<211> 39

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8348

Lys Leu Lys Tyr Phe Lys Lys Phe Leu Arg Lys Leu Ser Gln Leu Lys
 1 5 10 15

Ser Ile Leu Cys Gln Arg Leu Leu Arg Trp Leu Ala Leu Lys Val Ala
 20 25 30

Leu Trp Cys Asn Gly Gly Ser
 35

<210> 8349

<211> 82

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8349

Lys Leu Arg Phe Phe Lys Arg Phe Trp Arg Arg Ile Lys Cys Leu Lys

1 5 10 15
 Phe Gly Ile Lys Ala Phe Thr Thr Lys Leu Lys Trp Gly Lys His Trp
 20 25 30
 Pro Lys Leu His Asp Gln Lys Ala Ala Lys Thr Leu Thr Lys Arg Arg
 35 40 45
 Arg Phe Leu Thr Gly Gly Ala Leu Ala Leu Arg Lys Leu Val Gly Pro
 50 55 60
 Leu Leu Lys Leu Gly Ala Arg Lys Lys Ala Leu Phe Ser Gly Arg Ala
 65 70 75 80

Asp Gln

<210> 8350
 <211> 39
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Computer-generated peptide variant

 <400> 8350

Arg Leu Arg Leu Phe Arg Arg Phe Met Arg Ile Leu Arg Pro Ala Glu
 1 5 10 15

 Phe Lys His Ala Leu Phe Arg Lys Cys Ala Arg Trp Asn Lys Leu Gly
 20 25 30

Arg Glu Arg Ala Ala Met Asn
 35

<210> 8351
 <211> 45
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Computer-generated peptide variant

 <400> 8351

Leu Tyr Arg Leu Trp His Lys Leu Met Lys Arg Phe Pro Arg Leu Ala
 1 5 10 15

Arg Lys Cys Leu Leu Leu Ala Asp Lys Trp Ala Lys Glu Asp Ala Trp
 20 25 30

Leu Ser Met Phe Arg Leu Glu Ala Thr Ala Thr Ile Lys
 35 40 45

<210> 8352

<211> 55

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8352

Tyr Met Arg Leu Ile Arg Lys Phe Leu Arg Ile Leu Lys Lys Cys Lys
 1 5 10 15

Ala Val Leu Met Ala Lys Asn Trp Lys Leu Lys Lys Arg Leu Asn Leu
 20 25 30

Thr Pro Thr Ile Cys Arg Lys Tyr Leu Lys Ala Met Phe Ser Phe Pro
 35 40 45

Ala Leu Ala Leu Ile Leu Asn
 50 55

<210> 8353

<211> 85

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8353

Leu Leu Arg Leu Phe Arg Lys Trp Met Arg Lys Leu Arg Arg His Leu
 1 5 10 15

Ala Arg Ala Leu Tyr Pro Glu Arg Arg Lys Arg Ser Lys His Ser Ser
 20 25 30

Leu Asp Ala Ser Met Lys His Leu Asn Leu Arg Trp Asn Ser Gln Lys
 35 40 45

Val Lys Trp Arg Asp Arg Trp Lys Trp Ser Ala Lys Leu Arg Ile Ile

50

55

60

Asp Ala Thr Asn Ser Ala Ala Ser Leu Lys Leu Cys Lys Arg Asp Arg
 65 70 75 80

Ala Glu Lys Glu Leu
 85

<210> 8354
 <211> 54
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8354

Lys Leu Lys Phe Leu Arg Lys Tyr Ile Lys Leu Leu Ser Thr Pro Met
 1 5 10 15

Arg Lys Pro Leu Pro Lys Lys Ala Asn Val Arg Leu Leu Gly Gln Arg
 20 25 30

Leu Val Arg Ser Ala Lys Cys Lys Tyr Ala Ile Leu Lys Gln Ala Ala
 35 40 45

Phe Ile Phe Leu Gln His
 50

<210> 8355
 <211> 45
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8355

Arg Leu Arg Phe Leu Pro Lys Phe Phe Lys Lys Phe Cys Cys Leu Ile
 1 5 10 15

Pro Ala Ala Ile Ala Ser Arg Arg Ala Phe Trp Lys Lys Lys Trp Leu
 20 25 30

Arg Lys His Pro Leu Leu Ala Leu Ala Met His Gln His
 35 40 45

<210> 8356
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8356

Lys Leu Lys Leu Ile Thr Arg Leu Phe Lys Lys Tyr Lys Gln Leu Val
 1 5 10 15

Leu Leu Thr Ala Lys Asp Arg Cys
 20

<210> 8357
 <211> 38
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8357

Phe Leu Lys Met Leu His Lys Leu Leu Lys Lys Leu Lys Lys Ala Asp
 1 5 10 15

Gln Cys Thr Ala Ala Pro Thr Arg Trp Ser Lys Asn Leu Ile Arg Ile
 20 25 30

Arg Gly Ala Ile Ala His
 35

<210> 8358
 <211> 49
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8358

Met Phe Lys Tyr Leu Lys Lys Tyr Phe Arg Leu Leu Thr Cys Arg Leu
 1 5 10 15

Lys Leu Gln Arg Asp Ala Lys Leu Arg His Asn Arg Cys Ala Arg Phe
 20 25 30

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<210> 8359
<211> 23
<212> PRT
<213> Artificial Sequence
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<220>
<223>   Computer-generated peptide variant
<400>   8359
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Arg Tyr Arg Tyr Tyr His Lys Ile Leu Lys Arg Leu Gln Arg Met Leu
1 5 10 15

Met Gln Leu Leu Lys Ala Phe
20

<210>	8360
<211>	24
<212>	PRT
<213>	Artificial Sequence
<220>	
<223>	Computer-generated peptide variant
<400>	8360

Arg Leu Arg Phe Phe Lys Arg Met Tyr Arg Lys Leu Lys Arg Phe Asp
1 5 10 15

Ala His Ala Asn Asn Ala Ala Asn
20

<210>	8361
<211>	34
<212>	PRT
<213>	Artificial Sequence
<220>	
<223>	Computer-generated peptide variant
<400>	8361

Leu Ile Lys Phe Leu His Lys Tyr Ile Arg Lys Met Arg Lys Leu Met
1 5 10 15

Trp Arg Cys Phe Lys Lys Cys Ala Gln Ala Ala Leu Cys Leu Arg Ala
 20 25 30

Ala Ile

<210> 8362

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8362

Arg Trp Lys Met Phe Pro Arg Tyr Leu Arg Leu Leu Gln Ser Leu Ala
 1 5 10 15

Leu Arg Arg Tyr Cys Lys Lys Arg Ala
 20 25

<210> 8363

<211> 38

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8363

Phe Phe Arg Tyr Leu Lys Lys Leu Phe Arg Trp Tyr Lys Lys Arg Ala
 1 5 10 15

Lys Arg Glu Thr Leu Ala Leu Asn Leu Phe Tyr Leu Ser Lys Asn Phe
 20 25 30

Arg Leu Leu Lys Glu Trp
 35

<210> 8364

<211> 88

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8364

Lys Leu Lys Leu Leu Arg Lys Met Phe Arg Leu Leu Lys Arg Pro Ser
 1 5 10 15

Arg Arg Val Leu Cys Pro Pro Ser Asp Arg Arg Ala Lys Thr Ala Pro
 20 25 30

Ser His Leu Ala Ala Met Gln Ala Gln Arg Trp Asp Gly Leu Val Val
 35 40 45

Thr Pro Gly Arg Lys Ala Tyr Met Ala Lys Asn Ala Arg Lys Ala Leu
 50 55 60

Asn Leu Ala Leu Ala His Lys Lys Leu Ala Arg Lys Thr Val Ile Phe
 65 70 75 80

Ser Val Ala Leu Pro Leu Leu Thr
 85

<210> 8365
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8365

Arg Phe Arg Phe Trp Lys Lys Phe Phe Arg Leu Tyr Lys Thr Leu Asn
 1 5 10 15

Leu Arg Arg Ala Cys Ala Lys Ala Asp Ala Leu Arg Asn His Lys Ala
 20 25 30

Trp Leu Phe Lys
 35

<210> 8366
 <211> 70
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8366

Lys Phe Lys Leu Ile Ser Lys Trp Phe Arg Leu Leu Lys Gln Ala Lys

Phe Leu Arg Phe Tyr Lys Arg Leu Trp Lys Leu Phe Lys Cys Thr Leu
1 5 10 15

Met Tyr Arg Ile Phe Arg Lys Met Leu Lys Trp Tyr Thr Cys Leu Ala
1 5 10 15

Ala Lys Ser Ile Ala Lys Arg Gln Ala Leu Asp Lys Ala Lys Trp Arg
35 40 45

Ala His Ala Tyr Ala Leu Ala Arg Ala Lys Asp Ala Lys Lys His Gly
 50 55 60

Lys Gly Ala Leu Cys Arg Leu Leu Ala Asn Phe Lys Thr Arg Leu Leu
 65 70 75 80

Gln Arg Ala Lys Glu Leu Met Lys Trp Arg
 85 90

<210> 8369
 <211> 84
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8369

Lys Ile Lys Met Tyr Arg Lys Leu Ile Lys Arg Leu Thr Lys Lys Pro
 1 5 10 15

Asn Asp Arg Met Ile Leu Glu Gln Trp Ala Leu Phe Lys Ser Arg Lys
 20 25 30

Glu Lys Ile Gly Gln Leu Ala Leu Pro Lys Lys Arg Arg Gln Leu Met
 35 40 45

Ala Phe Arg Lys Lys Lys Arg Ile Tyr Leu Phe Ser Gln Tyr Leu Lys
 50 55 60

Lys Ala Lys Lys Arg Ala Ala Met Met Leu Ala Met Leu Ala Ala Leu
 65 70 75 80

Leu Asp Val Leu

<210> 8370
 <211> 39
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8370

Lys Leu Arg Ile Trp Thr Arg Leu Ile Arg Arg Leu Arg Asn Leu Tyr

Gly Phe Arg Arg Arg Ala Thr Ala Ala Lys Arg Gln Asp Pro Lys Ser
 65 70 75 80

Val Ala Trp Leu Leu Leu Ala
 85

<210> 8373

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8373

Trp Leu Lys Met Leu Asn Lys Trp Leu Arg Lys Tyr Lys Lys Asp Cys
 1 5 10 15

Pro Ala His Ala Gln His Leu Ser Lys Cys Lys Arg Leu Leu Asp Lys
 20 25 30

Lys His

<210> 8374

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8374

Met Phe Lys Tyr Leu Asn Arg Phe Leu Lys Leu Leu Arg Lys Arg Arg
 1 5 10 15

Arg His Ala Ala Ala Phe Gln Gly Arg Ile Leu Lys Leu Met Trp Lys
 20 25 30

Pro

<210> 8375

<211> 64

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8375

Arg	Trp	Lys	Trp	Phe	Arg	Lys	Phe	Leu	Arg	Leu	Met	Lys	Lys	Thr	Lys
1				5					10					15	

Gly	Trp	Arg	Leu	Ala	Lys	Tyr	Ala	Arg	Thr	Ala	Lys	Ala	Arg	Ala	Ala
			20					25					30		

Lys	Arg	Arg	Ala	Leu	Ala	Gln	Gly	Lys	Ala	Val	Leu	Met	Cys	Pro	His
		35					40					45			

Arg	His	Tyr	Phe	Glu	Gln	Thr	Leu	Leu	Arg	Gln	Phe	Leu	Lys	Thr	His
	50					55					60				

<210> 8376

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8376

Lys	Leu	Lys	Phe	Tyr	Lys	Lys	Trp	Leu	Arg	Phe	Phe	Lys	Arg	Arg	Leu
1				5					10					15	

Trp	Glu	Ala	Asn	Lys	Ser	Ile	Gln	Leu	Lys	Leu	Arg	Cys	Arg	Ala	Ala
			20					25					30		

Trp Leu

<210> 8377

<211> 100

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8377

Lys	Leu	Arg	Ile	Phe	Gln	Arg	Leu	Met	Arg	Phe	Leu	Lys	Lys	Met	Asn
1				5					10					15	

Met Ala Pro Arg Arg Arg Ala Lys Thr Ala Gly Tyr Pro Ala Gly Arg

Arg Met Lys Leu Leu Lys Arg Leu Leu Arg Phe Trp Lys Arg Gly Arg
1 5 10 15

Pro Gln Cys Leu Cys Ala Leu His Leu Asp Val Ala Tyr Gly Arg Arg
20 25 30

Arg

Arg Trp Arg Phe Tyr Thr Lys Leu Phe Arg Lys Leu Thr Cys Asn Lys
1 5 10 15

Leu Phe Arg Ile Tyr Ala Met Met Val Trp Ala Ala Leu Lys Asn Ala
 20 25 30

Ile Arg Val Gly Glu Pro Lys Ala Ala Val Leu Leu Gln Thr Ser Arg
 35 40 45

Leu Ala Gly Ala Leu Gln Asn Lys Asp Ala Lys Ile Val Lys Pro Phe
 50 55 60

Lys Lys Ala Lys Ala Ile Arg Lys Lys Lys Ile Arg Arg Ala Cys Arg
 65 70 75 80

Tyr Leu Arg

<210> 8380
 <211> 63
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8380

Ile Leu Arg Leu Phe Lys Lys Leu Trp Arg Trp Leu Lys Arg Phe Lys
 1 5 10 15

Met Glu His Arg Arg Met Glu Ala Cys Leu Tyr Gly Phe Lys Gln Arg
 20 25 30

Arg Lys Lys Leu Glu Ser Gly Ala Arg Ala Leu Asn Leu Arg Leu Gly
 35 40 45

Ala Pro Ala Ala Lys Lys Asp Ala Asp Asn Glu Ala Ser Arg Ala
 50 55 60

<210> 8381
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8381

Lys Leu Arg Phe Phe Arg Arg Phe Trp Lys Lys Leu Ser Arg Leu Leu

1 5 10 15

Thr Ile Tyr Ala Ala Gln Ala Arg
20

<210> 8382
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 8382

Tyr Met Lys Leu Leu Asn Arg Trp Met Lys Lys Ile Lys Lys Leu His
1 5 10 15

Leu Tyr His Arg Ala
20

<210> 8383
<211> 42
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 8383

Leu Trp Arg Trp Phe Gln Arg Leu Leu Arg Leu Leu Cys Lys Val Arg
1 5 10 15

Leu Met Met Ala Asn Ala Arg Lys Leu Lys Arg Leu Asn His Asn Lys
20 25 30

Ile Met Ala Leu Leu His Lys Cys Lys Pro
35 40

<210> 8384
<211> 47
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 8384

Lys Leu Lys Leu Leu Asn Arg Trp Leu Lys Arg Leu Arg Thr Met Arg

1 5 10 15

Leu Thr Trp Tyr Ala Phe Ala Ile Arg Arg Lys Leu Arg Ala Glu Ala
 20 25 30

Thr Ile Cys Gly Arg Asp Ala Phe Lys Lys Arg Glu Arg Glu Ala
 35 40 45

<210> 8385
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8385

Arg Trp Arg Met Leu Arg Lys Leu Leu Lys Arg Leu Cys Asn Asp Ala
 1 5 10 15

Phe Leu Leu Gln Ala Cys Phe Lys Phe
 20 25

<210> 8386
 <211> 69
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8386

Phe Ile Arg Trp Leu His Lys Phe Leu Arg Tyr Met Arg Arg Arg Leu
 1 5 10 15

Leu Ala Arg Leu Ala Lys Ala Lys Lys Cys Leu Tyr Thr Ile Trp Arg
 20 25 30

Lys His Ser Pro Tyr Ile Asn Ala Asp Tyr Met Met Lys Arg Leu Lys
 35 40 45

Ala Trp Lys Thr Leu Gln Leu Trp Arg Met Ala Asp Cys Val Tyr Arg
 50 55 60

Leu Arg Arg Ala Leu
 65

<210> 8387
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8387

Leu Leu Arg Phe Met Asn Arg Leu Leu Arg Leu Phe Arg Asn Thr Leu
 1 5 10 15

Leu Leu Asp Asn Leu Arg Ser Lys Val Leu Lys Glu Lys Ala Val Cys
 20 25 30

Arg Gly

<210> 8388
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8388

Met Met Arg Leu Met Pro Lys Met Tyr Arg Arg Tyr Arg Arg Leu Leu
 1 5 10 15

Ala Leu Ala His Leu Phe Lys Tyr Ser Leu Arg Lys Val Tyr Leu Phe
 20 25 30

Arg Gln Tyr Lys
 35

<210> 8389
 <211> 26
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8389

Lys Phe Lys Leu Leu His Lys Leu Phe Arg Arg Tyr Lys Pro Ser Leu
 1 5 10 15

Leu Val Lys Ala Leu Lys Ser Lys Asp Leu
 20 25

<210> 8390
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8390

Leu Tyr Lys Met Leu Lys Lys Leu Trp Arg Lys Leu Pro Cys Ala Gly
 1 5 10 15

Asn Lys Val Glu Ala Lys Ala Asp Leu Gly Lys Arg
 20 25

<210> 8391
 <211> 59
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8391

Arg Leu Lys Tyr Ile Asn Arg Trp Leu Arg Trp Leu Asn Arg Gly Tyr
 1 5 10 15

Ala Gln Leu Arg Lys Asn Asp Cys Leu Phe Arg Val Val Gly Lys Lys
 20 25 30

Arg Ile Ala Arg Ile Ala Leu Leu Cys Leu Glu Lys Gln Leu Arg Asp
 35 40 45

Leu Ala Ala Glu Arg Leu Pro Ala Ile Tyr Arg
 50 55

<210> 8392
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8392

Leu Trp Arg Tyr Leu Cys Arg Leu Leu Arg Arg Tyr Gln Arg Arg Ala
 1 5 10 15

Tyr Gln Leu His Pro Gly Leu Arg Tyr Lys Leu Ala Ile Val Asn Arg
 20 25 30

Ala Leu Val Leu Ala Thr Arg Gln
 35 40

<210> 8393

<211> 80

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8393

Lys Leu Arg Leu Phe Lys Lys Tyr Ile Lys Arg Leu Lys Lys Cys Ala
 1 5 10 15

Glu Gly Ala Arg Met Ser Arg Gly Thr Leu Phe Leu Arg Leu Arg Lys
 20 25 30

Ile Leu Asp Asp Phe Arg Arg Gln Asp Arg Arg Pro Thr Gln Asn Arg
 35 40 45

Leu Leu Ala Arg Pro Arg Gly Gln Met Ala Lys Phe Leu Cys Thr Leu
 50 55 60

His Ala Arg Asn Arg Pro Lys Ala Asp Ala Leu Thr Cys Arg Asp Met
 65 70 75 80

<210> 8394

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8394

Arg Leu Lys Phe Tyr Lys Arg Leu Leu Lys Lys Phe Thr Lys Val Met
 1 5 10 15

Gly Asn Ala Phe Ala Ala Arg Ser Ala Arg His

20

25

<210> 8395
 <211> 77
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8395

Lys Leu Arg Trp Trp Lys Lys Leu Leu Lys Lys Leu Asn Gln Arg Tyr
 1 5 10 15

Leu Ala Lys Pro Asn Lys Val Arg Val Val Ser Lys Leu Gly Gln Cys
 20 25 30

Trp Leu Glu Arg Ser Gln Leu Lys His Leu Leu Arg Lys Arg Ala Gln
 35 40 45

Thr Lys Arg Lys Leu Tyr Ala Cys Leu Arg Phe Val Thr Arg Thr Met
 50 55 60

Cys Arg Ser Val Ala Tyr Tyr Ala Arg Arg Arg Ala Cys
 65 70 75

<210> 8396
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8396

Lys Phe Arg Leu Phe Pro Arg Tyr Leu Arg Lys Met Gln Arg Ser Leu
 1 5 10 15

Ala Ala Pro Leu
 20

<210> 8397
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8397

Arg Phe Lys Leu Leu Gln Lys Leu Leu Arg Phe Leu Gln Arg Lys Trp
1 5 10 15

Arg Gly Ala Gly Thr His Pro Leu Arg Val Arg Arg Gly Leu
20 25 30

<210> 8398

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8398

Met Leu Arg Leu Leu Arg Lys Met Tyr Lys Lys Met His Thr Ala Leu
1 5 10 15

Ala Gly His Trp Leu
20

<210> 8399

<211> 41

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8399

Tyr Phe Arg Met Leu Thr Lys Met Met Lys Tyr Tyr His Asn Arg Asp
1 5 10 15

Ala Gly Ala Ala Lys Arg Arg Lys Met Leu Met Ala Lys Arg Lys Arg
20 25 30

Leu Lys Leu Ala Thr Arg Glu Ala Ala
35 40

<210> 8400

<211> 72

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8400

Lys Leu Arg Leu Leu Ser Arg Phe Trp Arg Lys Leu Lys Lys Asn Val
 1 5 10 15

Gln Asn Ala Tyr Pro Arg Thr Arg Ala Asp Lys Gly Lys Phe Asn Ala
 20 25 30

Ala Leu Lys Ile Thr Arg Gln His Asn Cys Phe Asp Lys Ala Lys Ala
 35 40 45

Leu Gly Glu Phe Ala Leu Ile Leu Leu Lys Leu Arg Gln Lys Ala Ala
 50 55 60

Lys Thr Ala Lys Leu Arg Leu Arg
 65 70

<210> 8401

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8401

Leu Leu Lys Leu Trp Lys Arg Leu Phe Arg Arg Phe Lys Thr Val Ala
 1 5 10 15

Asn Gly Leu Arg Ser Asn Arg Thr Cys
 20 25

<210> 8402

<211> 91

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8402

Leu Leu Lys Phe Leu Ser Lys Tyr Trp Arg Lys Tyr Lys Thr Met Ala
 1 5 10 15

Gly Gln Lys Lys Lys Arg Pro Leu Trp Leu Gly Ala Leu Thr Phe Lys
 20 25 30

Lys Phe His Lys Thr Asp Lys Asn Asp Trp Arg Leu Gln Arg Lys Lys
 35 40 45

Ala Ala Ile Leu Trp Ala Thr Lys Ala Leu Ala Ala Arg Leu Asp Ala
 50 55 60

Ile Leu Thr Arg Ala Asn Ile His Leu Arg Lys Gly Ala His Ser Met
 65 70 75 80

Leu Ala Lys Glu Arg Ser Arg Ala Trp Thr Arg
 85 90

<210> 8403
 <211> 60
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8403

Arg Phe Lys Phe Trp Pro Lys Leu Met Arg Leu Tyr Lys Pro Lys Leu
 1 5 10 15

Lys Lys Arg Asn Met Phe Arg Cys Arg Lys Leu Gly Phe Leu Ala Lys
 20 25 30

Leu Lys His Tyr Ile Leu Gly Ser Phe Pro Pro Arg Ser Leu Leu Ala
 35 40 45

Asn Pro His Leu Ala Lys Lys Arg Leu Arg Ile Lys
 50 55 60

<210> 8404
 <211> 57
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8404

Leu Leu Lys Phe Ile Lys Lys Trp Met Lys Leu Phe Arg Arg Gln Asn
 1 5 10 15

Ala Leu Pro Lys Lys Leu Tyr Cys Cys Leu His Cys His Lys Leu Ala

20

25

30

Gln Arg Lys Met Gly Leu Gln Thr Lys Phe Gln Gly Leu Leu Leu Ala
 35 40 45

Ala Leu Arg Phe Asp Lys Arg Leu Trp
 50 55

<210> 8405

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8405

Lys Leu Lys Leu Leu Ser Arg Met Leu Lys Leu Phe Ser Arg Ser Ser
 1 5 10 15

Ala Gly Thr Gly
 20

<210> 8406

<211> 39

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8406

Lys Tyr Lys Ile Ile Ser Arg Tyr Phe Arg Met Ile Asn Lys Leu Ala
 1 5 10 15

Lys Met Arg Gly Leu Met Leu His Arg Asn Ala Arg Lys Ala Arg His
 20 25 30

Leu Leu Ala Ser Arg Leu Leu
 35

<210> 8407

<211> 52

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8407

Tyr Phe Lys Ile Tyr Lys Arg Phe Tyr Arg Arg Tyr Lys Arg Arg Ala
 1 5 10 15

Leu Lys Ala Val Thr Ala Leu Tyr Ile Leu Pro Gly Asp Ile Ala Ala
 20 25 30

Arg Pro Lys Asp Thr Leu Gly Ile Ser Leu Leu Ala Lys His Arg Ala
 35 40 45

Leu Tyr Lys Leu
 50

<210> 8408

<211> 78

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8408

Lys Leu Arg Trp Ile Arg Lys Tyr Leu Lys Lys Trp Thr Arg Phe Leu
 1 5 10 15

Ala Tyr Asn Leu Pro Ala Gln Gly Ser Lys Leu Trp Ala Lys Arg Tyr
 20 25 30

Lys Arg Asp Asp Ala Lys Lys Phe Arg Arg Asn Tyr Asn Ile Arg Ala
 35 40 45

Tyr Ala Glu Arg Thr Arg Gln Arg Cys Arg Cys Leu Ala Ser Lys His
 50 55 60

Ala Met Tyr Leu Trp Ile Ala Leu Ala Arg Gly Ala Leu Arg
 65 70 75

<210> 8409

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8409

Arg Phe Lys Phe Tyr Arg Lys Met Leu Lys Arg Met Ser Lys Leu Gly
 1 5 10 15

Leu Ala Arg Leu Ala Ile Asn Val
 20

<210> 8410

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8410

Arg Met Lys Phe Phe Arg Lys Leu Tyr Arg Lys Trp Gln Cys Gln Leu
 1 5 10 15

Thr Val Arg Leu Gly Ala Leu Ala Lys Ala Lys
 20 25

<210> 8411

<211> 98

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8411

Lys Leu Lys Leu Leu Arg Lys Phe Phe Lys Arg Leu Arg Pro Glu Thr
 1 5 10 15

Asp Leu Met Cys Leu Leu Ala Arg Ala Tyr Leu Leu Ser Val Ala Lys
 20 25 30

Phe Ile Asn His Leu Ala Leu Gly Ile Leu Ala Asn Gln Tyr Phe Arg
 35 40 45

Leu Lys Ala Lys Asp Cys Met Met Arg Arg Leu Trp Leu Ser Tyr Ala
 50 55 60

Ala Lys Asn Cys Lys His Arg Tyr Arg Ala Pro Leu Arg Ile Arg Ser
 65 70 75 80

Arg Gly Ala Ile Cys Glu Ser Cys Thr Leu Ala Leu Leu Glu Ala Thr

85

90

95

Lys Lys

<210> 8412

<211> 41

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8412

Ile	Tyr	Arg	Trp	Leu	Arg	Lys	Tyr	Leu	Arg	Phe	Leu	Arg	Lys	Ala	Lys
1				5				10						15	

Cys	Leu	Lys	Arg	Gly	Ala	Trp	Leu	Gln	Arg	Leu	Ala	Arg	Thr	Asp	Arg
			20				25						30		

Pro	Ala	Cys	Ala	Trp	Met	Phe	Lys	Gly
		35					40	

<210> 8413

<211> 72

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8413

Lys	Leu	Arg	Trp	Met	Arg	Arg	Leu	Leu	Arg	Leu	Trp	Lys	Arg	Lys	Ala
1				5				10						15	

Lys	Glu	Ala	Thr	Gly	Met	Lys	Met	Ala	Asn	Tyr	Arg	Arg	His	Leu	Arg
			20					25					30		

Pro	Lys	Lys	Arg	Met	Cys	Met	Arg	Ala	Val	Thr	Gln	Thr	Ala	Asn	Ala
		35					40					45			

Ile	Ala	Glu	Ala	Arg	Trp	Gly	Phe	Pro	Pro	Ala	Lys	Leu	Leu	Val	Leu
	50					55					60				

Lys	Lys	Ala	Lys	Ser	Val	Lys	Cys
65				70			

<210> 8414
 <211> 27
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8414

Leu Leu Lys Leu Met Lys Lys Phe Leu Lys Arg Met Arg Lys Ala Pro
 1 5 10 15

Asp Thr Thr Leu Thr Cys Lys Ala Ile Arg Gly
 20 25

<210> 8415
 <211> 58
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8415

Arg Tyr Lys Phe Leu Ser Arg Leu Leu Arg Trp Phe Lys Lys Ala Ala
 1 5 10 15

Ala Asn Leu Leu Phe Lys Leu Val Ser Met Arg Glu Lys Ile Ala Leu
 20 25 30

Arg Ala Phe Ile Arg Leu Trp Ala Arg Arg Lys Lys Phe Arg Ala Gly
 35 40 45

Gly Trp Asp Ile Cys Ala Ala Met Arg Ala
 50 55

<210> 8416
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8416

Met Tyr Lys Leu Leu Asn Lys Leu Leu Arg Arg Met Arg Lys Arg His
 1 5 10 15

Pro Ala Ser Val Lys Cys Ala Lys Leu Trp Asn Cys Ala Ser His Ile
 20 25 30

Leu Lys Trp Lys
 35

<210> 8417
 <211> 38
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8417

Ile Leu Lys Phe Tyr Lys Lys Leu Leu Arg Leu Trp Gln Lys Ala Asp
 1 5 10 15

Leu Leu Leu Phe Ala Tyr Leu Lys Cys Thr Lys Arg Lys Arg Val Gln
 20 25 30

Lys Thr Lys Arg Ser Glu
 35

<210> 8418
 <211> 41
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8418

Tyr Ile Lys Ile Leu Asn Arg Leu Trp Lys Leu Leu Lys Lys Leu Leu
 1 5 10 15

His Ser Val Arg Cys His Ala Lys Ala Met Gly Ala Ala Ala Arg Gln
 20 25 30

Arg Arg Leu Glu Cys Ala Ala Trp Cys
 35 40

<210> 8419
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8419

Lys Leu Lys Leu Trp Lys Arg Tyr Phe Lys Lys Met Arg Gln Cys Leu
 1 5 10 15

Leu Asp Lys Cys Ile Arg Ala Asn Arg Asn Ala Pro Thr Ala Lys Ala
 20 25 30

<210> 8420

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8420

Lys Trp Lys Leu Phe Arg Arg Phe Leu Lys Phe Leu Lys Ser Ala Leu
 1 5 10 15

Arg Val Ile Leu Ala Gln Arg
 20

<210> 8421

<211> 54

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8421

Met Leu Arg Ile Met Ser Lys Met Phe Lys Arg Leu Pro Arg Lys Ser
 1 5 10 15

Phe Trp Ile Ser Arg Leu Leu Tyr Asp Thr Lys Ala Lys Leu Leu Leu
 20 25 30

Leu Lys Glu Leu Lys Lys Arg Arg Cys His Ile Leu Arg Tyr Asn Ala
 35 40 45

Ala Arg Cys Tyr Ala Lys
 50

<210> 8422

<211> 59
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8422

Arg Phe Lys Leu Leu Arg Arg Ile Leu Arg Lys Met Lys Gln Pro Gln
 1 5 10 15

Ala Lys His Gln Arg Met Lys Val Ala Arg Lys Arg Cys Arg Glu Arg
 20 25 30

Leu Val Pro Phe Thr Asp Lys Leu Ala Ser Leu Leu Arg Pro Arg Ala
 35 40 45

Asn Cys Ala Lys His Leu Leu Arg Leu Gln Ala
 50 55

<210> 8423
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8423

Trp Phe Lys Phe Leu Lys Lys Phe Leu Arg Lys Leu His Arg Ser Ala
 1 5 10 15

Arg Ala Lys Tyr Thr Ala Ala Pro Arg Ser Asn Ala Arg
 20 25

<210> 8424
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8424

Arg Leu Lys Tyr Trp Arg Arg Leu Phe Lys Lys Phe Lys His Met Thr
 1 5 10 15

Leu Cys Ala Leu Leu

20

<210> 8425
 <211> 47
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8425

Phe Ile Arg Leu Leu Ser Lys Leu Met Lys Arg Leu His Cys His Arg
 1 5 10 15

Glu Leu Ala Gly Arg Arg Phe Met Trp Leu Arg Ser Arg Ala Arg Arg
 20 25 30

Lys Met Lys Leu Ala Ala Trp Glu Leu Glu Ala Leu Ile Ala Arg
 35 40 45

<210> 8426
 <211> 53
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8426

Met Leu Lys Leu Phe His Arg Phe Phe Lys Phe Phe Arg Arg Ala Leu
 1 5 10 15

Leu Lys Asn Arg Leu Thr Ala Ala Val Ala Ser Leu Ala Ala Arg Asp
 20 25 30

Phe Lys Asp Arg Leu Lys Val Leu Ala Ser Val Lys Leu Lys Val Cys
 35 40 45

Phe His Leu Glu Ala
 50

<210> 8427
 <211> 47
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8427

Tyr Leu Lys Leu Ile Ser Arg Ile Phe Arg Leu Tyr Lys Thr Ala Trp
 1 5 10 15

Ala Asp His Ile Lys Leu Ile Arg Lys Lys Ala Leu Leu Met Leu Ala
 20 25 30

Arg Arg Ala Arg Thr Ala Tyr Gln Thr Arg Gln Trp Ser Asp Arg
 35 40 45

<210> 8428

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8428

Ile Phe Lys Met Leu Arg Lys Tyr Tyr Lys Arg Leu Lys Arg Leu Leu
 1 5 10 15

Ala Ala Arg Gln Lys Lys Ala Ala
 20

<210> 8429

<211> 43

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8429

Arg Leu Arg Phe Ile Lys Lys Phe Ile Lys Arg Leu Lys Arg Lys Lys
 1 5 10 15

Ser Trp Phe Arg Arg Tyr Ala Ser Ala Ser Ala Asp Gly Cys Leu Ala
 20 25 30

Tyr Ala Arg Leu Pro Ile Ala Cys Val Ser Lys
 35 40

<210> 8430

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8430

Lys Leu Lys Leu Phe Lys Lys Leu Leu Lys Leu Tyr Lys Lys Ile Arg
1 5 10 15

Leu Lys Lys Leu Met Leu Gln
20

<210> 8431

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8431

Arg Leu Lys Leu Phe Arg Lys Leu Phe Lys Leu Ile Pro Pro Ala Asn
1 5 10 15

Lys Gln Asp Arg Leu Asp Ala Lys Pro Lys Trp
20 25

<210> 8432

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8432

Tyr Leu Arg Ile Leu Thr Lys Phe Leu Lys Lys Met Arg Lys Leu Lys
1 5 10 15

Arg His Cys Leu Glu Ala Lys Asp Tyr Ile Leu Tyr
20 25

<210> 8433

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8433

Arg Leu Lys Met Leu Lys Lys Leu Leu Arg Leu Met Arg Pro Asp Leu
 1 5 10 15

Gly Cys His Leu Asn Leu Arg Leu Arg Cys Leu Thr Arg Thr Trp Leu
 20 25 30

Tyr Pro Val
 35

<210> 8434

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8434

Leu Phe Arg Leu Met Cys Lys Leu Met Lys Leu Leu Arg Thr Tyr Ala
 1 5 10 15

Gln Arg Arg Lys Leu Leu His Gln
 20

<210> 8435

<211> 56

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8435

Arg Leu Lys Leu Leu Arg Arg Leu Trp Lys Lys Met Ser Lys Leu Met
 1 5 10 15

Leu Trp Arg Ala Lys Ala His Leu Gly Gln Phe Arg Met Lys Ala Lys
 20 25 30

Ser Gln Arg Ala Trp Ala Ser Met Met Ala Arg Val Lys Ala Asn Val
 35 40 45

Asn Trp Asn Arg Ala Lys Lys Leu
 50 55

<210> 8436
 <211> 48
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8436

Tyr Met Arg Trp Leu Asn Arg Leu Leu Arg Lys Ile Thr Arg Leu Ala
 1 5 10 15

Lys Pro Cys Glu Leu Val Arg Arg Asn His Leu Phe Leu Arg Lys Lys
 20 25 30

Gln Glu Val Met Leu Lys Arg Leu Ala Gly His Gln Leu Ala Lys Ile
 35 40 45

<210> 8437
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8437

Tyr Trp Arg Leu Phe Arg Arg Phe Leu Lys Lys Leu Lys Arg Leu Leu
 1 5 10 15

Thr Ala Ala Lys Thr Tyr Gly Ala Gln Arg Lys Thr
 20 25

<210> 8438
 <211> 46
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8438

Leu Phe Arg Phe Leu Asn Lys Tyr Tyr Arg Lys Trp Pro Arg Lys Arg
 1 5 10 15

Leu Thr Leu Tyr Ala Met Trp Arg Leu Ala Phe Arg Tyr Phe Met Tyr
 20 25 30

Lys Ala Leu Arg Gln Lys Lys Ala Ala Leu Asn Ser Lys Cys
35 40 45

<210>	8439
<211>	38
<212>	PRT
<213>	Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 8439

Arg Tyr Arg Phe Phe Lys Arg Ile Leu Lys Ile Leu Pro Ser Arg Phe
1 5 10 15

Lys Val Leu Asn Pro Ala Arg Ala Arg Leu Pro Lys Ala Leu Arg Ala
20 25 30

Thr Asp Lys Leu Asp Ala
35

<210>	8440
<211>	29
<212>	PRT
<213>	Artificial Sequence

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<220>
<223> Computer-generated peptide variant
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<400> 8440

Leu Trp Arg Met Leu Asn Arg Leu Phe Lys Arg Phe Gln Arg Leu Leu
1 5 10 15

Arg Arg Ile Asp Leu Glu Lys Trp Val Lys Ile Ala Gln
20 25

<210>	8441
<211>	52
<212>	PRT
<213>	Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 8441

Trp Met Lys Leu Ile Asn Lys Phe Tyr Lys Arg Tyr Asn Lys Ser Ala
1 5 10 15

Leu Leu Leu Arg Ala Ala Thr Pro Trp Asp Arg Leu Thr Lys Leu Arg
 20 25 30

Lys Ile Ala Trp Arg Lys Val His Leu Leu Arg Arg His Gln Asn Leu
 35 40 45

Arg Lys Met Leu
 50

<210> 8442
 <211> 59
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8442

Tyr Leu Arg Phe Trp His Lys Tyr Leu Lys Met Phe Pro Arg Asp Asp
 1 5 10 15

Lys Trp Arg Met Asn Pro Ala Leu Arg Ser Met Lys Asn Ala Leu Ile
 20 25 30

Ala Arg Ala Met Val Leu Lys Glu Lys Trp Ala Arg Ala Cys Leu Lys
 35 40 45

Ala Pro Leu Leu Ser Ala Leu Arg Lys Lys Cys
 50 55

<210> 8443
 <211> 58
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8443

Leu Trp Arg Leu Phe Lys Arg Leu Trp Lys Arg Ile Lys Arg His Glu
 1 5 10 15

Leu Lys Gly Gly Ala Lys Lys Arg Val Arg Ala Ala Lys Gln Asn Ser
 20 25 30

Tyr His Ala Asn Asp Lys Asn Lys Trp Thr Lys Asp Trp Trp Leu Leu

35

40

45

Gln Leu Ala Leu Leu Cys Cys Ala Lys Lys
 50 55

<210> 8444

<211> 47

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8444

Arg Tyr Arg Leu Phe Ser Arg Phe Leu Lys Arg Met Arg Thr Cys Ala
 1 5 10 15

Val Gln Leu Lys Lys Pro Ala Ala Pro Leu Ala Arg Thr Ala Ala Leu
 20 25 30

Gly Cys Ala Arg Leu Glu Arg Arg Val Tyr Val Trp Ala Pro Ala
 35 40 45

<210> 8445

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8445

Lys Leu Arg Phe Leu Arg Lys Ile Ile Lys Arg Leu Thr Lys Asp Ala
 1 5 10 15

Ala Leu Leu Gly Phe Ala Trp Ala Ala Tyr Ala Asn Trp Val Val Arg
 20 25 30

Glu His Arg Leu
 35

<210> 8446

<211> 61

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8446

Met Tyr Lys Leu Leu Ser Lys Leu Phe Lys Tyr Trp Ser Arg Ser Leu
 1 5 10 15

Val Arg Met Val Ala Trp Gln Ala Ala Ala Arg Met Leu Arg Tyr Lys
 20 25 30

Leu Arg Pro Asp Ala Ala Ile Arg Lys Lys Arg Ala Lys Gln Gly Lys
 35 40 45

Ala Ala Lys His Asn Leu Met Leu Glu Ile Trp Arg Leu
 50 55 60

<210> 8447

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8447

Arg Tyr Lys Leu Phe Arg Arg Met Leu Lys Arg Leu Thr Pro Lys Cys
 1 5 10 15

Leu Met Leu Glu Leu Thr Ala Glu Pro Leu Leu Phe Leu Leu Phe Ile
 20 25 30

Lys

<210> 8448

<211> 66

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8448

Arg Leu Lys Ile Leu Cys Lys Phe Tyr Arg Lys Tyr Gln Arg Met Leu
 1 5 10 15

Ala Leu Lys Asp Arg Asp Lys Leu Ala Ser Leu Gln Pro Trp Leu Lys
 20 25 30

Lys His Ala Lys Trp His Arg Ala Leu Ile Phe Lys Gln Ala Gly Asn
 35 40 45

Arg Thr Asp Leu Lys Lys Ala Lys Asn Lys Tyr Arg Leu Cys Pro Asn
 50 55 60

Ile Lys
 65

<210> 8449
 <211> 57
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8449

Arg Ile Lys Leu Leu His Arg Met Trp Lys Arg Leu His Lys Asn Ala
 1 5 10 15

Arg Cys Thr Phe His Ala Arg Leu Lys Glu Pro Lys Trp Ala Trp Asp
 20 25 30

Leu Arg Leu Thr Ala Tyr Lys Arg Thr Ala Arg Cys Arg Ala Ile Leu
 35 40 45

Ala Phe Ile Asn Ala Asp Leu Asn Leu
 50 55

<210> 8450
 <211> 61
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8450

Arg Leu Arg Leu Leu Arg Arg Met Ile Lys Lys Ile His His Leu Pro
 1 5 10 15

Asp Ser Asn Gly Glu Arg Leu Gly Gly Pro Ala Ala Leu Leu Lys Lys
 20 25 30

Arg Lys Leu Pro Asn Asp Leu Val Pro Ala Gln His Leu Ala Arg Ala

35

40

45

Trp Arg Arg Ala His Ala Cys Ala Ala Lys Trp Glu Asn
 50 55 60

<210> 8451
 <211> 39
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8451

Leu Phe Arg Leu Tyr Arg Lys Phe Phe Arg Lys Met Arg Pro Trp Leu
 1 5 10 15

Pro Arg Asn Leu Lys Lys Ser Ala Ile Leu Ala Asn Cys Arg Ala Ala
 20 25 30

Leu Gly Ala Glu Gly Asn Leu
 35

<210> 8452
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8452

Phe Phe Arg Leu Tyr Arg Lys Leu Met Lys Leu Phe Pro Lys Gln His
 1 5 10 15

Leu Leu Pro Gln Arg Lys Leu
 20

<210> 8453
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8453

Trp Phe Lys Leu Trp Lys Lys Phe Leu Arg Leu Leu Pro Arg Thr Cys

1 5 10 15

Gln Val Glu Phe Leu Gly Lys Ala Arg Leu Arg Leu Lys
20 25

<210> 8454
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 8454

Arg Met Arg Leu Leu Arg Arg Leu Leu Arg Leu Phe Arg Lys His Gln
1 5 10 15

Gln Ser Ala Lys Lys Arg Ala Cys Ser Ile Ala Pro
20 25

<210> 8455
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 8455

Leu Ile Lys Leu Leu Arg Lys Leu Leu Lys Leu Trp Thr Cys Leu Lys
1 5 10 15

Gln Ala Arg Phe Thr Ala Lys Lys Lys Phe Gln Lys Arg Gln
20 25 30

<210> 8456
<211> 53
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 8456

Arg Ile Arg Trp Met Asn Lys Tyr Phe Lys Arg Ile Lys Arg Tyr Lys
1 5 10 15

Ala Ala Lys Ala Lys Asn Arg Ala Cys Ala Arg Leu Met Leu Glu Ala

20

25

30

Trp His Trp Glu Thr Phe Ala Leu Thr Trp Lys Ser Leu Leu Ala Phe
 35 40 45

Lys Leu Tyr Ala Arg
 50

<210> 8457

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8457

Phe Met Lys Leu Leu Lys Lys Leu Trp Lys Lys Ile Lys Ser Ala Met
 1 5 10 15

Asn Leu Leu Trp Ala Arg Arg Ile Asp Leu Arg Lys Asp Ala Val Leu
 20 25 30

His

<210> 8458

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8458

Phe Tyr Arg Phe Leu Arg Lys Met Leu Lys Leu Leu Lys Ser Asn Arg
 1 5 10 15

Gln Ala Ala Thr Ile Ala Arg Lys Leu Trp Ser His Ala Ser Ala Lys
 20 25 30

Asp Trp

<210> 8459

<211> 54

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8459

Leu Tyr Lys Met Leu Lys Lys Met Leu Arg Lys Leu Lys Lys Arg Ile
1 5 10 15

Arg Leu Leu Leu Met Thr Gln Arg Lys Tyr Ala Thr Met Ala Leu Met
20 25 30

Pro Thr Leu Ala Lys Tyr Ile Leu Thr Lys Ala Phe Tyr Asp Ser Arg
35 40 45

Lys Gly Arg Tyr Phe Phe
50

<210> 8460

<211> 54

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8460

Met Leu Arg Tyr Leu Lys Arg Leu Met Lys Lys Tyr Lys Arg Ile Leu
1 5 10 15

Ala Asp Leu Lys Tyr Leu His Leu Arg Ile Ile Ser Arg Ala Arg Leu
20 25 30

Ser Thr Lys Lys Ala Arg His Leu His Lys Ala Val Leu Asn Leu Lys
35 40 45

Leu Ile Lys Phe Arg Leu
50

<210> 8461

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8461

Lys Tyr Arg Met Trp Lys Lys Trp Trp Arg Leu Leu Cys Arg Thr Ala
 1 5 10 15

Ala Lys Lys Ala Ala Ala Lys Pro Cys Val His Pro Thr Lys
 20 25 30

<210> 8462

<211> 52

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8462

Arg Met Lys Met Trp Lys Arg Phe Tyr Lys Lys Trp Gln Lys Ala Ile
 1 5 10 15

Arg Leu Lys Arg Glu Arg Lys Leu Ala Ala Glu Leu Trp Thr Leu Leu
 20 25 30

Ala Ala Thr Ala Ala Val Gly Trp Leu Lys Leu Asn Gly Ile Leu Leu
 35 40 45

Gln His Thr Cys
 50

<210> 8463

<211> 60

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8463

Lys Ile Arg Phe Phe Lys Lys Met Leu Arg Trp Leu Gln Arg Tyr Cys
 1 5 10 15

Arg Tyr Cys Leu Arg Thr Arg Asp Leu Arg Arg Gln Ala Leu Val Ala
 20 25 30

Lys Asp Lys Leu Trp Lys Leu Ala Asp Phe Met Lys Ala Gln Lys His
 35 40 45

Val Ala Val Ala Lys Leu Gln Lys Tyr Pro Pro Leu

50

55

60

<210> 8464

<211> 79

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8464

Arg Leu Arg Leu Phe His Arg Phe Leu Arg Lys Trp Lys Asn Ala His
 1 5 10 15

Phe Leu Leu Ala Gly Ser Leu Leu Ala His Gly Ala Val Arg Leu Asp
 20 25 30

Cys Leu Ala Ala Ser Asn Ile Met Lys Lys Asp Cys Trp Met Arg Gln
 35 40 45

Lys Arg Leu Arg Thr Ala Ala Gln Ser Glu Leu Lys Arg Ile Arg Leu
 50 55 60

Cys Arg Ala Gly Leu Ser Val Leu Tyr Arg Ala Lys Glu Leu Lys
 65 70 75

<210> 8465

<211> 39

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8465

Arg Ile Arg Leu Phe Lys Arg Trp Tyr Arg Arg Phe Lys Arg Ala Arg
 1 5 10 15

Pro Thr Leu Arg Asn Arg Pro Tyr Ala Leu Ala Arg Val Leu Ala Ala
 20 25 30

Ala Tyr Ala Cys Glu Thr Trp
 35

<210> 8466

<211> 70

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8466

Arg Leu Arg Leu Ile Lys Arg Leu Met Arg Arg Leu Pro Lys Phe Ala
1 5 10 15

Met Asn Tyr Ile Glu Glu Lys Met Cys Ala Leu Tyr Ala Tyr Arg Trp
20 25 30

His Asp Trp Arg Ala Asn Lys Leu Lys Phe Ser Ala Cys Lys Glu Leu
35 40 45

Lys Cys Leu Ala Ser Arg Thr Cys Arg Ala Ala Val Gly Leu Tyr Arg
50 55 60

Arg Ala Arg Lys Ala Cys
65 70

<210> 8467

<211> 39

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8467

Leu Phe Arg Phe Leu Arg Lys Met Phe Lys Leu Leu Ser Arg Arg Val
1 5 10 15

Ala Trp Arg Arg Pro Tyr Lys Cys Lys Lys Leu Ala Ala Cys Lys Tyr
20 25 30

Tyr Met Ser Leu Asn Pro Leu
35

<210> 8468

<211> 55

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8468

Met Phe Arg Leu Leu His Lys Phe Met Arg Lys Met Lys Arg Thr Ala
 1 5 10 15

Lys Leu Asp Ala Val Leu Lys Gly Lys Arg Ser Tyr Thr Met His Cys
 20 25 30

Lys Leu Cys Thr Met Ala Pro Lys Phe Lys Arg Met Ile Leu Lys Ala
 35 40 45

Leu Lys Lys Lys Ala Leu Pro
 50 55

<210> 8469

<211> 76

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8469

Arg Met Lys Leu Tyr Lys Arg Met Trp Arg Leu Tyr Lys Cys Trp Glu
 1 5 10 15

Arg Leu Ala Tyr Ala Asp His Gly Glu Tyr Lys Arg Lys Ala Ala Arg
 20 25 30

Thr Thr Ala Cys Gln Leu Asn Arg Arg Ala Arg Glu Phe Gln Lys Lys
 35 40 45

Arg Lys Phe Glu Lys Lys Ala Gly Pro Ala Leu Phe Ala Ile Ile Arg
 50 55 60

Lys Leu Lys Leu Lys Thr Tyr Lys Ala Glu Leu Thr
 65 70 75

<210> 8470

<211> 60

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8470

Arg Ile Lys Tyr Leu Ser Lys Phe Phe Arg Lys Phe Lys Arg Met Met

1 5 10 15

Arg Leu Pro Ser Leu Lys Phe Asp Arg Leu Gln Arg Lys Lys Lys Leu
20 25 30

Cys Gln Lys Ala Trp Ala Trp Arg Trp Trp Lys Thr Arg Ala Thr Ala
35 40 45

Asp Thr Leu Glu Arg Leu Ala Leu Arg Asp Leu Asp
50 55 60

<210> 8471
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8471

Arg Phe Lys Met Leu Arg Arg Phe Tyr Lys Lys Phe Arg His Ala Leu
1 5 10 15

Gln Asp Arg Val Ala Ser His Ala Ala Ala Ala Gln Gln
20 25

<210> 8472
 <211> 48
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8472

Tyr Leu Lys Ile Phe Lys Arg Phe Leu Arg Phe Met Pro Lys Met His
1 5 10 15

Leu Ala Val Arg Asn Arg Arg Cys Leu Ala Phe Ala Asp Trp Ser Ala
20 25 30

Arg Val Ala Lys Ala Ala Lys Arg Ala Thr Tyr Ala Tyr Pro Leu Leu
35 40 45

<210> 8473
 <211> 42
 <212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8473

Leu Leu Arg Trp Leu Lys Arg Ile Leu Arg Lys Ile Arg Asn Ala Ala
1 5 10 15

Lys Asp Arg Pro Tyr Ala Leu Pro His Val Val Lys Ala Thr Gly Lys
20 25 30

Val His Lys Arg Lys Glu Phe Gly Ala Arg
35 40

<210> 8474

<211> 47

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8474

Arg Ile Lys Leu Trp Ser Lys Tyr Phe Arg Phe Trp Gln Lys Ser Leu
1 5 10 15

Ala Pro Arg Leu Lys Met Leu Lys Ala Ser Cys Arg Leu Leu Leu Pro
20 25 30

Lys Leu Cys Ala Val Leu Arg Met Arg Ile Tyr Gly Ala Leu Lys
35 40 45

<210> 8475

<211> 56

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8475

Lys Leu Arg Leu Phe Lys Lys Phe Phe Arg Lys Phe Cys Arg Lys His
1 5 10 15

Ser Tyr Arg Arg Asp Phe Phe Asp Ala Leu Phe Ala Ala Ser Arg Ser
20 25 30

Ile Asn Ile Leu Asn Ser Arg Ala Leu Ala Lys Thr Lys Leu Gly Arg
 35 40 45

Gln Ala Ala Arg Ala Leu Glu Ser
 50 55

<210> 8476
 <211> 58
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8476

Arg Phe Lys Met Met Thr Arg Tyr Leu Arg Lys Leu Arg Thr Glu Arg
 1 5 10 15

Glu Leu Arg Lys Arg Ala Ala Ala Gly Leu Ala Thr Lys Tyr Trp Asp
 20 25 30

Arg Ala Ile Arg Leu Arg Ala His Ser Pro Trp Val Ala Glu Ala Leu
 35 40 45

Thr Val Leu Ala Tyr Ala Phe Lys His His
 50 55

<210> 8477
 <211> 70
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8477

Tyr Leu Arg Phe Leu Ser Lys Ile Trp Arg Lys Leu Gln Arg Leu Pro
 1 5 10 15

Lys Cys Gln Ser Arg Asp Pro Ala Arg Glu Ala Lys Ala Ala Arg Ala
 20 25 30

Ala Lys Arg Leu Arg Arg Tyr Met Ser Leu Met Gln Phe Glu Ala Leu
 35 40 45

Ile Lys Ala Lys Lys Asp Phe Ala Arg Arg Pro Leu Phe Gly Ala Ala

50

55

60

Ile Ala Arg Lys Arg Lys
65 70

<210> 8478
<211> 82
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 8478

Phe Phe Arg Phe Leu Lys Arg Leu Ile Arg Leu Phe Thr Thr Thr Ala
1 5 10 15

Leu Leu Ala Trp Trp Leu Leu Arg Pro Asp His Arg Asn Gln Phe Lys
20 25 30

Arg Leu Arg Leu His Arg Arg Ala Cys Arg Gly Arg Pro Gly Trp Asp
35 40 45

Pro Asp Arg Asn Val Met Leu Ala Ala Ala Arg Ala Ala Glu Arg Ala
50 55 60

Thr Ala Ala Trp Cys Ser Ala Arg Arg Leu Lys Gly Tyr Lys Trp Leu
65 70 75 80

Arg Arg

<210> 8479
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 8479

Met Leu Arg Leu Leu Lys Arg Met Phe Lys Phe Leu Ser Arg Ala Cys
1 5 10 15

Leu Ala Met Val His Glu Arg
20

<210> 8480
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8480

Arg Tyr Arg Trp Leu Lys Arg Leu Phe Lys Arg Leu Lys Ser Ile Lys
 1 5 10 15

Lys Ala Thr Trp Val Gln Leu Ala Leu Thr Lys Gln Ala
 20 25

<210> 8481
 <211> 58
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8481

Met Leu Lys Tyr Leu Lys Lys Met Leu Arg Arg Leu His Lys Lys Leu
 1 5 10 15

Leu Lys Phe Gly Lys Leu Glu Ala Gly Ile Met Ala Arg Ala Asn Arg
 20 25 30

Glu Pro Ala Leu Ala Ala Gln Leu Tyr Arg Asn Arg Phe Asn Met Ala
 35 40 45

Arg His Asn Gln Glu Met Val Arg Phe Lys
 50 55

<210> 8482
 <211> 31
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8482

Leu Trp Lys Trp Leu Lys Lys Phe Leu Lys Lys Trp Lys Lys Glu Ala
 1 5 10 15

Phe Val Arg Leu Trp Ala Thr Ala Pro Phe Leu Ala Ala His Lys
 20 25 30

<210> 8483
 <211> 75
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8483

Lys Met Lys Trp Leu Ser Arg Tyr Phe Lys Arg Leu Lys Arg Val Lys
 1 5 10 15

Arg Thr Asp Thr Gln Lys Ser Leu Asn Ala Arg Pro Leu Leu Pro Pro
 20 25 30

Ala Thr Ala Lys Ala Cys Ile Lys Lys Arg Glu Ala Lys Asp Asn Cys
 35 40 45

Ala Asn Arg Cys Glu Ala Lys Leu Met Leu Leu Leu Arg Lys Leu Leu
 50 55 60

Leu Trp Ala Trp Asn Gln Pro Glu Lys Arg Val
 65 70 75

<210> 8484
 <211> 79
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8484

Tyr Leu Lys Leu Ile Lys Arg Trp Ile Lys Phe Met Arg Gln Gly Met
 1 5 10 15

Leu Glu Asn Lys Lys Tyr Ala Tyr Ala Arg Ala Asn Asp Val Lys Leu
 20 25 30

Phe Arg Gly Leu Lys Glu Tyr Ala Tyr Lys Ala Glu Tyr Lys Leu Lys
 35 40 45

Arg Met Ile Lys Ala Arg Leu Lys Lys Ala Lys Arg Leu Phe Leu Trp

50

55

60

Gln Leu Leu Thr Gln Met Lys Ala Lys Lys Pro Lys Lys Pro Gly
 65 70 75

<210> 8485
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8485

Phe Phe Arg Phe Leu Lys Lys Leu Leu Arg Arg Leu Lys His Ile Ile
 1 5 10 15

Ala Lys Glu Ala Ile Arg
 20

<210> 8486
 <211> 59
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8486

Tyr Tyr Lys Leu Ile Arg Lys Tyr Leu Arg Phe Tyr Asn Arg Lys Leu
 1 5 10 15

Lys Leu Asp Pro Val Lys Trp Thr Tyr His Lys Pro Tyr Ala Leu Lys
 20 25 30

Tyr Met Arg Cys Leu Lys Lys Lys Ser Gln Leu Lys Leu Lys Ala Ala
 35 40 45

Arg Tyr Cys Ile Leu Cys Ala Ala Pro Lys Lys
 50 55

<210> 8487
 <211> 78
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8487

Arg Met Lys Leu Tyr Pro Arg Leu Leu Lys Lys Ile Gln Ser Phe Asn
 1 5 10 15

Ser Ala Arg Asp His Gly Ala Arg Pro Lys Pro Asn Ile Ala Arg Lys
 20 25 30

Arg Ala Leu Thr Asn Ser Lys Glu Lys Leu Tyr Ile Ile Ala Lys Lys
 35 40 45

Ala Ala Ser Asp Ala Arg Arg Pro Leu Glu Leu Phe Thr Arg Pro Asp
 50 55 60

Arg Ala Ala Ala Ile Trp Lys Arg Ala Arg Ala Gln Pro Leu
 65 70 75

<210> 8488

<211> 46

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8488

Phe Leu Arg Leu Phe Arg Lys Ile Leu Arg Arg Met Arg Arg Gly Ile
 1 5 10 15

Asn Leu Asp Arg Asp His Asn His Leu Leu Ala Ala His Arg Ser Leu
 20 25 30

Ala Leu Lys Phe Ala Phe Arg Arg Asn Asp Leu Ala Gly Leu
 35 40 45

<210> 8489

<211> 81

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8489

Arg Phe Arg Leu Trp Pro Lys Leu Tyr Lys Ile Ile Ser Arg Ala Asp
 1 5 10 15

Asn Leu His Ala Asn Arg Leu Lys Phe Leu Gly Gly Gly Ser Lys Phe
 20 25 30

Thr Pro Arg Lys Lys Ser Ala Arg Leu Ile Tyr Ala Lys Ile Arg Pro
 35 40 45

Lys Leu Cys Lys Asp Ala Trp Leu Leu Leu Arg Ala Lys Ala Lys Arg
 50 55 60

Ser Ala Tyr Arg Ala Val Ala Leu Arg Leu Thr Gly Asp Lys Tyr Trp
 65 70 75 80

Asp

<210> 8490
 <211> 61
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8490

Lys Leu Arg Trp Leu Lys Arg Leu Tyr Lys Arg Trp Lys Cys Leu Ala
 1 5 10 15

Leu Ala Thr Leu Leu Leu Ala Ala Cys Lys Val Asp Cys Val Leu Ile
 20 25 30

Gln Met Lys Arg Phe Leu Lys Leu Lys Lys Asp Glu Gln Phe Pro Trp
 35 40 45

Asn Cys Gly Asp Ile Arg Arg Asp Ala Lys Arg Ala Val
 50 55 60

<210> 8491
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8491

Tyr Tyr Lys Leu Trp Gln Lys Leu Tyr Lys Lys Phe Gln Lys Asn Leu

1 5 10 15

Gly Ala Ala Lys Asp Arg Glu His Lys Leu Arg Tyr Leu Ala Phe Lys
20 25 30

Leu

<210> 8492
<211> 58
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 8492

Phe Leu Lys Met Leu Thr Arg Met Ile Arg Arg Leu Gln Gln Lys Gln
1 5 10 15

Arg Lys Leu Gly Ala Ala Cys Phe Ser Thr Met Leu Arg Ala Cys Arg
20 25 30

Lys Gln Lys Lys Val Leu Ala Tyr Leu Met Glu Leu Arg Ala Arg Phe
35 40 45

Ala Ala Gln Glu Met Trp Leu Arg Ser Ala
50 55

<210> 8493
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 8493

Phe Leu Arg Trp Leu Gln Arg Leu Met Lys Leu Leu Thr Lys Asp His
1 5 10 15

Cys Pro Arg Lys
20

<210> 8494
<211> 55
<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8494

Tyr Phe Arg Phe Leu Lys Arg Leu Phe Arg Lys Met Lys Pro Lys Glu
1 5 10 15

Val Lys Arg Asp Arg Ile Ala Leu Thr Trp Lys Gly Leu Glu Pro Arg
20 25 30

Ala Met Ala Arg Ala Arg Tyr Ala Phe Arg Met Gln Thr Arg Ser Leu
35 40 45

Met Ala Ile Arg Ala Ala Lys
50 55

<210> 8495

<211> 50

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8495

Arg Phe Arg Leu Tyr Gln Arg Leu Met Lys Arg Met Arg Cys Ala Phe
1 5 10 15

Arg Lys Ala Ala Lys Leu Arg Ala Asn Asn Leu Arg Ile Asp Ala Arg
20 25 30

Met Ala Val Ile Gly Leu Leu Asp Ala His Lys Val Thr Asn Ser Ala
35 40 45

Arg Arg
50

<210> 8496

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8496

Met Tyr Lys Ile Ile Arg Lys Leu Leu Arg Met Phe Lys His Ala Gly
 1 5 10 15

His Leu Gly Val Ala His Lys Leu Lys Leu His Leu Tyr Leu Arg Ala
 20 25 30

Gln Arg Ala Thr Ser Leu Met Lys
 35 40

<210> 8497
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8497

Leu Phe Arg Trp Leu Lys Arg Leu Trp Arg Trp Phe Lys Lys Ala Gln
 1 5 10 15

Arg Ala Ser Met Cys
 20

<210> 8498
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8498

Tyr Trp Lys Leu Met Lys Arg Ile Trp Arg Leu Leu Arg Arg Lys Leu
 1 5 10 15

Ser Val Asp Ala Ser Arg Asn Lys Gln Leu Cys Phe Lys Leu His Lys
 20 25 30

Leu Ala Met
 35

<210> 8499
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8499

Phe	Leu	Arg	Phe	Phe	Ser	Arg	Ile	Phe	Arg	Arg	Tyr	Lys	Lys	Arg	Arg
1				5					10					15	

Ala	Asn	Asp	Met	Arg	Leu	Ala	Tyr	Leu	Leu	Ala	Leu	Ala	Gly	Trp	His
			20					25					30		

Lys

<210> 8500

<211> 38

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8500

Met	Leu	Arg	Leu	Leu	His	Lys	Phe	Leu	Arg	Phe	Tyr	Lys	Lys	Met	Tyr
1				5					10					15	

Leu	Lys	Asp	Tyr	Asn	Pro	Trp	Arg	Leu	Lys	Ala	Arg	Ala	Glu	Ala	Asn
			20					25					30		

Pro	Arg	Pro	Leu	Lys	Leu
			35		

<210> 8501

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8501

Arg	Met	Arg	Leu	Trp	Arg	Lys	Tyr	Leu	Arg	Phe	Met	Pro	Arg	Lys	Ala
1				5					10					15	

Met	Leu	Ile	Arg	Ala	Leu	Lys	Ala	Ala	Asp	Arg	Ala	Leu	Lys	Lys	Thr
			20					25					30		

Asn Cys Tyr Trp

35

<210> 8502

<211> 87

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8502

Leu Leu Lys Phe Met Arg Lys Met Phe Arg Leu Trp Lys Gln Phe His
 1 5 10 15

Tyr Lys Val Arg Ala Phe Pro Thr Phe Ala Ala Arg Leu Glu Ala Trp
 20 25 30

Leu Ala Ala Arg Met Tyr His Ala Ala Glu Lys Ala Phe Arg Arg Lys
 35 40 45

Gly Ala Asn Ala Gln Val Asn Arg Cys Thr Leu Glu Ala Arg Leu Ala
 50 55 60

Gly Ala Tyr Leu Ala Met Ala Arg Leu Leu Tyr Gly His Ala Lys Arg
 65 70 75 80

Tyr Pro Leu Trp Lys Gln Lys
 85

<210> 8503

<211> 58

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8503

Lys Phe Lys Phe Trp Lys Arg Leu Met Arg Lys Leu His Arg Lys Arg
 1 5 10 15

Ala Pro Asp Trp Arg Leu Ala Lys Met Arg Leu Trp Arg Cys Val Ala
 20 25 30

Cys Thr Ala Ser Asn Ala Leu Phe Met Thr Ala Lys Lys Trp Val Leu
 35 40 45

Leu Ala Thr Cys Pro Ser Leu Leu Arg Val
 50 55

<210> 8504
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8504

Phe Leu Arg Tyr Tyr Lys Lys Tyr Trp Lys Lys Leu Ser Lys Ala Ala
 1 5 10 15

Trp Leu Asn Tyr Leu Leu Trp Val Phe Ala Ala Arg Ser Val Lys Lys
 20 25 30

Ala Pro Arg
 35

<210> 8505
 <211> 78
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8505

Leu Leu Arg Met Ile Lys Lys Leu Met Arg Tyr Trp Thr His Met Asn
 1 5 10 15

Ala Lys Phe Leu Pro Ala Ala Ala Leu His Lys Arg Leu Glu Gly Ser
 20 25 30

Gln Leu Leu Thr His Lys Val Thr Leu Leu Gly Tyr Ala Cys Lys Lys
 35 40 45

Arg Lys Leu Leu Arg Glu Lys Ala Gly Trp Lys Cys Arg Met Arg His
 50 55 60

Ala Leu Gly Leu Leu Arg Gly Ala His Ala Arg Met Pro Ile
 65 70 75

<210> 8506

<211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8506

Ile Leu Lys Phe Leu His Lys Leu Leu Lys Phe Leu Lys Lys Lys Lys
 1 5 10 15

Tyr Ala Arg Glu Gln Leu Val Gly Ser Lys Leu Ala Ala Trp Trp Gly
 20 25 30

Ile Arg Pro Asn
 35

<210> 8507
 <211> 51
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8507

Arg Leu Lys Leu Trp Thr Arg Tyr Met Arg Ile Ile Lys Thr Leu Tyr
 1 5 10 15

Leu Arg Leu Leu Arg Cys Ala Val Arg Ala Lys Glu Thr Lys Lys Lys
 20 25 30

Lys Lys Tyr Ala Pro Pro Leu Leu Lys Leu Leu Glu Ile Arg Lys Lys
 35 40 45

Phe Thr Ser
 50

<210> 8508
 <211> 31
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8508

Lys Leu Lys Tyr Leu Arg Arg Tyr Ile Lys Arg Leu Lys Lys Pro Leu

1 5 10 15

Ala Arg Pro Lys Ala His Val His His Leu Lys Leu Ala Thr Arg
20 25 30

<210> 8509
<211> 54
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 8509

Arg Leu Lys Trp Trp Lys Arg Leu Phe Lys Leu Ile Cys Lys Lys Ala
1 5 10 15

Glu Ala Gly Asp Leu Leu Leu Leu Trp Pro Pro Lys Trp Pro Ala Arg
20 25 30

Met Asp Ala Lys Gln Gly Ala Lys Ala Asp Gln Cys Arg Arg Ala Arg
35 40 45

Val Met Lys His Arg Tyr
50

<210> 8510
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 8510

Phe Phe Arg Trp Leu Lys Arg Tyr Phe Arg Leu Met Gln Lys Leu Leu
1 5 10 15

Asn Lys Ala Arg Met
20

<210> 8511
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 8511

Lys Leu Arg Leu Met Cys Lys Phe Leu Arg Phe Leu Lys Thr Arg Tyr
 1 5 10 15

Leu Pro Tyr Ala Ala Leu Arg Arg Arg Asn Asp Lys Leu Asn Val Arg
 20 25 30

Ala Met Ala Lys Asp Met Gly
 35

<210> 8512

<211> 58

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8512

Phe Phe Arg Ile Leu Arg Lys Met Ile Lys Lys Met Lys Pro Ala Trp
 1 5 10 15

Lys Asp Lys Lys Leu Gln Tyr Lys Leu Cys His Leu Ile Arg Arg Tyr
 20 25 30

Gln His Leu Ala Arg Arg His Ser Ala Ala Ala Ala Ala Tyr Tyr Ala
 35 40 45

Lys Arg Lys Tyr Ser Trp Ala His Ala Met
 50 55

<210> 8513

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8513

Lys Leu Lys Leu Phe Asn Arg Phe Leu Arg Phe Leu Asn Lys Trp Leu
 1 5 10 15

Arg Lys Leu Arg Asp
 20

<210> 8514
 <211> 68
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8514

Leu Leu Lys Tyr Met Lys Lys Leu Phe Arg Tyr Tyr Thr Pro Leu Ala
 1 5 10 15

Phe Glu Asn Leu Ala Ser Arg Glu Arg Arg Asn Phe Val Leu Ala Leu
 20 25 30

Cys Cys Ser Leu Arg Arg Leu Gln Leu Ala Lys Tyr Met Leu Lys Arg
 35 40 45

Lys Lys Trp Ser Leu Lys Leu Ala Lys Gly Cys Ala Asn Leu Lys Pro
 50 55 60

Val Arg Met Gln
 65

<210> 8515
 <211> 85
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8515

Arg Phe Arg Phe Met Arg Arg Leu Phe Lys Phe Trp Lys Lys His Arg
 1 5 10 15

Lys Asn Val Arg Leu Ala Gln Asn Leu Ser Asp Leu Arg Leu Arg Leu
 20 25 30

Arg Arg Lys Arg Leu Asn Ala Arg Leu Arg Pro Pro Lys Lys Arg Tyr
 35 40 45

Ala His Trp Lys Leu Asn Leu Leu Ala Arg His Pro Lys Trp Ala Tyr
 50 55 60

Gln Arg Thr Met Ser Pro Leu Lys Ser Pro Cys Phe Leu Ala Asp Ser

1 5 10 15

Lys Leu Arg Lys Thr Glu Ala Lys Leu Lys Tyr Arg Leu Arg Ala Asn
 20 25 30

Met Arg Arg Asn Cys Lys Leu Met Lys Leu Tyr Lys Trp Arg Val Asn
35 40 45

Ala Leu Met Leu Leu Thr Pro Arg Asp Ala Gln Ser Ile Gln Ala Lys
50 55 60

<210>	8519
<211>	26
<212>	PRT
<213>	Artificial Sequence
<220>	
<223>	Computer-generated peptide variant
<400>	8519

Arg Met Arg Leu Phe Ser Arg Leu Phe Lys Arg Phe Ser Arg Glu Leu
1 5 10 15

Ala Glu Ala Arg Leu Thr Ala Pro Ala Thr
20 25

<210>	8520
<211>	48
<212>	PRT
<213>	Artificial Sequence
<220>	
<223>	Computer-generated peptide variant
<400>	8520

Leu Ile Arg Met Tyr Lys Arg Leu Phe Lys Lys Phe Thr Pro Lys His
1 5 10 15

Arg Ala Ala Val Met Asp Arg Gln Leu Ala Lys Gln Ala Leu Trp Ala
20 25 30

Lys Arg Leu Lys Lys Tyr Lys Leu Leu Trp Ala Gln Phe Ala Ser Met
35 40 45

<210>	8521
<211>	57
<212>	PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8521

Lys Leu Arg Leu Trp Thr Arg Leu Phe Arg Lys Tyr Arg Lys Ala Gly
1 5 10 15

Leu Lys Lys Asp Arg Asp Cys Lys Leu Trp Ala Cys Ala Arg Ala Cys
20 25 30

Arg Lys Ala Asp Ser Ile Trp Lys Thr Arg Leu Gln Leu Leu Lys Arg
35 40 45

Gly Tyr Ile Leu Val Arg Arg Leu Tyr
50 55

<210> 8522

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8522

Arg Met Lys Phe Leu Thr Arg Ile Ile Lys Leu Leu Gln Lys Lys Gly
1 5 10 15

Asn Ser Gly Lys Lys Leu Ala Arg Tyr Ala Ala Asp Leu Leu Val Asp
20 25 30

Ala Thr Lys Leu Thr Leu Phe Met
35 40

<210> 8523

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8523

Arg Ile Lys Leu Phe Lys Arg Phe Leu Lys Leu Ile Lys Gln Ala Ala
1 5 10 15

Arg Phe Ala Lys Gln Ala Leu Phe Arg Ala
 20 25

<210> 8524
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8524

Trp Leu Lys Trp Leu Asn Arg Tyr Leu Lys Leu Ile Lys Gln Ala Lys
 1 5 10 15

Trp Phe Lys Tyr
 20

<210> 8525
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8525

Lys Ile Lys Trp Ile Cys Arg Leu Ile Lys Arg Leu Gln Lys Ala Leu
 1 5 10 15

Gly Pro Leu Gln
 20

<210> 8526
 <211> 52
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8526

Trp Leu Arg Phe Tyr Arg Lys Leu Leu Lys Leu Ile Gln Lys Arg Ile
 1 5 10 15

Ala Lys Pro Lys Leu Ala Thr Lys Val Ala Arg Arg Cys Leu Leu Pro
 20 25 30

Pro Phe Arg Trp Cys Lys Thr Leu Arg Phe Leu Leu Leu Leu Ala Ala
 35 40 45

Ala Ala His Arg
 50

<210> 8527
 <211> 37
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8527

Lys Phe Arg Leu Tyr Asn Lys Leu Leu Arg Lys Phe Pro Gln Ile Thr
 1 5 10 15

Lys Lys Ile Pro Ala Leu His Leu Ala Arg Leu Glu Arg Arg Lys Val
 20 25 30

Ser Ala Leu Arg Lys
 35

<210> 8528
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8528

Leu Phe Arg Ile Tyr Lys Arg Trp Trp Arg Arg Leu Asn Arg Lys Tyr
 1 5 10 15

Asn Ala Ala Ala Arg Ala
 20

<210> 8529
 <211> 66
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8529

Arg Phe Arg Phe Leu Lys Lys Leu Trp Lys Arg Met Lys Arg Lys Leu
 1 5 10 15

Arg Asn Arg Cys Leu Ala Phe Glu Lys Ser Arg Ala Thr Leu Ala Arg
 20 25 30

Arg Lys Ala Ile Met Arg Arg Glu Lys Arg Ala Ala Asn Leu Trp Ser
 35 40 45

Pro Ala Ala Ala Ile Met Lys Gln Asn Arg Leu Asp Ala Arg Leu Met
 50 55 60

Arg Tyr
 65

<210> 8530
 <211> 63
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8530

Phe Tyr Arg Tyr Trp Lys Arg Leu Phe Lys Lys Tyr Arg Arg Thr Tyr
 1 5 10 15

Arg Ala Ala Glu Phe Pro Ala Ser Arg His Thr Pro His Ser Phe Ile
 20 25 30

Asn Ala Lys Arg Ser Arg Leu Arg Phe Leu Ala Ala Trp Ala Lys Lys
 35 40 45

Gln Leu Lys Lys Lys Asn Arg Leu Ala Leu Ile Ala Leu Leu Arg
 50 55 60

<210> 8531
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8531

Arg Met Lys Ile Leu Lys Arg Met Leu Lys Arg Leu Thr Pro Leu Phe

1 5 10 15

Tyr Lys Asp Lys Leu Leu Leu Lys Tyr
20 25

<210> 8532
<211> 61
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 8532

Lys Phe Lys Leu Phe Gln Arg Leu Leu Lys Arg Met Lys Lys Ala Gln
1 5 10 15

Asn Ala Leu Arg Ala Lys Leu Ala Arg Asp Ala Asn Arg Lys Glu Arg
20 25 30

Glu Ala Lys Leu Ile Leu Lys Lys Ile Tyr Arg Tyr Asp Ser Asp Lys
35 40 45

Arg Lys Leu Arg Arg Asn His Cys Leu Ala Phe Cys Leu
50 55 60

<210> 8533
<211> 65
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 8533

Met Tyr Arg Leu Phe Lys Arg Leu Trp Lys Lys Ile Lys Lys Ser Lys
1 5 10 15

Phe Phe Gln Asn Arg Arg Trp Ala Ala Leu Ala Val Ala Lys His Asn
20 25 30

Arg Asn Arg Leu Arg Tyr Met Lys Leu Val His Ile Met Arg Pro Thr
35 40 45

Ala Asn Arg Ser Leu Ala Gly Leu Leu Arg Lys Leu Phe Trp Ala Pro
50 55 60

Ala
65

<210> 8534
<211> 45
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 8534

Arg Phe Arg Trp Phe Arg Lys Met Leu Arg Lys Tyr Lys Lys Ser Ala
1 5 10 15

His Leu Trp Val Arg Lys Lys Ala His Leu Asp Ala Glu Met Leu Ser
20 25 30

His Ala Ala Gly Ser Ala Ala Tyr Phe Leu Lys His Arg
35 40 45

<210> 8535
<211> 65
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 8535

Tyr Leu Lys Ile Phe Thr Arg Trp Leu Lys Lys Trp Arg Lys Gly Lys
1 5 10 15

Ala Leu Leu Gly Leu Asn Ala Leu Leu Leu Arg Pro Asp Ala Asn
20 25 30

Arg Lys Phe Glu Pro Ser Phe Ile Ala Cys Lys Leu Lys Lys Ala Ala
35 40 45

Thr Lys Cys Lys Trp Lys Pro Leu Leu His Val Lys Ala Lys Arg Lys
50 55 60

Asn
65

<210> 8536

<211> 51
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8536

Lys Leu Arg Trp Met Pro Lys Leu Leu Lys Ile Leu Arg Lys Leu Ala
 1 5 10 15

His Glu Lys His Ala Ala Lys Phe Arg Asp Leu Ile Gln Lys Pro Arg
 20 25 30

Ala Trp Lys Trp Ala Arg Lys Leu Leu Asn Cys Phe Arg Arg Lys Val
 35 40 45

His Lys Phe
 50

<210> 8537
 <211> 55
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8537

Arg Leu Lys Phe Tyr Cys Arg Ile Leu Lys Leu Phe Arg Pro Ser Arg
 1 5 10 15

Gln Thr Ala Gly Leu Arg Lys Gly Arg Lys Asn His Gln Phe Phe Leu
 20 25 30

Ser Lys Lys Arg Leu Leu Thr Arg Asn Leu Arg Lys Arg Pro Val Gln
 35 40 45

Leu Arg Leu Pro Gly Leu Leu
 50 55

<210> 8538
 <211> 38
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8538

Arg Leu Arg Leu Leu Thr Arg Leu Ile Arg Lys Ile Arg Lys Lys Asp
 1 5 10 15

Ala Leu Cys Arg Asp Ala Lys Arg Arg Ala Met Lys Thr Cys Ala Val
 20 25 30

Leu Leu Ala Lys Ile Lys
 35

<210> 8539

<211> 51

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8539

Ile Phe Lys Leu Phe Lys Lys Trp Leu Arg Arg Leu Arg His Lys Gln
 1 5 10 15

Arg Ser Leu Ala Arg Leu Lys Gln Leu Asp Val Lys Arg Ser His Asp
 20 25 30

Arg Lys Ala Arg His Met Leu Asn Leu Leu Gln Arg Met Arg Phe Leu
 35 40 45

Asp Ile Asp
 50

<210> 8540

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8540

Leu Trp Lys Leu Leu Arg Arg Ile Leu Lys Ile Leu Lys Arg Leu Thr
 1 5 10 15

Lys Trp Thr Lys Phe Thr Pro His
 20

<210> 8541
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8541

Leu Ile Lys Met Ile Asn Lys Leu Leu Lys Lys Phe Cys Arg Trp Ala
 1 5 10 15

Tyr Arg Arg Ala Leu
 20

<210> 8542
 <211> 44
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8542

Lys Leu Lys Met Leu Arg Arg Phe Leu Lys Arg Leu Asn Cys Leu Ala
 1 5 10 15

Lys Tyr Lys Leu Ile Gln Ala Asn Gly Cys Arg Arg Glu Gln Ile Ala
 20 25 30

Cys Trp Ala Gln Lys Lys Pro Gly Ala Lys Ala Leu
 35 40

<210> 8543
 <211> 60
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8543

Phe Tyr Arg Phe Leu Pro Lys Ile Leu Lys Lys Met Pro Lys Leu His
 1 5 10 15

Lys Trp His Met Asp Ile Arg Glu Ala Ala Lys Val Leu Ile Thr Arg
 20 25 30

Lys Leu Ser Met Arg Val His Arg Leu Ala Leu Leu Trp Ala Lys His
 35 40 45

Ala Ala Ala Lys Pro Asp Leu Lys Lys Asn Ala Val
 50 55 60

<210> 8544
 <211> 47
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8544

Leu Tyr Arg Tyr Phe Arg Lys Tyr Ile Arg Trp Phe Asn Gln Trp Asp
 1 5 10 15

Tyr Lys Lys Ala Lys Lys Cys Gly Arg Lys Ser Lys Cys Leu Phe Lys
 20 25 30

Ala Thr Pro Ile Arg Leu Leu Arg Ala Leu Ala Arg Val Ala Leu
 35 40 45

<210> 8545
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8545

Arg Trp Arg Leu Leu Lys Lys Leu Tyr Arg Lys Tyr Lys Asn Ile Pro
 1 5 10 15

Gly Asp Ala Ala Glu Ala Ala Cys Gly Met Val Arg Arg Leu Ala Leu
 20 25 30

Pro Leu Ala Leu Leu Arg Asn Lys
 35 40

<210> 8546
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8546

Phe	Tyr	Arg	Ile	Phe	Gln	Lys	Leu	Leu	Lys	Leu	Leu	Lys	Lys	Met	Lys
1				5					10					15	

Tyr	Asp	Ala	Trp	Lys
				20

<210> 8547

<211> 80

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8547

Phe	Trp	Lys	Leu	Phe	Asn	Lys	Phe	Phe	Arg	Leu	Phe	Arg	Arg	Leu	Ala
1				5					10					15	

Leu	Trp	Met	Arg	Leu	Ala	Arg	Trp	Leu	Ala	Arg	Val	Pro	Ala	Arg	Lys
			20					25					30		

Lys	Arg	Leu	Lys	Pro	Ile	Asp	Arg	Cys	Lys	Glu	Pro	Pro	Leu	Pro	Pro
		35					40					45			

Ala	Pro	Leu	Phe	Tyr	Glu	Ala	Tyr	Arg	Leu	Ala	Leu	Leu	Leu	Lys	Lys
	50					55					60				

Leu	Leu	Lys	Ser	Asp	Val	Thr	Leu	Arg	Leu	Gln	Met	Leu	Phe	Lys	Pro
65					70					75					80

<210> 8548

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8548

Leu	Phe	Arg	Leu	Leu	Lys	Lys	Tyr	Leu	Arg	Met	Ile	Gln	Cys	Arg	Leu
1				5					10					15	

Ile	Pro	Arg	Ala	Arg	Ala	Asp	Leu
-----	-----	-----	-----	-----	-----	-----	-----

20

<210> 8549
 <211> 59
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8549

Lys Leu Lys Leu Met Lys Lys Met Phe Arg Met Leu Lys Arg Ala Lys
 1 5 10 15

Ala Leu Arg Glu Thr Leu Tyr Gln Asn Arg Leu Val Leu Ala Arg Ala
 20 25 30

Arg Ala Glu Arg Pro Leu Leu Asp Ala Gln Leu Arg His Arg Leu Ala
 35 40 45

Tyr Ile Thr Gly Tyr Trp Met Pro His Val Arg
 50 55

<210> 8550
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8550

Arg Phe Arg Phe Tyr Gln Lys Leu Leu Arg Arg Tyr His Lys Asp Leu
 1 5 10 15

Arg Ala Arg Leu Ala His Gln
 20

<210> 8551
 <211> 82
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8551

Leu Ile Arg Tyr Met Lys Arg Leu Leu Lys Leu Leu Arg Arg Gln Glu

<210>	8552
<211>	51
<212>	PRT
<213>	Artificial Sequence
<220>	
<223>	Computer-generated peptide variant
<400>	8552

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Leu Phe Arg Ile Phe Arg Lys Phe Phe Lys Phe Tyr Arg Arg Leu Leu
1      5      10      15

Arg His Ser Leu Lys Tyr Leu Asp Cys Arg Asp Ala Ala Lys Ala Leu
      20      25      30

Leu Ala Gly Trp Thr Asp Asp Arg Lys Met Ala Leu Ala Arg Ala Ser
      35      40      45

Leu Ala Asn
      50

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<210> 8553
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 8553
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Lys Phe Arg Phe Leu Lys Lys Leu Leu Lys Arg Leu Arg Lys Met Pro
 1 5 10 15

Phe Ile Gln Thr Ala Gly Thr Ala Leu Ile Gly
 20 25

<210> 8554
 <211> 59
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8554

Arg Met Arg Met Phe Lys Arg Ile Met Lys Arg Phe Asn Arg Arg Ala
 1 5 10 15

Ala Trp Leu Gly Lys Leu Asp Lys Lys Met Arg Pro Ala Gln Leu Pro
 20 25 30

Arg Leu Val Arg Lys Ala Ala Leu Leu Asn Trp Ala Thr Lys Lys Lys
 35 40 45

Leu Ile Ala Trp Ala Pro Arg Gly Thr Phe Val
 50 55

<210> 8555
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8555

Arg Met Lys Leu Trp Gln Arg Ile Leu Arg Tyr Tyr Ser Arg Trp Leu
 1 5 10 15

Ile Leu Ala Lys Leu Ala
 20

<210> 8556
 <211> 26
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8556

Arg	Phe	Arg	Leu	Leu	Lys	Lys	Leu	Leu	Lys	Met	Leu	His	Lys	Tyr	Ala
1				5					10					15	

Ala	His	Phe	Ala	Leu	Lys	Asp	Lys	Lys	Glu
			20					25	

<210> 8557

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8557

Arg	Leu	Lys	Leu	Met	Gln	Lys	Leu	Leu	Arg	Phe	Phe	His	Lys	Gln	Ala
1				5					10					15	

Ala	Arg	Tyr	His	Ala	Cys
			20		

<210> 8558

<211> 47

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8558

Leu	Leu	Lys	Leu	Leu	Gln	Lys	Phe	Leu	Arg	Arg	Leu	Arg	Lys	Arg	Tyr
1				5					10					15	

Ala	Arg	Gln	Arg	Met	Ser	Ala	His	Trp	Leu	Asp	Lys	Tyr	Lys	Trp	Ser
			20					25					30		

Lys	Ala	His	Leu	Thr	Asp	Thr	Glu	Lys	Ile	Thr	Leu	Ala	Leu	Phe
		35					40					45		

<210> 8559

<211> 54

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8559

Arg	Phe	Lys	Phe	Leu	Asn	Arg	Phe	Leu	Lys	Ile	Phe	Lys	Arg	Gly	Pro
1				5					10					15	

Pro	Ala	Asn	Lys	Lys	Pro	Lys	Lys	Arg	Arg	Ala	Gln	Cys	Glu	Ser	Ser
			20					25					30		

Lys	Lys	Gln	Leu	Ala	Trp	Arg	Leu	Leu	Gln	Arg	Gln	Pro	Leu	Ala	Lys
		35					40					45			

Lys	Leu	Gln	Leu	Gly	Ala
					50

<210> 8560

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8560

Leu	Trp	Lys	Met	Tyr	His	Arg	Ile	Ile	Arg	Arg	Tyr	Lys	Arg	Lys	Leu
1				5					10					15	

Ala	Ala	Arg	Phe	Lys	Arg	Asp	Ala	Leu	Phe	Pro	Ala	Arg	Leu
			20				25						30

<210> 8561

<211> 41

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8561

Phe	Ile	Lys	Phe	Phe	Arg	Arg	Tyr	Leu	Arg	Tyr	Tyr	Lys	Arg	Lys	Leu
1				5					10					15	

Arg	Lys	Leu	Asp	Phe	Ala	Ala	Ala	Ala	Phe	Ala	Leu	Ala	Arg	Cys	His
			20					25					30		

Lys	Lys	Ala	Gln	Leu	Pro	Ser	Lys	Arg
-----	-----	-----	-----	-----	-----	-----	-----	-----

35

40

<210> 8562

<211> 86

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8562

Lys Met Arg Phe Tyr Asn Arg Met Leu Arg Lys Leu Thr Ser Lys Thr
 1 5 10 15

Val Met Met Leu Arg Leu Lys Arg His Arg Ala Met Phe Leu Val Asn
 20 25 30

Arg Leu Met Lys Thr Glu Lys Phe Met Ala Trp Met Ala Ala Lys Arg
 35 40 45

Leu Arg Leu Leu Asp Leu Glu Arg Ala Gln Arg Lys Lys Leu Met Glu
 50 55 60

Ala Leu His Gln Leu Lys Glu Arg Lys His Ile Lys Leu Gly Leu Glu
 65 70 75 80

Leu Ala Thr Thr Ala Trp
 85

<210> 8563

<211> 71

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8563

Leu Tyr Lys Leu Trp Arg Lys Phe Leu Arg Leu Ile Arg Arg Gln Lys
 1 5 10 15

Phe Ala Trp Tyr Leu Lys Leu Asp Tyr Leu Phe Cys Ala Gly Ala Ala
 20 25 30

Lys Lys Lys Arg Arg Leu Met Leu Trp Lys Tyr Lys Asp Glu Ala Ser
 35 40 45

Phe Ala Phe Met Leu Leu Arg Val Val Lys Ile Ala Leu Ile His Tyr
 50 55 60

Leu Trp Arg Ile Arg Val Arg
 65 70

<210> 8564
 <211> 44
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8564

Met Leu Arg Leu Leu His Arg Leu Phe Lys Lys Trp Arg Thr Lys Leu
 1 5 10 15

Leu Gly Tyr Lys Pro Pro Lys Asn Gly Leu Ala Thr Met Asn Ala Leu
 20 25 30

Lys Ala His Lys Ala Tyr Ser Thr Arg Ala Lys Glu
 35 40

<210> 8565
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8565

Arg Tyr Lys Leu Leu Pro Lys Leu Leu Arg Phe Leu Asn Lys Lys Arg
 1 5 10 15

Met Lys Val Trp Cys Ala Gln Leu Val
 20 25

<210> 8566
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8566

Trp Leu Arg Tyr Trp Arg Lys Met Leu Arg Leu Leu Lys Arg Gln Met
 1 5 10 15

Leu Gln Trp Lys Ala
 20

<210> 8567

<211> 72

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8567

Phe Met Arg Leu Leu Pro Arg Leu Leu Lys Arg Phe Gln Arg Lys Pro
 1 5 10 15

Thr Ala Leu Leu Asp Gln Asp Arg Glu Ala Ala Phe Ser Ala Glu Lys
 20 25 30

Leu Lys Ile Lys Met Lys Ala Leu Glu Met Arg Leu Leu Lys Ala Phe
 35 40 45

Leu Pro Lys Lys Leu Arg Leu Ala Gln Arg Thr Tyr Pro Lys Cys Lys
 50 55 60

Met Lys Lys Tyr Val Phe Trp Tyr
 65 70

<210> 8568

<211> 60

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8568

Leu Phe Arg Leu Phe Gln Lys Leu Phe Arg Leu Phe Lys Ser Val Asp
 1 5 10 15

Arg Leu Trp Ile Ile Lys Lys Lys Phe Met Ala Lys Phe Arg Tyr Tyr
 20 25 30

Ala Arg Ala Ala Leu Gly Val Gly Arg Val Ala Arg Cys Leu Met Arg

35

40

45

Ala Ala Val Lys Asn Arg Ala Arg Met Leu Cys Leu
 50 55 60

<210> 8569
 <211> 63
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8569

Leu Leu Lys Ile Ile Lys Lys Leu Leu Arg Leu Leu Lys Lys Lys Arg
 1 5 10 15

Pro Leu Tyr Gln Arg Phe Pro Gly Thr Arg Asn Phe Asp Arg Leu Arg
 20 25 30

Glu Ala Met Asn Leu Thr Leu Ile Lys Leu Glu Arg Ser Val Pro Asn
 35 40 45

Cys Leu Thr Trp Arg Trp Leu Lys Ala Leu Leu Asn Ala Ala Thr
 50 55 60

<210> 8570
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8570

Lys Leu Arg Tyr Ile Arg Lys Leu Tyr Arg Met Phe Arg His Leu Lys
 1 5 10 15

Asn Ser Glu Glu Ala Arg Leu Pro Arg Leu Thr Leu Leu Lys Trp Lys
 20 25 30

Cys

<210> 8571
 <211> 35
 <212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8571

Leu	Met	Lys	Met	Leu	Lys	Lys	Leu	Leu	Lys	Arg	Leu	Arg	Arg	Gln	Cys
1				5					10					15	

Ile	Val	Arg	Gln	Leu	Arg	Arg	Trp	Phe	Thr	Cys	Phe	Cys	Leu	Leu	Arg
			20					25					30		

Val	Leu	Gly
		35

<210> 8572

<211> 59

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8572

Trp	Leu	Arg	Trp	Trp	Gln	Arg	Met	Leu	Lys	Arg	Ile	Arg	Lys	Leu	Ala
1				5					10					15	

His	Leu	Trp	Thr	Lys	Arg	Lys	Val	Thr	Lys	Arg	Gln	Leu	Gln	Ala	Ala
			20					25					30		

His	Gln	Arg	Thr	Arg	Ser	Lys	Arg	Ser	Ala	Phe	Ala	Arg	Thr	Leu	Gln
		35					40					45			

Asp	Leu	Pro	Ala	Lys	Arg	Ala	Trp	Ala	Tyr	Leu
	50					55				

<210> 8573

<211> 54

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8573

Leu	Phe	Lys	Ile	Leu	Arg	Lys	Leu	Phe	Lys	Lys	Leu	Arg	Lys	Gln	Leu
1				5					10					15	

His Met Trp Phe Ile Phe Ala Lys Arg Ala Val Leu Arg Arg Tyr Glu
 20 25 30

Ser Leu Thr Asn Ala Gln Trp Lys Lys Thr Val Arg Leu Arg Leu Asn
 35 40 45

Ala Arg Lys Arg Glu Gln
 50

<210> 8574
 <211> 45
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8574

Lys Phe Arg Leu Phe His Arg Leu Met Arg Arg Phe Ser Asn Ala Gly
 1 5 10 15

Arg Val Ala Arg Leu His Arg Ala Arg Ala Pro Lys Ala Cys Asp Lys
 20 25 30

Arg Leu Val Arg Tyr Phe Ala Lys Pro Asp Arg Asn Leu
 35 40 45

<210> 8575
 <211> 57
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8575

Leu Ile Arg Phe Leu Lys Lys Phe Leu Arg Phe Phe Pro Lys His Leu
 1 5 10 15

Ala Leu Arg Ile Lys Ile Lys Thr Ala Pro Lys Arg Leu Thr Lys Thr
 20 25 30

Ala Leu Asp Tyr Ile Met Leu Thr Arg Pro Arg Lys Leu Asn Asp Ile
 35 40 45

Gln Ala Thr Arg Lys Ala Asp Arg Arg

50

55

<210> 8576
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8576

Tyr Met Lys Trp Phe Pro Lys Phe Leu Lys Arg Leu Arg Pro Val Arg
 1 5 10 15

Leu Cys Leu Thr Phe Cys Leu Arg Ala Ile Asp Lys Val Met Glu Trp
 20 25 30

Ala Ala Lys Arg Lys Lys Ala Arg
 35 40

<210> 8577
 <211> 47
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8577

Lys Leu Lys Trp Trp Lys Arg Ile Phe Lys Arg Tyr Lys Arg Arg Ala
 1 5 10 15

Ser Lys Trp Ala Ser Leu Cys Ala Ala Ala Lys Ala Ile Ala Arg Lys
 20 25 30

Leu Lys Asp Leu Ser Ile Ile Ser Asn Tyr Leu Cys Cys Ala Ala
 35 40 45

<210> 8578
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8578

Phe Met Arg Leu Leu Lys Lys Phe Tyr Lys Leu Trp Asn Thr Pro Arg

1 5 10 15

Leu Leu Ala Ala Trp Leu Gln Arg
20

<210> 8579
<211> 71
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 8579

Leu Leu Lys Tyr Leu Arg Arg Tyr Trp Lys Leu Phe Arg Lys Arg Ala
1 5 10 15

Tyr Lys Cys Ala Leu Met Tyr Lys Arg His His Lys Ala Ala Ala Asn
20 25 30

Thr Arg Lys Gln Leu Trp Leu Gly Arg His Ile Leu Glu Thr Leu Arg
35 40 45

His Gln Lys Ala Asp Pro Lys Met Lys Pro Leu Ser Gln Cys Leu Arg
50 55 60

Ala Gln Leu Pro Arg Ala Leu
65 70

<210> 8580
<211> 34
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 8580

Lys Tyr Lys Leu Leu Arg Arg Met Leu Lys Arg Phe Lys Asn Ala Asp
1 5 10 15

Thr Pro Arg Arg Arg Ile Ala Glu Pro Asp Lys Ala Met His Leu Ala
20 25 30

Leu Met

<210> 8581
 <211> 45
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8581

Lys Ile Arg Leu Leu Lys Arg Leu Leu Arg Lys Ile Pro Cys His Leu
 1 5 10 15

Phe Met Lys Leu Arg Gly Lys Thr Arg Lys His Glu Ala Trp Asn Arg
 20 25 30

Arg Asn Ala His Ala Lys Trp Leu Tyr Gly Ala Lys Ile
 35 40 45

<210> 8582
 <211> 27
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8582

Tyr Leu Arg Trp Leu Arg Arg Leu Tyr Lys Leu Met His Thr Leu Ser
 1 5 10 15

Arg Ala Leu Arg Tyr Asn Lys Trp Leu Arg Lys
 20 25

<210> 8583
 <211> 63
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8583

Arg Leu Lys Tyr Phe Arg Lys Leu Leu Arg Phe Ile Lys Arg Lys Gln
 1 5 10 15

Ala Pro Lys Gln Leu Ala Pro Gly Ile Gln Leu Arg Phe Asn Arg Tyr
 20 25 30

Tyr Leu Arg Ala His Phe Met Lys Lys Asp Ala Leu Ala Lys Ala Thr
 35 40 45

Leu Arg Gln Asp Ala Pro Glu Arg Glu Leu Cys Leu Asn Cys Leu
 50 55 60

<210> 8584

<211> 47

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8584

Leu Leu Arg Trp Leu Pro Arg Leu Tyr Arg Arg Trp Lys His Arg Arg
 1 5 10 15

Glu Gly Lys His Leu Leu Leu Ile Val Val Thr Gln Leu Ala Asp Met
 20 25 30

Ser Lys Lys Gly Lys Glu Ala Val Ala Met Ala Lys Ala Ala Arg
 35 40 45

<210> 8585

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8585

Leu Ile Arg Leu Met Lys Lys Trp Ile Arg Lys Phe Arg Lys Arg Lys
 1 5 10 15

Arg Arg Val Ala Lys Leu Ala Leu Leu Val Ile Ala Leu Leu Trp Val
 20 25 30

Pro Cys Thr Asp Tyr Val Leu Lys
 35 40

<210> 8586

<211> 54

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8586

Lys Leu Arg Phe Tyr Arg Arg Leu Phe Lys Phe Leu Gln His Arg Thr
 1 5 10 15

Lys Ala Arg Asn Ser Ala Trp Cys Val Phe Met Leu Lys Arg Asn Arg
 20 25 30

Arg Arg Arg Asn Val Arg Ile Ala Arg Cys Ile Ala Leu Leu Leu Leu
 35 40 45

Trp Arg Leu Ala Gln Leu
 50

<210> 8587

<211> 31

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8587

Lys Trp Lys Phe Leu Asn Lys Leu Phe Lys Phe Leu Lys Lys Ala Cys
 1 5 10 15

Arg Cys Leu Ala Arg Phe Tyr Thr Arg Leu Ala Arg Leu Ala His
 20 25 30

<210> 8588

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8588

Arg Met Arg Ile Phe Gln Lys Trp Leu Lys Tyr Leu Arg Arg Arg Met
 1 5 10 15

Trp Asn Gly Lys Ala Lys Leu Ala Glu Lys Ser Leu Leu Leu Ala Ala
 20 25 30

Cys

<210> 8589
 <211> 76
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8589

Ile Leu Arg Tyr Leu Arg Arg Leu Tyr Arg Leu Ile Arg Pro Leu Cys
 1 5 10 15

Tyr Ala Thr Leu Lys Pro Ala Arg Lys Leu Arg Lys His Lys Gln Leu
 20 25 30

Val Asp Asp Ser Lys Asp Leu Pro Ser Ile Cys Leu Tyr Arg Gln Leu
 35 40 45

Phe Thr Leu Arg Ala Pro Ala Arg Leu Pro Met Arg Lys Glu Ala Leu
 50 55 60

Arg Pro Arg Lys Thr Glu Leu Ala Leu Arg Asp Lys
 65 70 75

<210> 8590
 <211> 48
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8590

Trp Leu Lys Ile Phe Lys Arg Met Leu Arg Ile Trp Ser Lys Leu Arg
 1 5 10 15

Gln Arg Gln Lys Arg Ala Lys Tyr Leu Ala Gln Ala Glu Lys Ala Ala
 20 25 30

Arg Arg Arg Trp Gln Glu Ile Met Arg Ala Leu Asn Leu Pro Arg Leu
 35 40 45

<210> 8591
 <211> 83
 <212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8591

Phe Leu Lys Trp Leu Gln Arg Tyr Phe Lys Lys Phe Arg Lys Leu Leu
1 5 10 15

Tyr Lys Glu Leu Ala Ala Phe Leu Ala Lys Lys Leu Leu Trp Gln Pro
20 25 30

Asp Arg Lys Arg Tyr Ala Leu Arg Glu Glu Leu Lys Lys Ala Ser Gln
35 40 45

Ala Phe Ile Arg His Lys Cys Phe Ser Arg Leu Pro Lys Asp Phe Val
50 55 60

Leu Lys Tyr Glu Gly Lys Lys Val Ala Met Tyr Ala Arg Lys Val Lys
65 70 75 80

Lys Gly Phe

<210> 8592

<211> 44

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8592

Phe Ile Arg Leu Trp Arg Lys Leu Leu Arg Arg Tyr Pro Thr Arg Gly
1 5 10 15

Ala Ser Phe His Arg Asp Ala Gly Leu Tyr Leu Lys Met Lys Met Lys
20 25 30

Asp Met Arg Ala Leu Pro Leu Lys Arg Ala Phe Ala
35 40

<210> 8593

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8593

Ile	Leu	Arg	Phe	Leu	Lys	Lys	Trp	Met	Arg	Lys	Trp	Asn	Ser	Ala	Leu
1				5				10						15	

Val	Leu	Arg	Ala	Lys	Thr	Leu	Tyr	Lys
			20					25

<210> 8594

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8594

Leu	Tyr	Arg	Leu	Leu	Thr	Arg	Phe	Leu	Lys	Phe	Phe	Arg	Ser	Cys	Ala
1			5					10						15	

Val	Leu	Ala	Leu	Ser	Lys	His	Ala	Gly	Arg	Lys	Arg	Tyr	Phe	Leu	Met
			20					25					30		

Arg

<210> 8595

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8595

Arg	Trp	Arg	Leu	Leu	Arg	Arg	Leu	Leu	Arg	Met	Phe	Lys	Arg	Asn	Gln
1			5					10						15	

Ala	Glu	Arg	Thr	Pro	Leu	Asn	Lys	Pro	Ser	Lys	Leu	Lys	Leu	Lys	Ala
			20					25					30		

Met	Asn	His
		35

<210> 8596

<211> 48
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8596

Arg Phe Lys Met Tyr Arg Arg Ile Leu Lys Leu Leu Arg Arg Ala Leu
 1 5 10 15

Pro Ala Leu Leu Ala Cys Ser Ile Phe Arg Arg Leu Trp Leu Leu Arg
 20 25 30

Lys Ala Arg Pro Met Ile Ile Arg Ile His Ala Asp Leu Gly Gln Lys
 35 40 45

<210> 8597
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8597

Leu Tyr Lys Trp Phe Lys Arg Leu Tyr Arg Arg Met Ser Lys Ala Cys
 1 5 10 15

Cys Ala Ala Asn Leu
 20

<210> 8598
 <211> 38
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8598

Arg Phe Arg Ile Leu Asn Arg Leu Ile Lys Leu Met His Arg Ala Ser
 1 5 10 15

Ser Val Leu Arg His Leu Ala Val Lys Lys Gly Met Ala His Ala Arg
 20 25 30

Ala Lys Met Lys His Trp

35

<210> 8599

<211> 58

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8599

Arg Tyr Arg Leu Ile Cys Lys Trp Phe Arg Phe Tyr Arg Lys Gly Ala
 1 5 10 15

Thr Ala Arg Lys Val Ala Tyr Arg Thr Ala Ala Leu Pro Ala Arg Gly
 20 25 30

Gly Arg Lys Phe Gln Ala Asn Ala Thr Leu Leu Tyr Met Lys Thr Ala
 35 40 45

Val Lys Lys Lys Ser Thr Ala Ile Arg Lys
 50 55

<210> 8600

<211> 61

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8600

Arg Phe Lys Phe Leu Arg Lys Leu Leu Arg Arg Leu His Lys Gln Lys
 1 5 10 15

Ile Leu Met Glu Leu His Val Arg Leu Tyr Ala Leu Leu Gly His Arg
 20 25 30

Met Lys Ala His Val Leu Val Leu Tyr Leu Arg Val Pro Lys Phe His
 35 40 45

Gln Arg Ala Val Asp Arg Leu Ala Ala Arg Arg Trp Gln
 50 55 60

<210> 8601

<211> 31

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8601

Met Leu Lys Trp Met Lys Arg Leu Trp Arg Leu Leu Pro Arg Ile Ala
1 5 10 15

Leu Phe Thr Ala Arg Trp Ser Arg Met Lys Arg Ala Arg Phe Trp
20 25 30

<210> 8602

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8602

Leu Leu Lys Tyr Phe Lys Arg Ile Phe Arg Leu Phe Lys Lys Leu Ala
1 5 10 15

Glu Ala His Asn Arg Leu Arg Phe Thr Val Ala Ala Val Arg Leu Arg
20 25 30

Gln Pro

<210> 8603

<211> 65

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8603

Met Trp Arg Ile Leu Arg Lys Leu Leu Lys Arg Ile Lys Arg Lys Leu
1 5 10 15

Leu Ala Ser Glu Lys Asp Leu Leu Lys Glu Asp Val Ile Thr Cys Val
20 25 30

Ala Pro Met Leu Lys Ala Arg His Leu Ser Cys Arg Ala Lys Ala Met
35 40 45

His Arg Met Phe Ala Leu Ala Lys Cys Gly Ala Cys Arg Ile Pro Arg
 50 55 60

Ser
 65

<210> 8604
 <211> 43
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8604

Ile Phe Arg Ile Phe Arg Lys Leu Leu Lys Phe Leu Arg Lys His Tyr
 1 5 10 15

Tyr Gln Ala Tyr Leu Trp Arg Leu Arg Ala Leu Met Glu Gln Thr Leu
 20 25 30

Ala Lys Trp Arg Ala Asp Ala Arg Arg Arg Tyr
 35 40

<210> 8605
 <211> 45
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8605

Arg Leu Arg Met Leu Lys Arg Ile Ile Lys Leu Tyr Lys Ser Tyr Asn
 1 5 10 15

Cys Gln Ala Tyr Ala Lys Tyr Arg Asn Trp Lys Leu Lys Leu Ala Lys
 20 25 30

Ala Lys Leu Gly Leu Val Phe Lys Gly Ala Cys His Arg
 35 40 45

<210> 8606
 <211> 53
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8606

Met Leu Arg Leu Trp Arg Arg Ile Met Arg Arg Leu Lys Lys Glu Ala
 1 5 10 15

Lys Ala Ala Trp Asp Gly Leu Tyr Ala Ala Arg Ala Arg Asp Arg Leu
 20 25 30

Arg Gln Arg Ala Leu Glu Phe Leu Tyr Phe Pro Gln Ser Arg Gly Val
 35 40 45

Phe Pro Phe Arg Lys
 50

<210> 8607

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8607

Lys Phe Arg Leu Tyr Lys Arg Leu Leu Arg Met Trp Arg Pro Arg Leu
 1 5 10 15

Ala Cys Asn Phe
 20

<210> 8608

<211> 47

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8608

Lys Leu Lys Leu Phe Arg Arg Leu Tyr Lys Phe Phe Pro Lys Leu Gly
 1 5 10 15

Lys Asn Ser Asn Val Ser Leu Leu His Cys Pro Ala His Lys Ala Arg
 20 25 30

Gly Phe Ala Glu Arg Ala Ala Arg Lys Lys Leu Leu Gln Leu Ser

35

40

45

<210> 8609

<211> 59

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8609

Ile Ile Lys Met Leu Cys Arg Tyr Leu Arg Arg Tyr His Asn Leu Tyr
 1 5 10 15

His Lys Asp Met Leu Lys Glu Ala Glu Thr Met Leu Lys Arg Arg Ser
 20 25 30

Leu Leu Arg Arg Ala Ala Arg Lys Cys Trp Ala Pro Ala Met Arg Arg
 35 40 45

Gln Cys Leu Leu Arg Ile Tyr Ser Arg Leu Ala
 50 55

<210> 8610

<211> 49

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8610

Leu Leu Arg Ile Leu Arg Arg Phe Tyr Arg Arg Leu Arg Arg His Leu
 1 5 10 15

Lys Val Asn Leu Met His Leu Leu Ala Lys Leu Lys Arg Lys Asn Leu
 20 25 30

Glu Ala Lys Cys Leu Arg Met Asn Trp Pro Phe Leu Asn His Pro Leu
 35 40 45

Ser

<210> 8611

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8611

Arg	Leu	Lys	Leu	Phe	Lys	Lys	Phe	Phe	Lys	Tyr	Leu	His	Arg	Pro	Trp
1				5					10					15	

Leu	Trp	Phe	Leu	Lys	Glu	Ala	Arg	Met	Arg	Lys	Val	Leu	Ser
			20					25					30

<210> 8612

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8612

Lys	Phe	Arg	Ile	Trp	Arg	Arg	Leu	Leu	Lys	Phe	Tyr	Cys	Asn	Arg	Leu
1				5					10					15	

Asp	Ala	Ile	Lys	Leu	Lys	Ala	Lys	Leu	Gln	Leu	Leu	Val
			20					25				

<210> 8613

<211> 38

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8613

Phe	Leu	Arg	Tyr	Ile	Gln	Arg	Leu	Leu	Lys	Arg	Phe	Arg	Gln	Ala	Ser
1				5					10					15	

Asn	Arg	Ala	Cys	Arg	Ser	Ala	Gln	Leu	Ala	Lys	Leu	Lys	Gln	Glu	Arg
			20					25					30		

Gln	Ala	Gly	Arg	Tyr	Ala
					35

<210> 8614

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8614

Tyr Leu Arg Leu Phe Pro Lys Phe Leu Arg Leu Leu Lys His Pro Leu
1 5 10 15

Lys Lys Arg Tyr Arg His Ala Phe Met Arg
20 25

<210> 8615

<211> 68

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8615

Arg Phe Lys Phe Leu Lys Arg Leu Leu Lys Met Leu His Arg Arg Lys
1 5 10 15

Ser His Ala Lys Leu His Ala Arg Glu Thr Lys Asp Leu Pro Glu Met
20 25 30

Arg Leu Cys Arg Leu Gly Lys Ala His Leu Glu Leu Leu Ser Lys Phe
35 40 45

Ala Trp Gly Gly Ala Thr Gly Gln Met Ala Leu Ala Glu Arg Ala Leu
50 55 60

Leu Leu Val Lys
65

<210> 8616

<211> 85

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8616

Arg Met Lys Leu Leu Lys Arg Leu Ile Lys Tyr Phe Arg Lys Gly Met
1 5 10 15

Ala Phe Ala Leu Leu Glu Ala Tyr Ala Phe Ala Lys Ser Lys Lys Ala
 20 25 30

Leu Lys His Ala Gln His Val Arg Pro Thr Lys Lys Tyr Asp Leu Leu
 35 40 45

Ile Leu Trp Glu Ala Lys Phe Asn Lys Val Ala Leu Arg Asn Arg Lys
 50 55 60

Ala Lys Leu Leu Cys Leu Ser Arg Gly Leu Arg Ala Leu Pro Lys Val
 65 70 75 80

Lys His Lys Met Ile
 85

<210> 8617
 <211> 26
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8617

Arg Met Arg Met Phe Cys Arg Leu Leu Arg Arg Ile Lys Asn Leu Thr
 1 5 10 15

Ala Leu Arg Ala Gln Ala Leu Ser His His
 20 25

<210> 8618
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8618

Leu Leu Arg Tyr Leu Pro Arg Leu Leu Arg Lys Leu Thr Asn Arg Leu
 1 5 10 15

Lys Arg Arg Leu Ala Thr Gly Arg Met Tyr Phe Ala Arg Leu Arg Lys
 20 25 30

<210> 8619

<211> 78
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8619

Phe Leu Lys Leu Phe Lys Arg Leu Leu Lys Lys Trp Arg Lys Ala Gly
 1 5 10 15

Arg Leu Lys Leu Gly Leu Arg Gln Gln Lys Ala Leu Phe Phe Tyr Arg
 20 25 30

Met Tyr Val Ala Lys Tyr Lys Leu Arg Arg Lys Ala Leu Ala Phe Glu
 35 40 45

Ala Lys Arg Ser Tyr Ala Gln Asn Ala His Val Gly Lys Trp Arg Gln
 50 55 60

Lys His Arg Asn Thr Lys Arg Ala Met Asp Gly Leu Glu Leu
 65 70 75

<210> 8620
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8620

Lys Leu Arg Trp Trp Pro Arg Met Ile Arg Leu Phe Arg Arg Leu Cys
 1 5 10 15

Leu Ala Thr Met
 20

<210> 8621
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8621

Arg Met Lys Phe Trp Arg Lys Leu Met Arg Met Phe Pro Asn Cys Ala

1 5 10 15

Leu Lys Glu Leu Lys Ala Ala Lys Lys Tyr Lys Leu Ile His Ala Arg
20 25 30

Leu His Ala Ser Ile Ala Arg Arg
35 40

<210> 8622

<211> 41

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8622

Lys Tyr Lys Leu Leu Cys Arg Leu Phe Arg Leu Phe Arg Arg Trp Arg
1 5 10 15

Ala Arg Arg Gly Pro Ala Leu Asp Ala Ala Asn Gln Val Glu Arg Ser
20 25 30

Ser Ala Asn Lys Leu Val Asn Val Leu
35 40

<210> 8623

<211> 78

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8623

Lys Trp Lys Leu Ile Arg Lys Phe Met Arg Lys Met Arg Arg Gly Leu
1 5 10 15

Ile Ala Leu Pro Gly Leu Lys Phe Tyr Lys Ala Pro Lys Ser Val Arg
20 25 30

Ala Pro Leu Lys Asn Ser Ala Ala Pro Lys Arg Lys Asn Lys Gly Lys
35 40 45

Ala Lys Thr Phe Lys Asn Leu Asp Ala Ala Tyr Leu Trp Tyr Leu Glu
50 55 60

Leu Gln Lys His Ser Asn Gln Ala Lys Leu Lys Cys Arg Phe
 65 70 75

<210> 8624
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8624

Arg Ile Arg Phe Met Asn Lys Trp Trp Lys Arg Leu Arg Pro Ala Asn
 1 5 10 15

Ala Ser Ala Phe Lys Arg Arg Trp Leu Ala Asn Ala Thr
 20 25

<210> 8625
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8625

Arg Tyr Lys Leu Phe Asn Lys Tyr Leu Lys Lys Ile Lys Lys Ala Leu
 1 5 10 15

Ala Ala Leu Met Glu Lys Glu Trp Gln Ala Pro Gly
 20 25

<210> 8626
 <211> 27
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8626

Lys Leu Arg Met Tyr Gln Arg Phe Trp Lys Met Leu Arg Arg Leu Asp
 1 5 10 15

Leu Asp Met Thr Arg Ile Ala Ala Ser Leu Lys
 20 25

<210> 8627
 <211> 26
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8627

Arg Leu Arg Ile Leu Arg Lys Leu Leu Arg Trp Leu Arg Arg Ala Trp
 1 5 10 15

Leu Gln Tyr Val Glu Ala Cys Pro Asp Ile
 20 25

<210> 8628
 <211> 58
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8628

Phe Leu Arg Phe Trp Lys Lys Tyr Leu Arg Lys Tyr Thr Lys Leu Ala
 1 5 10 15

Ser Arg Val Arg Lys Gly Arg Val Ala Glu Leu Ala Asn Leu Ile Leu
 20 25 30

Val Gln Ser His Ala Gly Leu Lys Gly Leu Leu Gln Lys Arg Arg Ile
 35 40 45

Lys Leu Arg Ala Cys Ala Gln Thr Lys Arg
 50 55

<210> 8629
 <211> 50
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8629

Met Phe Lys Leu Met Ser Lys Trp Leu Lys Leu Leu Arg Cys Ala Glu
 1 5 10 15

Arg Leu Arg Lys Lys Ala Leu His Leu Ala Lys Ala Met Phe Leu Lys
 20 25 30

Asp Asp Glu Arg Leu Ser Arg Met Cys Asp Gln Arg Gly Trp Arg Phe
 35 40 45

Thr Leu
 50

<210> 8630
 <211> 81
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8630

Lys Phe Arg Tyr Met Lys Arg Leu Tyr Lys Phe Leu Thr Asn Arg Leu
 1 5 10 15

Glu Arg Leu Gly Leu Ala Pro Arg Trp Leu Cys Met Gly Leu Lys Gly
 20 25 30

Lys Gln Gln Arg Ala Arg Lys Gly Lys Gly Lys Leu Ala Glu Ile Pro
 35 40 45

Leu Lys Ala Arg Ile Phe Lys Ala Pro Arg Lys Asp Arg Arg Arg Leu
 50 55 60

Leu Glu Val Pro Leu His Thr Tyr Lys Lys Tyr Leu Leu Arg Trp Ala
 65 70 75 80

Ile

<210> 8631
 <211> 44
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8631

Lys Phe Lys Leu Phe Asn Arg Ile Tyr Arg Phe Leu Lys Ser Gly Gln

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<210> 8632
<211> 60
<212> PRT
<213> Artificial Sequence
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Arg Trp Arg Met Leu Asn Arg Met Phe Lys Phe Leu Arg Pro Ile Lys
1 5 10 15

Lys Asp Glu Leu Gln Leu Trp Lys Val Leu Ser Ala Arg Met Val Ala
35 40 45

<210>	8633
<211>	58
<212>	PRT
<213>	Artificial Sequence

Lys Leu Lys Ile Phe His Arg Phe Phe Lys Phe Phe Lys Lys Gln Leu
1 5 10 15

Thr Ala Phe Ala Ala Ala Ala Arg Ala Arg Leu Ser Lys Tyr Lys Leu
35 40 45

Leu Tyr Arg Ile Gln Arg Phe Gly Ala Ala
 50 55

<210> 8634
 <211> 49
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8634

Lys Leu Arg Leu Leu Thr Lys Leu Met Lys Lys Trp Arg Cys Lys Tyr
 1 5 10 15

Ala Lys Phe Ala Ala Leu Pro Arg Asp Glu Ala Ser Ser Lys Thr Ala
 20 25 30

Arg Phe Lys Phe Cys His Ala His Gly Arg Ala Gly Ala Gly Arg Ala
 35 40 45

Pro

<210> 8635
 <211> 31
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8635

Arg Phe Arg Trp Leu Ser Lys Met Leu Lys Tyr Tyr Arg Lys Val Ala
 1 5 10 15

His Gln Ala Lys Leu Asn His Lys Leu Arg Val Phe Ala Leu Arg
 20 25 30

<210> 8636
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8636

Arg Leu Arg Met Trp Gln Arg Phe Met Arg Arg Phe Ser Lys Met Leu
 1 5 10 15

Leu Cys Leu Lys Lys Arg Leu Ala Leu Ala Ala Lys Leu Leu Asn Pro
 20 25 30

Lys Lys Asp Thr Asn Leu Ser Arg
 35 40

<210> 8637
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8637

Phe Ile Arg Leu Phe Cys Lys Leu Leu Lys Lys Leu Lys Arg Leu Phe
 1 5 10 15

Ala Leu Lys Arg Arg Arg Arg Leu Ala Lys Ala Leu Cys
 20 25

<210> 8638
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8638

Phe Leu Arg Phe Leu Lys Lys Leu Phe Lys Met Ile His Lys Lys Leu
 1 5 10 15

Asp Ala Gly His Lys Glu Lys Leu Ala Leu Ala Met
 20 25

<210> 8639
 <211> 50
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8639

Arg Leu Lys Trp Ile Arg Lys Leu Leu Arg Tyr Met Gln Lys Arg Thr
 1 5 10 15

Ser Arg Arg Ala Ala Thr Arg Leu Ala Ala Leu Gly Ala Lys Met Asp
 20 25 30

Ile Gln His Ile Phe Thr Lys Arg His Arg Leu Leu Leu Asp Gln Leu
 35 40 45

Pro Trp
 50

<210> 8640
 <211> 47
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8640

Ile Leu Lys Met Trp Lys Lys Tyr Leu Arg Arg Trp Lys Lys Leu Phe
 1 5 10 15

Glu Trp Leu Lys Ala Leu His Cys Ala Arg Gly Arg Pro Cys Gly Lys
 20 25 30

Lys Lys Met Ala Arg Leu Cys Gln Arg Glu Gly Met Ala Ala Met
 35 40 45

<210> 8641
 <211> 41
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8641

Phe Leu Arg Phe Ile Pro Lys Phe Leu Arg Phe Leu Asn Cys Ala Leu
 1 5 10 15

Ala Lys His Lys Met Asn Arg Lys Ala Thr Arg Lys Arg Leu Leu Arg
 20 25 30

Arg Lys Gly Val Gly Ala Lys Arg Ala

35

40

<210> 8642
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8642

Leu Ile Lys Ile Phe Lys Arg Leu Phe Arg Tyr Leu Lys Lys Cys Val
 1 5 10 15

Glu Leu Ile Val Leu Arg Cys His Lys Leu Arg Ala Lys Ala
 20 25 30

<210> 8643
 <211> 68
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8643

Trp Leu Lys Phe Tyr Lys Arg Tyr Ile Arg Arg Leu Lys Arg Ser Ala
 1 5 10 15

Phe Ala Leu Met Trp Lys Val Gln Tyr His Lys Ala Arg Leu Leu Ala
 20 25 30

Ala Ser Ala Leu Ala Cys Asn Glu Leu Asn Arg Ala Gly Lys Ala Ala
 35 40 45

Leu Leu Asn Val Thr Asn Arg Ser Ile Met Glu Ala Arg Ser Tyr Lys
 50 55 60

Thr Lys Leu Leu
 65

<210> 8644
 <211> 43
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8644

Leu Tyr Lys Leu Leu Lys Arg Leu Leu Arg Lys Tyr Lys Arg Arg Trp
 1 5 10 15

Glu Trp Gly Met Gly Ala Ala Leu Gln Lys Met Ser Lys Lys Asn Cys
 20 25 30

Leu Trp Leu Pro Gly Ala Leu Thr His Gly Lys
 35 40

<210> 8645

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8645

Arg Leu Lys Met Phe Arg Lys Leu Leu Lys Arg Ile Asn Lys Leu Ala
 1 5 10 15

Leu Arg Leu Met Lys Gln Lys Thr Leu Lys Asp Ala Gln Pro Thr Ile
 20 25 30

Lys

<210> 8646

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8646

Leu Tyr Lys Leu Leu Asn Arg Phe Leu Arg Arg Phe Lys Arg Ala Leu
 1 5 10 15

Gln Thr Val Lys Cys Cys Trp Arg Tyr
 20 25

<210> 8647

<211> 53

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8647

Arg Leu Lys Tyr Leu Thr Lys Phe Tyr Arg Ile Tyr Asn Arg Leu Arg
1 5 10 15

Ala Pro Pro Trp Leu His Tyr Arg Arg Arg Lys Met Ala Asp Gln Lys
20 25 30

Lys Leu His Arg Arg Leu Lys Lys Ala Cys Asn Ala Met Leu Val Lys
35 40 45

Glu Ala Leu His Leu
50

<210> 8648

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8648

Met Tyr Lys Met Leu Thr Arg Leu Met Lys Lys Tyr Lys Lys Leu Tyr
1 5 10 15

Leu Gly Arg Ala Leu Lys Ala Phe Leu
20 25

<210> 8649

<211> 79

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8649

Lys Trp Lys Tyr Leu Cys Lys Leu Leu Arg Tyr Phe Thr Lys Met Arg
1 5 10 15

Arg Arg Pro Asp Ile Lys Gly Phe Cys Ala Leu Ile Ala Phe Lys His
20 25 30

Lys Arg Lys Trp His Gly Glu Lys Trp Thr Leu Ala Ala Asp Leu Ala
 35 40 45

Leu Ala Arg Arg Leu Val Trp Ser Leu Pro Lys Lys Lys Arg Leu Arg
 50 55 60

Arg Gly Leu His Met Lys Leu Ser Cys Arg Leu Ala Lys Ser Phe
 65 70 75

<210> 8650
 <211> 93
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8650

Lys Leu Arg Tyr Leu Arg Lys Ile Ile Arg Phe Met His Cys Ala Leu
 1 5 10 15

Lys Lys Tyr Lys Tyr Leu Arg Gln Arg Arg Ala Arg Glu His Lys Gly
 20 25 30

Ala Arg Arg Arg Met Lys Leu His Tyr Lys Tyr Lys Arg Glu Leu Arg
 35 40 45

Ala Ala Tyr Met Ala Ala Pro Ile Ala Lys His Tyr Ser Arg Glu Ala
 50 55 60

Lys Gly Pro Gly Leu Met Thr Lys Leu Glu Arg Ala Leu Pro Ala Gly
 65 70 75 80

Arg Leu Cys Arg Thr Leu Ala Trp Arg Gln His Val Glu
 85 90

<210> 8651
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8651

Lys Leu Arg Phe Ile Arg Lys Phe Trp Lys Ile Tyr Ser Lys Ala Met

1 5 10 15

Leu Lys Ala Lys His Ala Ala Glu Leu Asp Gly Asp Leu Leu
20 25 30

<210> 8652
<211> 43
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 8652

Lys Tyr Lys Leu Met Lys Lys Trp Leu Lys Met Tyr Lys Lys Leu Ala
1 5 10 15

Gln Glu Lys Val Pro Pro His Arg Met Ala Met His Arg Lys Thr Gln
20 25 30

Gln Leu Arg Leu Leu Arg Ala Ile Ala Ala Asn
35 40

<210> 8653
<211> 38
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 8653

Arg Leu Arg Tyr Leu Cys Arg Leu Leu Arg Lys Leu Arg His Glu Lys
1 5 10 15

Met Leu Arg Leu Glu Arg Trp Leu Leu Asn Asp Arg Thr Thr Phe Lys
20 25 30

His His Lys Ala Lys Leu
35

<210> 8654
<211> 83
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 8654

Lys Tyr Lys Met Phe Pro Arg Phe Tyr Arg Lys Tyr Lys Lys Gly Ser
 1 5 10 15

Phe Ala Ala Trp Ile Phe Asn Leu Gln Lys Arg Arg Arg Arg Val Arg
 20 25 30

Ile Leu Arg Lys Ala Lys Cys Phe His Val Ala Ala Lys Leu Thr Lys
 35 40 45

Arg Tyr Leu Leu Ser Ala Asp Met Ala Leu Ile Ala Ala Thr His Lys
 50 55 60

Met Leu Leu Lys Arg Thr Asn Leu Met Val Arg Ile Leu Leu Arg Leu
 65 70 75 80

Arg Met Leu

<210> 8655

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8655

Leu Tyr Lys Trp Met Gln Arg Leu Leu Arg Ile Tyr Pro Arg Lys Ala
 1 5 10 15

Arg Ala Leu Leu Thr Ala Lys Gln Ala
 20 25

<210> 8656

<211> 64

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8656

Leu Tyr Arg Tyr Trp Arg Lys Phe Phe Arg Lys Leu Arg Arg Ala Arg
 1 5 10 15

Leu Leu Ala Ser Ala Asn Gln Trp Ile Leu Leu Cys Met Thr Arg Pro
 20 25 30

Leu Leu Ala Leu Arg Phe Lys Ala Gln Lys Trp Ala Lys Ser Ala Lys
 35 40 45

Arg Asp Lys Tyr Val Ala Ala Leu Ala His Ile Ala Arg Ala Met Met
 50 55 60

<210> 8657
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8657

Met Leu Arg Phe Leu Thr Arg Leu Trp Arg Lys Met Asn Lys Arg Ala
 1 5 10 15

Lys Ala Leu Lys Val Asp Ala Tyr Gln Ala Gln Tyr Arg Thr Thr Leu
 20 25 30

Arg Ala Lys
 35

<210> 8658
 <211> 31
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8658

Lys Tyr Arg Leu Phe Lys Lys Leu Leu Arg Lys Tyr Pro Arg Ala Gln
 1 5 10 15

Ala Gln Pro Leu Glu Cys Ala Gln Arg Ser Ala Lys Thr Ala Leu
 20 25 30

<210> 8659
 <211> 45
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8659

Lys Trp Arg Leu Met Lys Lys Phe Tyr Arg Phe Ile Gln Lys Leu Arg
 1 5 10 15

Glu Leu Ala Thr Glu Ala Leu Trp Arg Ser Glu Arg Arg Leu Leu Ser
 20 25 30

Leu Ala Ala Asn Thr Phe Leu His Gly Arg Asp Arg Leu
 35 40 45

<210> 8660

<211> 58

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8660

Tyr Tyr Lys Leu Phe Arg Arg Phe Leu Arg Arg Leu His Cys Ala Leu
 1 5 10 15

Leu Thr Lys Arg Phe Arg Lys Glu Phe Ala Arg Trp His Asp Met Lys
 20 25 30

Leu Leu His Leu Arg Gly Asp Arg Leu Asn Ala Leu Thr Trp Cys Ile
 35 40 45

Arg Leu Arg Leu Arg Leu Ala Val Lys Ala
 50 55

<210> 8661

<211> 47

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8661

Tyr Trp Arg Leu Trp Thr Lys Tyr Leu Lys Arg Met Arg Asn Arg Lys
 1 5 10 15

His Gln Leu Asn Gly Arg Cys Leu Met Ala Lys Tyr Asn Val Arg Val

20

25

30

Lys Ala Ala Lys Leu His Val Ala Leu Arg Arg Met Leu Arg Ala
 35 40 45

<210> 8662

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8662

Phe Ile Lys Leu Leu Lys Arg Leu Tyr Lys Tyr Phe Arg Lys Glu Ala
 1 5 10 15

Gln Trp Leu Ala Gln Gln Asp Arg Ala Ala Ala Leu Pro Lys Ile Met
 20 25 30

Asp Arg Ala Lys Ala Leu Lys Leu
 35 40

<210> 8663

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8663

Tyr Phe Lys Tyr Met Arg Lys Leu Phe Lys Leu Met Arg Lys Lys Ile
 1 5 10 15

Ala Gly Pro Asn Ala Ile Arg Thr Ala Glu Thr Arg Val Ala Cys Ala
 20 25 30

Leu Lys Leu Ala
 35

<210> 8664

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8664

Lys Phe Arg Ile Met Ser Arg Leu Leu Arg Lys Ile Lys Lys Trp Ala
1 5 10 15

Lys Leu Val Leu Ala Arg Cys Thr Ala
20 25

<210> 8665

<211> 53

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8665

Arg Phe Arg Phe Leu Lys Arg Leu Leu Lys Arg Leu His His His Val
1 5 10 15

Ala Gly Ala Ala Arg Leu Lys Ala Arg Ala Thr Ser Pro Gly Tyr Gln
20 25 30

Asn Ala Arg Ala Asp Ile Arg Tyr Ala Pro Arg Leu Arg Leu Glu Glu
35 40 45

Arg Leu Asp Val Cys
50

<210> 8666

<211> 45

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8666

Leu Leu Arg Ile Ile Lys Arg Leu Phe Lys Trp Leu Thr Thr Lys Asn
1 5 10 15

Lys Lys Thr Tyr Pro Pro Met Ile Leu Asn Lys Leu Ala Ala Gly Arg
20 25 30

Arg Met Pro Leu Gly Leu Arg Lys Leu Arg Ala Glu Asp
35 40 45

<210> 8667
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8667

Tyr Leu Lys Leu Trp Arg Arg Phe Tyr Lys Arg Leu Lys Thr Arg Lys
 1 5 10 15

Leu Thr Ser Leu Phe Ser His Ala Asn
 20 25

<210> 8668
 <211> 41
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8668

Lys Phe Lys Leu Leu Thr Lys Leu Ile Arg Arg Tyr Arg Lys Met Ala
 1 5 10 15

Leu Arg Met Leu Asp Tyr Ala Ala Leu Leu Arg Leu Met Lys Ile Glu
 20 25 30

Glu Gly Ala Lys Leu Lys Leu Val Arg
 35 40

<210> 8669
 <211> 56
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8669

Arg Ile Lys Met Leu Arg Lys Phe Phe Lys Arg Trp Lys Cys Leu Phe
 1 5 10 15

Val Tyr Phe Leu Lys Leu His Lys Lys Ile Phe Ser Arg Arg Leu Pro
 20 25 30

Glu Lys Trp Ala Leu Tyr Leu Tyr Ala Leu Leu Gln Leu Gly Arg Ala
 35 40 45

Lys Glu Val Asp Arg Leu Leu Ala
 50 55

<210> 8670

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8670

Arg Leu Arg Leu Phe Arg Arg Met Leu Lys Phe Ile Lys Lys Pro Ala
 1 5 10 15

Cys Asn Lys His Pro Ala Gln Gln Leu Leu Met Leu His Gly Arg Cys
 20 25 30

Ala Lys Arg Gln
 35

<210> 8671

<211> 76

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8671

Ile Leu Arg Met Ile Arg Arg Phe Phe Arg Arg Leu Lys His Leu Lys
 1 5 10 15

Arg Ala His Asp Gln Arg Pro Arg Arg Leu Ala Gly Ala Leu Gly His
 20 25 30

Arg Ser Ser Pro Pro Lys Ile Lys Ala Arg Ala His Leu Ala Phe Met
 35 40 45

Leu Met Asp Leu Arg Lys Asn Ala Pro Ala Thr Arg Asn Leu Arg Cys
 50 55 60

Gly Ile Ala His Arg Asn Ala Ile Ser Ala Leu Ala

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<220>
<223> Computer-generated peptide variant
<400> 8672
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Asn Ala Ala Arg Asp Gln Met Glu Arg Arg Ser Ser Leu Met Ala
35 40 45

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<220>
<223>  Computer-generated peptide variant
<400>  8673
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Asn Arg Trp Asp Ser Leu Pro Lys Val Lys Leu Tyr Gln Ala Ala Ser
20 25 30

<210>	8674
<211>	85
<212>	PRT
<213>	Artificial Sequence

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<220>
<223> Computer-generated peptide variant
<400> 8674
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Arg Leu Arg Ile Leu Lys Lys Met Met Lys Arg Phe Lys Arg Tyr Leu

Lys Met Lys Leu Met Asn Lys Trp Leu Arg Arg Leu Lys Thr Val Lys
1 5 10 15

Gln Ala Thr Phe Leu Ser Thr Lys Leu
20 25

Phe Tyr Arg Leu Leu Lys Arg Ile Tyr Lys Met Leu Ser Arg Arg Asn
1 5 10 15

Asp Thr Lys Ala Met Leu Lys Lys Ile Leu Asn Asp Lys Val Ala Arg
20 25 30

Gln Leu Ala Met Lys Ala Leu
35

<210> 8677
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 8677

Leu Leu Arg Phe Ile Arg Arg Leu Leu Arg Phe Met Arg Gln Glu Leu
1 5 10 15

Lys Arg Lys Ile Leu Arg Ser Leu Asn His Cys
20 25

<210> 8678
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 8678

Arg Trp Arg Phe Leu Pro Lys Ile Leu Lys Arg Met Lys Lys Ser Leu
1 5 10 15

Leu Ser Pro Ala Cys
20

<210> 8679
<211> 63
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 8679

Trp Leu Arg Leu Ile Lys Lys Phe Leu Arg Trp Leu Arg Ser Lys Leu
1 5 10 15

Tyr Arg Ala Arg Ala Ser Asn Glu Lys Cys Ala Leu Arg Leu Leu Ala
20 25 30

Arg Arg Arg Asp Ala Glu Met Leu Ala Leu Leu Thr Ile Lys Asn Ile
 35 40 45

Asp Tyr Lys Lys Arg Ser Lys Glu Phe Thr Pro Ala Lys Glu Met
 50 55 60

<210> 8680
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8680

Lys Ile Arg Trp Leu Lys Arg Ile Leu Lys Leu Phe Thr Gln Val Leu
 1 5 10 15

Lys Lys Arg Ala Leu Leu Lys Met Phe Tyr Asp Ala
 20 25

<210> 8681
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8681

Arg Ile Lys Tyr Leu Arg Lys Met Tyr Lys Lys Trp Lys Gln Lys Val
 1 5 10 15

Leu Phe Ala Lys His Leu Leu Ala Lys Lys Cys Lys Ala Ala Arg Leu
 20 25 30

Gly Lys Cys Leu Val Leu Thr Ile
 35 40

<210> 8682
 <211> 53
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8682

Leu Leu Lys Trp Met Lys Arg Leu Leu Lys Leu Leu Thr Lys Lys Ala
 1 5 10 15

Phe Leu Tyr Leu Asp Gly Asp Met Ala Arg Trp Thr Lys Met Glu Tyr
 20 25 30

Lys Ala Leu Leu Arg Lys Met Arg Arg Arg Glu Glu Asn Ser Leu His
 35 40 45

Leu Ser Leu Trp Gln
 50

<210> 8683
 <211> 48
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8683

Arg Phe Arg Leu Leu Lys Arg Phe Phe Lys Phe Leu His Lys Pro Lys
 1 5 10 15

Tyr Lys Leu Asn Lys Gly Lys Lys Leu Ala Tyr Arg Tyr Thr Phe Ala
 20 25 30

Cys Thr Thr Ala Thr Leu Trp Arg Leu Thr Arg Lys Lys Ala Glu Ala
 35 40 45

<210> 8684
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8684

Arg Leu Arg Trp Ile Pro Lys Leu Ile Arg Phe Leu Arg Lys Arg Leu
 1 5 10 15

Pro Tyr Trp His Ala Leu Lys Thr Phe Glu Glu Lys Ala
 20 25

<210> 8685

<211> 50
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8685

Arg Leu Lys Phe Met Lys Lys Tyr Trp Lys Met Trp Arg Lys Met Ala
 1 5 10 15

Leu Leu Thr Arg Leu Arg Leu Ala Met Arg Ala Glu Arg Leu Lys Val
 20 25 30

Asp Asn Gly Arg Asn Gln His Ala Leu Gln Lys Lys Lys Leu Ala Arg
 35 40 45

Tyr Cys
 50

<210> 8686
 <211> 50
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8686

Ile Leu Lys Phe Phe Arg Arg Leu Tyr Arg Leu Leu Arg Cys Met Cys
 1 5 10 15

His Ile Arg Ile Arg Tyr Met Glu Asn Ala Gly Arg Trp Arg Arg Ala
 20 25 30

Pro Met Leu Ala Ala Leu Ala Leu Leu Leu Trp Arg Leu Arg Gln Arg
 35 40 45

Thr Pro
 50

<210> 8687
 <211> 93
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8687

Arg Ile Arg Phe Phe Ser Arg Leu Leu Lys Lys Leu Lys Gln Leu Leu
 1 5 10 15

Gln Gly Ala Ala Ala Ile Lys Arg Ala Leu Gly Leu Leu Gln Ala Arg
 20 25 30

Arg Arg Arg Asn His Lys Ala Leu Lys Arg Lys Glu His Asn Phe Arg
 35 40 45

Leu Ala Ala Ile His Leu Ala Lys Gln Thr Phe Phe Ala Phe Phe Arg
 50 55 60

Leu Arg Ile Met Ala Leu Ser Ala Lys Tyr Val Trp Gln Asn Pro Asp
 65 70 75 80

Tyr Ile Ser Arg Ala Ala Asn Arg Arg Gly Arg Lys Val
 85 90

<210> 8688

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8688

Arg Leu Arg Leu Phe Lys Lys Trp Phe Lys Arg Met Asn Arg Phe His
 1 5 10 15

Trp Leu Ala Ser Leu Leu Thr Ala Arg Leu Asp His Ile Arg Met Lys
 20 25 30

Gly Leu

<210> 8689

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8689

Phe Phe Lys Leu Met Arg Arg Leu Trp Arg Lys Met Gln Arg Leu Ala
 1 5 10 15

Leu Arg Ile Ala Leu Leu Ile Arg Pro Tyr Ala Glu Pro Gln
 20 25 30

<210> 8690

<211> 50

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8690

Arg Leu Lys Met Leu Arg Arg Leu Met Arg Arg Ile Thr Arg Leu Trp
 1 5 10 15

Thr Leu Arg Ser Ala Ile Ala Tyr Tyr Trp Arg Lys Arg Trp Leu Ala
 20 25 30

Glu Gly Lys Leu Leu Ala Leu Pro Arg Leu Arg Ala Gly Ala Arg Ala
 35 40 45

Lys Pro
 50

<210> 8691

<211> 48

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8691

Arg Leu Lys Tyr Leu Lys Arg Leu Leu Arg Leu Leu Ser Pro Tyr Glu
 1 5 10 15

Lys Pro Lys Lys Lys Trp Gly Ala Ser Ser Arg Arg Lys Lys His Ala
 20 25 30

Arg His Val Val Met Ala Leu Pro Ala Ala Leu Leu His Ile Gly Gly
 35 40 45

<210> 8692

<211> 59
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8692

Lys Phe Lys Tyr Leu Asn Lys Phe Leu Arg Leu Leu Cys Arg Phe Leu
 1 5 10 15

Leu Arg Gln Pro Ser Arg Asn Leu His Ala Leu Leu Gly Leu Ala Arg
 20 25 30

Lys Lys Gly Lys Lys Ser Ile Ala Lys Gly Trp Ala Asn Tyr Lys His
 35 40 45

Asp Arg Met Arg Leu Gly Trp Ile Lys Arg Ala
 50 55

<210> 8693
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8693

Arg Leu Lys Leu Leu Arg Lys Trp Leu Arg Lys Trp His Lys Leu Val
 1 5 10 15

Cys His Ala Cys Pro Gly Leu Lys Ala
 20 25

<210> 8694
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8694

Lys Leu Arg Met Trp Cys Lys Trp Leu Arg Trp Leu Ser Arg Arg Tyr
 1 5 10 15

Lys Asp Asp Ala Asn Leu Thr Ala Lys

20

25

<210> 8695
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8695

Lys Phe Arg Met Trp Lys Arg Leu Phe Lys Lys Tyr Arg Arg Ala Pro
 1 5 10 15

Cys Ala Pro Leu Ala Val Leu Leu Thr Thr Ala Arg
 20 25

<210> 8696
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8696

Met Leu Arg Ile Leu Arg Arg Tyr Met Lys Lys Leu Arg Gln Ile Lys
 1 5 10 15

Lys Ala Ser Lys Pro Ala Ala Gln Asn Cys Gln Leu Met
 20 25

<210> 8697
 <211> 52
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8697

Ile Phe Arg Leu Leu Ser Lys Leu Leu Arg Ile Leu Arg Asn Ala Leu
 1 5 10 15

Lys Ala Ser Leu Arg Val Ser Lys Ala Val Ala Tyr Ser Tyr Ala Leu
 20 25 30

Lys Cys Asn Lys Lys Ala Arg Asn Lys Lys Lys Ala Met Arg Asp Asn

35

40

45

Thr Leu Val Ala
50

<210> 8698
<211> 81
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 8698

Lys Trp Arg Leu Tyr Thr Lys Ile Leu Lys Lys Ile Arg Lys Glu Pro
1 5 10 15

Tyr Arg Tyr Leu Asn Asn Val Ala Leu Leu Arg Trp Tyr Leu Tyr Leu
20 25 30

Arg Arg His His Lys Met Ile Ala Lys Pro His Leu Leu Met Ala Thr
35 40 45

Ala Cys Arg Leu Tyr Phe Ala Leu Arg Leu Asp Asp Lys Gln Arg Cys
50 55 60

Arg Leu Ala Ala His Lys Gly Lys Lys Arg Gly Trp Lys Thr Lys Arg
65 70 75 80

His

<210> 8699
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 8699

Arg Tyr Lys Leu Leu Arg Lys Leu Leu Arg Arg Ile Thr Pro Arg Met
1 5 10 15

Thr Ala Ala Trp Leu
20

<210> 8700
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8700

Met Phe Arg Leu Phe Arg Lys Tyr Met Arg Met Leu Arg His Arg Lys
 1 5 10 15

Ala Ala Asn Thr Thr Leu Lys Leu
 20

<210> 8701
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8701

Lys Tyr Lys Phe Leu Gln Arg Tyr Phe Arg Arg Phe Cys Ser Phe Ala
 1 5 10 15

Arg His Leu Ala Leu Leu Lys
 20

<210> 8702
 <211> 47
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8702

Lys Phe Lys Phe Met Cys Lys Leu Tyr Lys Ile Ile Lys Arg Thr Ala
 1 5 10 15

Leu Ala Leu Gln Leu Arg Arg Trp Gln Lys Met Leu Gln Arg Gln Pro
 20 25 30

Arg Leu Leu Ala Asp Ser Arg Lys Ala Leu Arg Ile Pro Trp Gly
 35 40 45

<210> 8703
 <211> 57
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8703

Arg Trp Lys Trp Leu His Arg Leu Leu Arg Arg Leu Thr Lys Ala Lys
 1 5 10 15

Lys Leu Met Ile Phe Arg Phe Leu Arg Cys Ala Ala Arg Gly Ile Arg
 20 25 30

Leu Leu Lys Glu Arg Lys Arg Val Cys Trp Ala Tyr Arg Leu Glu Gly
 35 40 45

Ala Arg Glu Ser Val Trp Cys Lys Pro
 50 55

<210> 8704
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8704

Lys Ile Lys Ile Tyr Thr Lys Leu Leu Arg Lys Trp Arg Lys Arg Val
 1 5 10 15

Ala Leu Ala Asp Asp Val Leu Ala Lys
 20 25

<210> 8705
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8705

Lys Tyr Arg Leu Tyr Lys Lys Trp Ile Arg Lys Phe Arg Arg Lys Met
 1 5 10 15

Arg Asp Leu Arg Thr Ala Leu Val Leu Gly Val Ala Asn Cys Leu Ala
 20 25 30

Ala Asn Ser
 35

<210> 8706
 <211> 38
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8706

Tyr Leu Arg Leu Leu Ser Arg Tyr Leu Lys Tyr Trp Arg Arg Lys Ser
 1 5 10 15

Ser Lys Arg Leu Pro Ala Ser Arg Arg Phe Arg Ala Gln Tyr Gly Ala
 20 25 30

Arg Ile Ala Gln His Met
 35

<210> 8707
 <211> 52
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8707

Arg Phe Arg Phe Leu Lys Lys Leu Trp Lys Lys Met Ser Arg Arg Arg
 1 5 10 15

Gln Trp Arg Lys Ala Arg Cys Leu His Arg Arg Lys Leu Gly Cys Ala
 20 25 30

Leu Ala Met Ile Ala Leu Ile Phe Glu Glu Tyr Leu Leu Glu Lys Phe
 35 40 45

Phe Ser Arg Phe
 50

<210> 8708

<211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8708

Ile Leu Lys Trp Leu Lys Lys Phe Ile Arg Arg Trp Ser Arg Leu Ala
 1 5 10 15

Arg Arg Leu Leu Ala Thr Glu Met Leu Arg Leu Thr Asn Leu Asp Trp
 20 25 30

Leu Met

<210> 8709
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8709

Phe Ile Arg Tyr Leu Lys Lys Leu Ile Lys Lys Met Lys Lys Leu Leu
 1 5 10 15

Ala Arg Lys Ala Ala Ala Arg Leu Phe Trp Lys Ala
 20 25

<210> 8710
 <211> 77
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8710

Phe Met Arg Phe Ile Lys Lys Leu Ile Lys Leu Leu Lys Arg Ser Lys
 1 5 10 15

Ala Asn Gln Leu Ala Gln Gln Trp Pro Arg Gly Phe Gly Ile Asp Phe
 20 25 30

Lys Arg Leu Ala Lys Gly Lys Arg Ile Leu Gln Asn Ala Ala Arg Asn

35

40

45

Arg Thr Ala Ala Leu Val Arg Ala Leu Lys Phe Arg Ala Val Asp Arg
 50 55 60

Arg Ala Leu Asp His Leu Ala Leu His Gln Tyr Leu His
 65 70 75

<210> 8711

<211> 97

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8711

Tyr Phe Lys Tyr Ile Pro Lys Met Leu Arg Lys Leu Arg His Thr Val
 1 5 10 15

Tyr Arg Arg Ala Ala Val Ala Lys Val Arg Lys Thr Lys Leu Leu Thr
 20 25 30

Glu Ala Ser Gly Arg His Ser Ala Lys His Cys Lys Lys Leu Met Ser
 35 40 45

Leu Arg Ser Leu Leu Arg Lys Cys Cys Phe Arg Phe Ala Lys Lys Ala
 50 55 60

Leu Val Arg Asp Met Leu Lys Ala Cys Tyr Arg Leu Ala Leu Gly Leu
 65 70 75 80

Arg Gln Cys Asn Cys Leu Ala Tyr Arg Lys Ala Tyr Ala Ser Arg Asn
 85 90 95

Arg

<210> 8712

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8712

Lys Met Lys Leu Trp Arg Lys Leu Phe Arg Arg Phe Thr Lys Met Ala
 1 5 10 15

Ala Leu Lys Thr Arg Cys Glu Leu Ala Gln Leu
 20 25

<210> 8713
 <211> 65
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8713

Leu Phe Lys Leu Leu Arg Lys Leu Trp Arg Lys Met Arg Lys Arg Ala
 1 5 10 15

Lys Ala Leu Arg Ala Lys Leu Ser Lys Lys Ala Lys Val Gly Leu Asn
 20 25 30

Arg Gln Ile Gly Gly Asn Arg Ala Arg Trp Cys Lys Cys Gln Cys Arg
 35 40 45

Ala His Lys Leu Gly Phe Lys Ser Val Ser Ala Leu Ala Ile Asp Arg
 50 55 60

Val
 65

<210> 8714
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8714

Lys Phe Arg Leu Leu Lys Lys Ile Phe Arg Phe Tyr Lys Arg Leu Arg
 1 5 10 15

Leu Arg Arg Phe Ile Ser Asn Met Arg Asp Leu Ala Ser Asp Val His
 20 25 30

Ala Ala Ala Ala

35

<210> 8715
 <211> 43
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8715

Leu Phe Arg Ile Trp Lys Lys Tyr Phe Lys Tyr Leu Gln Lys Val Thr
 1 5 10 15

Ala Lys Cys Leu Lys Arg Arg Tyr Arg Asp Leu Arg Lys Leu Leu Leu
 20 25 30

Met Trp Ser Tyr Arg Ala Gly Ala His Ser Leu
 35 40

<210> 8716
 <211> 67
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8716

Met Tyr Lys Ile Leu Asn Lys Phe Phe Arg Leu Tyr Lys His Leu Lys
 1 5 10 15

Tyr Pro Lys Gln Lys Arg Leu Asn Ser Leu Ala Met Asp Lys Gln Val
 20 25 30

Leu Lys Arg Ser Met Lys Lys Arg Leu Ala Ala Gln Arg His Ile Leu
 35 40 45

His Ala Leu Leu Arg Leu Tyr Asp Lys Lys Glu Arg Arg Leu Arg Trp
 50 55 60

His Ala Lys
 65

<210> 8717
 <211> 20
 <212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8717

Leu	Phe	Arg	Tyr	Leu	Lys	Lys	Leu	Leu	Arg	Lys	Phe	Pro	Arg	Leu	Val
1				5					10					15	

Cys	Gly	Arg	Val
			20

<210> 8718

<211> 63

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8718

Arg	Ile	Arg	Leu	Leu	Arg	Lys	Leu	Leu	Arg	Leu	Leu	Arg	Asn	Ile	Met
1				5					10					15	

Arg	Thr	Asn	Ile	Ala	Arg	His	Leu	Ala	Arg	Ile	Ala	Met	Ala	Met	Arg
			20					25					30		

Leu	Arg	Arg	Lys	Lys	Thr	Trp	Ala	Tyr	Ile	Arg	Gln	Leu	Lys	Leu	Asn
			35				40					45			

Gln	Ala	Leu	Trp	Gly	Met	Lys	Lys	His	Leu	Tyr	Cys	Val	Leu	Val
	50					55					60			

<210> 8719

<211> 41

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8719

Arg	Leu	Arg	Phe	Met	Lys	Arg	Leu	Leu	Lys	Lys	Phe	Lys	Ser	Gln	Glu
1				5					10					15	

Arg	Leu	Leu	Lys	Val	Thr	Glu	Met	Ala	Arg	Leu	Asn	Ser	Arg	Lys	Gln
			20					25					30		

Ile Ala Arg Ala His Ala Leu Cys Trp
 35 40

<210> 8720
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8720

Phe Leu Lys Leu Leu Arg Lys Leu Leu Lys Tyr Leu Lys Lys Lys Ser
 1 5 10 15

Met Lys Glu Leu Arg
 20

<210> 8721
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8721

Lys Leu Arg Phe Leu Lys Arg Leu Met Arg Arg Trp Pro Ser Arg Tyr
 1 5 10 15

Leu Arg Leu Arg Met Ala Cys Ala Lys Tyr Ile Arg Ala Ala Ala Tyr
 20 25 30

Arg Ala

<210> 8722
 <211> 81
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8722

Lys Leu Lys Leu Tyr Lys Arg Leu Tyr Arg Tyr Phe Lys His Tyr Gln
 1 5 10 15

Ala Asp Asp Lys Arg Arg Ala Tyr Ala Arg Lys Lys Ala Val Ile Ala
 20 25 30

Thr Ser Arg Arg Ala Lys Trp Ala Thr Leu Lys Phe Lys Asn Leu Leu
 35 40 45

Asp Glu Lys Lys Ala Thr Ser Cys Ala Gly His Ser Leu Lys Lys His
 50 55 60

Lys Leu Leu Leu Leu Asn Val Asp His Ser Lys Cys Pro Lys Arg Ser
 65 70 75 80

Gln

<210> 8723
 <211> 27
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8723

Lys Leu Arg Trp Leu Gln Lys Trp Ile Arg Lys Phe Thr Gln Gln Ala
 1 5 10 15

Arg Tyr Lys Asn Ala Ala Ala Arg Ala Tyr Gln
 20 25

<210> 8724
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8724

Phe Phe Lys Leu Tyr Lys Arg Met Ile Arg Lys Trp Pro Ser Lys Ala
 1 5 10 15

Trp Leu Leu Trp Arg Lys Ala Lys Leu Met Asp Thr Leu Lys Trp Val
 20 25 30

His Ala Ala Arg Gln Val Arg Arg

35

40

<210> 8725
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8725

Leu Tyr Arg Leu Ile Arg Arg Trp Phe Arg Arg Phe Asn Lys Ala Leu
 1 5 10 15

Ala Ile Thr Ala Ala Lys His Arg Gln Ser Gln Arg Ala
 20 25

<210> 8726
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8726

Arg Leu Lys Leu Trp Arg Lys Met Met Lys Leu Phe Ser His Asn Ala
 1 5 10 15

Ala Asp Thr Lys Leu Arg Trp Ala
 20

<210> 8727
 <211> 77
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8727

Arg Leu Lys Trp Trp Lys Arg Trp Leu Arg Lys Met Asn Lys Lys Glu
 1 5 10 15

Ile Leu Leu His Leu Arg Arg Ser Arg Lys Lys Lys Thr Ala Phe Trp
 20 25 30

His Ile Pro Lys Ala Ala Lys Tyr Phe His Ala Leu Lys Ala Asp Leu

35

40

45

Leu Met Gln Cys Arg Pro Asn Ala Ala Arg Thr Gly Arg Phe Ile Glu
 50 55 60

Met Gln Ala Gly Ala Arg Leu Leu Glu Leu Ala Ala Met
 65 70 75

<210> 8728

<211> 31

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8728

Leu Leu Arg Tyr Ile Asn Arg Leu Leu Lys Phe Leu Arg Lys Glu Leu
 1 5 10 15

Gln Leu Arg Thr Ile Trp Ala Trp Asn Arg Leu Lys Leu Lys Lys
 20 25 30

<210> 8729

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8729

Lys Trp Arg Leu Trp Lys Arg Ile Phe Arg Lys Leu Lys Lys Ile Arg
 1 5 10 15

Ser Phe Thr Ser Lys Pro Glu Ala Leu Asn Lys Ile Ala Leu Met Ala
 20 25 30

Ile Ala Arg Ala
 35

<210> 8730

<211> 51

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8730

Leu Leu Lys Leu Trp Lys Lys Met Ile Lys Leu Tyr Gln Lys Ala Cys
 1 5 10 15

Lys Lys Leu Arg Leu Pro Asn Cys Ala Arg Asn Arg Ala Leu Lys Arg
 20 25 30

Leu Lys Gly Tyr Lys Glu Leu Val Leu Trp Met Lys Arg His Ala Trp
 35 40 45

Pro Arg Ala
 50

<210> 8731

<211> 60

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8731

Lys Leu Lys Leu Leu Lys Arg Met Phe Arg Lys Leu Lys Lys Cys Leu
 1 5 10 15

Tyr Leu Leu Arg Ala Gln Pro Gln Ser Cys Ala Leu Thr Trp Arg Val
 20 25 30

Cys Ala Ala Glu Leu Arg Leu Leu Cys Lys Lys Gln Arg Ala Leu Lys
 35 40 45

Ala Arg Trp Ser Trp Leu Gly Val Gly Cys Glu Arg
 50 55 60

<210> 8732

<211> 70

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8732

Arg Trp Lys Ile Tyr Pro Arg Tyr Tyr Arg Lys Phe Cys Arg Arg Phe
 1 5 10 15

Cys Ala Leu Leu Leu Ala Met Pro Tyr Lys Cys Leu Lys Ala Glu Ala
 20 25 30

Lys Thr Met Met Val Ala Leu Ala Leu Ala Val Gly Arg Ala Lys Lys
 35 40 45

Leu Lys Arg Lys Lys Leu His Ser Asp Lys Tyr Lys Leu Met Arg Tyr
 50 55 60

Ile Lys Glu Gln Arg Ala
 65 70

<210> 8733
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8733

Arg Trp Lys Phe Leu Lys Lys Leu Phe Lys Leu Phe Gln His Ala Lys
 1 5 10 15

Arg Thr Leu Thr
 20

<210> 8734
 <211> 52
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8734

Arg Leu Lys Met Ile Lys Lys Trp Leu Arg Leu Met His Arg Asn Ala
 1 5 10 15

Ile Ala Lys Ala Lys Glu Thr Asp Leu Thr Ala Ala Pro Ala Leu Lys
 20 25 30

Arg Ala Tyr Ala Val Ile Phe Ser Phe Leu Lys Tyr Gln Arg Lys His
 35 40 45

Lys Lys Cys Gln

50

<210> 8735
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8735

Lys Tyr Arg Trp Met Lys Lys Ile Leu Arg Leu Phe Lys Lys Thr Trp
 1 5 10 15

Ala Arg Ala Phe Asn Ala Leu Leu Arg Cys Leu Leu Ile His Tyr Gly
 20 25 30

His Arg

<210> 8736
 <211> 71
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8736

Lys Phe Arg Ile Leu Arg Arg Tyr Met Lys Lys Trp Ser Asn Ser Leu
 1 5 10 15

Ala Lys Gly Ala Gly Ser Ala Ala Ala Cys Ala Val His Arg Ala Arg
 20 25 30

Arg Ala Ser Arg Ala Ala Ala Ala Leu Phe Asn Arg Gly Pro Trp Leu
 35 40 45

Lys Ala Val Cys Glu Lys Arg Leu Leu Trp Met Cys Leu Arg Leu Lys
 50 55 60

Arg Phe Ala Ile Arg Arg Trp
 65 70

<210> 8737
 <211> 43
 <212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8737

Leu Phe Lys Leu Tyr Lys Lys Leu Tyr Lys Arg Trp His Gln Ser Gln
1 5 10 15

Lys Arg Lys Arg Lys Met Arg Ala Ile Cys Asn Leu Leu Ala Lys Ser
20 25 30

Leu His Trp Ala Thr Cys Lys Ile Ala Trp Ala
35 40

<210> 8738

<211> 41

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8738

Tyr Leu Arg Leu Trp Gln Arg Leu Phe Lys Met Leu Arg Pro Gly Ser
1 5 10 15

Lys Pro Arg Asn Leu Lys Ala Tyr Ala Ile Thr Leu Ala Leu Arg Ile
20 25 30

His Arg His Leu Ala Ala Ser Met Lys
35 40

<210> 8739

<211> 65

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8739

Trp Ile Arg Ile Trp Ser Arg Leu Phe Arg Met Trp Asn Arg Thr Ala
1 5 10 15

Leu Ala Gln Pro Asn Ala Leu Lys Leu Ala Ala Lys Arg Lys Cys Arg
20 25 30

Tyr Arg Ser Lys Ala Leu Val Asn Trp Ala Arg Leu Lys Ile Ala Arg
 35 40 45

Lys Asn Asp Arg Ser Arg Lys Arg Ala Pro Arg Leu Asp Arg Lys Gln
 50 55 60

Ala
 65

<210> 8740
 <211> 74
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8740

Lys Tyr Lys Leu Tyr Lys Lys Trp Tyr Lys Lys Leu Arg Cys Ile Pro
 1 5 10 15

Arg Gln His Lys Lys Cys Arg Asp Asn Glu Ala Pro Leu Pro Ala Leu
 20 25 30

Lys Ala Lys His Ala Lys Tyr Gln Ala Ser Lys Ala Met Tyr Arg Arg
 35 40 45

Gln Ala Asn Ala Tyr Glu Leu Lys Cys Arg Trp Lys Arg Lys Glu Ile
 50 55 60

Ala Lys Leu Ala Arg Leu Ala Arg Arg Ala
 65 70

<210> 8741
 <211> 52
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8741

Ile Phe Lys Leu Trp Thr Lys Phe Phe Lys Arg Tyr Arg Pro Arg Met
 1 5 10 15

Lys Ile Ile Arg Leu Leu Lys Arg Arg Tyr Leu Glu Asn Leu Gly Arg

20 25 30

Arg Trp Ala Trp Gln Arg Cys Gly Ala Ala Leu Ala Asp Leu Leu Ala
35 40 45

Asn Arg Arg Asn
50

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<210> 8742
<211> 88
<212> PRT
<213> Artificial Sequence
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<220>
<223> Computer-generated peptide variant

<400> 8742

Leu Phe Arg Ile Tyr Lys Lys Phe Phe Arg Leu Leu Lys Cys His Arg
1 5 10 15

Glu Ala Val Ala Ser Ala Arg Lys Cys Leu Glu Lys Lys Leu Arg Gln
20 25 30

Lys Ala Trp Met Tyr Val Lys Leu Glu Arg Asp Leu Ala Ser Lys Ala
35 40 45

Ala Ala Lys Asn Tyr Arg Tyr Gln Asn Lys Thr Ala Lys Ala Glu Arg
50 55 60

Ala Thr Arg Ile Lys Ala Ile Arg Thr Arg Arg Phe Lys Tyr Arg Leu
65 70 75 80

Lys Cys Trp Lys Ala Thr Leu Leu
85

<210>	8743
<211>	38
<212>	PRT
<213>	Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 8743

Arg Trp Lys Ile Leu Arg Lys Phe Ile Arg Phe Phe Arg Pro Val Glu
1 5 10 15

Arg Ala Arg Ala Leu Asp Leu Arg Asn Leu Arg Leu Phe Arg Met Val
 20 25 30

Thr Leu Cys Trp Leu Ala
 35

<210> 8744
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8744

Leu Trp Arg Leu Leu Lys Lys Phe Tyr Lys Arg Ile Gln Asn Ala Ala
 1 5 10 15

Arg Gln Ser Lys Lys Leu Leu Asn
 20

<210> 8745
 <211> 68
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8745

Lys Ile Lys Ile Leu Lys Arg Tyr Met Arg Tyr Leu Cys Lys Ala Gly
 1 5 10 15

Lys Lys Trp Lys Arg Trp Arg Leu Leu Phe Gly Ile Lys Lys Lys His
 20 25 30

Ala Ala Arg Arg Lys Leu Met Cys Arg Val Lys Leu Arg His Leu Val
 35 40 45

Arg Ala Gln Phe Lys Phe Ala Leu Thr Ala Leu Ala His Asp Ala Ala
 50 55 60

Arg Thr Lys Tyr
 65

<210> 8746

<211> 55
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8746

Ile Phe Lys Phe Phe Lys Lys Met Trp Lys Leu Phe Lys Lys Ala Arg
 1 5 10 15

Ala Ser Lys Arg Ala Leu Val Arg Met Gly His Lys Lys Leu Thr Thr
 20 25 30

Pro Arg Pro Leu Ala Ser Val Asp Arg Val Ala Glu Asp Leu Lys Cys
 35 40 45

Ala Arg Ala Cys Lys Lys Ala
 50 55

<210> 8747
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8747

Lys Leu Lys Phe Leu Thr Arg Phe Leu Lys Lys Leu Lys Arg Ala Arg
 1 5 10 15

Ala Cys Arg Leu Gln Leu Cys Gln Ala Tyr Ala Arg Phe Thr
 20 25 30

<210> 8748
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8748

Lys Leu Lys Ile Leu Cys Lys Phe Tyr Arg Arg Phe Ser Cys Ala Leu
 1 5 10 15

Ala Lys Lys Asn Lys Leu Phe Ser

20

<210> 8749
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8749

Leu Tyr Arg Met Leu Arg Arg Trp Leu Arg Arg Phe Ser Thr Arg Leu
 1 5 10 15

Ala Ala Leu Asp Trp Tyr Leu Ala Lys Phe Val Arg Gly Thr Met Ala
 20 25 30

<210> 8750
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8750

Phe Leu Arg Phe Leu His Arg Leu Trp Arg Arg Tyr Lys Lys Asn Lys
 1 5 10 15

Lys Leu Cys Tyr Thr Lys Thr Ala Arg Cys Ala Ala Ala Gly Leu Lys
 20 25 30

<210> 8751
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8751

Tyr Leu Arg Leu Leu Arg Arg Tyr Trp Arg Phe Ile Arg Gln Ala Thr
 1 5 10 15

Asn Lys Arg Pro Ala
 20

<210> 8752

<211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8752

Tyr Leu Arg Tyr Leu His Lys Ile Leu Arg Arg Met Arg Arg Leu Ile
 1 5 10 15

Gln Leu Glu Ser His Leu Gln Lys Phe Ala Thr Arg Ile Leu Pro Ile
 20 25 30

Lys Asn Lys Lys Lys Gly Leu Ala
 35 40

<210> 8753
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8753

Phe Leu Arg Leu Phe Arg Lys Tyr Leu Arg Trp Phe Arg Gln Gln Trp
 1 5 10 15

Ser Leu Ile Asp Lys Arg Ala Ala Ser Leu Val Val Ala Arg Leu Leu
 20 25 30

<210> 8754
 <211> 52
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8754

Arg Trp Arg Trp Leu Arg Lys Trp Trp Arg Arg Phe Lys Arg Gln Leu
 1 5 10 15

Lys Lys Ala Leu Ile Phe Val Cys Thr Gln Gly Ala Gly Arg Leu Leu
 20 25 30

Leu Arg Lys Ala Pro Arg Ala Pro Lys Ala Cys Thr Ala Leu Cys Leu

35

40

45

Trp Gly Leu Ser
50

<210> 8755
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 8755

Lys Leu Lys Ile Phe Lys Arg Leu Leu Lys Phe Leu Lys Arg Ala Ala
1 5 10 15

Tyr Ala Leu Leu Thr Arg Lys Phe Arg Ala Asp
20 25

<210> 8756
<211> 50
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 8756

Arg Leu Arg Met Met Cys Lys Tyr Met Arg Phe Phe Lys Lys Leu Leu
1 5 10 15

Arg Gly His Ala Ala Ala Ala Lys Lys Leu His Pro Pro Pro Lys Asn
20 25 30

Cys Tyr Ala Thr Lys Leu Leu His Trp Cys Arg Lys Arg Val Lys Ala
35 40 45

Ala Glu
50

<210> 8757
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 8757

Leu Leu Lys Leu Phe Lys Lys Met Leu Lys Tyr Leu Lys Ser Ala Ala
 1 5 10 15

Trp Cys His Gln Cys Glu Arg Ile Arg Leu Met Lys Tyr Ser Lys Ala
 20 25 30

<210> 8758

<211> 45

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8758

Lys Tyr Arg Ile Tyr Arg Lys Tyr Leu Arg Phe Leu Lys Arg Thr Met
 1 5 10 15

Lys Ala Thr Ile Ile Leu Gln Ala Arg Leu Ala Asn Arg Lys Gln Lys
 20 25 30

Met Pro Ser Ala Gln Val Lys Ala Leu Thr Lys Tyr Leu
 35 40 45

<210> 8759

<211> 66

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8759

Trp Leu Lys Leu Leu Cys Lys Trp Leu Lys Arg Tyr Arg Arg Leu Arg
 1 5 10 15

His Thr Ala Leu Lys Met Lys Ala Arg Ile His Ala Tyr Lys Cys Thr
 20 25 30

Arg Met Ala Leu Arg Lys Ala Lys Phe Pro Pro Lys Leu Ala Ala Ala
 35 40 45

Arg Ala Lys Trp Lys Leu Tyr Met Leu Tyr Pro His Lys Glu Gly Trp
 50 55 60

Asp Leu
65

<210> 8760
<211> 33
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 8760

Leu Leu Arg Leu Phe Lys Lys Phe Leu Arg Tyr Leu Arg Arg Lys Ala
1 5 10 15

Gly Phe Asp Arg Arg Phe Ala Met Ala Lys Arg Leu Ile Gln Pro Met
20 25 30

Ala

<210> 8761
<211> 33
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 8761

Met Phe Lys Leu Tyr Arg Lys Leu Leu Arg Lys Tyr Arg Thr Asn Leu
1 5 10 15

Leu Lys Val His Leu Ala Lys Trp Cys Leu Glu Arg Leu Ala Asn Tyr
20 25 30

Trp

<210> 8762
<211> 22
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 8762

Ile Phe Lys Leu Leu Arg Lys Phe Met Arg Lys Phe Gln Pro Ala Ala
 1 5 10 15

Ala Leu Leu Pro Lys His
 20

<210> 8763

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8763

Phe Phe Arg Met Met Arg Arg Trp Phe Lys Arg Trp Lys Lys Arg Thr
 1 5 10 15

Leu Asp Pro Leu Ala Ala Leu Ile Arg Tyr Arg Pro Ala Gln Ala Leu
 20 25 30

Ile Leu

<210> 8764

<211> 88

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8764

Met Tyr Arg Met Ile Thr Lys Phe Ile Lys Arg Tyr Asn Arg Asn Ala
 1 5 10 15

Pro Gly Ser Ala Thr Arg Met Arg Ala Phe Gln Tyr Lys Glu Phe Met
 20 25 30

Ala Lys Met Pro Ala Lys Met Lys Arg Trp Lys Lys Leu Ala Leu Ala
 35 40 45

His Arg Arg Ala Leu Leu Ala Arg Ala Asn Met Arg Lys Leu Glu Ile
 50 55 60

Cys Glu Arg Tyr Thr Leu Arg Ala Lys Lys Pro Lys Ala Leu Arg Lys

<220>
<223> Computer-generated peptide variant

<400> 8767

Leu	Leu	Arg	Ile	Phe	Lys	Arg	Met	Phe	Lys	Arg	Leu	Lys	Pro	Thr	Arg
1				5				10					15		

Asn	Leu	Lys	Cys	Gln	Asn	Leu	Met	Gly	Phe	Tyr	Tyr	Leu	Pro	Leu	Ala
			20					25					30		

Thr	Arg	Met	Glu	Arg	Leu	Leu	Leu	Leu	Leu	Lys	Cys	Thr	Ala	Glu	Arg
		35					40					45			

Arg	Ile	Ala	Lys	Thr	Thr	Gln	Gly	Ala	Ala	Ala	Ala	Ser	Thr	Met	Leu
	50					55						60			

Met	Arg	Arg	Leu	Ala	Ala
65				70	

<210> 8768

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8768

Phe	Tyr	Lys	Leu	Ile	Pro	Arg	Phe	Trp	Arg	Arg	Phe	Lys	Lys	Cys	Ala
1				5				10						15	

Lys	Lys	Ser	Leu	Leu	Ala	Gly	Leu	Asp
			20				25	

<210> 8769

<211> 66

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8769

Lys	Tyr	Arg	Leu	Tyr	Arg	Arg	Ile	Phe	Arg	Lys	Leu	Cys	Ser	Ala	Arg
1				5				10						15	

His	Ala	Tyr	Ile	Lys	Ala	Ala	Phe	Ile	Arg	Gly	Gly	Ile	Tyr	Leu	Ala
			20					25					30		

Leu Arg Thr Asn Arg Leu Trp Glu Ala Gly Leu Asp Arg Arg Ile Arg
 35 40 45

Asp Leu Leu Arg Lys Glu Glu Arg Thr Ala Asn Cys Lys Leu Met Leu
 50 55 60

Arg Ala
 65

<210> 8770
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8770

Arg Trp Lys Phe Leu Pro Lys Leu Leu Arg Arg Phe Arg Arg Asn Cys
 1 5 10 15

Ala Lys Leu Ala Ala
 20

<210> 8771
 <211> 82
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8771

Phe Leu Lys Met Ile Pro Lys Phe Leu Lys Trp Leu His Thr Arg Ser
 1 5 10 15

Ala Leu Arg Arg Leu Ala Lys Arg Thr Trp Ile Lys Lys Asp Ala Met
 20 25 30

Asn Leu Lys Lys Leu Lys Ala Ala Cys Cys Leu Leu Leu Arg Ala Trp
 35 40 45

Cys Asn Asp Asp Cys Thr Ala Leu Cys Asp Lys Tyr Arg Arg Ala His
 50 55 60

Ala Arg Ala Cys Ala Ser Leu Thr Ala Arg Ala Arg Val Gln Arg Ile

65

70

75

80

Lys Ala

<210> 8772

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8772

Arg Phe Arg Leu Phe Lys Lys Met Leu Arg Arg Ile Thr Arg Ala Leu
 1 5 10 15

Ala Arg Ala Leu Ile Ile Ala Met Gln Trp
 20 25

<210> 8773

<211> 39

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8773

Lys Met Arg Leu Leu Arg Lys Leu Leu Lys Lys Met His Pro Lys Lys
 1 5 10 15

Thr Phe Ala Arg Ala Leu Leu Gln Thr His Ser Cys Arg Leu Lys Trp
 20 25 30

Ala Leu Ala Leu Val Asp Gly
 35

<210> 8774

<211> 93

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8774

Arg Leu Arg Leu Trp Cys Lys Leu Met Lys Lys Phe Asn Lys Ser Ala

<210>	8775
<211>	34
<212>	PRT
<213>	Artificial Sequence
<220>	
<223>	Computer-generated peptide variant
<400>	8775

Leu Phe Arg Leu Tyr Arg Lys Ile Leu Lys Arg Leu Pro His His Trp
1 5 10 15

Leu Arg Leu Arg Thr Lys Cys Ala Tyr Tyr Lys Gly Leu Leu Arg Asn
20 25 30

Lys Arg

<210>	8776
<211>	32
<212>	PRT
<213>	Artificial Sequence
<220>	
<223>	Computer-generated peptide variant
<400>	8776

Arg Leu Lys Phe Phe Ser Arg Leu Leu Arg Lys Ile Lys Arg Lys Phe
1 5 10 15

Cys Ala Arg Arg Met His Leu Ala Leu Val Cys Asp Ala Lys Leu Asn
 20 25 30

<210> 8777
 <211> 42
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8777

Lys Phe Lys Phe Leu Thr Arg Leu Phe Arg Leu Leu Arg Lys Ala Lys
 1 5 10 15

Tyr Leu Val Leu Cys Ala Asp Leu Arg Lys His Arg Glu Pro Ala Val
 20 25 30

Met Leu Ala Leu Asp Trp Phe Lys Ala Lys
 35 40

<210> 8778
 <211> 60
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8778

Lys Trp Arg Tyr Leu His Arg Tyr Met Arg Trp Phe Gln Lys Leu Arg
 1 5 10 15

Leu Met Leu His Ala Tyr Arg Lys Arg Leu Asp Ala Arg Ala Ala Asn
 20 25 30

Ser Tyr Arg Ala Ala Trp Arg Ala Ala Leu Glu Arg Lys Arg Asn Met
 35 40 45

Gln Gly Ser Cys Tyr Pro Leu Ile Leu Lys Ser Ala
 50 55 60

<210> 8779
 <211> 47
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8779

Leu	Leu	Lys	Leu	Trp	Lys	Arg	Tyr	Leu	Lys	Phe	Leu	Lys	Thr	Asn	Lys
1				5					10					15	

Lys	Arg	Tyr	Ala	Leu	Gln	Thr	His	Gln	Cys	Ala	Lys	Thr	Arg	Asn	Lys
			20					25						30	

Arg	Val	Lys	Leu	Leu	Arg	Leu	Thr	Asp	Arg	Val	Ala	Val	Thr	Arg
		35					40					45		

<210> 8780

<211> 38

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8780

Ile	Phe	Arg	Leu	Phe	Arg	Arg	Phe	Leu	Lys	Leu	Leu	Arg	Lys	Arg	Gln
1				5					10					15	

Asp	Lys	Glu	Arg	Leu	His	Arg	Ala	Leu	Asn	Arg	Leu	Leu	Trp	Ala	Ala
			20					25					30		

Pro	Lys	Met	Pro	Phe	Asp
		35			

<210> 8781

<211> 37

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8781

Lys	Leu	Lys	Trp	Met	Arg	Lys	Leu	Leu	Arg	Arg	Leu	Cys	Lys	Leu	Thr
1				5					10					15	

Ile	Tyr	Cys	Leu	Ala	His	Thr	Ala	Lys	Arg	Leu	Asp	Lys	Ala	Gly	Arg
			20					25					30		

Val	Val	Leu	Leu	Ala
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35

<210> 8782
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8782

Tyr Leu Lys Trp Leu Lys Lys Tyr Leu Arg Phe Leu Arg Lys Ala Val
 1 5 10 15

Gln Lys Lys Ala Ala Thr Leu Lys Ser Asn Ser Trp
 20 25

<210> 8783
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8783

Lys Met Lys Leu Tyr Lys Arg Trp Phe Lys Leu Tyr Arg Arg Arg Gly
 1 5 10 15

Glu Ala Ile Leu Tyr Ile Leu Leu Leu Pro Ser Arg
 20 25

<210> 8784
 <211> 27
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8784

Lys Trp Lys Leu Tyr Pro Lys Trp Ile Arg Arg Trp Thr Arg Leu Lys
 1 5 10 15

Ala Ala Gln Ser Leu Tyr Ile Ala Ser Ala Arg
 20 25

<210> 8785

<211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8785

Lys Phe Lys Leu Trp Lys Arg Met Leu Lys Trp Leu Lys Arg Tyr Leu
 1 5 10 15

Lys Gly Asp Gly Gly Met Leu Phe Leu Thr Lys Leu Tyr Lys Leu Phe
 20 25 30

Leu Glu

<210> 8786
 <211> 52
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8786

Lys Phe Arg Met Leu Asn Lys Ile Leu Lys Phe Trp Gln Lys Thr His
 1 5 10 15

Lys Gln Glu Leu Lys Arg His Val Gln Gly Lys Pro Lys Leu Lys Arg
 20 25 30

Leu Phe Arg Phe Ala Ala Arg Gly Thr Leu Leu His Thr Leu Ala Arg
 35 40 45

Leu Arg Ala Leu
 50

<210> 8787
 <211> 60
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8787

Phe Phe Lys Leu Trp His Arg Trp Tyr Arg Phe Ile Asn Lys Asp His

Arg Met Lys Phe Met Arg Arg Ile Phe Arg Phe Trp Lys Asn Ala Leu
1 5 10 15

<210>	8789
<211>	39
<212>	PRT
<213>	Artificial Sequence
<220>	
<223>	Computer-generated peptide variant
<400>	8789

Ala His Gly Met Ala His Leu Cys Gln Ala Arg Ala His Leu Thr Gly
20 25 30

<210>	8790
<211>	79
<212>	PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8790

Lys Leu Arg Leu Leu Asn Arg Leu Leu Arg Tyr Phe Arg Lys Leu Ala
1 5 10 15

Lys Leu Gln Asp Leu Ala Glu Val Lys Trp Ala Lys Trp Phe Leu Gln
20 25 30

Leu Leu Val Trp Leu Asp Ala Lys Thr Glu Arg Gly Leu Gly Trp Ile
35 40 45

Ser Ala Leu Gly Ala Lys Ala Asp Leu Tyr Lys Ala Pro Cys Ile Trp
50 55 60

Arg Lys Tyr Ala His Arg Ala Lys Pro Lys Met Asp Arg Ile Phe
65 70 75

<210> 8791

<211> 68

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8791

Arg Leu Lys Tyr Trp Gln Lys Leu Leu Lys Ile Leu Thr Lys Leu Lys
1 5 10 15

Arg Cys Lys Asn Gln Ala Ser Phe His Ala Pro Pro Trp Ala Tyr Arg
20 25 30

Leu Cys Ser Gly Arg Lys Arg Ala Leu Tyr Met Ile Pro Arg Arg Phe
35 40 45

Cys Thr Lys Leu Arg Lys Leu Thr Met Asp Arg Leu Met Met Leu Lys
50 55 60

Arg Ala Arg Leu
65

<210> 8792

<211> 63
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8792

Tyr Tyr Arg Met Phe Arg Arg Phe Ile Arg Lys Leu Lys Pro Ala Asn
 1 5 10 15

Tyr Trp Ala Lys Ile Leu Cys Arg Leu Ala Gly Leu Ala Arg Lys Leu
 20 25 30

His Gln Glu Arg Arg Arg Ala Cys Ser Ala Ala Lys Ile Lys Leu Cys
 35 40 45

Arg Met Leu Glu Arg Asp Ala Arg Tyr Asn Tyr Ile Cys Leu Arg
 50 55 60

<210> 8793
 <211> 57
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8793

Arg Trp Arg Trp Tyr Arg Arg Leu Leu Lys Arg Trp Cys Asn Ser Ala
 1 5 10 15

Lys Pro Ile Arg Gln Ala Ala Cys Arg Leu Ala Thr Leu His Ser Lys
 20 25 30

Arg His Cys Leu Lys Ala Pro Leu Leu Ala Ala Pro Ala Asp Arg Lys
 35 40 45

Gly Lys Lys Ser Arg Arg Met His Glu
 50 55

<210> 8794
 <211> 59
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8794

Arg Leu Arg Met Leu Arg Arg Leu Leu Arg Phe Phe Lys Cys Asn His
 1 5 10 15

Pro His Ala Ala Leu Lys Leu Trp Ile Lys Leu Gln Ala Cys Ala Leu
 20 25 30

Lys Arg Glu Lys Gln Ala Thr Thr Lys Phe Arg Cys Ala Asn Pro Met
 35 40 45

Cys Gln Lys Arg Leu Val Ala Leu Lys Lys Leu
 50 55

<210> 8795

<211> 74

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8795

Arg Leu Arg Leu Tyr Arg Arg Phe Met Arg Lys Leu Lys Cys Lys Ala
 1 5 10 15

Asn Tyr Leu Leu Lys Lys Ala Lys Trp Tyr Lys Lys Cys Lys Arg Thr
 20 25 30

Gln Lys Ile Leu Arg Ala Ile Glu Val Met Arg Tyr Arg Ala Leu Pro
 35 40 45

Leu Leu Glu Asn Gln Cys Ser Lys Leu Gln Ala Arg Ala His Asp Arg
 50 55 60

Ala His Ala Leu Ile Ala Leu Asp Ala Gly
 65 70

<210> 8796

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8796

Arg Phe Arg Leu Leu Lys Lys Leu Leu Arg Arg Phe Arg Ser Leu Asp
 1 5 10 15

Gly Gln Lys Ala Tyr Ala Leu Met Trp Leu Arg Phe Glu Leu Asp Lys
 20 25 30

Tyr Trp

<210> 8797
 <211> 76
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8797

Lys Leu Arg Leu Leu Thr Lys Phe Trp Lys Arg Trp Lys Lys Phe Leu
 1 5 10 15

Ile Ser Lys Arg Leu Glu Ile Ala Ser Glu Leu Thr Arg Leu Trp Ala
 20 25 30

Lys Phe Cys Trp Ala His Glu Asn His Gln Asp Met Ala Ala Asn Gly
 35 40 45

Asn Tyr Ala Lys Gln Leu Ala Ala Ala Asp Glu Lys Leu Ala Lys
 50 55 60

Lys Lys Lys Gln Leu Ala Leu Lys Gly Arg Leu Arg
 65 70 75

<210> 8798
 <211> 41
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8798

Arg Leu Arg Leu Leu Asn Lys Phe Tyr Lys Trp Leu Thr Lys Gln Val
 1 5 10 15

Leu Leu Cys Lys Asn Ser Ser Lys Gln Ala Leu Lys Ala Ala Lys Cys

20

25

30

His Pro Trp His Ala Ala Glu Arg Ala
 35 40

<210> 8799

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8799

Lys Met Lys Phe Leu Lys Lys Leu Leu Lys Leu Leu Ser Cys Cys Tyr
 1 5 10 15

Ala Leu Phe Val Arg Gln Lys
 20

<210> 8800

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8800

Leu Leu Arg Ile Met Arg Arg Phe Leu Arg Lys Leu Lys Arg Asn Trp
 1 5 10 15

Leu Ser Leu Gln Arg Leu Trp Gly Leu Phe Asp Gln
 20 25

<210> 8801

<211> 31

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8801

Phe Phe Lys Leu Ile Lys Lys Tyr Leu Arg Arg Leu Asn Thr Val Arg
 1 5 10 15

Ala Leu Arg Ala Arg Ala Thr Glu Ile Leu Lys Leu Arg Arg Leu

20

25

30

<210> 8802

<211> 41

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8802

Arg Leu Arg Leu Trp Lys Lys Ile Leu Lys Leu Tyr Arg Asn Asn Leu
 1 5 10 15

Ala Thr Asn Ser Phe Arg Ser His Ala Phe Leu Ala Trp Lys Gln Gln
 20 25 30

Thr Lys Ala Asn Ala Leu Lys Lys Ala
 35 40

<210> 8803

<211> 47

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8803

Met Phe Lys Tyr Met Arg Lys Phe Leu Lys Arg Leu Lys His Tyr Arg
 1 5 10 15

Leu Trp Pro Ala Cys Lys Arg Ala Lys Asn Lys Pro Phe Leu Lys Pro
 20 25 30

Pro Leu Lys Tyr Met Ala Met Leu Ala Lys Leu Ala Leu Asn His
 35 40 45

<210> 8804

<211> 42

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8804

Leu Trp Lys Phe Tyr Cys Lys Tyr Trp Arg Lys Leu Gln Asn Phe Arg

1 5 10 15

Lys Pro Glu Lys Arg Lys Arg Leu Leu Arg Phe Trp Leu Lys Leu Ala
20 25 30

Thr Lys Ala Asp Phe Leu Leu Lys Lys Leu
35 40

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<210> 8805
<211> 69
<212> PRT
<213> Artificial Sequence
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<220>
<223> Computer-generated peptide variant

<400> 8805

Arg Leu Lys Phe Leu Ser Lys Ile Trp Arg Phe Leu Arg Lys Lys Arg
1 5 10 15

Ala Leu Leu Val Lys Arg Ala Pro Pro Asn Leu Pro Lys Tyr Arg Asp
20 25 30

Ala Tyr Met Pro Leu Lys Arg Pro Thr Leu Phe Gln Lys Ile Cys Ile
35 40 45

Phe His His Arg Ala Arg Ala Arg Leu Ala Pro Gln Lys Arg Leu Asp
50 55 60

Ile Arg Phe Gly Leu
65

<210>	8806
<211>	31
<212>	PRT
<213>	Artificial Sequence

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<220>
<223> Computer-generated peptide variant
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<400> 8806

Arg Leu Lys Phe Trp Pro Arg Leu Leu Arg Phe Ile Lys Arg Lys Leu
1 5 10 15

Thr Leu Gln Ala Cys Ala Arg Ala Lys Tyr Ile Tyr Cys Phe Lys
20 25 30

<210> 8807
 <211> 43
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8807

Lys Ile Lys Leu Met Lys Arg Leu Leu Arg Arg Leu Lys Arg Arg Cys
 1 5 10 15

Asp Asn Met Ala Leu Gln Ala Gln His Met Leu Ala Lys Lys Cys Lys
 20 25 30

Val Pro Leu Arg Met Val Ile Cys Ala Ala Pro
 35 40

<210> 8808
 <211> 38
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8808

Leu Leu Arg Leu Trp Lys Arg Leu Phe Arg Phe Trp Lys Arg Ala Arg
 1 5 10 15

Leu Leu Cys Phe Leu Lys Val Arg Arg Asn Met Leu Pro Lys Ala Met
 20 25 30

Arg Arg Arg Trp Phe Leu
 35

<210> 8809
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8809

Ile Leu Lys Leu Met Lys Arg Leu Leu Lys Arg Trp Thr Asn Lys Arg
 1 5 10 15

Glu Val Tyr Leu Leu Lys Lys Leu Cys Pro Leu Arg Tyr Leu
 20 25 30

<210> 8810
 <211> 49
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8810

Phe Trp Lys Leu Met Thr Arg Leu Leu Arg Tyr Met Arg Arg Glu Leu
 1 5 10 15

Ile Ala Ser His Leu Ala Arg Ile Trp Lys Arg Lys Leu Ile Ala Cys
 20 25 30

Gln Lys Arg Phe Leu Ile Arg Ala Lys Leu Asp Ala Tyr Glu Asn Ala
 35 40 45

Tyr

<210> 8811
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8811

Met Leu Lys Ile Leu Thr Lys Leu Phe Arg Lys Leu Pro Lys Gly Lys
 1 5 10 15

Leu Thr Lys Arg Arg Arg Pro Ala Ser His Leu Gly Ala Leu Cys Cys
 20 25 30

Val Leu

<210> 8812
 <211> 49
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8812

Lys Tyr Lys Tyr Leu Arg Arg Leu Leu Lys Tyr Leu Lys Arg Tyr Ala
 1 5 10 15

Ala Pro Trp Ala Ala Glu Leu Ser Leu Phe Gly Cys Leu Lys Arg Leu
 20 25 30

Ala Lys Lys Asn Arg His Lys Gln Leu Phe Asp Ser Arg Lys Trp Ser
 35 40 45

Ala

<210> 8813

<211> 51

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8813

Tyr Ile Arg Leu Phe Lys Arg Met Phe Arg Tyr Trp Lys Arg Leu Gln
 1 5 10 15

Leu Lys Leu Asp Ala Lys Met Ala Pro Lys Ala Ile Gly Arg Ala Val
 20 25 30

Arg Thr Pro Arg Ala Ala Gln Ala Lys Leu Lys Asn Met Ala Lys Lys
 35 40 45

Tyr Phe Met
 50

<210> 8814

<211> 44

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8814

Leu Leu Lys Tyr Leu Thr Lys Trp Leu Lys Arg Leu Lys Thr Gln Ala

Val Arg Ala Ala Lys Ala Ala Thr Leu His Lys Arg Lys Thr Arg Ala
 50 55 60

Val Ala Leu Ser Trp Glu Ala Leu Lys Asn Thr Gly Ala Val Ile Arg
 65 70 75 80

Ala Arg Leu Lys Met Phe Lys Phe Cys
 85

<210> 8817
 <211> 51
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8817

Lys Leu Lys Tyr Trp Arg Lys Phe Tyr Lys Leu Trp Arg Arg Leu Ile
 1 5 10 15

Arg Gln Lys Ser Lys Asp Cys Arg Ala Gly Thr Leu Leu Lys Pro Ser
 20 25 30

Arg Lys Pro Asn Asn Arg His Cys Arg Arg Pro Ala His Ala Ala Trp
 35 40 45

Ala Leu Leu
 50

<210> 8818
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8818

Leu Leu Arg Ile Leu Gln Arg Trp Leu Arg Lys Leu Lys Lys Thr Ile
 1 5 10 15

Leu Gln Ala Val Ala Met Lys Arg Glu Arg Lys Trp Lys Thr Leu Ala
 20 25 30

Asp Ala His

35

<210> 8819
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8819

Arg Leu Arg Leu Leu Arg Arg Trp Leu Lys Arg Phe Ser Arg Leu Gln
 1 5 10 15

Ser Arg Glu Leu Ala Lys Leu Ile Met Phe Leu Ala Cys Leu Ala Arg
 20 25 30

Arg Cys Leu Lys Arg Lys Lys Asp
 35 40

<210> 8820
 <211> 75
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8820

Arg Leu Lys Leu Phe Lys Arg Leu Leu Lys Lys Leu Asn Arg Trp Arg
 1 5 10 15

Val Asn Gly Pro Arg Glu Arg Leu Glu Pro Arg Lys Lys Ala Ala Leu
 20 25 30

Ala His Cys Arg Trp Ala Glu Glu Lys Lys Met Val Cys Ala Asp Ala
 35 40 45

Ala Arg Lys Val Arg Ala Leu Gln Arg Leu His Leu Ala Asn Asn Leu
 50 55 60

Lys Arg Lys Gly Lys Glu Arg Ala Val Leu Arg
 65 70 75

<210> 8821
 <211> 40
 <212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8821

Arg Phe Lys Leu Met Cys Lys Trp Leu Arg Lys Tyr Arg Pro Ala Glu
1 5 10 15

Ala Arg Leu Glu Arg Thr Lys Ala Trp Ile Met Met Ala Gly Arg Lys
20 25 30

Ala Leu Ile Cys Leu Ser Ala Trp
35 40

<210> 8822

<211> 49

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8822

Lys Ile Lys Leu Trp Thr Arg Trp Trp Lys Lys Trp Arg Arg Lys His
1 5 10 15

Cys Pro Val Lys Pro Met Asn Arg Ala Asp Leu Met Leu Leu Lys Lys
20 25 30

Leu Arg His Ala Gln Phe Leu Ala Arg Lys Val Ala Val Ala Arg Leu
35 40 45

Ala

<210> 8823

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8823

Phe Leu Arg Phe Met Cys Lys Phe Met Lys Trp Leu Lys Lys Lys Ala
1 5 10 15

Pro Arg Ser Asp Val Leu Arg Ala Leu Asn Arg Leu Arg Arg Arg Thr
 20 25 30

Leu Leu Met
 35

<210> 8824
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8824

Lys Leu Arg Phe Met Arg Arg Ile Trp Lys Leu Leu His Arg Leu Lys
 1 5 10 15

Ile Thr Ala Ala Leu Asn
 20

<210> 8825
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8825

Lys Ile Arg Trp Tyr Ser Arg Leu Ile Lys Leu Leu Arg His Ser Leu
 1 5 10 15

Asp Arg Asp Ala
 20

<210> 8826
 <211> 61
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8826

Lys Trp Arg Met Leu Arg Arg Tyr Met Arg Arg Trp Ser Lys Ala Phe
 1 5 10 15

Ile Thr Arg Arg Leu Ala Lys Arg Ala Lys Cys His Ala Ser Glu Ser
 20 25 30

Glu Met Ser Lys Arg Leu Gly Arg Ala Cys Arg Arg Asn Lys Leu Lys
 35 40 45

Ala Asn Ala Arg Lys His Ala Leu Ile Phe Ala Ala Leu
 50 55 60

<210> 8827
 <211> 42
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8827

Ile Met Lys Leu Tyr Gln Arg Tyr Met Arg Tyr Leu Arg Thr Gly Leu
 1 5 10 15

Gln Arg Arg Ala Ala Ala Arg Ala Leu Trp Leu Ala Ala Asn Phe His
 20 25 30

Val Arg Ala Trp Arg Lys Lys Ala Ala Val
 35 40

<210> 8828
 <211> 66
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8828

Lys Tyr Lys Phe Trp Arg Lys Leu Leu Arg Met Trp Arg Cys Gln Arg
 1 5 10 15

Ile Asp Pro His Leu Lys Leu Asn Thr Lys Leu Leu Lys Val Lys Thr
 20 25 30

Lys Ser Leu Ser Ala Ala Phe Ser Gln Leu Gly Lys Thr Arg Trp Ala
 35 40 45

Leu Leu Asp Leu Thr Val Ala Arg Lys Arg Pro Leu Leu Leu Phe Lys

50

55

60

Lys Lys
65

<210> 8829
<211> 80
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 8829

Tyr Leu Lys Leu Met Lys Arg Phe Leu Lys Arg Trp Pro Ser Glu Lys
1 5 10 15

Lys Leu Gly Ala Tyr Phe Gln Arg Glu Lys His Met Asn Lys Phe Thr
20 25 30

Asn Trp Arg Leu Ile Gly Tyr Ser Lys Leu Arg Leu Leu Trp Val Ala
35 40 45

Lys Gln Lys Trp Ala Arg Leu Thr Arg Ser Arg Arg Leu Arg Asp Pro
50 55 60

Asn Pro Ala Pro Ala Lys Leu Leu Pro Ser Lys Lys Leu Lys Lys Leu
65 70 75 80

<210> 8830
<211> 31
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 8830

Lys Trp Arg Phe Leu Asn Lys Leu Trp Arg Phe Leu Lys Ser Cys Leu
1 5 10 15

Leu Ala Tyr Ala Leu Thr Arg Ala Arg Lys Ala Leu Glu Trp Ile
20 25 30

<210> 8831
<211> 32
<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8831

Phe Leu Arg Leu Leu Ser Arg Phe Leu Lys Met Phe Lys Lys Arg His
1 5 10 15

Ala Lys Ser Thr Ala Arg Leu His Asp Ile Lys Ala Lys Asp Thr Ile
20 25 30

<210> 8832

<211> 50

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8832

Lys Leu Arg Ile Phe His Lys Leu Leu Arg Arg Phe Arg Lys Leu Ala
1 5 10 15

Leu Lys Phe Leu Lys Lys Pro Ala Val Asn Gln His Tyr Lys Gly Thr
20 25 30

Leu Met Glu Arg Pro Lys Asp Leu Glu Leu Ala Leu Val Arg Val Gly
35 40 45

Ala Lys
50

<210> 8833

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8833

Arg Leu Lys Leu Leu Lys Lys Trp Trp Lys Phe Leu Arg Asn Lys Asp
1 5 10 15

Leu His Cys Ile
20

<210> 8834
 <211> 69
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8834

Lys Leu Arg Leu Met Lys Lys Met Phe Lys Ile Leu Asn Gln Val Lys
 1 5 10 15

Arg Arg Leu Gly Ala His Arg Gln Leu Lys Leu Leu Lys Trp Phe Lys
 20 25 30

Ser Lys Ala Gly Ala Ser Arg Arg Ala Met Trp Val Tyr Tyr Gly Ile
 35 40 45

Leu Ala Leu Arg Trp Gln Leu Ala Lys Leu Gln Gln His Lys Ile Arg
 50 55 60

Lys Ala Asn Leu His
 65

<210> 8835
 <211> 52
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8835

Arg Trp Lys Leu Trp Lys Lys Ile Phe Lys Arg Phe His Thr Leu Ala
 1 5 10 15

Arg Gln Ile Leu Lys Glu Ser Lys Ile Ala Asp Lys Ala Lys Arg Arg
 20 25 30

Phe Leu Trp Asn Leu Pro Ala Thr Cys Ala Thr Arg Tyr Leu Gly Leu
 35 40 45

Ala Ala Ala Glu
 50

<210> 8836

<211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8836

Met Leu Lys Phe Tyr Gln Arg Leu Trp Arg Trp Leu Lys Arg Arg Ile
 1 5 10 15

Asn Ala Pro Ala
 20

<210> 8837
 <211> 51
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8837

Lys Tyr Arg Leu Met Arg Lys Met Leu Lys Lys Phe Cys Cys Ser Leu
 1 5 10 15

Lys Leu Ala Gln His Val Ala Asn Leu Arg Lys Ala His Asn Ala Lys
 20 25 30

Ala Asp Pro Trp Ala Ala Tyr Ala Trp Arg Arg Cys Pro Asn Pro Lys
 35 40 45

Lys Arg Arg
 50

<210> 8838
 <211> 38
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8838

Arg Leu Arg Trp Tyr Gln Lys Trp Phe Lys Lys Met His Lys Ala Ala
 1 5 10 15

Leu Arg Leu Arg Leu Leu Ala His Lys Gln Lys Arg Trp Cys Val Pro

20

25

30

Thr Lys Leu Leu Leu Phe
35

<210> 8839
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 8839

Leu Leu Arg Met Leu Asn Lys Met Phe Lys Lys Leu Arg Asn Leu Arg
1 5 10 15

Ser Ile Thr Lys Ala Ser Ala Arg Pro Arg Ser Ala Arg Asn Leu Asn
20 25 30

<210> 8840
<211> 36
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 8840

Arg Tyr Arg Trp Trp Lys Arg Leu Leu Arg Leu Leu Arg His Cys Ser
1 5 10 15

Asn Glu Leu Arg Arg Ala Leu Leu Leu Leu Gln Cys Lys Arg Gly Ser
20 25 30

Glu His Gly Leu
35

<210> 8841
<211> 25
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 8841

Met Leu Lys Trp Leu Lys Arg Phe Leu Lys Arg Tyr Lys Lys Leu Pro

1 5 10 15

Glu Ile Asp Asn Ser Leu Val Leu Leu
20 25

<210> 8842
<211> 36
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 8842

Arg Leu Arg Phe Met Lys Arg Tyr Leu Arg Lys Trp Arg Ser Ala Leu
1 5 10 15

Cys Lys Ile Arg Glu Leu Leu Ile Arg Arg Ala Asp Gln Gly Glu Ala
20 25 30

Cys Leu Trp Ile
35

<210> 8843
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 8843

Lys Trp Arg Phe Leu Gln Arg Phe Ile Lys Leu Met Arg Lys Ala Ala
1 5 10 15

Lys Pro Asp Leu Met Leu Lys Pro Arg Lys Ala Leu Cys Leu
20 25 30

<210> 8844
<211> 36
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 8844

Lys Leu Arg Trp Phe Lys Arg Trp Leu Arg Leu Ile Thr Lys Arg Met

1 5 10 15

Ala Ala Gln His Val Ala Asn Leu Arg Ala Ala Gln Lys Arg Arg Lys
 20 25 30

Ser Ala His Leu
 35

<210> 8845
 <211> 97
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8845

Arg Leu Lys Trp Ile Lys Arg Leu Phe Arg Lys Leu His Arg His Ala
 1 5 10 15

Ala Cys Gln Glu Arg Ser Arg Gln Leu Ala Phe Leu Lys Tyr Leu Lys
 20 25 30

Thr Ala Thr Arg Thr Thr Lys His Ala Tyr Ala Ala Met Ile Glu Leu
 35 40 45

Lys Ala Val Thr Val Lys Asp Gly Ala Ala Asp Gly Tyr Arg Pro Ala
 50 55 60

Leu Thr Leu Leu Arg Leu Glu Trp Lys Leu Leu Glu Gly Ala Pro Lys
 65 70 75 80

Ala Arg Cys Ser Ala Glu Lys Lys Ala Val Phe Phe Lys Met Lys Arg
 85 90 95

Arg

<210> 8846
 <211> 50
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8846

Arg Leu Arg Leu Leu Arg Arg Leu Leu Lys Arg Leu Gln Gln Thr Leu
 1 5 10 15

Ala Pro His Phe Thr Ala Asp Gln Arg Arg Arg Leu Asn Arg Tyr Cys
 20 25 30

Val Ala Gly Ala Lys Glu Glu Pro Phe Ile Cys Ala Leu Ala Ile Lys
 35 40 45

Ala Thr
 50

<210> 8847
 <211> 92
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8847

Phe Trp Arg Phe Tyr Lys Arg Tyr Leu Lys Arg Tyr Pro Lys Lys Ala
 1 5 10 15

Met Ala Arg Arg Arg Ser Lys Met Phe Lys Ala Leu Asn Leu Tyr Tyr
 20 25 30

Leu Lys Ala Ile Ala Leu Tyr Asp Asn Asn Ala Ala Thr Gly Ser Ser
 35 40 45

Ala Cys Trp Asp Tyr Gln Ala Cys Ala Ser Leu Gln Gly Leu Leu Ala
 50 55 60

Lys Leu Arg Lys Lys Arg Val Lys Arg Arg Pro Phe Arg Ser Val Lys
 65 70 75 80

Phe Lys Lys Leu Leu Leu Thr Leu Leu Glu Met Lys
 85 90

<210> 8848
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8848

Ile Leu Arg Ile Ile Ser Arg Met Phe Arg Ile Leu Lys Arg Leu His
1 5 10 15

Ala Leu Thr Arg Leu Ala Lys Thr Lys Gly Leu Leu Ala Leu
20 25 30

<210> 8849

<211> 39

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8849

Arg Leu Lys Ile Leu Arg Lys Ile Ile Arg Phe Met Lys Lys Gly Tyr
1 5 10 15

Lys Val Arg Arg Arg Leu Cys Ala Ala Ala Leu Asp Trp His Cys Pro
20 25 30

Gly Asp Tyr Ala Lys Leu Leu
35

<210> 8850

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8850

Arg Phe Arg Leu Leu Asn Lys Ile Trp Arg Lys Phe Ser Arg Leu Leu
1 5 10 15

Glu Tyr Leu Met Ala
20

<210> 8851

<211> 43

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8851

Arg Leu Arg Tyr Met Asn Arg Tyr Phe Lys Arg Phe Cys Arg Trp Leu
1 5 10 15

Thr Trp Arg Val Leu Ile Leu Trp Arg Arg Ala Ala Thr Leu Ser Pro
20 25 30

Asn Arg Ala Trp Arg Leu Arg Leu Lys Lys Asp
35 40

<210> 8852

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8852

Tyr Phe Lys Met Leu Lys Arg Phe Trp Arg Lys Trp Arg His Ala Ala
1 5 10 15

Ala Ala Pro Ala Lys Asp Ala Gly Asp Lys His Asn Ala Ala Ala Thr
20 25 30

Lys Asp Gln Leu
35

<210> 8853

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8853

Lys Leu Arg Ile Ile Arg Lys Trp Leu Arg Lys Met Arg Cys Leu Leu
1 5 10 15

Lys Arg Ala Ala Leu Asn Leu
20

<210> 8854

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8854

Arg Tyr Lys Ile Leu Lys Arg Leu Tyr Arg Lys Phe Gln Lys Ala Tyr
1 5 10 15

His Gly Gln Leu Ala Ala Ser Leu Pro Arg Lys Ile
20 25

<210> 8855

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8855

Leu Met Arg Phe Tyr Ser Arg Leu Trp Lys Lys Phe Pro His Arg Arg
1 5 10 15

Ala Ala Pro Arg Asn Asp Ala Ala Lys Ala Cys Ala Ala Trp
20 25 30

<210> 8856

<211> 44

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8856

Tyr Leu Lys Tyr Phe Lys Lys Leu Leu Arg Leu Trp Lys His Arg Leu
1 5 10 15

Met Arg Gln Lys Lys His Glu Gly Glu Leu Ile Leu Ala Trp Lys Leu
20 25 30

Arg Leu Leu Ile Ala Arg Trp Asp Lys Leu Cys Arg
35 40

<210> 8857

<211> 75

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8857

Leu Leu Arg Leu Phe Pro Arg Leu Tyr Arg Arg Leu Pro Lys Phe Arg
1 5 10 15

Leu Gln Gly Ala Cys Lys Arg Trp Cys Ala Pro Leu Arg Lys Lys Lys
20 25 30

Leu Asp His Ser Gln Asp Gln Glu Lys Asp Gln Leu Asp Thr Leu Trp
35 40 45

Lys Thr Ala Phe Ile Leu Trp Ala Lys Ile Lys Glu Ala Glu Leu Ala
50 55 60

Leu Lys Met Lys Ala Gly Leu Gln Leu Arg Leu
65 70 75

<210> 8858

<211> 31

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8858

Leu Phe Lys Phe Tyr Arg Arg Leu Leu Arg Lys Phe Arg Cys Lys Arg
1 5 10 15

Ala Leu Leu Asp Ile Phe Leu Thr Lys Ala Val Ala Tyr Glu Thr
20 25 30

<210> 8859

<211> 39

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8859

Arg Trp Lys Leu Trp Lys Lys Leu Leu Lys Leu Tyr Lys His Lys Asn
1 5 10 15

Val Leu Gln Arg Leu Leu Ala Glu Ala Arg Arg Ile Leu Gln Lys Leu
 20 25 30

Lys Gly His Lys Lys Leu Arg
 35

<210> 8860

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8860

Leu Phe Arg Leu Leu Arg Lys Tyr Leu Lys Met Ile Arg Arg Met Arg
 1 5 10 15

Pro Ser Leu Thr
 20

<210> 8861

<211> 38

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8861

Arg Phe Arg Leu Leu Lys Arg Met Leu Arg Leu Phe Arg Cys Ala Asp
 1 5 10 15

Arg Leu Asn Lys Arg Ala Thr Tyr Asn Leu Ile Gln Gly Leu Leu Ala
 20 25 30

Lys Ser Arg Arg Lys Thr
 35

<210> 8862

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8862

Met Phe Arg Ile Leu Lys Arg Leu Phe Lys Arg Leu Arg Thr Lys Leu
 1 5 10 15

Gly Cys Leu Ala Lys His Leu Leu Ala Met
 20 25

<210> 8863
 <211> 42
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8863

Arg Leu Lys Met Leu Arg Lys Phe Leu Arg Lys Trp Thr Arg Ala Ser
 1 5 10 15

Phe Lys Ala Ala Gly Ala Ala Lys Gln His Leu Cys Trp Met Ala Ala
 20 25 30

Ser Pro Arg Tyr Arg Arg Val Thr Ile Lys
 35 40

<210> 8864
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8864

Arg Leu Arg Tyr Leu Lys Arg Trp Leu Lys Lys Leu Pro His Pro Asp
 1 5 10 15

Arg Phe Thr Trp Ala Ala Lys Ala Ala Ala Trp Gln Lys Asp
 20 25 30

<210> 8865
 <211> 37
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8865

Phe Leu Lys Tyr Phe Arg Lys Ile Leu Lys Leu Phe Asn Asn His Ala
 1 5 10 15

Ala Trp Arg Thr Lys Leu Lys Asn Ile Leu Leu Ala Ser Trp Leu His
 20 25 30

Leu Leu Lys Arg Lys
 35

<210> 8866
 <211> 41
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8866

Lys Trp Lys Met Ile Cys Arg Ile Tyr Arg Arg Leu Ser Lys Arg Gly
 1 5 10 15

Arg Ala Leu Pro Ala Arg Ala Leu Lys Ala Ile Thr Val Pro Met Phe
 20 25 30

Val Thr Arg Ala Glu Arg Ala Arg Ala
 35 40

<210> 8867
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8867

Lys Met Arg Phe Leu Arg Arg Phe Leu Arg Arg Leu Arg Cys Tyr Ile
 1 5 10 15

Thr His Ala Ala
 20

<210> 8868
 <211> 66
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8868

Leu Leu Lys Tyr Met Arg Lys Leu Trp Lys Leu Ile Ser Ser Gly Arg
 1 5 10 15

Ala Ala Glu His Arg Leu Ile Val Lys Arg Leu Met Arg Leu Ser Ala
 20 25 30

Ala Leu Glu Ala Arg Lys Tyr Thr Phe Gln Arg Asp Cys Leu Ala Gln
 35 40 45

His Ile Arg Arg Lys Met Gly Ala Leu Cys Tyr Ala Ile Lys Lys Lys
 50 55 60

Thr Lys
 65

<210> 8869

<211> 99

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8869

Trp Ile Lys Leu Trp Arg Lys Leu Phe Lys Phe Leu Arg Lys Thr Arg
 1 5 10 15

Leu Leu Ser Pro His Ala Arg Thr Ala Lys Lys Tyr Ala Arg Pro Ala
 20 25 30

Cys Val His Tyr Arg Ala Phe Leu Leu Met Ala Met Glu Asn Arg Pro
 35 40 45

Arg Lys Ile Ala Gly Tyr Glu Leu Asn Asn Ala Leu Lys Asp Arg Gln
 50 55 60

Met Tyr Lys Leu Ala Arg Lys Lys Ser His Thr Arg His Lys Phe Arg
 65 70 75 80

Arg Cys Phe Thr Ala Ile Leu Thr Pro Lys Leu Ala Arg Arg Ala Lys
 85 90 95

Leu Arg Ser

<210> 8870
 <211> 78
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8870

Lys Leu Arg Ile Met Lys Arg Leu Leu Arg Leu Leu Gln Lys Ile Ala
 1 5 10 15

Ala Gln Val His Trp Lys Asn Ala Leu Lys Lys Lys Ser Ala Leu Arg
 20 25 30

Leu Leu Arg Leu Leu Ile Gln Phe Lys Ala Leu Val Ala Leu Arg Val
 35 40 45

Leu Trp Trp Ala Val Ala Thr Tyr Arg Lys Ile Glu Phe Ala Gln Ala
 50 55 60

Gly Gly Leu Met Lys Phe Lys Ala Lys Ala Asn Lys Lys Arg
 65 70 75

<210> 8871
 <211> 26
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8871

Met Tyr Lys Tyr Leu Ser Arg Leu Met Arg Trp Leu Gln Ser Ala Arg
 1 5 10 15

Leu Leu Ala Arg Leu Phe Lys Cys Arg Arg
 20 25

<210> 8872
 <211> 65
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8872

Lys Tyr Lys Ile Leu Arg Lys Leu Leu Lys Met Leu Lys Lys Pro Lys
 1 5 10 15

Lys Met Asn Leu Trp Lys Leu Ala Met Ser Ala Gln Lys Met Ser His
 20 25 30

Arg Met Leu Lys Arg Thr Ala Ser Ile Arg Ile Thr Ala Asn Lys Ala
 35 40 45

Lys Cys Val Ser Lys Arg Gln Ala Arg Arg Leu Leu Gln Lys Met Phe
 50 55 60

Ala
 65

<210> 8873

<211> 82

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8873

Lys Trp Lys Ile Leu Lys Arg Leu Leu Lys Phe Tyr Arg Gln Ala Asp
 1 5 10 15

Cys Gly Ile Leu Phe Leu Lys Ala Cys Ala Lys Ala Leu Lys Thr Leu
 20 25 30

Lys Ile Leu Leu Lys Asp Arg Pro Cys Arg Lys Phe Ile Ala Leu Lys
 35 40 45

His Lys Lys Val Phe Tyr Asp Arg Gln Arg Arg Leu Gln Pro Lys Gln
 50 55 60

His Trp Lys Ala Met Ile Ala Ile Pro Lys Ala Ala Ile Lys His His
 65 70 75 80

Lys Lys

<210> 8874
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8874

Leu Leu Arg Phe Phe Pro Lys Leu Leu Arg Met Phe Thr Lys Ala Gly
 1 5 10 15

Ala Arg Gly Arg
 20

<210> 8875
 <211> 38
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8875

Leu Trp Arg Leu Ile Lys Arg Phe Phe Lys Lys Ile His Lys Leu Leu
 1 5 10 15

Asn Thr Arg Glu Pro Ala Leu Leu Thr Leu Lys Leu Arg Lys Arg Ala
 20 25 30

Asp Arg Arg Met Ala Pro
 35

<210> 8876
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8876

Leu Leu Lys Phe Leu Lys Lys Leu Leu Arg Phe Leu Lys Lys Lys Lys
 1 5 10 15

Leu Cys Ser Ala Gln Gln Arg Ala Cys Ala Val Asp Lys Val
 20 25 30

<210> 8877
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8877

Lys Leu Arg Ile Trp Asn Arg Leu Trp Arg Arg Phe Asn Lys Leu Leu
 1 5 10 15

Leu Phe Leu Leu Ser Lys Ile Ala Leu Ala Thr Gly Arg Cys Thr Tyr
 20 25 30

Arg Lys Leu Lys
 35

<210> 8878
 <211> 74
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8878

Leu Phe Lys Leu Leu Thr Arg Tyr Leu Arg Arg Leu Arg Lys Lys Lys
 1 5 10 15

Lys Leu Tyr Gly Leu Ala Asp Thr Ile Ala Ile Leu Lys Met Gly Asn
 20 25 30

Asp Leu Lys Lys Asp Gln Ala Asn Ser Trp Arg Arg Arg Lys Ala Lys
 35 40 45

Ser Glu His Asp Leu Arg Leu Ala His Val Lys Ser Leu Val Ala Lys
 50 55 60

Ile Leu Ala Met Asn Val Val His Ala Cys
 65 70

<210> 8879
 <211> 49
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8879

Met	Ile	Lys	Leu	Ile	Lys	Lys	Leu	Ile	Lys	Arg	Ile	Gln	Lys	Asn	Met
1				5					10					15	

Lys	Tyr	Ser	Lys	Cys	Pro	Arg	Gln	Ala	Val	Lys	Asp	Ala	Ala	Leu	Ala
			20					25						30	

Leu	Ala	Tyr	Glu	Ala	Lys	Lys	Ala	Arg	Pro	Lys	His	Leu	His	Arg	Ala
		35					40					45			

Glu

<210> 8880

<211> 56

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8880

Lys	Leu	Lys	Met	Phe	Lys	Arg	Ile	Leu	Lys	Leu	Phe	Arg	Arg	Ala	Ala
1				5					10					15	

Ala	Ala	Cys	Lys	Ala	Arg	Val	Ile	Ala	Leu	Ile	Lys	Leu	Asn	Cys	Glu
			20					25					30		

Ser	Glu	Gly	His	Ala	Met	Pro	Arg	Met	Gln	Arg	Ile	Ala	Arg	Leu	Ala
		35					40					45			

Leu	Cys	Leu	Lys	Val	Lys	Asn	Cys
	50					55	

<210> 8881

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8881

Tyr Met Arg Leu Tyr Ser Arg Met Leu Lys Ile Ile Lys Lys Asn Leu

1 5 10 15

Asn Ala Val Ala Thr Lys Leu Ala His Lys Cys Lys Ala
20 25

<210> 8882
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 8882

Ile Ile Lys Ile Leu Cys Lys Leu Leu Lys Ile Leu Arg Lys Trp Leu
1 5 10 15

Thr Ala Ile Tyr Lys Leu Met Lys His Arg Leu Ala His Met
20 25 30

<210> 8883
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 8883

Lys Tyr Lys Phe Leu Pro Arg Leu Phe Lys Leu Ile Arg Arg Lys Leu
1 5 10 15

Asp Arg His Ser Ala Trp Leu Lys Ala Ile Thr Gly Ala Lys Lys Leu
20 25 30

<210> 8884
<211> 100
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 8884

Arg Tyr Lys Met Leu Arg Arg Ile Met Arg Arg Leu Thr Lys Lys Phe
1 5 10 15

Ala Trp Cys Trp Met Leu Pro Arg Arg Glu Arg Ala Lys Lys Arg Ala

Ile Phe Lys Leu Leu Lys Lys Phe Leu Arg Arg Leu Thr Cys Gln Gln
1 5 10 15

Pro Lys Arg Leu Ala Tyr Cys
20

Arg Phe Arg Tyr Tyr Arg Arg Trp Tyr Lys Lys Trp Lys Lys Leu Ile
1 5 10 15

Ala Gly Ile Leu Ala Ala Arg Asp Asn Arg Arg Ser Trp Lys Ala Leu
20 25 30

Tyr Ile Lys Leu Leu Ile Lys Ala Trp Ala Asn Cys Arg Leu Tyr Asp
 35 40 45

Met

<210> 8887

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8887

Lys Leu Arg Leu Ile Lys Arg Leu Tyr Lys Arg Ile Cys Cys Thr Ala
 1 5 10 15

Ala Val Lys Met Lys Ile Trp Ala Val Gln Val Leu Lys Ala Leu Gln
 20 25 30

His Ala

<210> 8888

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8888

Arg Leu Arg Phe Phe Arg Arg Leu Leu Arg Leu Leu His Arg Met Leu
 1 5 10 15

Lys Tyr Ala Thr Tyr Met Asp Tyr Asp
 20 25

<210> 8889

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8889

Lys Leu Arg Leu Phe Arg Lys Tyr Leu Arg Lys Met Arg Arg Phe Lys
 1 5 10 15

Ser Arg Thr Ala Ala Ala Ala Leu Asn Met
 20 25

<210> 8890

<211> 47

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8890

Trp Phe Arg Tyr Leu His Arg Leu Met Arg Leu Leu Asn Lys Arg Ala
 1 5 10 15

Arg Ala Gly Ala Gly Ala Trp Met Glu Arg Ser Thr Ile Ala Val Leu
 20 25 30

Arg Cys Leu Arg Leu Arg Ala Asn Ala Cys Tyr Tyr Lys Glu Ala
 35 40 45

<210> 8891

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8891

Leu Tyr Arg Leu Tyr Arg Lys Leu Met Lys Phe Leu Arg Lys Ala Leu
 1 5 10 15

Leu Val Asn Arg Ile Thr Glu His Ala Ile Leu Lys Arg Ser Lys Tyr
 20 25 30

Gln Ala

<210> 8892

<211> 67

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8892

Phe	Phe	Lys	Met	Ile	Ser	Lys	Phe	Tyr	Lys	Lys	Ile	Lys	Ser	Gln	Phe
1				5					10					15	

Ala	Leu	Leu	Leu	Leu	Arg	Lys	Lys	Cys	Ala	Asp	Met	Ala	Arg	Leu	Arg
			20					25					30		

Phe	Cys	Gly	Leu	Val	Ala	Ala	Phe	Ser	Asn	Thr	Arg	Cys	Leu	Trp	Arg
		35					40					45			

Ala	His	Leu	Ser	His	Arg	Ala	Arg	Arg	Arg	Thr	Ala	Lys	Lys	Asp	Leu
	50					55					60				

Val	Leu	Leu
65		

<210> 8893

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8893

Trp	Ile	Arg	Met	Leu	Lys	Arg	Leu	Leu	Lys	Leu	Phe	Arg	Lys	Ala	Ile
1				5					10					15	

Ala	Trp	Glu	Gln
		20	

<210> 8894

<211> 68

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8894

Leu	Trp	Lys	Tyr	Phe	Lys	Arg	Met	Trp	Arg	Arg	Leu	Arg	Arg	Ala	Trp
1				5				10						15	

Gln	Gly	Leu	Lys	Leu	Arg	Tyr	Leu	Trp	Lys	Arg	Gly	Ala	Ala	Leu	Ala
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

20

25

30

Ala Gly Tyr Leu Lys Ala Arg Cys Arg Ile Ala Lys Ala Gln Ala Ile
 35 40 45

Met Lys Leu Lys Tyr His Arg Arg Ala Lys Gly Gly Thr Gly Phe Ala
 50 55 60

His Val Ile Met
 65

<210> 8895
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8895

Met Phe Lys Leu Phe Lys Lys Tyr Leu Lys Lys Met Arg Gln Ala Leu
 1 5 10 15

Lys Leu Ala Lys Lys Ala His Arg Phe Leu Glu Cys Glu Asp
 20 25 30

<210> 8896
 <211> 38
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8896

Lys Leu Lys Tyr Tyr His Lys Ile Met Arg Leu Leu Gln Arg Leu Ala
 1 5 10 15

Lys Leu Lys Arg Trp Thr Arg Arg Val Phe Gly Ala Val Gly Asp His
 20 25 30

Ala Leu Leu Lys His Leu
 35

<210> 8897
 <211> 41
 <212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8897

Met Ile Lys Leu Ile Arg Lys Tyr Trp Lys Arg Leu Arg Arg Pro Thr
1 5 10 15

Cys Lys His Leu Ala Leu Arg Ala Met Arg Leu Lys Thr Leu Lys Ile
20 25 30

Arg Leu Leu Ala Arg Tyr Phe Ala Cys
35 40

<210> 8898

<211> 64

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8898

Leu Trp Lys Phe Ile Asn Arg Leu Leu Arg Arg Phe His Arg His Lys
1 5 10 15

Leu Asp Phe Arg Leu Val Leu Cys Cys Met Leu Lys Arg Lys Leu Gln
20 25 30

Arg Ala Asn Arg Tyr Val Leu Trp Trp Met Ile Lys Asp Arg Lys Ile
35 40 45

Leu Trp Lys Arg Leu Asp Leu Asp Ala Pro Glu Lys Ala Arg Arg Ala
50 55 60

<210> 8899

<211> 70

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8899

Leu Leu Arg Phe Leu Arg Lys Leu Leu Lys Arg Tyr Arg Arg Pro Pro
1 5 10 15

Glu Arg Lys Asp Leu Glu Ala Ala Asn Cys Thr Thr Leu Gly Lys Ala
 20 25 30

Gly Leu Asn Leu Ala Arg Met Arg His Arg Phe Ala Arg Ala Leu Met
 35 40 45

Ala Glu Lys His Ala Tyr Leu Asp Thr Ile Arg Val Asp Arg Leu Ala
 50 55 60

Phe Leu Lys Thr Asn Val
 65 70

<210> 8900
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8900

Lys Leu Lys Leu Leu Arg Arg Leu Leu Lys Arg Phe His Pro Thr His
 1 5 10 15

Asp Thr Cys Met Leu
 20

<210> 8901
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8901

Tyr Leu Arg Leu Met Lys Lys Trp Phe Lys Lys Ile His Lys Ala Lys
 1 5 10 15

Phe Leu Ala Phe Ile His Leu Asp Ala Val Leu Leu Asp
 20 25

<210> 8902
 <211> 82
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8902

Arg	Leu	Lys	Leu	Leu	Arg	Lys	Phe	Trp	Lys	Lys	Leu	Cys	Lys	Ala	Glu
1				5					10					15	

Arg	Phe	Ala	Gly	Ala	Val	Ala	Lys	Lys	Ser	Thr	Ser	Leu	Lys	Asn	Ile
			20					25					30		

Ala	Arg	Leu	Ala	Thr	Ala	Arg	Trp	Trp	Arg	Arg	Ser	Gln	Ile	Lys	Ser
		35					40					45			

Arg	Ile	Phe	Lys	Ala	Ala	Lys	Lys	Ala	Asn	Glu	Cys	Trp	Phe	Arg	Tyr
	50					55					60				

Ser	Ala	Ala	Tyr	Gln	Ile	Leu	Glu	Lys	Arg	Lys	Leu	Pro	Pro	Leu	Phe
65					70					75					80

Lys Val

<210> 8903

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8903

Leu	Met	Lys	Leu	Phe	Lys	Lys	Leu	Phe	Arg	Arg	Met	Gln	Lys	Arg	Asp
1				5					10					15	

Arg	Gly	Ser	Leu	Leu	Cys	Leu	Met	Ala	Lys	Ala	Ala	Glu	Thr	Ala	Leu
			20					25					30		

Lys

<210> 8904

<211> 49

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8904

Arg Leu Lys Leu Met Arg Lys Trp Ile Lys Lys Leu Arg Lys Ala Arg
 1 5 10 15

Thr Ala Ala Phe Leu Leu Leu Trp Cys Arg Phe Glu Ala Leu Pro Pro
 20 25 30

Tyr Lys Tyr His Arg Tyr Pro Asp Lys Leu Lys Lys Tyr Arg Leu Leu
 35 40 45

Phe

<210> 8905

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8905

Lys Leu Lys Leu Leu Thr Arg Leu Ile Arg Leu Leu Arg Arg Leu Lys
 1 5 10 15

Ala Arg Trp Gln Ala Arg Ile Leu Phe Ala Lys Lys Ala Val Leu Gly
 20 25 30

Met Leu

<210> 8906

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8906

Leu Phe Lys Leu Ile Lys Lys Leu Phe Arg Phe Leu Gln Lys Val Tyr
 1 5 10 15

Lys Ala Ala Ala Gly Lys Asn Tyr Tyr Lys Arg Arg Gln Val Leu Asn
 20 25 30

Ala

<210> 8907
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8907

Leu Phe Arg Leu Trp Cys Lys Met Leu Arg Lys Leu His Lys Ala Leu
 1 5 10 15

Asn Leu Arg Ala Lys Trp Met Gly Tyr Thr Ala Cys Lys Lys Ile Met
 20 25 30

Leu

<210> 8908
 <211> 64
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8908

Arg Leu Lys Ile Phe Ser Lys Leu Leu Arg Met Phe Lys Lys Asp Arg
 1 5 10 15

Arg Leu Glu Asn Leu Gln Lys Met Leu Arg Trp Ala Arg Leu Arg Lys
 20 25 30

Glu Val Gly Leu Arg Lys Ile Ala Pro Ala Cys Met Ala Ala Arg Ala
 35 40 45

Met Arg Thr Ala Lys Lys Gln Leu Cys Arg Asp Leu Ala Cys Thr Thr
 50 55 60

<210> 8909
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8909

Arg Trp Arg Trp Phe Arg Arg Leu Leu Arg Arg Met Lys Thr Leu Ala
 1 5 10 15

Leu Lys Val Ala Gly
 20

<210> 8910

<211> 47

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8910

Arg Leu Arg Leu Trp Arg Lys Phe Phe Lys Phe Met Arg Arg Leu Ile
 1 5 10 15

Leu Arg Pro Lys Lys Phe Met Arg Ser Ala Ala Leu Lys Leu Gly Glu
 20 25 30

Pro Arg Gln Arg Gln Ile Gln Leu Ala Met Leu Lys Thr His His
 35 40 45

<210> 8911

<211> 83

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8911

Lys Leu Lys Leu Phe Lys Arg Phe Leu Arg Arg Trp Arg Lys Phe Met
 1 5 10 15

Gly Gly Lys Arg Lys Ala Asn Ala Met Ile Asp Met Ile Met Arg Leu
 20 25 30

Leu Leu Leu Pro Trp Arg Arg Trp Ala Val Arg Lys Pro Pro Lys Glu
 35 40 45

Arg Asn Arg Trp Lys Leu Lys Glu Leu Ala Gln Lys Lys Leu Trp Leu

50

55

60

Arg Ala Leu His Leu Ala Gly Leu Arg His Ala Trp Pro Cys Leu His
 65 70 75 80

Lys Tyr Thr

<210> 8912

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8912

Leu Phe Lys Leu Leu Lys Lys Trp Leu Lys Tyr Leu Arg Cys Met Leu
 1 5 10 15

Cys Arg Glu Ala Lys Phe Leu Ala Ala Pro Arg Asn Asp Leu Ala Arg
 20 25 30

Trp Ala Gly Thr Asn Ser Gln Trp
 35 40

<210> 8913

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8913

Leu Met Arg Leu Leu Gln Arg Ile Leu Lys Arg Met Lys Lys Ala Val
 1 5 10 15

Ile Arg Thr His Arg Leu Leu
 20

<210> 8914

<211> 45

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8914

Arg	Leu	Arg	Phe	Phe	Cys	Arg	Leu	Leu	Lys	Lys	Phe	Thr	Lys	Gly	Ala
1				5					10					15	

Ala	Met	Asn	Thr	Leu	Asn	Lys	His	Lys	Leu	Asn	Glu	Phe	Cys	Gly	Arg
			20					25					30		

Ser	Leu	Leu	Lys	Ile	Lys	Ala	Trp	Ala	Ala	Gln	Lys	Arg
	35						40					45

<210> 8915

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8915

Trp	Leu	Lys	Phe	Leu	Arg	Lys	Trp	Trp	Arg	Ile	Leu	Arg	Arg	Trp	Leu
1				5					10					15	

Leu	Thr	Ala	Arg	His	Asn	Lys
				20		

<210> 8916

<211> 51

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8916

Arg	Phe	Lys	Leu	Phe	Pro	Arg	Leu	Leu	Arg	Lys	Phe	Lys	Arg	Lys	Arg
1				5					10					15	

Cys	Arg	Ala	Leu	Leu	Ala	Met	Ile	Gly	Arg	Pro	Cys	Lys	Ala	Gly	Leu
			20					25					30		

Pro	Ala	Ala	Pro	Gln	His	Lys	Asp	Val	His	Arg	Thr	Leu	Leu	Arg	Leu
			35				40					45			

Gln	Ile	Ile
	50	

<210> 8917
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8917

Arg Leu Lys Phe Phe Cys Arg Phe Leu Arg Arg Trp Arg Arg Leu Glu
 1 5 10 15

His Lys His Leu Leu Leu Ile Ala Thr Thr Ala Lys
 20 25

<210> 8918
 <211> 80
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8918

Lys Leu Lys Leu Phe Lys Lys Ile Met Lys Arg Leu Cys Thr Arg Ile
 1 5 10 15

Leu Thr Arg Ala Gly Pro Ala Arg Val Glu Ala Tyr Asn Met Ala Leu
 20 25 30

Leu Arg Lys Trp Lys Asn Pro Val Phe Val Trp Arg Arg Asp Asp Leu
 35 40 45

Lys Arg Arg Lys His Asp Phe Leu Leu Leu Ala Tyr Ala Ser Lys Asp
 50 55 60

Ala His Lys Leu Leu Asn Ala Ala Tyr Tyr His Arg Leu Cys Arg Gln
 65 70 75 80

<210> 8919
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8919

Tyr Leu Arg Leu Leu Cys Arg Ile Leu Lys Phe Leu Arg Ser Ile Trp
 1 5 10 15

Asn Lys Met Gly Ala Val Arg Arg Leu Arg Leu Arg Lys Lys Ala Ala
 20 25 30

Arg Leu Gln
 35

<210> 8920
 <211> 86
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8920

Leu Phe Lys Tyr Leu Arg Arg Leu Trp Arg Met Tyr Arg Arg Ala Asp
 1 5 10 15

Lys Leu Arg Met Cys Leu Lys Leu Gln Met Asn Lys Lys Leu Lys Asn
 20 25 30

Gly Ala Trp Arg Lys Lys Cys Leu Asn Gln Met Ala Pro Leu Ile Ala
 35 40 45

Ala Glu Arg His Ala Leu Arg Ile Lys Phe Phe Arg Ala Lys Arg Trp
 50 55 60

Leu Thr Ser Trp Arg Ala Ala Ala Lys Val Arg Met Ile Met Cys Phe
 65 70 75 80

Arg Ala Gly Met Ser Arg
 85

<210> 8921
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8921

Arg Leu Lys Phe Met Pro Arg Leu Phe Lys Phe Leu Gln Thr Ala Arg

1 5 10 15

Cys Lys Ala Leu Leu Asn Arg Ile Arg Leu Leu Thr Leu Phe
20 25 30

<210> 8922
<211> 24
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 8922

Lys Leu Arg Leu Phe Thr Arg Leu Phe Arg Arg Phe Pro Arg Phe Trp
1 5 10 15

Leu Asp Asp Ala Ile Lys Ala Lys
20

<210> 8923
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 8923

Met Ile Lys Phe Leu His Arg Leu Leu Arg Leu Phe Arg Arg His Lys
1 5 10 15

Ala Lys Lys Ala Asp Trp Ser Tyr Lys Arg Ala Ala Tyr Gln Cys Leu
20 25 30

Ala Leu Arg Ala Leu Tyr Ala Phe
35 40

<210> 8924
<211> 49
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 8924

Tyr Leu Arg Met Ile Ser Lys Leu Ile Arg Leu Leu Asn Gln Lys Glu

Gly

Trp Leu Lys Leu Met Lys Arg Leu Tyr Arg Arg Met Lys Lys Leu Met
1 5 10 15

Trp Met Pro Gln Arg Ala Lys Lys Asp Ala Lys Glu Tyr Ile Leu Lys
 20 25 30

Arg Ser Gly Asn Leu Leu Ser Leu Asn
 35 40

<210> 8927

<211> 41

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8927

Lys Leu Lys Leu Ile Lys Arg Leu Tyr Lys Lys Ile Arg Arg Ala Gly
 1 5 10 15

Ala Gln Ala Val Pro Trp Ala Glu Leu Thr Trp Leu Leu Glu Leu Cys
 20 25 30

His Leu Ala Phe Phe Lys Met Cys Lys
 35 40

<210> 8928

<211> 37

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8928

Arg Leu Lys Trp Leu Ser Arg Leu Met Arg Lys Leu Arg Arg Arg Ala
 1 5 10 15

Leu Ser Arg Ala Val Leu Ser Cys Asp Ala Ala Trp Val Trp Leu His
 20 25 30

Arg Pro Arg His Tyr
 35

<210> 8929

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8929

Leu	Trp	Lys	Trp	Trp	Asn	Lys	Leu	Leu	Lys	Lys	Phe	Lys	Cys	Asn	Ile
1				5					10					15	

Leu	Lys	Leu	Leu	Leu	Gln	Tyr	Ala	Thr	Lys	Glu	Phe	Ile	Arg	Ile	Leu
			20					25					30		

Arg	Arg	Lys
		35

<210> 8930

<211> 42

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8930

Arg	Leu	Arg	Phe	Ile	Pro	Lys	Leu	Leu	Arg	Ile	Leu	Arg	Gln	Leu	Gly
1				5					10					15	

Ile	Lys	Ala	Leu	Lys	Ala	Glu	Lys	Thr	Arg	Arg	Arg	Asp	Ala	Lys	Ala
			20					25					30		

Gly	Ala	Gly	Tyr	Trp	Pro	Leu	Ala	Lys	Arg
		35				40			

<210> 8931

<211> 59

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8931

Arg	Leu	Lys	Phe	Leu	Arg	Arg	Phe	Leu	Lys	Ile	Phe	Ser	Cys	Val	Cys
1				5					10					15	

Lys	Asn	Thr	Lys	Gly	Ala	Lys	Lys	Tyr	Asn	Asp	Leu	Leu	Ala	Arg	Val
			20					25					30		

Ala	Ala	Arg	Asn	Leu	Arg	Leu	Val	Asn	Lys	Tyr	Lys	Arg	Arg	Asp	Arg
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

35

40

45

Ile Ser Leu Gly Pro Ala Leu Lys Asp Ile Ala
 50 55

<210> 8932
 <211> 27
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8932

Leu Leu Arg Trp Phe Arg Lys Ile Ile Arg Tyr Leu Arg Pro Ala Arg
 1 5 10 15

Lys Ser Glu Leu Cys Lys Leu Ala Leu Leu Lys
 20 25

<210> 8933
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8933

Arg Met Lys Tyr Leu Lys Arg Leu Tyr Lys Phe Ile Arg Asn Pro Arg
 1 5 10 15

Lys Asp Tyr Ile Leu Arg Ile Leu Glu Ser Leu Asn Arg Ala Leu Ala
 20 25 30

Asn Leu Ala
 35

<210> 8934
 <211> 43
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8934

Tyr Leu Arg Trp Leu Gln Lys Leu Leu Arg Phe Ile Lys Arg Phe Arg

Met Ala Lys Tyr Arg Arg Lys Tyr Leu Thr Leu Gly Ala Cys Asn Phe
20 25 30

Pro Cys Thr Ala Lys Leu Arg Trp Leu Lys Trp
35 40

<210>	8935
<211>	25
<212>	PRT
<213>	Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 8935

Leu Phe Arg Trp Leu Arg Arg Phe Leu Lys Arg Leu Arg Ser Ala Leu
1 5 10 15

Gln Pro Phe Arg Arg Glu Lys Leu Ala
20 25

<210>	8936
<211>	40
<212>	PRT
<213>	Artificial Sequence

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<220>
<223> Computer-generated peptide variant
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<400> 8936

Phe Leu Arg Leu Trp Lys Arg Tyr Trp Arg Phe Trp Lys Lys Ser Ala
1 5 10 15

Cys Arg Leu Ala Arg His Leu Asn Leu Arg Ala His Arg Gln Leu Leu
20 25 30

Ala Leu Ser Ala His Gln Trp Asn
35 40

<210>	8937
<211>	27
<212>	PRT
<213>	Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 8937

Arg Tyr Lys Tyr Tyr Arg Lys Phe Leu Arg Leu Tyr Lys His Tyr Arg
1 5 10 15

Ala Ala Ala Gln Leu Ser Val Asn Tyr Ala Ala
20 25

<210> 8938

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8938

Leu Trp Arg Met Met His Arg Ile Leu Arg Ile Trp Arg Lys Ala Pro
1 5 10 15

Ala Ala Arg Arg Glu
20

<210> 8939

<211> 43

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8939

Lys Leu Arg Ile Phe Lys Lys Trp Trp Arg Tyr Phe Arg Lys Ile Ser
1 5 10 15

Leu Val Trp Lys Lys Ala Arg Ser Glu Phe Gln Arg Ala Arg Leu Cys
20 25 30

Leu Ala Val Leu Asp Lys Leu Tyr Cys Leu Leu
35 40

<210> 8940

<211> 56

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8940

Lys	Phe	Arg	Ile	Phe	Arg	Arg	Tyr	Leu	Arg	Lys	Tyr	Arg	Lys	Arg	Ala
1				5				10						15	

Gln	Pro	Ala	Ile	Ala	Met	His	Gly	Lys	Cys	Lys	Leu	Leu	Cys	Leu	Ala
			20					25					30		

Arg	Arg	Asp	Glu	Phe	His	Met	Glu	Leu	Tyr	Arg	Ala	His	Leu	Arg	Ala
		35					40					45			

Ala	Trp	Ala	Cys	Leu	Leu	Leu	Ser
50						55	

<210> 8941

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8941

Tyr	Phe	Arg	Leu	Tyr	Lys	Lys	Phe	Met	Lys	Trp	Ile	Lys	Ser	Leu	Cys
1				5				10						15	

Lys	Leu	Ala	Leu	Arg	Leu	Gln	Cys	Arg	Gln	Ala	Leu	Ala	Ala	Gly	Ala
			20					25					30		

Ala	Arg	Leu	Lys	Lys	Gly	Leu	Met
		35				40	

<210> 8942

<211> 38

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8942

Arg	Leu	Lys	Phe	Leu	Lys	Lys	Leu	Leu	Lys	Ile	Phe	His	Lys	Leu	Glu
1				5				10						15	

Ala	Gly	Lys	Ala	Lys	Arg	Met	Lys	Ser	Cys	Arg	Cys	Leu	Leu	Ala	Arg
			20					25					30		

Ala Lys Ala Lys Glu Val
35

<210> 8943
<211> 90
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 8943

Lys Leu Arg Ile Phe Ser Lys Leu Phe Lys Phe Leu His Arg Ala Ala
1 5 10 15

Arg Glu Asp Thr Leu Leu Ala Cys His Lys Phe Cys Ala Tyr Ala Leu
20 25 30

Thr Tyr Leu Asn Ala Gly Arg Trp Leu Arg Arg Ala Tyr Leu Arg Val
35 40 45

Leu Gly Gly Arg Val Ala Thr Gly Arg Lys Lys His Ala Lys Val Arg
50 55 60

Ala Tyr Arg Tyr Lys Lys Leu Phe Arg Ala Lys Leu Arg Val Ala Phe
65 70 75 80

Met Phe Asn Gln Ala Arg Arg Val Trp Cys
85 90

<210> 8944
<211> 46
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 8944

Leu Ile Arg Trp Ile Lys Lys Leu Leu Lys Phe Trp Lys Asn Asp Pro
1 5 10 15

Trp Ala Ala Trp Leu Ala Lys Ala Lys Ala Lys Arg Leu Ala Tyr Gly
20 25 30

His Thr Leu Asp Gly Phe Arg Ala Arg Lys Leu Gln Ser Pro

35

40

45

<210> 8945

<211> 94

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8945

Arg Tyr Lys Phe Leu His Lys Met Tyr Arg Lys Leu Lys Gln His Leu
 1 5 10 15

Ile Ala Trp Gly Leu Ala Arg Cys Leu Pro Asn Arg Ile Arg Ile Met
 20 25 30

Leu Val Leu Arg Gln Arg Tyr Ala Pro Leu Trp Phe Leu Met Lys Leu
 35 40 45

Ala Arg Lys Arg Ala Lys Asn Phe Ala Ala Leu Arg Arg Thr Tyr Ala
 50 55 60

Ala Ala Trp Arg Asn Arg His Tyr Met Leu Arg Ala Val Arg Gln Glu
 65 70 75 80

Met Asp Gln Leu Ala Arg Asn Lys Ala Arg Lys Lys Thr Thr
 85 90

<210> 8946

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8946

Leu Leu Lys Leu Ile Ser Arg Leu Met Lys Arg Phe Thr Asn Gly Ser
 1 5 10 15

Leu Val Arg Ala Asn Arg Arg Arg
 20

<210> 8947

<211> 73

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8947

Arg Met Arg Leu Leu Gln Arg Leu Leu Lys Arg Phe Ser Arg Leu Ala
1 5 10 15

Cys Glu Ala Leu Val Lys Lys Arg Lys Lys Ala Gly Tyr Ile Tyr Leu
20 25 30

Arg Leu Ser Thr Leu Arg Phe Arg Ala Leu Leu Pro Lys Lys Arg Trp
35 40 45

Asn Ser Glu Tyr Leu Lys Arg Lys Ser Asn Lys Ser Ala Gln Ala Asn
50 55 60

Lys Ser Lys Asn Leu Ala Arg Met Leu
65 70

<210> 8948

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8948

Met Trp Arg Leu Trp Arg Lys Leu Phe Lys Arg Phe Cys Pro Cys Leu
1 5 10 15

Lys Leu Lys Leu Arg Ala Ser Ala Val Ala Glu
20 25

<210> 8949

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8949

Lys Leu Lys Leu Leu Pro Lys Phe Phe Lys Leu Tyr Thr Lys Phe Leu
1 5 10 15

Arg Tyr Gly Lys Ala Gln Pro
20

<210> 8950
<211> 54
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 8950

Lys Phe Arg Phe Leu Cys Arg Leu Met Lys Leu Phe Lys Lys Leu Gln
1 5 10 15

Leu Arg Lys Gly Leu Arg Ala Gln Cys Ala Leu Leu Leu Arg Ala Asp
20 25 30

Asp Asn Glu Asn Leu Arg Lys Tyr Arg Arg Asn Phe Lys Trp Lys Pro
35 40 45

Thr Met Tyr Cys Leu Val
50

<210> 8951
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 8951

Leu Phe Lys Leu Trp Ser Arg Phe Tyr Lys Phe Phe Asn Lys Asp Arg
1 5 10 15

Pro Lys Ala Ala Leu Arg Ala Phe Ser Leu Trp Trp Arg Trp Thr Ala
20 25 30

Arg Lys Ala Lys Leu Cys Leu Leu
35 40

<210> 8952
<211> 39
<212> PRT
<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8952

Leu	Met	Lys	Trp	Trp	Arg	Lys	Leu	Trp	Arg	Arg	Leu	Ser	Cys	Val	Cys
1				5					10					15	

Ala	Gly	Ala	Lys	Lys	Ala	Leu	Met	Pro	Thr	Ala	Ile	Gly	Ala	Arg	Lys
			20					25					30		

Ala	Lys	Arg	Lys	Arg	Lys	Leu
						35

<210> 8953

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8953

Lys	Tyr	Arg	Trp	Leu	Arg	Arg	Leu	Phe	Arg	Leu	Leu	Arg	Ser	Phe	Cys
1				5					10					15	

Lys	Tyr	His	Leu	Arg	Arg	Met	Ala	Arg	Val	Ala	Gln	Glu	Phe	Phe	Leu
			20					25					30		

Lys

<210> 8954

<211> 45

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8954

Arg	Ile	Arg	Leu	Phe	Lys	Lys	Leu	Leu	Lys	Phe	Leu	Arg	His	Leu	Gly
1				5					10					15	

Asn	Leu	Arg	Thr	His	Ala	Ala	Trp	Ile	Trp	Ala	Ser	Met	Lys	Glu	His
			20					25					30		

Trp	Lys	Glu	Leu	Leu	Leu	Ile	Arg	Asn	Leu	Arg	Arg	Lys
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

35

40

45

<210> 8955

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8955

Lys Ile Lys Leu Leu Arg Arg Phe Trp Arg Trp Leu Lys Arg Asn Asn
 1 5 10 15

Ala Arg Leu Met Gln Ala Leu Ala Lys Pro Arg Trp
 20 25

<210> 8956

<211> 42

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8956

Phe Ile Arg Leu Trp Lys Lys Phe Ile Lys Lys Leu Lys Ser Tyr Leu
 1 5 10 15

Lys Leu Asp Leu Leu Arg Val Arg Glu Leu Arg Tyr Ser Lys Leu Phe
 20 25 30

Met Ala Lys Lys Leu Gln Tyr Trp Asn Arg
 35 40

<210> 8957

<211> 53

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8957

Phe Met Lys Met Trp Lys Arg Phe Met Arg Leu Met Lys Lys His Pro
 1 5 10 15

Lys Ala Phe Arg Lys Gly Arg Arg Phe Arg Ala Tyr Arg Lys Leu Leu

20

25

30

Ala Leu Ala Ala Asp Ala Asn Leu Cys Leu Leu His Phe Leu Pro Tyr
 35 40 45

Ile Ala Gln Ala Ala
 50

<210> 8958
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8958

Lys Met Arg Phe Trp Lys Arg Tyr Leu Arg Arg Leu Thr Lys Leu Tyr
 1 5 10 15

Gln Pro Ala Ala
 20

<210> 8959
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8959

Leu Leu Arg Met Leu Arg Lys Leu Leu Arg Phe Tyr Arg Ser Ala Trp
 1 5 10 15

Arg Leu Ala His Thr Trp Asp
 20

<210> 8960
 <211> 42
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8960

Leu Leu Lys Leu Phe Lys Arg Tyr Met Arg Lys Leu His Arg Val Arg

1 5 10 15

Met Arg Gly Lys Ala Cys Gly Lys Ala His Arg Ile Gln Ala Lys Arg
20 25 30

Ala Trp Ala Trp Cys Leu Glu Tyr Arg Leu
35 40

<210> 8961
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 8961

Lys Trp Arg Phe Tyr Ser Arg Ile Leu Arg Tyr Leu Gln Gln Lys Gly
1 5 10 15

Ala Ala Ala Arg Gly Leu Leu Arg Arg Leu His
20 25

<210> 8962
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 8962

Lys Tyr Arg Trp Leu Pro Arg Phe Phe Arg Leu Phe Asn Lys Ala Ala
1 5 10 15

Asp Ala Ser Leu Lys Ala Gln
20

<210> 8963
<211> 37
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 8963

Phe Leu Arg Leu Trp Cys Arg Leu Phe Lys Arg Leu Cys Lys Arg Leu

<210>	8964
<211>	70
<212>	PRT
<213>	Artificial Sequence

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<220>
<223> Computer-generated peptide variant
<400> 8964
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Ser Lys Phe Pro Lys Lys Val Ile Ala Arg Phe Cys Tyr Ala Ala Ala
20 25 30

Pro Arg Arg Leu Thr Cys Lys Leu Lys Lys Val Arg Met Leu Arg Met
35 40 45

Ile Leu Pro Ala Arg Ala Cys Ala Thr Ala Leu Arg Leu Gln Lys Asn
50 55 60

Ser Leu Lys Lys Ile Arg
65 70

<210>	8965
<211>	76
<212>	PRT
<213>	Artificial Sequence

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<220>
<223> Computer-generated peptide variant
<400> 8965
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Arg Tyr Arg Ile Leu Lys Arg Phe Leu Arg Arg Trp Arg Thr Asp Tyr
1 5 10 15

His Ser Arg Thr Ser Gly Arg Ser Leu Phe Tyr Tyr Ala Val Gln Gln
20 25 30

Ala Arg Lys Ala Asn Lys Arg Thr Arg Gly Asn Asn Val Leu Leu Arg
 35 40 45

Leu Ser Lys Leu Ala Lys Lys Ala Leu Leu Gly Ser Cys Leu Leu Leu
 50 55 60

Pro Ala Asn Lys Leu His Arg Lys Gln Ser Arg Leu
 65 70 75

<210> 8966
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8966

Leu Phe Lys Phe Met Thr Arg Phe Phe Arg Lys Trp Arg Arg Leu Lys
 1 5 10 15

Arg Gln Arg Cys Ala Asn Ala Ala Ala Asp Ala Cys Ala Leu His His
 20 25 30

Pro Ala Ser Leu Leu Asp Arg Glu
 35 40

<210> 8967
 <211> 70
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8967

Leu Leu Lys Leu Leu Thr Lys Phe Trp Lys Arg Tyr Arg Lys Thr Arg
 1 5 10 15

Lys Thr Gly Tyr Ala Thr Cys Ser Leu Arg Asp Ala Arg Cys Ala Val
 20 25 30

Ala Arg Ala Arg Ile Asn Ala Lys Arg Arg Met Ser Arg Lys Gln Ala
 35 40 45

Lys Gly Arg Trp Gly Phe Arg Phe Leu Val Leu Trp Leu Ala Lys Met

50

55

60

Lys Met Lys Asp Pro Tyr
65 70

<210> 8968
<211> 66
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 8968

Lys Leu Arg Trp Leu Asn Arg Leu Trp Lys Leu Trp Lys Arg Leu Ala
1 5 10 15

Gln Lys Leu Lys Leu Asn Trp Leu Gln Thr His Met Lys Thr Ala Arg
20 25 30

Thr Tyr Ala Met Ala Ser Asn Gln Gly Asp Ala Arg Lys Ala Arg Lys
35 40 45

Ala Ala Met Arg Leu Val Val Ala Arg Gln Leu Met Trp Lys Glu Ser
50 55 60

Leu Ser
65

<210> 8969
<211> 65
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 8969

Lys Leu Arg Leu Tyr Cys Arg Leu Leu Arg Met Leu His Arg Lys Phe
1 5 10 15

Lys Gln Ser Trp Ala Phe Ala Ala Ala Phe Gln Gly Leu His Gln Gly
20 25 30

Lys Val Lys Asn Ser Arg Ala Lys Asp Arg Ala Trp Arg Cys Arg Lys
35 40 45

Thr His Ser Phe Lys Ala Ala Ala Met Glu Ser Leu Arg Leu Arg Arg
 50 55 60

Lys
 65

<210> 8970
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8970

Arg Leu Arg Tyr Phe Gln Lys Tyr Trp Arg Lys Met Lys Cys Val Leu
 1 5 10 15

Ala Ala Leu Glu
 20

<210> 8971
 <211> 79
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8971

Phe Tyr Arg Ile Leu Gln Lys Leu Trp Lys Lys Met Lys Lys Ala Arg
 1 5 10 15

Trp Leu Ala Lys Glu Lys Lys Arg Leu Lys Glu Trp Leu Tyr Val Val
 20 25 30

His Ala Phe Ala Cys Glu His Ser Pro Arg Asn Ala Leu Ile Ala Trp
 35 40 45

Cys Glu Lys Met His Ala Val Glu Pro Leu Arg Arg Lys Arg Leu Ala
 50 55 60

Ser Ala Ala Lys Phe Leu Ser Leu Arg Leu Leu Leu Met Arg Glu
 65 70 75

<210> 8972

<211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8972

Arg Phe Lys Ile Phe Thr Lys Leu Leu Arg Tyr Phe Arg Pro Arg Leu
 1 5 10 15

Ala Ala Ala Lys
 20

<210> 8973
 <211> 69
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8973

Leu Leu Lys Met Phe Lys Arg Leu Phe Lys Leu Leu Arg His Arg Pro
 1 5 10 15

Ala Tyr Ala Phe Arg Asp Arg Glu Tyr Leu Pro Arg Leu Thr Ala Arg
 20 25 30

Gly Trp Gly Arg Phe Leu Lys Lys Asp Lys Trp Leu Ala Arg Ala Phe
 35 40 45

Phe Lys Asp Lys Thr Leu Arg Lys Lys Asp His Phe Leu Thr Leu Lys
 50 55 60

Cys Lys Leu Tyr Trp
 65

<210> 8974
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8974

Leu Phe Arg Ile Leu Lys Lys Met Leu Arg Arg Leu Arg Lys Arg Pro

<210>	8975
<211>	49
<212>	PRT
<213>	Artificial Sequence
<220>	
<223>	Computer-generated peptide variant
<400>	8975

Asn Ala Gln Ile Leu Asp Lys Leu Arg Ala Asp Leu Cys Arg Asp Ala
20 25 30

His

<210>	8976
<211>	26
<212>	PRT
<213>	Artificial Sequence
<220>	
<223>	Computer-generated peptide variant
<400>	8976

Arg Tyr Lys Trp Leu Ala Ala Phe Arg Ala
20 25

<210>	8977
<211>	35
<212>	PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8977

Lys Tyr Lys Leu Met Lys Arg Phe Phe Arg Phe Leu Arg Gln Arg Thr
1 5 10 15

Trp Ala Asp Leu His Lys Leu Ala Lys Asp Pro Thr Leu Lys Leu Tyr
20 25 30

Lys Ala Leu
35

<210> 8978

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8978

Lys Leu Arg Trp Tyr Lys Lys Leu Trp Lys Tyr Trp Lys Gln Leu Arg
1 5 10 15

Lys Gln His Glu Leu Cys Ala Leu Phe
20 25

<210> 8979

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8979

Ile Leu Arg Trp Phe Ser Lys Leu Phe Arg Leu Met His Arg Ala Leu
1 5 10 15

Lys Pro Thr Thr Lys Leu Arg
20

<210> 8980

<211> 79

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8980

Arg Phe Lys Ile Phe Arg Arg Trp Leu Arg Lys Phe Arg Lys Leu Ala
1 5 10 15

His Leu Lys Glu Leu Ala Asn His Leu Asn Lys Tyr Ala Ile Trp Leu
20 25 30

Glu Ile Thr Met Ser Val Gly Lys Lys Lys Arg Lys Pro Ser Cys Asn
35 40 45

Ala Leu Pro Leu Asp Arg Arg Leu Thr Leu Leu Arg Ala Ala Tyr Met
50 55 60

Arg Asp Leu Trp Arg Glu Ala Leu Asp Leu Ala Glu Ala Lys Pro
65 70 75

<210> 8981

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8981

Leu Tyr Arg Leu Leu Lys Lys Tyr Ile Arg Phe Leu Lys Arg Leu Lys
1 5 10 15

Val Leu Met Leu Cys Arg Leu Trp Val Leu Tyr Arg Lys Leu Asp His
20 25 30

Thr

<210> 8982

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8982

Arg Leu Arg Leu Trp His Arg Leu Tyr Arg Lys Leu Lys His Ile Lys
 1 5 10 15

Gly Ala Leu Met Ala Glu Leu Trp Thr Arg
 20 25

<210> 8983

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8983

Phe Leu Arg Ile Leu Arg Arg Met Ile Arg Lys Phe Arg Arg Glu Ala
 1 5 10 15

Trp Cys Pro Leu Arg Lys Ala Arg Arg Thr Val Leu Gln Arg Gln Leu
 20 25 30

Ala Leu Trp Leu
 35

<210> 8984

<211> 67

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8984

Trp Leu Arg Tyr Leu Lys Arg Leu Trp Arg Leu Tyr Arg Asn Leu Lys
 1 5 10 15

Asn Val Lys Arg Ser Ile Pro Leu Val Trp Trp Lys Ser Cys Ala Arg
 20 25 30

Leu Thr Ser Ala Ala Gly Arg Arg Leu Leu Arg Lys Ile Cys Leu Phe
 35 40 45

Asp Leu Arg Asp Lys Lys Glu Arg Ser Ile Lys Ala Ala Thr Glu Lys
 50 55 60

Ala Ala Phe

65

<210> 8985
 <211> 50
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8985

Lys Ile Arg Leu Phe Lys Arg Leu Trp Arg Lys Leu Cys Lys Gly Ala
 1 5 10 15

Leu Gly Ala Leu Lys Trp Asn Glu Glu Lys Asp Leu Glu Arg Lys Arg
 20 25 30

Ala Ala Leu Asp Lys Met Val Ala Ala Phe Gly Arg Lys Trp Leu Arg
 35 40 45

Pro Phe
 50

<210> 8986
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8986

Phe Ile Arg Leu Leu Arg Arg Leu Phe Lys Leu Leu Ser Arg Leu Leu
 1 5 10 15

Arg Asp Arg Pro
 20

<210> 8987
 <211> 86
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8987

Lys Leu Lys Leu Trp Lys Arg Tyr Leu Arg Arg Phe Lys Arg Leu Leu

1 5 10 15
 Lys Ala Ala Lys Asn Arg Pro Arg Ala His Lys Gln Asn Leu Tyr Leu
 20 25 30
 Lys His Lys Ala Trp Val Arg Thr Ser Lys His Leu Arg Ala His Glu
 35 40 45
 Ala Val Pro Trp Ala Arg Leu Gln Lys Arg Leu Phe Cys Cys Val Phe
 50 55 60
 Asn Pro Arg Leu Ile Arg Val Ala Met Tyr His Arg Glu Ala Leu Lys
 65 70 75 80
 Ile Lys Met Glu Ala Ser
 85

<210> 8988
 <211> 41
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant
 <400> 8988

Leu Leu Arg Met Met Pro Arg Leu Trp Lys Arg Leu Pro Arg Arg Met
 1 5 10 15
 Phe Leu Asn Pro Trp Gln Arg Ala Gln Lys Phe Ala Ile Lys His Ala
 20 25 30
 Lys Lys Leu Arg Lys Lys Leu Ala Ala
 35 40

<210> 8989
 <211> 41
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant
 <400> 8989

Lys Ile Arg Leu Phe Lys Arg Trp Phe Arg Leu Ile Arg Ser Phe Cys
 1 5 10 15

Gly Leu Phe Leu Gly Gly Ala Leu Asn Thr Ala Lys Leu Ala Lys Glu
 20 25 30

Lys Arg Phe Val Gly Ala Leu Lys Ala
 35 40

<210> 8990

<211> 50

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8990

Lys Met Lys Leu Leu Asn Arg Leu Phe Arg Arg Leu Lys Arg Tyr Cys
 1 5 10 15

Lys Glu Met Asn Ile Ala Lys Ser Gln Met Leu Phe Cys Leu Lys Ala
 20 25 30

Ala Ser Val Trp Ala Leu Gly Ala Arg Arg Ala Ala Arg Asp Arg Arg
 35 40 45

Gly Met
 50

<210> 8991

<211> 80

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8991

Lys Trp Lys Leu Phe His Arg Tyr Tyr Lys Lys Met Cys Asn Met Val
 1 5 10 15

Tyr Ala Arg Lys Lys Lys His Leu Leu Leu Pro Ala Pro Glu Leu Gln
 20 25 30

Pro Ser Arg Val Gly Val Lys Ala Met Ala Leu Lys Cys Thr Ser Leu
 35 40 45

Leu Glu Tyr Ala Ser Lys Val Arg Lys His Ala Ala Arg Ala Pro Arg

50 55 60

Ala Ala Arg Cys Arg Ala Trp Ala Asn Lys Gly Leu Ala Arg Leu Ala
65 70 75 80

<210>	8992
<211>	71
<212>	PRT
<213>	Artificial Sequence
<220>	
<223>	Computer-generated peptide variant
<400>	8992

Trp Phe Arg Trp Ile Pro Arg Leu Phe Arg Phe Phe Ser Lys Ile Arg
1 5 10 15

Arg Leu Pro Leu Glu Pro Ile Arg Ser Lys Leu Ala Leu Lys Lys Asn
20 25 30

Ala Ala Trp Ile Lys Leu Ser Leu Ala Lys Asn Leu Ser Leu Arg Pro
35 40 45

Lys Lys Arg Arg Ala Arg Gly Cys Gly Ser Lys Asn Glu His Leu Thr
50 55 60

Arg Lys Ala Ala Lys Ala Leu
65 70

<210>	8993
<211>	43
<212>	PRT
<213>	Artificial Sequence
<220>	
<223>	Computer-generated peptide variant
<400>	8993

Met Met Arg Leu Leu Lys Arg Leu Phe Arg Tyr Trp Lys Pro Lys Ile
1 5 10 15

Ile Leu Glu Ala Glu Lys Asn Leu Arg Ala Arg Arg Ala Lys Leu Trp
20 25 30

Ala Leu Ala Leu Pro Lys Ala Arg Phe Lys Leu
35 40

<210> 8994
 <211> 83
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8994

Lys Trp Lys Leu Tyr Lys Lys Leu Met Arg Arg Leu Thr Pro Ala Met
 1 5 10 15

Pro Asp Leu Leu Leu Leu Met Arg Cys Arg Ala Ala Arg Ala Gln Lys
 20 25 30

Asn Arg Ala Ala Asp Trp Ala Ala Glu Cys Ser Gly Ile Arg Ala Ala
 35 40 45

Pro Glu Phe Trp Asp Ile Lys Glu Arg Leu Arg Arg Arg Lys Asn Ala
 50 55 60

Thr Gln Arg Ala Lys Ala Tyr Asp Tyr Lys Lys Ile Arg Cys Arg Ser
 65 70 75 80

Lys Arg His

<210> 8995
 <211> 76
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8995

Lys Trp Arg Trp Ile Arg Lys Leu Tyr Lys Leu Leu Lys Ser Ile Arg
 1 5 10 15

Thr Leu Leu Arg Ala Met Leu Phe Lys Leu Ile Ile Arg Ile Leu His
 20 25 30

Leu Glu Thr His Lys Met Leu Lys Ile Leu Phe Tyr Lys Leu Leu Met
 35 40 45

Leu Asp Arg Trp Glu Thr Leu Cys Ile Leu Ala Glu Phe Pro Ala Leu

50

55

60

His Arg Asp Leu Ile Pro Leu Lys Lys Arg Lys Lys
 65 70 75

<210> 8996
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8996

Arg Ile Arg Trp Trp Pro Lys Leu Phe Arg Arg Leu Asn Arg Gly Phe
 1 5 10 15

Ala Ile Leu Leu Phe Lys Arg Ile Ala
 20 25

<210> 8997
 <211> 26
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8997

Leu Ile Lys Phe Leu Arg Lys Leu Met Arg Leu Met Lys Lys Met Lys
 1 5 10 15

Ala Ala Glu Val Ile Arg Arg Ala Gln Phe
 20 25

<210> 8998
 <211> 76
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 8998

Lys Met Lys Phe Trp Arg Lys Trp Leu Lys Phe Phe Arg Cys Leu Arg
 1 5 10 15

Asp Ala Lys Pro Arg Thr His Phe Ile Ser Met Lys Lys Cys Lys Asn

20

25

30

His Trp Ala Ala Arg Val Leu Ala Thr Arg Gly Cys Ile Thr Cys Arg
 35 40 45

Lys Leu Val Leu Phe Tyr Arg Leu Glu Leu Leu Gln His Ala Lys Thr
 50 55 60

Lys Leu Arg Leu Ala Arg His Ala Ala Lys Lys Ala
 65 70 75

<210> 8999

<211> 80

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 8999

Arg Trp Lys Met Met Lys Arg Leu Leu Lys Ile Leu Lys Asn Trp Leu
 1 5 10 15

Arg Ala Ala Thr His Gln Met Arg Gly Leu Leu Arg Asn Leu His Ala
 20 25 30

Arg Arg Asn Arg Asn Lys Cys Ser Ala Ala Asn Lys Arg Phe Pro Thr
 35 40 45

Ala Pro Leu Gly Arg Asp Ala Ala Arg Glu Lys Pro Phe Glu His Leu
 50 55 60

Glu Lys Ala Lys Arg Leu Arg Asp Arg Met Met Leu Leu Ala Pro Phe
 65 70 75 80

<210> 9000

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9000

Lys Met Arg Leu Met Thr Lys Leu Leu Lys Lys Leu Thr Arg His Ala
 1 5 10 15

Pro Tyr Arg Ala Ser Ala Ala Asn Asp Lys Arg His Lys Pro Glu Glu
 20 25 30

Tyr Leu

<210> 9001

<211> 96

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9001

Phe Trp Lys Leu Leu Lys Arg Trp Leu Lys Trp Met Arg Lys Leu Arg
 1 5 10 15

Ala Gly Ala Lys Lys Leu Leu Met Ala Tyr Trp Cys Phe Lys Asn Leu
 20 25 30

Lys Leu Tyr Met Ala Leu Lys Lys Trp Lys Leu Leu Glu Trp Ala Lys
 35 40 45

Tyr Ala Ile Arg Leu Ala Lys Cys Trp Glu Leu Leu Glu Ala Arg Glu
 50 55 60

Asn Glu Lys Arg Arg Pro Glu Lys Pro Phe Met Cys Asn Gly Leu Gln
 65 70 75 80

Leu Leu Arg Arg Ile Lys Asn Gln Arg Thr Glu Lys Arg Trp Gly Pro
 85 90 95

<210> 9002

<211> 55

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9002

Ile Met Arg Met Phe Gln Arg Met Leu Lys Arg Ile Lys Lys Ala Ile
 1 5 10 15

Ser Phe Lys Ala Arg Glu Glu Ala Arg Ala Leu Lys Met Leu Leu Arg

30

Arg His Asp Ala Arg Ala Leu Asn Ala Ala Lys Ile Leu Cys Leu Arg
35 40 45

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Val  Lys  Asn  Met  Asp  Arg  Leu
      50                      55
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<210> 9003
<211> 35
<212> PRT
<213> Artificial Sequence
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<220>
<223> Computer-generated peptide variant

<400> 9003

Lys Leu Lys Phe Trp Arg Lys Leu Leu Lys Ile Tyr Arg Pro Leu Tyr
1 5 10 15

Arg Ala Leu Asn Arg Thr Pro Lys Gln Pro Leu Leu Gly Met Lys Leu
20 25 30

Leu Glu Cys
35

<210>	9004
<211>	90
<212>	PRT
<213>	Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 9004

Arg Leu Arg Ile Leu Arg Lys Leu Phe Lys Lys Phe Ser Arg Trp Ser
1 5 10 15

Ala Trp Gln Leu Arg Lys Asp Lys Val Lys Ala Cys Ala Arg Ser Tyr
20 25 30

Val Asp Leu Lys Gln Leu Arg Ile Lys Ala Gln Leu Leu Lys Ser Leu
35 40 45

Ala Gln Arg Lys Arg Pro Ser Leu Arg Trp Leu Tyr Ala Trp Asp Ala
50 55 60

Leu Leu Tyr Asn Leu Ala Arg Trp Leu Leu Asn Tyr Leu His Gly Asp
 65 70 75 80

Leu Asp Arg Arg Asn Leu Asn Gly Val Glu
 85 90

<210> 9005
 <211> 57
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9005

Arg Leu Lys Tyr Met Ser Lys Met Leu Lys Ile Ile Arg Lys Pro Ala
 1 5 10 15

Thr Thr Met Ala Arg Ala Ala Lys Arg Arg His Asp Thr Leu Pro Glu
 20 25 30

Lys Met Lys Val Asn Gly Asp Leu Leu His Lys Leu Arg Leu His Lys
 35 40 45

Met Leu Leu Lys Leu Lys Arg Ala Leu
 50 55

<210> 9006
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9006

Arg Phe Arg Trp Phe His Lys Leu Tyr Arg Leu Leu Lys Arg Thr Ala
 1 5 10 15

Ile Pro Arg Trp Ala Lys Cys His Gln Ala Leu Phe Ala
 20 25

<210> 9007
 <211> 27
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9007

Arg	Leu	Arg	Trp	Leu	Cys	Lys	Trp	Leu	Lys	Lys	Leu	Lys	Thr	Tyr	Leu
1				5					10					15	

Leu	Leu	Ser	Leu	Arg	Ser	Tyr	Arg	Pro	Leu	Phe
			20					25		

<210> 9008

<211> 53

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9008

Lys	Leu	Lys	Tyr	Leu	Lys	Lys	Phe	Ile	Arg	Met	Trp	Arg	Pro	Lys	Ile
1				5					10					15	

Tyr	Ile	Lys	Ala	Met	Lys	His	Lys	Ala	Ser	Arg	Arg	Leu	Arg	Leu	Asn
			20					25					30		

Ser	Ser	Thr	Leu	Trp	Ile	Lys	Arg	Leu	Ala	Glu	Leu	Ala	Asn	Phe	Leu
			35				40					45			

Arg	His	Ala	Leu	Cys
			50	

<210> 9009

<211> 46

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9009

Arg	Ile	Lys	Met	Trp	His	Lys	Phe	Trp	Arg	Leu	Ile	Arg	Arg	Glu	Lys
1				5					10					15	

Pro	Arg	Ala	Leu	Lys	Asp	Arg	His	Ala	Arg	Leu	Ser	Phe	Ala	Leu	Ala
			20					25					30		

Ala	Arg	Gln	Leu	Arg	Asp	Glu	Phe	Tyr	Lys	Lys	Gln	Leu	Ala
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

35

40

45

<210> 9010

<211> 95

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9010

Phe Met Lys Leu Leu Lys Arg Leu Leu Lys Arg Ile Lys Lys Leu Ala
 1 5 10 15

Cys Ala Ala Trp Ile Lys Ala Trp His Gln Leu Ala Ile Cys Pro His
 20 25 30

Ala Val Ser Cys Arg Leu Ala Ala Leu Ala Gly Tyr Lys Ala Val Arg
 35 40 45

Lys Lys Asn Lys Arg Tyr Lys Leu Lys Leu Ala Leu Thr Gly Ala Met
 50 55 60

Lys Val Lys Ala Cys Gly Asp Lys Arg Arg Lys Leu Leu Ala Gly Met
 65 70 75 80

Tyr Arg Lys Arg Arg Asn Lys Asp Arg Leu Phe Leu Lys Asn Asp
 85 90 95

<210> 9011

<211> 100

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9011

Arg Tyr Lys Trp Tyr Arg Arg Met Leu Lys Tyr Met Lys His Lys Cys
 1 5 10 15

Lys Ala Ala Lys Asp Asp Lys Ala Met Lys Ser Ala Pro Ile Gly Ala
 20 25 30

Lys Thr Lys Glu Val Glu Leu Ser Val Phe Arg Lys Leu Lys Trp Leu
 35 40 45

Cys Leu Tyr Leu Ile Arg Leu Ser Lys His Ser Leu Ala Ala Cys Arg
 50 55 60

Gln Ala Ala Gln Leu Arg Leu Ala Arg Lys Arg Arg Pro Tyr Asn Ala
 65 70 75 80

Leu Lys Met Arg Pro Arg Pro Arg Ala Arg Lys Pro Asn Ala Lys Ser
 85 90 95

Gly Gly Cys Phe
 100

<210> 9012
 <211> 73
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9012

Lys Tyr Arg Phe Leu Arg Lys Leu Leu Lys Phe Met Lys Arg Phe Lys
 1 5 10 15

Cys Arg Ala Leu Phe Lys His Ala Ala Ala Ala Leu Arg Leu Thr Thr
 20 25 30

Arg Leu Gly Gly Met Ala Ala Met Lys Lys Gln Leu Asp Asn Ala Leu
 35 40 45

Glu His Arg Lys Phe Ser Gly Arg Ala Leu Gly Ala Trp Leu Asn Lys
 50 55 60

Leu Asp Arg Met Arg Phe Tyr Asp Cys
 65 70

<210> 9013
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9013

Ile Leu Lys Ile Trp Gln Arg Ile Leu Arg Arg Leu Lys Lys Met Leu

1 5 10 15

Gln Ala Ala Pro Pro Ala
20

<210> 9014
<211> 49
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 9014

Ile Ile Lys Phe Phe Arg Lys Phe Leu Arg Ile Phe Lys Lys Arg Arg
1 5 10 15

Cys Gln Ala Ile Ala Ala Gln Arg Leu Pro Ala Ala Trp Leu His Lys
20 25 30

Ala Lys Gln Leu Lys Asp Arg Leu Thr Met Leu Leu Arg Thr Trp Asp
35 40 45

Cys

<210> 9015
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 9015

Arg Leu Lys Leu Phe Pro Arg Ile Leu Lys Lys Trp Lys Arg Tyr Trp
1 5 10 15

Leu Ala Gln Phe
20

<210> 9016
<211> 37
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 9016

Lys Trp Lys Phe Leu Arg Arg Ile Trp Lys Lys Leu Lys Gln Lys Leu
 1 5 10 15

Leu Phe Lys Leu Cys Ala Phe Val Cys Asn Lys Arg Lys Leu Leu Leu
 20 25 30

Tyr Pro Leu Leu Lys
 35

<210> 9017

<211> 61

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9017

Met Phe Arg Leu Trp Ser Lys Phe Phe Lys Lys Trp Lys Asn Arg Ser
 1 5 10 15

Trp Ala Arg Tyr Ser Arg Tyr Arg Arg Lys Leu Gly Lys Cys Lys Cys
 20 25 30

Leu Met Arg Ala Glu Arg Leu Met Arg Arg Ala Pro Leu Ala Leu Glu
 35 40 45

Arg Arg Arg Asn Leu Ala Leu Lys Leu Lys Thr Ala Ala
 50 55 60

<210> 9018

<211> 57

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9018

Arg Leu Lys Leu Phe Arg Lys Trp Leu Lys Leu Ile His Arg His Val
 1 5 10 15

Arg Arg Lys Asp Ala Leu Leu Leu Arg Leu Leu Ala Asn Lys Cys Val
 20 25 30

Leu Arg Lys Gly Arg Arg Val Phe Lys Phe Leu Pro Leu Ile Met Met
 35 40 45

Gly Arg Leu Thr Ile Thr Ser Gly Asp
 50 55

<210> 9019
 <211> 44
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9019

Arg Leu Lys Trp Leu Arg Lys Leu Leu Arg Leu Trp Ser Pro Val Ala
 1 5 10 15

Arg Asn Pro Ala His Thr Gln Lys Ala Cys Leu Leu Cys Leu Thr Glu
 20 25 30

Glu Arg Leu Cys Lys Trp Ala Ala Arg Glu Asp Lys
 35 40

<210> 9020
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9020

Lys Ile Arg Leu Leu Pro Lys Leu Leu Arg Tyr Leu Asn His Arg Arg
 1 5 10 15

Cys Gln Leu Leu
 20

<210> 9021
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9021

Arg Tyr Arg Tyr Ile Cys Lys Leu Ile Lys Arg Leu Pro Arg Tyr Ala
 1 5 10 15

Ala Leu Thr Gly Leu Ile Leu Lys Ser Val Met Lys Arg Pro Arg Val
 20 25 30

Leu Lys

<210> 9022
 <211> 60
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9022

Lys Leu Arg Tyr Phe Gln Arg Leu Leu Lys Trp Leu Cys Lys Val Glu
 1 5 10 15

Arg Arg Leu Gly Asp Arg Ala Gly Ile Arg Lys Thr Pro Phe Pro Ile
 20 25 30

Ala Leu Arg Met Ala Met Pro Gln His Val Arg Ala Ala Ala Arg Thr
 35 40 45

Leu Lys Ala Leu His Phe Arg Leu Trp Tyr Arg Arg
 50 55 60

<210> 9023
 <211> 68
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9023

Lys Trp Lys Trp Trp Asn Lys Leu Leu Arg Arg Leu His Cys Leu Arg
 1 5 10 15

Lys Arg Leu Ala Met Ala Lys Arg Gln Ala Ile Lys Arg Asp Pro Arg
 20 25 30

Lys Met Arg Thr Leu Thr Val Asp Ala Ala Gly Leu Asp Leu Met Ile

35

40

45

Gln Ile Leu Tyr Asp Lys Lys Arg Val Cys Arg Ala Lys Glu Lys Met
 50 55 60

Asn Leu Arg Val
 65

<210> 9024
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9024

Leu Phe Lys Leu Leu Thr Arg Leu Phe Arg Lys Phe Lys Lys Lys Ala
 1 5 10 15

Lys Asn Pro Val Leu Arg Arg Asp Leu Leu Met Val Gln
 20 25

<210> 9025
 <211> 69
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9025

Leu Leu Arg Leu Ile Arg Lys Met Leu Lys Lys Leu Lys Ser Val Trp
 1 5 10 15

Leu Lys Ile Arg Glu Leu Arg Leu Arg Gln Ala Gln Ala Gly Asn Arg
 20 25 30

Pro Asn Lys Leu Lys Phe Lys Pro Asn Ala Leu Asp Val Glu Lys Ala
 35 40 45

Ile Lys Gly Trp Ser Ala Ala Lys Leu Leu Ala Ala Ala Lys His Leu
 50 55 60

Trp Gly Leu Cys Thr
 65

<210> 9026
 <211> 58
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9026

Lys Met Lys Leu Leu Arg Lys Trp Leu Lys Phe Trp Pro Arg Arg Ile
 1 5 10 15

Ala Tyr Leu Ala Val Lys Cys Thr Ala Gly Arg His Trp Ala Ala Gly
 20 25 30

Cys Arg Arg Arg Gln Gln Ala Lys Arg Gln Arg Phe Ile Thr Ala Arg
 35 40 45

Trp Leu Ala Leu Ala Ala His Arg Gln Asn
 50 55

<210> 9027
 <211> 41
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9027

Phe Met Lys Trp Leu Pro Arg Leu Met Arg Arg Leu Arg Lys Lys Lys
 1 5 10 15

Lys Gly Asn Val Ala Leu Arg Arg Lys Val Met Gly Leu Asn Glu His
 20 25 30

Leu Lys Ala Cys Ala Asn Leu Ala Cys
 35 40

<210> 9028
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9028

Leu Ile Lys Tyr Leu Arg Arg Leu Tyr Lys Arg Phe Gln Gln Gln Gln
 1 5 10 15

Glu Arg Leu Arg Leu
 20

<210> 9029
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9029

Arg Trp Arg Leu Ile Lys Lys Met Met Arg Arg Leu Gln Lys Leu Ala
 1 5 10 15

Trp His Ala Cys Ala Ala Asn Leu
 20

<210> 9030
 <211> 45
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9030

Tyr Phe Lys Leu Met Arg Arg Leu Leu Arg Arg Met Cys Lys Arg Glu
 1 5 10 15

Glu Arg Phe Gly Ser Ala Leu Cys Trp Ala Ala Phe Pro Met His Ala
 20 25 30

Leu Asp Arg Ala Leu Gly Gln Lys Arg Arg Leu Met Leu
 35 40 45

<210> 9031
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9031

Arg Met Arg Phe Leu Lys Lys Phe Ile Lys Lys Leu Arg Thr Lys Leu
 1 5 10 15

Ser Leu Ala Leu Leu Ala
 20

<210> 9032
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9032

Trp Met Arg Leu Leu Arg Lys Leu Tyr Lys Leu Phe Gln Arg His Lys
 1 5 10 15

Ala His Arg Pro Ala Ala Arg Pro Trp
 20 25

<210> 9033
 <211> 46
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9033

Lys Leu Arg Trp Leu Ser Arg Leu Leu Arg Tyr Tyr Ser Asn Arg Met
 1 5 10 15

Val Ala Phe Ala Arg Arg Ala Leu Ala Pro Leu Leu Pro Thr Lys Asn
 20 25 30

Leu Trp Val Ile Arg His Ala Leu Lys Arg Pro Leu Lys Cys
 35 40 45

<210> 9034
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9034

Lys Leu Lys Leu Leu Arg Lys Phe Leu Lys Leu Leu Arg Lys Gly Ser
 1 5 10 15

Phe Gln Pro Gly Ile Asp Trp Gly Ala Glu Gly Leu Arg Met Phe Ala
 20 25 30

Ser Gly Lys Ala Arg Ala Ile Ala
 35 40

<210> 9035

<211> 70

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9035

Arg Ile Arg Phe Phe Arg Arg Leu Met Lys Arg Phe Lys Arg Lys Tyr
 1 5 10 15

Ala Asn Phe Ala Ala Leu Ala Ile Lys Lys Arg Thr Ala Pro Lys Pro
 20 25 30

Asn Arg Trp Lys Arg Ala Lys Ile Cys Arg Ala Leu Cys Leu Leu Cys
 35 40 45

Lys Met Thr Tyr Ile Ala Arg Leu Leu Leu Val Arg Leu Arg Arg Glu
 50 55 60

Ala Leu Phe Ile His Gly
 65 70

<210> 9036

<211> 52

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9036

Arg Phe Lys Trp Leu Ser Lys Tyr Leu Lys Arg Ile Gln Ser Tyr Leu
 1 5 10 15

Asp Arg Lys Asp Ala Lys Thr Leu Gln Lys Cys Ala Lys Leu Leu Arg

20

25

30

Ser Leu Tyr Asp Lys Lys Gln Ala Lys Phe Lys Val Cys Ala Lys Leu
 35 40 45

Ile Ala Ser Gly
 50

<210> 9037

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9037

Arg Leu Lys Phe Leu Lys Lys Phe Trp Lys Leu Leu Lys Lys Asn Glu
 1 5 10 15

Ala Ser Lys Val Glu Lys Val Arg Thr Lys Met Arg Ala Ala Leu His
 20 25 30

Leu Leu Glu
 35

<210> 9038

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9038

Arg Met Arg Leu Phe Lys Lys Phe Ile Arg Tyr Phe Arg Asn Leu Leu
 1 5 10 15

Lys Leu Pro Leu His Gln Arg Trp Ala Asp Leu Ser Ala Ala
 20 25 30

<210> 9039

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9039

Ile Ile Arg Met Leu Thr Arg Ile Tyr Lys Arg Leu Gln His Val Arg
1 5 10 15

Ser Ala Ala Arg Ala Arg Leu Arg Arg Phe Leu Ala Val Ile Ala Ala
20 25 30

Phe Ala Asp Ile
35

<210> 9040

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9040

Tyr Phe Lys Leu Leu Thr Arg Ile Leu Lys Arg Tyr Arg Lys Ala Cys
1 5 10 15

Pro Thr Ala Ser
20

<210> 9041

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9041

Lys Met Lys Ile Tyr Thr Arg Leu Phe Lys Phe Leu Lys Arg Ala Arg
1 5 10 15

Leu Lys Ala Ile His Ala Ala Leu Lys Ile Met
20 25

<210> 9042

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9042

Leu Leu Arg Ile Trp Lys Lys Leu Phe Arg Phe Trp Arg Lys Met Val
1 5 10 15

Lys Cys Ala Lys Phe Asn Arg Leu Arg Gln Gln Phe Arg Ala Cys Leu
20 25 30

Ala

<210> 9043

<211> 86

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9043

Leu Trp Arg Leu Trp Arg Arg Trp Tyr Lys Arg Leu Thr Asn Ile Ala
1 5 10 15

Asn Ala Phe Trp Phe Ser Leu Lys Leu Ala Ile Asp Arg Lys His Ala
20 25 30

Ala Lys Arg Trp Pro Ile Leu Leu Gln Ala Ala Leu Arg Leu Val Met
35 40 45

Lys Val Arg Lys Ala Arg Lys Gly His Arg Arg Lys Asp Lys Ser Arg
50 55 60

Ser Lys Gln Ala Ala Val Leu Leu Lys Arg Asn Leu Val Tyr Lys Pro
65 70 75 80

Lys Ser Ser Leu Phe Lys
85

<210> 9044

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9044

Leu Tyr Lys Ile Leu Lys Arg Phe Phe Lys Leu Leu Ser Lys Leu Gln
 1 5 10 15

Phe Lys Lys Glu Arg Trp Met Leu Arg Ala Leu Val
 20 25

<210> 9045
 <211> 60
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9045

Lys Leu Arg Ile Tyr Lys Lys Trp Leu Lys Lys Leu Thr Asn Cys Lys
 1 5 10 15

Glu Val Lys Leu Leu Thr Thr Ile Met Val Ala Arg Asp Gly Val Leu
 20 25 30

Asp Ala Ala Leu Phe Lys Ala Cys Ile Asp Arg His Lys Lys Asn Gly
 35 40 45

Ala Leu Arg Lys Lys Cys Cys Leu Lys Leu Leu Cys
 50 55 60

<210> 9046
 <211> 42
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9046

Leu Leu Lys Trp Trp Lys Lys Leu Phe Arg Arg Ile Lys Lys Lys Ile
 1 5 10 15

Glu Val Ile Pro Ala Asn Arg Ile Ala Arg Ala Leu Lys Ile Cys Cys
 20 25 30

Ala Arg Gly Lys Tyr Leu Lys Tyr Ser Leu
 35 40

<210> 9047

<211> 26
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9047

Lys Phe Lys Leu Ile Arg Lys Ile Leu Arg Phe Leu His Arg Ala Ala
 1 5 10 15

Arg Phe Arg Phe Leu Asn Gly Ala Glu Ala
 20 25

<210> 9048
 <211> 48
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9048

Arg Leu Arg Phe Ile Cys Arg Trp Leu Arg Leu Tyr Lys Lys Thr Trp
 1 5 10 15

Arg Lys Leu Leu Lys Arg Gln Ala Glu Ala Pro Ala Leu Cys Cys Ser
 20 25 30

Arg Thr His Ala Ala Arg Arg Leu Thr Lys Gly Lys Lys Val Arg Ala
 35 40 45

<210> 9049
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9049

Trp Phe Lys Tyr Tyr Arg Lys Leu Leu Arg Lys Phe Thr Arg Thr Leu
 1 5 10 15

Leu Ser Ala Arg Arg Arg Arg Asp Leu Gly Val Lys Tyr Ala Asn Leu
 20 25 30

Ala Lys

<210> 9050
 <211> 38
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9050

Arg Phe Arg Phe Leu Cys Lys Leu Leu Lys Arg Trp His Ser Ala Gln
 1 5 10 15

Val Arg Leu Asp Trp Lys Ile Ile Ile Thr Ala Ala Ala Arg Ala Arg
 20 25 30

Leu His Lys Arg Leu Pro
 35

<210> 9051
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9051

Arg Leu Arg Phe Phe Gln Arg Tyr Trp Arg Lys Leu Thr Arg Ser Leu
 1 5 10 15

Cys Asp His His Thr Ala Glu Lys Lys Leu Ala Asn Ala Lys Leu Leu
 20 25 30

<210> 9052
 <211> 61
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9052

Phe Met Arg Phe Phe His Arg Ile Leu Lys Ile Leu Arg Arg Ala Ala
 1 5 10 15

Lys Met Ala Ala Gly Thr Leu Gln Leu Arg Lys Lys Ser Asn Lys Glu

Ala Val Tyr Lys Lys Asn Lys Ala Leu Pro Pro Leu Lys His Lys Arg
50 55 60

Arg Leu Arg Ala Leu Lys Lys Ala Lys Phe Thr Arg Phe Trp Asp Tyr
 65 70 75 80

Leu

<210> 9055
 <211> 38
 <212> PRT
 <213> Artificial Sequence
 <220>
 <223> Computer-generated peptide variant
 <400> 9055

Phe Phe Arg Ile Phe Lys Arg Phe Leu Lys Leu Met Arg Arg Leu Leu
 1 5 10 15

Leu Arg Ala Pro Asp Ala Ala Lys Asn Tyr Lys Tyr Trp Arg Lys Leu
 20 25 30

Tyr Phe Thr Leu Arg Trp
 35

<210> 9056
 <211> 78
 <212> PRT
 <213> Artificial Sequence
 <220>
 <223> Computer-generated peptide variant
 <400> 9056

Leu Leu Arg Leu Tyr Thr Lys Tyr Leu Arg Leu Phe Lys Arg Ala Lys
 1 5 10 15

Leu Lys Met Ala Asp Leu Arg Tyr Pro Ile Leu Glu Asp Tyr Asn Arg
 20 25 30

Tyr Arg Thr Met Trp Lys Arg Ala Leu Arg Lys Gly Ser Leu Asp Asp
 35 40 45

Met Phe Arg Phe Thr Ala Lys Ala Leu Lys Lys Gln Leu Trp Asn Val
 50 55 60

Ile Val Phe Ile Ala Arg Ala Leu Lys Arg Leu Tyr Ser Lys

65 70 75

<210> 9057
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9057

Met Leu Arg Leu Trp Lys Lys Leu Leu Arg Leu Tyr Arg Lys His Asn
 1 5 10 15

Leu Ala Ser Arg Arg Ile
 20

<210> 9058
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9058

Phe Phe Lys Leu Leu Arg Arg Phe Leu Arg Arg Leu Lys Arg Ile Leu
 1 5 10 15

Phe Asp Lys Leu Arg Trp Glu Ala Ala Ala Leu Tyr Ala
 20 25

<210> 9059
 <211> 26
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9059

Arg Leu Arg Leu Tyr Ser Lys Leu Leu Arg Leu Met Arg Gln Ala Ser
 1 5 10 15

Lys Asp Glu Thr His Gly Leu Lys Leu Trp
 20 25

<210> 9060

<211> 43
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9060

Trp Ile Arg Trp Leu Arg Lys Met Phe Lys Trp Leu Lys Lys Arg Arg
 1 5 10 15

Ala Gln Val Arg Asn Asp Arg Ala Lys Ala Leu Ile Met Met Leu Arg
 20 25 30

Ala Lys Val Arg Ala Asp Ala Ala Met Asn Cys
 35 40

<210> 9061
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9061

Lys Leu Arg Phe Ile Ser Arg Leu Leu Arg Arg Met Lys Thr Ile Leu
 1 5 10 15

Ala Asn Gln Thr Arg
 20

<210> 9062
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9062

Phe Leu Arg Tyr Phe Arg Arg Leu Leu Arg Lys Leu His Arg Thr Thr
 1 5 10 15

Leu Thr Gln Ala Ala Cys Ala Lys His Ile Arg Pro Lys Lys Val Thr
 20 25 30

<210> 9063

<211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9063

Tyr Tyr Lys Leu Met Lys Lys Phe Leu Arg Arg Phe Cys Lys Gln Ala
 1 5 10 15

Asn Lys Tyr Ala Pro Lys Leu Leu
 20

<210> 9064
 <211> 31
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9064

Leu Met Arg Leu Trp Arg Arg Phe Leu Lys Lys Phe Ser Lys Arg Leu
 1 5 10 15

Arg Ser Arg Ala Leu Lys Thr Leu Asp Arg Leu Ser His Glu Asp
 20 25 30

<210> 9065
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9065

Arg Ile Arg Leu Ile Lys Arg Phe Ile Arg Leu Phe Arg Lys Asp Cys
 1 5 10 15

Ala Ala Arg Ala Pro Arg Leu Arg Ser Ile Leu Lys Ala Ser Leu Arg
 20 25 30

Phe Gly

<210> 9066

<211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9066

Arg Leu Lys Phe Ile Arg Lys Ile Leu Arg Tyr Leu Arg His Ala Met
 1 5 10 15

His Leu Ala Phe Gly Leu Ala Arg Met Lys Ala Arg Ile Ile
 20 25 30

<210> 9067
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9067

Lys Met Arg Ile Trp Ser Arg Ile Met Arg Lys Leu Gln Arg Cys Gln
 1 5 10 15

Asp Met Lys Lys Asp Lys Ala Ala Ala Arg Leu Ile Met Leu Leu Pro
 20 25 30

Ala Arg

<210> 9068
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9068

Trp Tyr Lys Leu Leu Arg Arg Met Ile Arg Arg Phe Thr Lys Lys Ala
 1 5 10 15

Glu Lys Ala Lys Thr Gln Leu Pro Leu Ser Glu Thr Lys Ala
 20 25 30

<210> 9069

<211> 46
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9069

Lys Tyr Lys Phe Tyr Pro Arg Leu Leu Arg Tyr Met Arg His Leu Arg
 1 5 10 15

Cys Leu Asn Gly Leu Leu Lys Val Asp Leu Ile Ala Ala Tyr Lys Lys
 20 25 30

Glu Pro Arg Phe Asp Leu Ala Arg Ser Ala Cys Leu Ala Lys
 35 40 45

<210> 9070
 <211> 43
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9070

Arg Leu Arg Met Leu Ser Lys Tyr Met Arg Leu Phe Thr Arg Leu Gln
 1 5 10 15

Leu Arg Arg Ala Leu Gln Arg Cys Arg Ala Lys His Gln Leu Gly Gly
 20 25 30

Leu Asn Pro Ser Ala Gly Leu Lys Lys Glu Gly
 35 40

<210> 9071
 <211> 76
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9071

Phe Met Arg Tyr Leu Gln Lys Leu Phe Lys Leu Ile Cys Ser Cys Asp
 1 5 10 15

Val Leu Ala Arg Arg Leu Val Gly Arg Lys Arg Gln Arg Asn Lys Val

20

25

30

Ala Lys Ser Glu Lys Ala Trp Ala Leu Ala Lys Leu Ile Pro Ala Ser
 35 40 45

His Asn Lys Leu Met Leu Ala Ala Lys Asp Asp Lys Lys Lys Leu His
 50 55 60

Ile Phe Glu Lys Lys Ser Leu Leu Cys Arg Lys Leu
 65 70 75

<210> 9072

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9072

Arg Trp Lys Ile Ile Cys Lys Leu Phe Lys Ile Trp Lys Arg Lys Arg
 1 5 10 15

Gly Gln Leu Ala Leu Leu Ala Ala Gln Phe
 20 25

<210> 9073

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9073

Arg Leu Lys Ile Leu Lys Lys Phe Leu Lys Lys Phe Thr Arg Leu His
 1 5 10 15

Ala Ser Met Leu Lys Gly Leu Gly Lys Cys Thr Arg Leu Gly Lys Ile
 20 25 30

<210> 9074

<211> 49

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9074

Lys Leu Lys Tyr Phe Lys Arg Tyr Leu Arg Leu Ile Ser Thr Tyr Gly
 1 5 10 15

Ala Ala Ala Gly Lys Lys Ser Gly Lys His Cys Leu Phe Arg Lys Thr
 20 25 30

Ala Lys Leu Leu Leu Ser Asp Leu Gln Ala Lys Ile Arg Tyr Ser Lys
 35 40 45

Cys

<210> 9075

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9075

Lys Phe Lys Tyr Leu Lys Arg Tyr Tyr Lys Leu Leu Lys Thr Lys Leu
 1 5 10 15

Leu Tyr Arg Gln Gly Ala Trp Leu Ala Lys Ser Asp Leu Arg Met His
 20 25 30

His Gln Leu
 35

<210> 9076

<211> 50

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9076

Arg Leu Arg Leu Trp Arg Lys Leu Leu Arg Leu Leu Asn Pro Lys Lys
 1 5 10 15

His Leu Met Pro Leu Thr Tyr Trp Leu Gln Gln Ala His Leu His Leu
 20 25 30

Trp Ala Tyr Asn Ser Met Lys Lys His Lys Gly Lys Leu Leu Arg Arg
 35 40 45

His Asp
 50

<210> 9077
 <211> 39
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9077

Ile Leu Lys Met Trp Arg Lys Ile Leu Arg Phe Leu Lys His Ala Leu
 1 5 10 15

Lys Ala Leu Asp Arg Trp Ala Ala Arg Cys Lys Lys Ile Ser Lys Phe
 20 25 30

Arg Gly Phe Lys Ala Asn Ile
 35

<210> 9078
 <211> 96
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9078

Arg Phe Lys Met Leu Arg Lys Tyr Leu Arg Lys Tyr Arg Arg Trp Leu
 1 5 10 15

Arg Ala Arg Arg Leu Gly Gly Glu Arg Val Lys Leu Trp Ala His Ala
 20 25 30

Lys Ala Leu Arg Asn Pro Lys Met Lys Leu Lys Gln Glu Arg Asn Arg
 35 40 45

Ala Val Asn Glu Asn Ala Lys Leu Lys Ser Asn Ala Gly Leu Glu Val
 50 55 60

His Ser Lys Leu Leu Trp Ala Ile Asn Ala Ala Lys His Leu Gln Glu

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<210> 9079
<211> 84
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 9079
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Arg Leu Arg Trp Trp Lys Arg Met Met Lys Arg Leu His Gln Met Trp
1 5 10 15

Arg Leu Val Ala His Arg Phe Gln Arg Thr Arg Ser Ala Lys Ala Lys
20 25 30

Leu His Ala Asp Ala Arg Tyr Leu Arg Asp Lys Asn Ala Arg Lys Ala
35 40 45

Lys Ala Asp Pro Arg Lys Thr Ala Gln Arg Gly Glu Leu Ala Lys Val
50 55 60

Met Leu Gln Ile Ile Thr Ala Leu Lys Trp Leu Lys Ala Leu Gln Trp
65 70 75 80

Lys Ser Met His

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<210> 9080
<211> 61
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 9080
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Arg Trp Lys Leu Leu Lys Arg Tyr Leu Arg Arg Phe Pro Arg Ala Lys
1 5 10 15

Lys Glu Leu Arg Ala Thr Val Met Leu Gly Lys Lys Thr Ala Val Lys
20 25 30

Gln Lys Leu Thr Arg Arg Ser Leu Gly Leu Lys Ala Ile Glu Leu Arg
 35 40 45

Leu Gly Gln Ala Pro Arg Ile Ala Leu Lys Lys Gln Ser
 50 55 60

<210> 9081
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9081

Met Leu Arg Leu Ile Arg Arg Tyr Phe Lys Arg Ile Thr Lys Lys Asn
 1 5 10 15

Glu Met Ala Leu Lys Lys Ala Leu Gln Arg Ser Phe Leu Lys Ala Thr
 20 25 30

Ala

<210> 9082
 <211> 79
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9082

Lys Trp Lys Phe Leu Lys Arg Ile Leu Arg Lys Ile Arg Asn Leu Phe
 1 5 10 15

Pro Arg Ala Ser Ser Lys Arg Asp Asn Trp Arg Gly Thr Ala Gln Trp
 20 25 30

Arg Leu Phe Tyr Ala Gly His Lys Ala Gly Lys Arg Arg Val Val Ala
 35 40 45

Leu Ala Thr Ala Arg Leu Arg Lys Leu Glu Trp Ile Leu Arg Pro Pro
 50 55 60

Arg Ala Ile Arg Asp Ala Ser Gly Ala Gly Leu Lys Leu Arg Gln

65 70 75

<210> 9083
 <211> 45
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant
 <400> 9083

Arg Tyr Lys Ile Tyr Lys Arg Leu Leu Lys Arg Phe Arg Asn Cys Ala
 1 5 10 15

Met Lys Leu Ala Gly Phe Glu Ala Lys Met Val Arg Cys Phe Thr Leu
 20 25 30

Lys Leu Ile Ala Lys Lys Ala Ile Ser Ala Ala Val Phe
 35 40 45

<210> 9084
 <211> 52
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant
 <400> 9084

Lys Ile Arg Trp Met Pro Lys Met Tyr Lys Phe Tyr Arg Lys Ala Leu
 1 5 10 15

Glu Leu Arg Ala Lys Ala Pro Arg Arg Phe Thr Leu Ala Lys Met Ile
 20 25 30

Lys Arg Ile Leu Gln Lys Ile Ser Leu Leu Leu Pro Thr Lys Met Lys
 35 40 45

Ser Glu Leu Lys
 50

<210> 9085
 <211> 57
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9085

Arg Leu Lys Leu Phe Pro Lys Phe Ile Lys Lys Leu Ser Arg Arg Ile
 1 5 10 15

Arg Leu Arg Ala Ala Gly Leu Asn Val Leu Lys Pro Tyr Leu Lys Arg
 20 25 30

Leu Leu Leu Leu Arg Arg Thr Ile Lys Ala Leu His Lys Asn Ser Met
 35 40 45

Gln Lys Leu Lys Leu Leu Arg Arg Ala
 50 55

<210> 9086

<211> 58

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9086

Arg Leu Arg Leu Trp Lys Lys Leu Met Lys Met Leu Thr Arg Asp Arg
 1 5 10 15

Lys Ala Thr Met Ile Arg Pro Phe Lys Val Leu Lys Ser Gly Lys Val
 20 25 30

Gly Ala Asn Lys Trp Asp Tyr Ser Leu Leu Lys Glu Arg Pro Lys Leu
 35 40 45

Leu Leu Ile Asn Arg Ala Ile Gly Leu Ala
 50 55

<210> 9087

<211> 76

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9087

Arg Leu Lys Leu Met Arg Lys Leu Phe Arg Leu Tyr Cys Arg Ala His
 1 5 10 15

Trp Thr Arg Glu Phe Phe Leu Leu Arg Ala His Arg Met Val Phe Ala
 20 25 30

Ala Lys Leu Phe Arg Ser Asp Ile Gln Phe Arg Ser His Asp Arg Arg
 35 40 45

His Lys Arg Arg Arg Leu Ala Arg Arg Ala Leu Ala Glu Ala Gly Leu
 50 55 60

Asp Ser Leu Arg Ala Trp Val Leu Leu Pro Leu Phe
 65 70 75

<210> 9088

<211> 63

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9088

Leu Leu Lys Met Leu Arg Lys Phe Leu Arg Met Leu Thr Asn Leu Lys
 1 5 10 15

Gly Gly Ile Pro Ala Gln Cys Thr Glu Leu Lys Arg Arg Leu Arg Leu
 20 25 30

Leu Asp His Asn Arg Leu Val Ala Ala Arg His Arg Ala Thr Lys Ala
 35 40 45

Glu Ala Arg Lys Val Pro Gly Ala Tyr Leu Ala Arg Lys Gly Cys
 50 55 60

<210> 9089

<211> 47

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9089

Lys Ile Arg Leu Leu Pro Lys Trp Phe Arg Phe Tyr Cys Lys Lys Glu
 1 5 10 15

Ala Ala Ala Asn Ala Asn Leu Ala Lys Lys Glu His Met Leu Arg Arg

20

25

30

Thr Leu Met Trp Gly Leu Tyr Leu Thr Arg Arg Lys Lys Gln Leu
 35 40 45

<210> 9090

<211> 45

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9090

Lys Leu Arg Met Trp Gln Lys Trp Leu Lys Leu Leu Pro Lys Leu Pro
 1 5 10 15

Ala Arg Leu Lys Lys Ala Lys Lys Glu Pro Met Lys Thr Ala Ala Met
 20 25 30

Glu Gln Pro Ala His Tyr Lys Val Cys Leu Asp Arg Pro
 35 40 45

<210> 9091

<211> 39

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9091

Arg Leu Lys Leu Leu Lys Arg Phe Leu Arg Tyr Tyr Thr Lys Cys Ala
 1 5 10 15

Cys His Arg Leu Ala Glu Leu Leu Leu Trp Lys Lys Ile Met Arg Lys
 20 25 30

Ala Ser Met Lys Gly Arg Gly
 35

<210> 9092

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9092

Arg Tyr Lys Trp Phe Arg Arg Leu Leu Lys Lys Phe Gln Lys Ala Trp
1 5 10 15

Ala Ala Asn Lys Tyr Glu Phe Ile Lys Leu Ala Leu Ala Arg Arg Cys
20 25 30

Gly His Leu Lys Phe Thr Ala Trp
35 40

<210> 9093

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9093

Lys Ile Lys Met Leu Lys Lys Leu Leu Lys Leu Leu Gln Lys Thr Cys
1 5 10 15

Glu Pro Leu Lys Asp Arg Ala Leu Gly Lys Phe Cys
20 25

<210> 9094

<211> 38

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9094

Leu Phe Lys Tyr Leu Arg Lys Tyr Tyr Arg Leu Phe Lys Arg Arg Leu
1 5 10 15

Thr Ala Cys Arg Val Leu Thr Trp Pro Arg Ala Leu Lys Cys Gln Lys
20 25 30

Glu Leu Asp Trp Lys Asp
35

<210> 9095

<211> 64

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9095

Leu Ile Arg Tyr Trp Arg Arg Leu Trp Lys Leu Leu Lys Lys Leu Leu
1 5 10 15

Leu Lys Leu Lys His Pro Arg Asp Lys Gln Tyr Lys Leu Ser Leu Leu
20 25 30

Thr Lys Gln Arg His Lys Phe Leu Trp Cys Gly Cys Met Arg Ser Lys
35 40 45

Tyr Asp Ala Arg Arg Arg Cys His Phe Asp Ala Ala Lys Lys Ala Asn
50 55 60

<210> 9096

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9096

Lys Tyr Arg Leu Leu His Lys Met Tyr Arg Arg Trp Lys Arg Phe Ala
1 5 10 15

Phe Cys Leu Thr Lys Ala Ala
20

<210> 9097

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9097

Lys Ile Arg Leu Leu Gln Arg Leu Phe Arg Trp Phe Lys Lys Arg His
1 5 10 15

Trp Ala Ile Leu Lys Ala Lys Ser Ala Phe Ser Ala Lys Leu Ser Phe
20 25 30

Arg Trp Arg Gln Cys Tyr Ser Leu
 35 40

<210> 9098
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9098

Leu Tyr Lys Leu Leu Lys Arg Phe Leu Arg Phe Tyr Cys Lys Leu Val
 1 5 10 15

Asn His Ala Gln Ala Leu Ala Gly Leu Val Arg Arg Phe Arg
 20 25 30

<210> 9099
 <211> 38
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9099

Lys Leu Arg Phe Phe Lys Lys Leu Phe Arg Met Ile Arg Lys Arg Asn
 1 5 10 15

Met Lys Ala Pro Glu Leu Val Lys Cys His Ala Gln Arg Lys Ala Ala
 20 25 30

Gly Ala Met Cys Leu Glu
 35

<210> 9100
 <211> 43
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9100

Lys Phe Arg Leu Phe Lys Arg Leu Leu Arg Lys Trp Arg Arg Val Trp
 1 5 10 15

Leu Arg His Asn Cys Leu Ala Ala Val Lys Arg Ser Lys Ile Leu Pro
 20 25 30

Phe Leu Leu Gln Glu Arg Cys Asn Tyr Cys Arg
 35 40

<210> 9101
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9101

Met Leu Lys Trp Phe Pro Lys Trp Leu Arg Lys Leu His Arg Asn Arg
 1 5 10 15

Ala Glu Ala Thr Ala Lys Gln Gln Ala Ile His Gly Glu Leu Ala Lys
 20 25 30

Leu Leu Arg
 35

<210> 9102
 <211> 27
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9102

Arg Phe Arg Leu Leu Arg Lys Trp Phe Arg Phe Trp Arg Thr Leu Ile
 1 5 10 15

Ala Ala Lys Ala Ala Gln Lys Ala Met Glu Gly
 20 25

<210> 9103
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9103

Arg Tyr Lys Phe Tyr Arg Arg Leu Leu Arg Lys Phe Lys Gln Trp Gln
 1 5 10 15

Ala Tyr Lys Leu Leu Ala Leu Arg Thr Lys Ala Phe Asn Lys Arg Pro
 20 25 30

Ala Ser Asp Val Ser Trp Ala Leu
 35 40

<210> 9104
 <211> 42
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9104

Tyr Leu Lys Ile Leu His Arg Leu Phe Arg Met Ile Lys His Lys Arg
 1 5 10 15

Lys Arg Leu Asn Lys Lys Leu Phe Lys Leu Arg Arg Pro Gln Ile Leu
 20 25 30

Leu Arg Met Ala Ala Tyr Lys Trp Leu Leu
 35 40

<210> 9105
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9105

Leu Phe Arg Leu Phe Gln Arg Trp Phe Arg Lys Leu Arg Ser Leu Cys
 1 5 10 15

Ala Lys Lys Ala His Asp
 20

<210> 9106
 <211> 62
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9106

Lys	Tyr	Lys	Ile	Leu	Arg	Arg	Ile	Tyr	Lys	Lys	Leu	Lys	Ser	Ala	Asp
1				5				10						15	

Leu	Gly	Arg	Val	Lys	Lys	His	Ser	Leu	Phe	Arg	Asp	Leu	Gln	Gln	Arg
			20					25					30		

Leu	Gln	Ala	Lys	Pro	Arg	Gln	Arg	Val	Ala	Trp	Pro	His	Leu	Leu	Arg
		35					40					45			

Ser	Lys	Ile	Ala	His	Phe	Ala	Arg	Arg	Ala	Arg	Asn	Phe	Ala
	50					55					60		

<210> 9107

<211> 61

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9107

Phe	Leu	Lys	Leu	Leu	Arg	Arg	Leu	Phe	Lys	Lys	Leu	Lys	Thr	Ala	Ile
1				5				10						15	

Ala	Pro	Arg	Arg	Asp	Leu	Ala	Ala	Cys	Arg	Asp	Leu	Lys	Glu	Glu	Trp
			20					25					30		

Arg	Arg	Ala	Ser	Val	Arg	Val	Trp	Lys	Gln	Met	Arg	Thr	Gln	Tyr	Leu
		35					40					45			

Leu	Gln	Lys	Arg	His	Arg	Lys	Ala	Gly	Gln	Met	Leu	Thr
	50					55					60	

<210> 9108

<211> 64

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9108

Arg	Tyr	Arg	Met	Leu	Asn	Arg	Phe	Ile	Arg	Leu	Leu	Gln	Arg	Leu	Asp
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

Ala Arg Lys Ala Phe Asp Tyr Lys Glu Gly Ala Phe Ser Met Asn Leu
50 55 60

Lys Leu Lys Leu Leu Lys Lys Phe Ile Arg Arg Leu Arg Lys Pro Asp
1 5 10 15

Ala Lys Phe Ser Gly Arg Leu Phe Ala Gln Gln Lys Ala Leu Arg Gly
35 40 45

Leu Arg Arg Lys Ala Leu Ala Lys Trp Ile Asn
65 70 75

Phe Tyr Arg Leu Leu Arg Lys Leu Tyr Arg Lys Phe Cys Arg Ala Lys
1 5 10 15

Ala Lys Tyr Gln Ile Val Ile Ser Glu Arg Arg Arg Leu Leu Lys Tyr
 20 25 30

Arg Met Arg Met Arg Arg Pro Ala Leu Trp Thr Arg His Trp His Lys
 35 40 45

Leu Leu Gln Asn Pro Arg Ala Leu Thr Ala Tyr Ala Lys Tyr Ala Ala
 50 55 60

Gly Ala Ala
 65

<210> 9111
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9111

Lys Phe Arg Trp Leu Lys Arg Phe Phe Lys Lys Met Arg Arg Leu Gln
 1 5 10 15

Leu Gly Gln Ser Asn Leu Arg Ala Arg Ile Tyr Leu Phe Asp Ala Arg
 20 25 30

Ala Asn

<210> 9112
 <211> 44
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9112

Leu Leu Arg Leu Leu Lys Arg Met Ile Lys Leu Trp Gln Ser Arg Gly
 1 5 10 15

Trp His Ala His Arg Met Gly Ala Lys Thr Gln Leu Met Arg Ala Asn
 20 25 30

Lys Ala Arg Arg Tyr Leu Ala Ala Glu Lys Gln Met

35

40

<210> 9113
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9113

Lys Phe Arg Phe Leu Asn Arg Ile Ile Lys Leu Leu Cys Lys Gly Phe
 1 5 10 15

Lys His Cys Leu Arg Arg Ile Leu Arg Phe Leu Ala Thr
 20 25

<210> 9114
 <211> 61
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9114

Met Leu Lys Leu Leu Arg Lys Leu Leu Arg Trp Leu Arg Ser His Ala
 1 5 10 15

Ala Pro His Arg Tyr Pro Asn Gln Arg Lys Arg Leu Leu Trp Leu Cys
 20 25 30

Phe Lys Gly Val Met Phe Ala Glu Val Lys Tyr Lys Arg Ser Met Lys
 35 40 45

Leu Leu His Leu His Lys Ala Lys Asn Tyr Trp Ala Arg
 50 55 60

<210> 9115
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9115

Phe Phe Lys Tyr Leu Gln Arg Leu Ile Arg Leu Phe Lys Arg Tyr Ala

1 5 10 15

Tyr Gln Leu Ala
20

<210> 9116
<211> 73
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 9116

Arg Leu Arg Leu Met Lys Arg Ile Leu Arg Arg Tyr Lys Gln Lys Met
1 5 10 15

Leu Arg Ala Cys Ala Asn Gln Leu Ala Gly Ala Met Ser Ala Ala Ala
20 25 30

Ala Leu Ala Lys Gly Ala Asp Glu Gln Leu Lys Arg Lys Arg Leu Ala
35 40 45

Arg Lys Trp Ala Ser Val Ile Cys Phe Gln Leu Ala Lys Lys Val Asp
50 55 60

Met Ile Asn Lys His Leu Leu Lys Asp
65 70

<210> 9117
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 9117

Lys Leu Lys Ile Phe Arg Lys Leu Leu Arg Leu Leu His Cys Val Trp
1 5 10 15

Gly Gln Phe Ala
20

<210> 9118
<211> 34
<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9118

Lys Tyr Arg Phe Ile Lys Arg Met Leu Arg Arg Phe Arg Lys Ile Ala
1 5 10 15

Ala Glu Cys Asp Ala Leu Asn Asn Leu Arg Leu Arg Val Gln Lys Leu
20 25 30

Leu Glu

<210> 9119

<211> 64

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9119

Lys Met Arg Phe Phe Arg Lys Met Phe Lys Ile Met Lys Lys Ala Lys
1 5 10 15

Pro Trp Tyr Trp Leu Leu Lys Ala Lys Ala Ala Lys Asp Lys Asn Ala
20 25 30

Arg Met Ala Ile Ala Lys Arg Leu Ala Cys Leu Met Asn Glu Ala Arg
35 40 45

Asp Glu Cys Ala Trp Asp Thr Lys Arg Val Lys Ala Thr Pro Leu Ala
50 55 60

<210> 9120

<211> 44

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9120

Lys Leu Arg Leu Phe Arg Lys Met Met Lys Lys Leu His Arg Tyr Ala
1 5 10 15

Glu Thr Leu Ala Ala Arg Lys Met Leu Leu Leu Lys Arg Pro Leu Arg
 20 25 30

Leu Lys Val Glu Asn Leu Arg Asp Ala Trp Ala Tyr
 35 40

<210> 9121

<211> 85

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9121

Lys Leu Lys Ile Phe Arg Arg Phe Leu Lys Arg Trp Lys Cys Leu Val
 1 5 10 15

Leu Met Leu Ala Trp Lys Gln Leu Leu Lys Leu Arg Lys Ala Met Asn
 20 25 30

Leu His Leu Arg Gly Lys Asp Gln Asp Ala Val Phe Ala Asn His Asp
 35 40 45

Cys Ser Lys Ala Ala Arg Ile Arg Lys Pro Ala His Gln Trp Ser Leu
 50 55 60

Ser Lys Arg Ala Leu Ala Ala Ile Pro Met Leu Lys Ala Cys Arg Asn
 65 70 75 80

Gln Ser Ala Arg Ser
 85

<210> 9122

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9122

Tyr Phe Arg Leu Phe His Arg Trp Tyr Lys Leu Leu Lys Arg Ile Ser
 1 5 10 15

Gly Leu Ala Arg Lys Met Ala Gly Pro Arg Ala

20

25

<210> 9123
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9123

Arg Leu Lys Leu Met Lys Lys Leu Ile Arg Arg Met Asn Gln Asn Ala
 1 5 10 15

Leu Arg Arg Arg Ile Trp Phe Ala Trp Gln Ala Glu
 20 25

<210> 9124
 <211> 47
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9124

Leu Leu Arg Met Leu Lys Lys Leu Leu Lys Trp Phe Arg Gln Gln Met
 1 5 10 15

Ala Lys Lys Leu Cys Leu Arg Phe Lys Ala His Pro Lys Leu Arg Arg
 20 25 30

Leu Arg Ile Trp Tyr Leu Tyr Ile Val Met Met Leu Leu Thr Pro
 35 40 45

<210> 9125
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9125

Leu Met Arg Trp Phe Arg Arg Leu Leu Arg Ile Leu Arg Thr Asn Phe
 1 5 10 15

Pro Asp Ala Lys Ala Ala

20

<210> 9126
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9126

Leu Met Lys Phe Leu Arg Arg Phe Ile Arg Phe Leu Asn Arg Ala Arg
 1 5 10 15

Leu Glu Arg Cys Ser
 20

<210> 9127
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9127

Arg Phe Arg Phe Trp Lys Arg Ile Trp Lys Leu Leu His His Lys Leu
 1 5 10 15

Leu Lys Tyr Asn Tyr Pro Leu Lys Lys Leu Pro Leu Ala Arg Arg Leu
 20 25 30

Lys

<210> 9128
 <211> 95
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9128

Arg Trp Lys Phe Tyr Lys Arg Met Trp Lys Met Ile Arg Lys Leu Lys
 1 5 10 15

Gln Cys Cys Trp Leu Lys Tyr Met Phe Arg Ala Ala Ala Arg Cys Arg

Lys Tyr Arg Phe Leu Arg Arg Leu Ile Lys Met Trp Cys Arg Val Lys
1 5 10 15

Trp Asp Leu Arg Ala Ile Ala Lys Met Gly Tyr Tyr Gln Leu Lys Leu
20 25 30

Met Arg Ala Lys Ser Ala Ala Arg Val Lys
35 40

Leu Leu Arg Met Met Arg Lys Phe Ile Arg Arg Trp Ser Lys Thr Leu
1 5 10 15

Ala Lys Glu His Lys Gln Arg Ala Lys Ser Met Ala Gln Ala
20 25 30

<210> 9131
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9131

Lys Trp Arg Phe Leu Lys Lys Trp Ile Lys Arg Phe Ser Ser Lys Leu
 1 5 10 15

Glu Arg Leu Ile Thr Leu Ser Leu Ala Arg Asp Ala Met Gln Gln Ala
 20 25 30

Arg Lys Leu Pro
 35

<210> 9132
 <211> 53
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9132

Lys Met Lys Leu Phe Arg Arg Leu Leu Arg Leu Tyr Pro Ser Ala Asn
 1 5 10 15

Tyr Pro Gly Trp His Arg Ala Leu Leu Ala Trp Met Cys Lys Gly Ala
 20 25 30

Met Leu Trp Lys Trp Arg Lys Ala Ser Lys Leu Ala Lys Arg Glu Ala
 35 40 45

Asp Ala Gly Arg Asp
 50

<210> 9133
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9133

Tyr Trp Lys Met Ile Lys Lys Trp Leu Arg Leu Leu Lys Asn Ala Ala
 1 5 10 15

Trp Ala Thr Arg Leu Glu Lys Leu Val Leu Tyr Lys
 20 25

<210> 9134
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9134

Leu Tyr Lys Trp Leu Arg Arg Leu Leu Arg Arg Leu Lys Pro His Arg
 1 5 10 15

Pro Lys Trp Ala Leu Asp Lys Thr Lys Leu Met Gly Ala Leu Arg Pro
 20 25 30

Gly

<210> 9135
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9135

Arg Phe Lys Leu Met Ser Lys Leu Tyr Arg Lys Ile Arg His Ile Arg
 1 5 10 15

Ala Leu Ala Met His Lys Ile Trp Ala
 20 25

<210> 9136
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9136

Trp Tyr Arg Leu Ile Lys Arg Leu Met Arg Lys Phe Arg Lys Asp Asn
 1 5 10 15

Arg Lys Thr Leu Leu Ser Tyr Leu Arg Ala His Cys Tyr Ser Leu Met
 20 25 30

Ala Lys

<210> 9137
 <211> 45
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9137

Lys Leu Lys Phe Trp Arg Arg Phe Phe Arg Lys Leu Gln Pro Met Leu
 1 5 10 15

Ile Tyr Leu Arg Ala Ala Leu Ile Leu Glu Cys Lys Ile Leu Thr Arg
 20 25 30

Lys Pro Gln Leu Leu Arg Gly Gln Ala Asp Ala Arg His
 35 40 45

<210> 9138
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9138

Leu Phe Lys Leu Phe Lys Arg Tyr Met Lys Arg Trp Ser Arg Ala Gln
 1 5 10 15

Trp Leu Glu Ala Lys Leu Ala Val
 20

<210> 9139
 <211> 71
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9139

Lys	Leu	Lys	Met	Ile	Ser	Arg	Leu	Trp	Arg	Lys	Trp	Gln	Lys	Ala	Ala
1				5					10					15	

Pro	Lys	Val	Arg	Ser	Ala	Asn	Leu	Asp	Leu	Tyr	Thr	Ala	Val	Arg	Cys
			20					25					30		

Cys	Ala	Lys	Leu	Lys	Arg	Pro	Tyr	Leu	His	Ala	Lys	His	Leu	Arg	Leu
		35					40					45			

Arg	Ala	Pro	Ala	Ile	Phe	Lys	Asp	Thr	Asp	Leu	Ala	Arg	Thr	Thr	Val
	50					55					60				

Met	Ala	Lys	Lys	Leu	Arg	His
65					70	

<210> 9140

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9140

Lys	Leu	Arg	Leu	Leu	Asn	Arg	Phe	Phe	Lys	Leu	Met	Asn	Pro	Ser	Leu
1				5					10					15	

Met	Arg	Asn	Leu	Arg	Leu	Cys	Ile	Leu	Phe	Arg	Asp	Arg
			20					25				

<210> 9141

<211> 50

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9141

Phe	Leu	Lys	Met	Leu	Lys	Arg	Tyr	Trp	Lys	Lys	Leu	Arg	Arg	Arg	Ala
1				5					10					15	

Arg	Arg	Asn	Leu	Val	Val	Glu	Pro	Ala	Arg	Ile	Arg	Lys	His	Arg	Glu
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

20 25 30

Arg Asn Gly Lys Ala Leu Arg Phe Ile Leu Leu Asp Ala Phe Arg Glu

35 40 45

Ala Leu
50

<210>	9142
<211>	56
<212>	PRT
<213>	Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 9142

Arg Met Arg Met Leu Ser Arg Phe Phe Arg Lys Ile Lys Gln Glu Ala
1 5 10 15

Pro Ala Lys Leu Leu Phe Leu His Lys Leu Leu Asn Ala Glu Val Ala
20 25 30

Lys Ala Leu Lys Arg His Met Val Phe Phe Arg Ile Phe Leu Asp Leu
35 40 45

His Arg Leu Gly Ile Arg Leu Lys
50 55

<210>	9143
<211>	85
<212>	PRT
<213>	Artificial Sequence

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<220>
<223> Computer-generated peptide variant
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<400> 9143

Trp Leu Lys Phe Leu Lys Lys Trp Tyr Lys Arg Trp Arg Pro Arg Leu
1 5 10 15

Ala Arg His His Leu Ala Leu Gln Ala Arg Leu Leu Glu His Asn Arg
20 25 30

Leu Arg Leu Ala Arg Lys Leu Glu Lys Lys Lys Arg Val Asn Cys Leu
35 40 45

Leu Ile Lys Ser Leu Lys Leu Leu Leu Asn Ala Arg Leu Ser Phe Val
 50 55 60

Leu Glu Gly Lys Ile Arg Trp Leu Tyr Arg Lys Ser Asp Tyr Trp Ala
 65 70 75 80

Lys Cys Val Leu Leu
 85

<210> 9144
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9144

Leu Leu Lys Leu Phe Asn Lys Tyr Leu Arg Lys Tyr Arg Lys Asp Thr
 1 5 10 15

Phe Leu Ala Ala
 20

<210> 9145
 <211> 61
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9145

Lys Ile Lys Leu Leu Lys Arg Tyr Phe Lys Tyr Met Lys Gln Ala Ala
 1 5 10 15

Pro Leu Arg Arg Ala Asp Arg Lys Lys Lys Gln Trp Leu Lys His Asn
 20 25 30

Ile Leu Lys Ala Phe Ala Leu Ala Leu His Thr Ala Lys Ser Leu Tyr
 35 40 45

Lys Glu Gln Cys Ala Gly His Gly Lys Val Cys Lys Leu
 50 55 60

<210> 9146

<211> 27
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9146

Leu Phe Lys Tyr Ile Arg Arg Leu Tyr Arg Met Leu Thr Gln Arg Leu
 1 5 10 15

Asp Val Ala Thr Leu Lys Ala Lys Lys His Thr
 20 25

<210> 9147
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9147

Lys Trp Arg Leu Phe Arg Lys Leu Phe Lys Lys Leu Asn Lys Met Arg
 1 5 10 15

Asn Val Ile Arg Val Ala Ala Ala Arg Cys Ile Glu Ala Glu Trp Leu
 20 25 30

Lys Gly

<210> 9148
 <211> 47
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9148

Phe Trp Arg Phe Leu Arg Arg Leu Phe Lys Arg Trp Cys Thr Ala Pro
 1 5 10 15

Ala Ile Ile Lys Arg Met Ala Ala Arg Ala Ala Ser Gln Ala Gly Val
 20 25 30

His Ala Val Lys Lys Arg Arg Pro Val Ala Lys Tyr Leu Ile Leu

35

40

45

<210> 9149

<211> 54

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9149

Lys Tyr Lys Ile Tyr Thr Lys Tyr Met Lys Lys Phe Pro Gln Arg Arg
 1 5 10 15

Lys Leu Ser Leu Leu Ala Leu Tyr Leu Asn Arg Ala Ile Ala Leu Leu
 20 25 30

Lys Ile Asp Arg Lys Ser Ser Thr Leu Gly Arg Arg Ala Glu Arg Arg
 35 40 45

Ser Leu Leu Ala Ile Leu
 50

<210> 9150

<211> 74

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9150

Arg Leu Arg Leu Leu Lys Arg Leu Leu Lys Arg Tyr Ser Ser Lys Leu
 1 5 10 15

Arg Phe Glu Met Pro Pro Leu Leu Leu Trp His Asp Tyr Lys Ala Ala
 20 25 30

Ala Ser Gly Arg Met Leu Trp Leu Val Trp Ala Trp Ala Arg Ser Lys
 35 40 45

Ser Trp Leu Gln Arg Gly Met Tyr Lys Phe Glu Glu Phe Leu Lys Lys
 50 55 60

Tyr Leu Ala Leu Gln Leu Arg Leu Val Leu
 65 70

<210> 9151
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9151

Arg Phe Lys Ile Leu Asn Lys Leu Met Lys Lys Ile Lys Ser Ile Ser
 1 5 10 15

Ala Ala Ala Arg Lys Thr Pro Leu
 20

<210> 9152
 <211> 47
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9152

Arg Ile Arg Phe Phe Thr Lys Phe Leu Arg Ile Trp Arg Arg Lys Leu
 1 5 10 15

Thr Leu Gly Leu Cys Ala His Arg Tyr Lys Gln Ala Arg Leu Thr Leu
 20 25 30

Leu Ala Lys Ala Leu Leu Leu Trp Thr Leu Thr Trp Tyr Gly Ser
 35 40 45

<210> 9153
 <211> 58
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9153

Arg Leu Arg Trp Met Arg Lys Met Leu Arg Phe Tyr Cys Lys Leu Leu
 1 5 10 15

Glu Lys Tyr Ala Gln Asn Thr Leu Ile His Ala Ile Gln Lys Ala Leu
 20 25 30

Leu Lys Arg Arg Ala Ser Pro Lys Leu Leu Ala Lys Asn Ser Leu Thr
 35 40 45

Val Ala Glu Asn Ala Thr Thr Lys Arg Phe
 50 55

<210> 9154

<211> 90

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9154

Arg Leu Lys Ile Phe Lys Lys Phe Tyr Arg Leu Phe Ser Lys Cys Leu
 1 5 10 15

Lys Val Arg Glu Leu Lys Cys Lys Leu Asn Ala Asn Leu Glu Lys Ser
 20 25 30

Asp Arg Ala Ala Ala Phe Lys Ile Arg Cys Pro Lys Pro Ala Asp Ile
 35 40 45

Tyr Tyr Trp Asp Asn Ala Leu Leu Arg Ser Ile Thr Lys Arg Ala Ala
 50 55 60

Glu Arg Met Trp Leu Leu Trp Thr Leu Lys Lys Tyr Cys Lys Gln His
 65 70 75 80

Leu Ala Leu Leu Ala Cys Leu Ala Arg Leu
 85 90

<210> 9155

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9155

Lys Met Lys Phe Leu His Arg Leu Phe Lys Lys Leu Pro Lys Tyr Arg
 1 5 10 15

Met Arg Lys Phe Pro Gln Pro Ala Gln Leu Ser Arg Ala Ala Phe Glu

20

25

30

Lys Ala

<210> 9156
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9156

Phe Leu Lys Leu Phe Cys Arg Tyr Leu Lys Phe Trp Lys Ser Ala Arg
 1 5 10 15

Arg Arg Arg Ala Leu Val Lys Ala Ala Asn His Tyr Arg Arg Ala Ala
 20 25 30

<210> 9157
 <211> 45
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9157

Met Leu Arg Leu Tyr Pro Lys Leu Trp Lys Lys Phe Cys Lys Asp Leu
 1 5 10 15

Glu Ser Ala Lys Cys Met Leu Arg Pro His Lys Lys Lys Ala Pro Leu
 20 25 30

Ala Leu Lys Phe Arg Gly Lys Asn Pro Arg Tyr Ala Asn
 35 40 45

<210> 9158
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9158

Arg Leu Lys Leu Leu Arg Lys Ile Phe Lys Lys Leu Pro Asn Ala Ala

1 5 10 15

Ile Arg Ile Lys Thr Met Thr Cys Ala Leu Arg Gly Cys
20 25

<210> 9159
<211> 37
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 9159

Tyr Phe Arg Met Leu Arg Arg Ile Phe Lys Trp Tyr Ser Lys Arg Leu
1 5 10 15

Cys Arg Tyr Thr Ala Met Lys Asp Ile Ala Met Leu Ala Leu Lys Lys
20 25 30

Arg Leu Leu Gly Leu
35

<210> 9160
<211> 25
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 9160

Met Tyr Lys Leu Leu Arg Arg Trp Leu Arg Leu Leu Thr Arg Leu Ala
1 5 10 15

Lys Ala Val Ser Cys Arg Asn Leu Lys
20 25

<210> 9161
<211> 61
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 9161

Arg Ile Arg Met Leu Asn Arg Leu Leu Lys Arg Leu His Lys Asp Gln

1 5 10 15

Gln Lys Lys Leu Leu Ala Trp Glu Leu Met Thr Tyr Arg Gly Ala Gln
20 25 30

Ala Leu Ala Arg Ala Met Arg Leu Arg Gln Gly Lys Lys Pro Arg Leu
35 40 45

Met Lys Phe His Lys Phe Arg Ala Phe Met Lys Asp Lys
50 55 60

<210> 9162
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 9162

Lys Leu Arg Met Phe Lys Lys Trp Leu Arg Ile Leu Lys Ser Asp Lys
1 5 10 15

Arg Arg Pro Ile Ala Thr Thr Glu Cys Cys Ala Ile Ala Ala Glu Leu
20 25 30

Val Arg Lys Pro Leu Lys Met Leu
35 40

<210> 9163
<211> 70
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 9163

Arg Leu Arg Tyr Phe Arg Lys Phe Met Arg Lys Leu Arg Gln His Val
1 5 10 15

Leu Leu Ser Ala Leu Phe Arg Lys Arg Pro Pro Thr Lys Glu Ala Arg
20 25 30

Ala Leu Leu Met Ala Lys Arg Lys Gly Leu Gly Leu Lys Lys Phe Lys
35 40 45

Leu Gln His Arg Leu Lys Arg Arg Glu Leu Ala Lys Glu Cys Asn Phe
 50 55 60

Ile Thr Val Asn Ile Ser
 65 70

<210> 9164
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9164

Ile Met Lys Leu Tyr His Lys Ile Leu Lys Lys Leu Lys Lys Trp Ala
 1 5 10 15

Val Arg Asn Arg Tyr Asp Gln Ala Trp Leu Lys Ser Pro Leu Arg Leu
 20 25 30

Glu Gln Leu Leu
 35

<210> 9165
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9165

Tyr Leu Arg Tyr Ile Thr Lys Leu Leu Lys Lys Ile Arg Cys Val Leu
 1 5 10 15

Ala Ala Leu Arg Lys Ile Ala Ala Pro Ala Tyr Leu Val Arg Ala Gln
 20 25 30

Gln Arg Lys
 35

<210> 9166
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9166

Lys	Phe	Lys	Trp	Trp	Pro	Lys	Leu	Tyr	Lys	Leu	Leu	Lys	Lys	Asp	Lys
1				5					10					15	

Thr	Arg	Tyr	Ala	Trp	Arg	Gly	Leu	Ala	His	Cys	Val	Val	Cys	Ala	Glu
			20				25						30		

Ala	Arg	Leu	Ala
			35

<210> 9167

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9167

Trp	Phe	Lys	Phe	Leu	Arg	Arg	Phe	Leu	Arg	Leu	Phe	Arg	Arg	Gln	Ala
1				5				10						15	

Thr	Cys	His	Arg	Pro	Asn	Arg	Lys	Ala	Lys	Met	Asn	Leu	Leu	Ala	Arg
			20				25						30		

His Asn

<210> 9168

<211> 39

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9168

Lys	Leu	Arg	Ile	Met	Gln	Arg	Ile	Phe	Arg	Phe	Met	Lys	Lys	Leu	Leu
1				5				10						15	

Gly	Lys	Leu	Leu	Glu	Leu	Leu	Ala	Gly	Leu	Arg	Ala	Thr	Lys	Trp	Arg
			20				25						30		

Gln Asn Lys Leu Gly Leu Trp

35

<210> 9169
 <211> 27
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9169

Phe Leu Arg Leu Ile Lys Arg Tyr Phe Arg Lys Phe Ser Lys Leu Ala
 1 5 10 15

Ala Trp Asn Met Ala Lys Arg Val Lys Ala Cys
 20 25

<210> 9170
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9170

Arg Phe Arg Leu Met Cys Arg Leu Phe Lys Leu Leu Lys Gln Arg Leu
 1 5 10 15

Ser Arg Ala Ser Asn Leu Arg Leu Lys Lys Trp Lys Leu Lys Pro Leu
 20 25 30

Phe

<210> 9171
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9171

Lys Tyr Lys Leu Leu Arg Arg Ile Tyr Arg Leu Ile Asn Lys Lys Ser
 1 5 10 15

Pro Arg Gly Leu Leu Ala

20

<210> 9172
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9172

Leu Phe Arg Leu Trp Lys Lys Leu Leu Arg Lys Ile Thr His Val Ala
 1 5 10 15

Val Lys Lys Ala Pro Leu His Ile Gln Ala Ala Leu Arg Ala Leu Pro
 20 25 30

Arg Arg Tyr
 35

<210> 9173
 <211> 48
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9173

Leu Tyr Arg Trp Leu Arg Arg Met Phe Arg Leu Phe Asn Ser Cys Trp
 1 5 10 15

Arg Lys Lys Thr Val Tyr Leu Lys Pro Cys Arg Leu Arg Cys Ala Lys
 20 25 30

Lys Asp Leu Met Ala Thr Met Pro Thr Lys Ala Lys Ala Leu Ala Ala
 35 40 45

<210> 9174
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9174

Met Phe Arg Leu Trp Arg Lys Phe Ile Lys Phe Leu Cys Lys Cys Arg

1 5 10 15

Ala Lys Leu Ala Gln
20

<210> 9175
<211> 42
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 9175

Phe Leu Arg Leu Phe Arg Arg Leu Leu Arg Leu Phe Lys Pro Ala Glu
1 5 10 15

Arg Arg Thr Ala Ile Glu Thr Met Gly Ala Lys Pro Lys Lys Arg Asn
20 25 30

Ser Phe Leu Ala Ala Lys Trp Cys Leu Lys
35 40

<210> 9176
<211> 41
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 9176

Lys Leu Arg Leu Leu Pro Arg Trp Phe Lys Arg Phe Gln Lys Val Cys
1 5 10 15

Ile Ala Arg Phe Pro Lys Met Trp Arg Ile Met His Leu Leu Leu Ser
20 25 30

Leu Val Leu Ala Arg Ala Lys Glu Lys
35 40

<210> 9177
<211> 48
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 9177

Met Leu Arg Phe Phe Pro Lys Phe Phe Lys Arg Phe Arg Lys Arg Asp
 1 5 10 15

Ala Leu Arg Ala Phe Ile Lys Ser Ala Pro Arg Gly Arg Asp Leu Ala
 20 25 30

Thr Ala Lys Tyr Asp His Arg Arg Tyr Lys Leu Leu Phe Met Ala Leu
 35 40 45

<210> 9178

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9178

Met Leu Lys Tyr Met Lys Arg Leu Trp Lys Ile Tyr Lys Lys Asp Ala
 1 5 10 15

Leu Lys Gly Ile Ala Leu
 20

<210> 9179

<211> 83

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9179

Arg Met Lys Phe Trp Asn Arg Trp Leu Arg Lys Met Ser Arg Val Met
 1 5 10 15

Leu Lys Ala Ala Ala Ala Arg Arg Glu Leu Phe Lys Gln Met Gln Lys
 20 25 30

Asp Val Leu Leu Lys Trp Lys Lys Met Glu His Leu Lys Lys Leu Phe
 35 40 45

Lys Gln Ala Lys Met Lys Asp Glu Ser Tyr Ala Ser Ala Arg Lys Tyr
 50 55 60

Lys Arg Phe Trp Ala Val Lys Met Ala Lys Pro Asp Arg Ala Phe Ala
 65 70 75 80

Leu Leu Leu

<210> 9180
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9180

Lys Ile Lys Leu Leu Thr Arg Leu Leu Arg Lys Ile Asn Ser Ala Arg
 1 5 10 15

Gly Ala Arg Leu Trp Tyr Ile Arg Glu Met Ser Gly Ala Ala Lys Gln
 20 25 30

Lys Phe Leu Cys Lys Lys Arg Ala
 35 40

<210> 9181
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9181

Arg Leu Lys Met Ile Arg Lys Leu Met Lys Lys Tyr Arg Asn Leu Leu
 1 5 10 15

Ala Pro Ala Ile Leu Cys Phe Arg Arg Lys Cys Ala
 20 25

<210> 9182
 <211> 60
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9182

Leu Phe Lys Leu Leu Ser Lys Tyr Leu Arg Met Leu Arg His Cys Tyr
 1 5 10 15

Lys Leu Arg Gln Pro Trp Ser Arg Met Lys Met Ala Glu Lys Leu Asp
 20 25 30

Asn Lys Asp Ala Pro Met Tyr Leu His Leu Leu Phe Arg Leu Pro Leu
 35 40 45

Asn Arg Ala Lys Arg Leu Lys Arg Arg Lys Ile Tyr
 50 55 60

<210> 9183

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9183

Ile Leu Arg Tyr Leu Lys Lys Trp Leu Lys Ile Trp Thr His Lys Ala
 1 5 10 15

Asp Leu Arg Arg Ala Lys Leu Trp Tyr Leu Val Arg Arg His His Ala
 20 25 30

Arg Trp Ile Ala Leu Ser Arg Gln
 35 40

<210> 9184

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9184

Trp Leu Arg Tyr Phe Arg Arg Leu Leu Lys Trp Phe Arg Lys Leu Ala
 1 5 10 15

Asn Ala Tyr Ala Asp Ser Lys Phe Lys
 20 25

<210> 9185

<211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9185

Lys Phe Lys Leu Leu Asn Lys Leu Tyr Lys Leu Leu Pro Arg Trp Ile
 1 5 10 15

Leu Phe Ala Lys Phe Arg
 20

<210> 9186
 <211> 92
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9186

Met Met Arg Tyr Leu Thr Arg Leu Phe Lys Lys Trp Pro Lys Lys Leu
 1 5 10 15

Thr Lys Arg Lys Lys Met Glu Val Ser Arg Ile Leu Leu Trp Arg Ala
 20 25 30

Ala Arg Ser Lys Lys Lys Leu Ser Leu Leu Ala Trp Leu Arg Ile Pro
 35 40 45

His Ala Glu Asp Lys Asp Arg Leu Ala Ser Cys Arg Met Trp Lys Leu
 50 55 60

Glu Leu Leu Arg Lys Ala Trp Glu Ala Val Ala Leu Thr Arg Val Arg
 65 70 75 80

Lys Thr Arg Arg Gln Ala Val Tyr Leu Lys Cys Lys
 85 90

<210> 9187
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9187

Leu	Phe	Lys	Leu	Met	Gln	Arg	Leu	Trp	Lys	Arg	Phe	Arg	Lys	Trp	Gln
1				5				10						15	

Lys	Leu	Tyr	Glu	Ala	Ala	Lys	Val	Ser	Leu	Lys	Asn	Arg	Ala
			20					25					30

<210> 9188

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9188

Lys	Leu	Arg	Leu	Met	Arg	Arg	Ile	Trp	Arg	Arg	Leu	Lys	His	Met	Val
1				5				10						15	

Pro	Cys	Ser	Leu	Ala	Leu	Asp	Tyr	Leu	Met	Ala	Arg
			20					25			

<210> 9189

<211> 76

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9189

Arg	Leu	Lys	Phe	Phe	Arg	Lys	Leu	Ile	Lys	Leu	Leu	Gln	Lys	Leu	Lys
1				5				10						15	

Lys	His	His	Val	Lys	Leu	Glu	Met	Ala	Pro	Tyr	Arg	Lys	Leu	Lys	Ser
			20					25					30		

Ser	Phe	Phe	Phe	Lys	Ala	Glu	Phe	Arg	Glu	Ala	Arg	Ala	Ala	Lys	Lys
			35				40				45				

Glu	Gly	Arg	Ala	Lys	Arg	Ser	Gly	Gly	Lys	Ala	Asn	Val	Thr	Leu	Asn
	50					55					60				

Asn	Phe	Gly	Arg	Val	Ala	Leu	Lys	Ala	Lys	Gln	Val
65					70					75	

<210> 9190
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9190

Lys Met Arg Leu Leu Pro Lys Tyr Leu Arg Leu Trp Cys Arg Cys Asp
 1 5 10 15

Thr Phe Lys Arg Gln Ala Ala Arg Tyr
 20 25

<210> 9191
 <211> 60
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9191

Leu Ile Arg Leu Ile Pro Arg Tyr Phe Arg Lys Trp Arg His Glu Arg
 1 5 10 15

His Phe Lys Glu Leu Arg Leu Asn Lys Leu Arg Arg Phe Thr Leu Arg
 20 25 30

Arg Val Phe Leu Leu Leu Ile Leu Ser Asp Arg Tyr Ala Ala Met Leu
 35 40 45

Arg Lys Leu Cys Ala Lys Ser Arg Pro Lys Val Trp
 50 55 60

<210> 9192
 <211> 39
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9192

Arg Leu Arg Leu Tyr Asn Lys Leu Ile Lys Leu Ile Arg His His Arg
 1 5 10 15

Arg Cys Tyr Leu Cys Thr Leu Leu Val Lys Ile Arg Ala Gln Lys Ser
 20 25 30

Glu Lys Ala Leu Arg Leu Arg
 35

<210> 9193

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9193

Leu Leu Lys Leu Met Lys Arg Trp Phe Lys Arg Phe Lys Lys Val Ala
 1 5 10 15

Ala Gln Cys Glu Ala Trp Arg
 20

<210> 9194

<211> 38

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9194

Ile Tyr Arg Trp Leu Lys Arg Tyr Phe Arg Arg Phe Arg Asn Leu Leu
 1 5 10 15

Lys Gln Arg Trp Pro Leu Ala Met Pro Ala His Ala Ala His Lys Cys
 20 25 30

Ala Lys Leu Ser Lys Gly
 35

<210> 9195

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9195

Phe Leu Arg Trp Ile Lys Arg Leu Leu Arg Phe Leu Pro Asn Arg Arg
 1 5 10 15

Leu Lys Ala Ile Ala Arg Ala Tyr Leu Leu Arg His Lys
 20 25

<210> 9196
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9196

Lys Met Lys Phe Tyr Ser Lys Leu Leu Lys Lys Phe Lys His Ile Leu
 1 5 10 15

Ala Ala Ala Arg Met
 20

<210> 9197
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9197

Leu Met Arg Leu Leu Thr Lys Leu Leu Lys Ile Leu Lys Arg His Gly
 1 5 10 15

Asp Leu Glu Asp Ile Leu Asn Lys Thr Ala His Met Ile Arg Arg Phe
 20 25 30

Leu Arg

<210> 9198
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9198

Met Phe Lys Leu Met Lys Arg Phe Trp Arg Tyr Leu Lys Cys Lys Ala
 1 5 10 15

Arg Arg Thr Asp Leu Arg Leu Leu Ala Lys Pro Cys Thr Ala Asp Lys
 20 25 30

His Leu Tyr
 35

<210> 9199
 <211> 74
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9199

Tyr Leu Lys Met Ile Arg Lys Leu Ile Lys Met Trp Lys Lys Ile Val
 1 5 10 15

Met Lys Leu Glu Leu Leu Ile Lys Phe Lys Glu Leu Leu Thr Ala Arg
 20 25 30

Asn Leu Leu Leu Ala Leu Cys Glu Arg Glu Gln Leu Leu Arg Leu
 35 40 45

Arg Lys Arg Gly Phe Leu Lys Asp Lys Val Pro Arg Arg His His Arg
 50 55 60

Arg Gln Ala Ile Leu Leu Gln Lys Arg Phe
 65 70

<210> 9200
 <211> 27
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9200

Leu Trp Lys Tyr Leu Gln Arg Tyr Leu Lys Lys Leu Arg Lys Gln Ala
 1 5 10 15

Met Gln Ala Ile Arg Lys Arg Trp Leu Asn Gln

20

25

<210> 9201
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9201

Lys Phe Arg Tyr Phe Gln Arg Leu Leu Arg Arg Leu His Ser Gly Arg
 1 5 10 15

Ala Gly Trp Leu Leu Ala Glu
 20

<210> 9202
 <211> 61
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9202

Arg Phe Arg Phe Tyr Asn Lys Phe Leu Arg Lys Leu Lys Arg Asn Lys
 1 5 10 15

Cys Lys Leu Ala Ala Thr Lys Lys Ala Glu Val Ser Tyr Gly Lys Ile
 20 25 30

Arg Leu Leu Lys Glu Leu Phe Glu Ala Arg Val His Lys Ala Glu Leu
 35 40 45

Ser Met Phe Lys Ala Leu Ala Ala Arg Asp Ile Lys
 50 55 60

<210> 9203
 <211> 31
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9203

Leu Phe Arg Ile Tyr Lys Arg Met Trp Lys Ile Tyr Arg Pro Asn Leu

1 5 10 15

Leu Arg Leu Ile Leu Ala Arg Lys Leu Lys Lys His Leu Ala Ala
20 25 30

<210> 9204
<211> 43
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 9204

Arg Phe Lys Leu Leu Arg Arg Ile Trp Lys Arg Ile Arg Gln Lys Ala
1 5 10 15

Ala Tyr Gly Asp Lys Glu Ala Arg Lys Ala Lys Lys Ala Ala Leu Trp
20 25 30

His Ala Thr Asp Glu Pro Asn Ala Arg Cys Leu
35 40

<210> 9205
<211> 43
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 9205

Arg Phe Lys Leu Leu Lys Arg Trp Ile Lys Ile Leu Arg Cys Gly Ala
1 5 10 15

Lys Ala Asp Ala Gln Gly Arg Pro Leu Cys Glu Pro Ala Gln Arg Pro
20 25 30

Arg Ser Leu Gly Ala Cys Arg Leu Ala Lys Phe
35 40

<210> 9206
<211> 36
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 9206

Leu Met Lys Met Leu Arg Arg Met Leu Arg Trp Phe Arg Asn Ala Arg
 1 5 10 15

Ala Tyr Gln His Thr Leu Leu Arg Asn Gly Leu Phe Leu Gln Lys Ser
 20 25 30

Pro Leu Lys Lys
 35

<210> 9207

<211> 43

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9207

Lys Met Lys Leu Leu Lys Arg Leu Leu Arg Phe Leu Arg Gln Ala Ser
 1 5 10 15

Lys Lys Ala Leu Arg Pro Arg Val Ala Lys Met Cys Ser Phe Gly Ala
 20 25 30

Gln Lys Lys Ala Lys Asn Arg Asp Pro His Gly
 35 40

<210> 9208

<211> 41

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9208

Arg Leu Arg Ile Leu Pro Arg Met Leu Lys Arg Tyr Arg Lys Ser Thr
 1 5 10 15

Lys Ala Pro Ala Lys Ala Pro Met Arg Leu Phe Arg Leu Arg Ser His
 20 25 30

Cys Ala Leu Ala Ala Met Lys Arg Asp
 35 40

<210> 9209
 <211> 42
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9209

Arg Tyr Lys Ile Phe Lys Lys Met Met Arg Lys Tyr Cys Ser Leu Lys
 1 5 10 15

Leu Ala Leu Ala Pro Gln Ala Glu Lys Met Leu Lys Arg Lys Ala Arg
 20 25 30

Leu Arg Val Ala Ala Tyr Val Pro Trp Arg
 35 40

<210> 9210
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9210

Ile Trp Arg Tyr Ile Arg Lys Leu Tyr Arg Lys Leu Thr Thr Ala Leu
 1 5 10 15

Ala Arg Lys Leu Met Leu Pro
 20

<210> 9211
 <211> 55
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9211

Lys Trp Lys Leu Trp Arg Arg Ile Ile Lys Phe Phe Lys Lys Lys Leu
 1 5 10 15

Phe Arg Lys Ala Val Leu Cys Lys Arg Ala Lys Ala Ala Asp Lys Leu
 20 25 30

Arg Gly Leu Met Tyr His Cys Ala Ser Lys Leu Val Phe Ala Leu Val
 35 40 45

Val Arg Ala Tyr Phe Lys Ala
 50 55

<210> 9212

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9212

Arg Ile Lys Met Leu Pro Arg Met Leu Lys Lys Trp Arg Lys His Leu
 1 5 10 15

Ser Leu Arg Trp Ala His Leu Met
 20

<210> 9213

<211> 76

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9213

Arg Leu Lys Met Leu Lys Lys Trp Leu Lys Leu Leu Arg Thr Lys Ser
 1 5 10 15

Lys Ser Tyr Leu Leu Pro Asn Lys Trp Glu Met Leu Pro Arg His Ser
 20 25 30

Ala Phe Thr Leu Lys Thr Ala Lys Leu Arg Asn Gly Cys Arg Lys Leu
 35 40 45

Ala Arg Trp Val Arg Tyr His Leu Tyr Leu Leu Ala Ala Pro Ala Leu
 50 55 60

Ile Gly Ile Ala Lys Glu Lys Phe Ser Leu Lys Cys
 65 70 75

<210> 9214

<211> 77
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9214

Arg Leu Lys Tyr Leu Arg Arg Leu Ile Arg Arg Trp Arg Arg Leu Arg
 1 5 10 15

Asp Phe Ala Arg Ala Arg Arg Arg Gln Leu Arg Lys His Ala Leu Lys
 20 25 30

Asn Phe Cys Thr Ala Trp Trp Ala Arg Leu Lys Arg Thr Arg Asn Ala
 35 40 45

Ala Arg Asn Gly Ile Leu Leu Glu Pro Leu Leu Phe Ser Lys Pro Asp
 50 55 60

Ala Lys Tyr Ser Pro Gln Val Glu His Trp Asp Cys Ala
 65 70 75

<210> 9215
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9215

Lys Leu Arg Leu Leu Asn Lys Leu Leu Arg Lys Phe Lys Ser Leu Lys
 1 5 10 15

Asp Glu Gln Gln Val Leu Thr Phe
 20

<210> 9216
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9216

Arg Leu Arg Leu Tyr Arg Arg Met Leu Arg Tyr Tyr Gln Lys Gly Glu

1 5 10 15

Lys Leu Leu Ala His Ala
20

<210> 9217
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 9217

Lys Leu Arg Leu Leu Gln Arg Leu Leu Lys Arg Trp Thr Lys Glu Arg
1 5 10 15

Arg Lys Tyr Ala Gln Arg Ala Arg Val Thr Ala Trp Glu Phe Arg Thr
20 25 30

Leu Cys Ala
35

<210> 9218
<211> 34
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 9218

Arg Leu Lys Leu Met Lys Lys Phe Leu Arg Leu Phe Ser Thr Ala Leu
1 5 10 15

Val Asp Ser Arg Phe Leu Lys Ala Leu His Arg Ala Gly Asn His Lys
20 25 30

Ala Ala

<210> 9219
<211> 84
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 9219

Arg Leu Arg Phe Ile Asn Arg Leu Phe Arg Lys Phe Thr Arg Ala Ala
 1 5 10 15

Ala Ala Lys Ile Ala Lys Leu Trp Gly Asp Leu Asn Phe Cys His His
 20 25 30

Asn Gly Cys Arg Phe Val Ala Arg Lys Lys Gly Leu Lys Arg Gly Trp
 35 40 45

Leu Lys Lys Lys Ala Tyr Leu Asn Lys Arg Cys Glu Ala Lys Leu Arg
 50 55 60

Lys Arg Gly Leu Arg Ile Leu Lys Gln Thr Glu Leu Arg Leu Leu Leu
 65 70 75 80

Ala Cys Met Ala

<210> 9220

<211> 38

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9220

Arg Tyr Arg Phe Met Asn Arg Phe Leu Lys Lys Phe Gln Lys Arg Ala
 1 5 10 15

Met Trp Leu Leu Lys Ala Lys Arg Ile Trp Ala His His Val Arg Leu
 20 25 30

Thr Leu Trp Leu Glu Ala
 35

<210> 9221

<211> 55

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9221

Phe Leu Arg Leu Trp Arg Arg Leu Leu Arg Trp Met Arg Cys Tyr Ala
 1 5 10 15

Arg Lys Thr Lys Leu Arg Leu Gln Asp Pro Met Ala Ser Gln Lys Lys
 20 25 30

Leu Gly Ala Ala Lys Leu Asn His Ala Arg Ala Leu Trp Lys Met Lys
 35 40 45

Lys Arg Thr Gln Cys Lys Glu
 50 55

<210> 9222

<211> 78

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9222

Leu Leu Lys Phe Ile Lys Lys Leu Trp Arg Arg Leu Asn Asn Lys Ile
 1 5 10 15

Arg Arg Arg Asn Thr Met Gln Trp Lys Ser Ala Leu Leu Lys Ser Glu
 20 25 30

Arg Ala Ser Ala Asp Phe Leu Trp Thr Leu Arg Leu Tyr Ile Gln Cys
 35 40 45

Val Met Leu Lys Arg Arg Arg Lys Asn Ala Lys Ile Lys Gln Tyr Cys
 50 55 60

Ile Arg Arg Met Ala Ala Leu Arg Leu Tyr Leu Ala Thr Ser
 65 70 75

<210> 9223

<211> 67

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9223

Leu Met Arg Phe Tyr Arg Arg Leu Phe Lys Arg Ile Lys Lys Leu Leu

1					5					10					15				
Leu	Arg	Leu	Lys	Arg	Arg	Lys	Ala	Arg	Ala	Leu	Val	Lys	Tyr	Phe	Trp				
			20					25					30						
Glu	Ser	Asn	Cys	Asn	Phe	Leu	Glu	Ala	Ala	Pro	Asp	Lys	Leu	Tyr	Asn				
		35					40					45							
Phe	Lys	Tyr	Lys	Phe	Thr	Trp	Gly	Ala	Lys	Lys	Cys	Arg	Leu	Phe	Tyr				
	50					55					60								

Lys Ala Ser
65

<210>	9224
<211>	44
<212>	PRT
<213>	Artificial Sequence

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<220>
<223> Computer-generated peptide variant
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<400> 9224

Lys Leu Arg Leu Phe Thr Arg Ile Leu Lys Arg Phe Lys Lys His Trp
1 5 10 15

Lys Cys Cys Pro Leu Tyr Leu Asp Leu Arg Pro Ser Ser Gly Leu Ala
20 25 30

Ala Lys Ser Leu Leu Pro Ala Leu Lys Lys Gln Leu
35 40

<210>	9225
<211>	20
<212>	PRT
<213>	Artificial Sequence

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<220>  
<223> Computer-generated peptide variant
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<400> 9225

Arg Phe Arg Leu Leu Cys Lys Leu Ile Arg Lys Trp Pro Asn Leu Ser
1 5 10 15

Trp Gln Arg Leu
20

<210> 9226
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9226

Met Leu Arg Leu Phe Lys Lys Tyr Leu Arg Lys Trp Lys Ser Arg Ala
 1 5 10 15

Ile Phe Ile Lys Arg Ala Val Ala Ala
 20 25

<210> 9227
 <211> 50
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9227

Arg Phe Lys Phe Trp Ser Lys Ile Leu Lys Leu Phe Arg Pro Arg Met
 1 5 10 15

Leu Arg Leu Leu Lys Gly Lys Arg Lys Ala Tyr Leu Ala Ala Pro Lys
 20 25 30

Pro Lys Asp Arg Ala Tyr Leu Gly Ala Arg Arg Leu Gln Lys Ala Met
 35 40 45

Leu Tyr
 50

<210> 9228
 <211> 31
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9228

Arg Trp Lys Phe Ile Lys Lys Trp Tyr Arg Lys Leu Arg Lys Lys Ala
 1 5 10 15

Ala Asn Ala Phe Arg Arg Thr Ser Asn Cys Ala Leu Ala Ala Leu
 20 25 30

<210> 9229
 <211> 67
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9229

Phe Ile Arg Phe Leu Lys Arg Leu Trp Lys Arg Met Lys Lys His Leu
 1 5 10 15

Glu Leu Thr Leu Gly Ala Leu Ala Ser Ala Leu Ala Lys Leu Glu Arg
 20 25 30

Arg Tyr Ala Asn Asp Phe Thr Gln Lys Lys His Ala Arg Ala Lys Leu
 35 40 45

Asp Arg Glu His Ala Lys Pro Ala Cys Ile Lys Leu Cys Met Thr Arg
 50 55 60

Trp Leu Asn
 65

<210> 9230
 <211> 49
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9230

Arg Ile Lys Ile Leu Pro Arg Phe Leu Lys Arg Trp Cys Lys Leu Pro
 1 5 10 15

Arg Ser Pro Lys Lys Phe Gly Tyr Ala Gly Ala Ala Leu Ala Asp Ala
 20 25 30

Arg Pro Glu Ala Leu Gln Ala Asp Ala Glu Lys Gly Arg Leu Leu Arg
 35 40 45

Ala

<210> 9231
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant
 <400> 9231

Lys Phe Lys Phe Leu Arg Lys Phe Ile Lys Leu Phe Arg Thr Arg Gly
 1 5 10 15

Leu Arg Gly Gly Leu Lys Phe Phe Arg Phe Ala Asn Ala Arg Leu Thr
 20 25 30

Ile Leu

<210> 9232
 <211> 55
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant
 <400> 9232

Leu Trp Arg Leu Leu Arg Arg Ile Leu Lys Arg Trp Lys Lys Val Lys
 1 5 10 15

Leu Leu Ala Ser Lys Gly His Ala Arg Leu Met Arg Trp Lys Met Leu
 20 25 30

Ile Ala Cys Phe Asn Ala Leu Leu Tyr Leu Gln Arg Cys Met His Arg
 35 40 45

Leu Cys Trp Tyr Lys Leu Val
 50 55

<210> 9233
 <211> 51
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9233

Met Tyr Arg Leu Met Pro Arg Leu Phe Lys Lys Met Lys Arg Arg Tyr
 1 5 10 15

Ser Gly Lys Lys Lys Ala Gln Leu Met Ala Lys Leu Arg Leu Ala Asn
 20 25 30

Lys Tyr Leu Lys Glu Asn Arg Thr Ile Leu Ile Leu His Tyr Ala Lys
 35 40 45

Val Leu Glu
 50

<210> 9234

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9234

Trp Tyr Lys Phe Trp Arg Arg Leu Leu Arg Lys Leu Arg Lys Thr Ala
 1 5 10 15

Ala Asn Arg Cys Ala Glu Ala Pro Ala Lys Met Gln Phe Trp Gln Ala
 20 25 30

Leu His

<210> 9235

<211> 71

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9235

Phe Ile Lys Phe Ile Lys Arg Phe Leu Lys Lys Met Ser Lys Arg Leu
 1 5 10 15

Leu Met Lys Leu Arg Ala Lys Lys Leu Glu Ala Arg Ala Leu Arg Ala
 20 25 30

Leu Leu Pro Lys Arg Ile Arg Lys Arg Met Asn Pro Leu Gly Leu Cys
 35 40 45

Lys Cys Trp Thr Asp Ser Lys Ile Ala Arg Gln Cys Lys Pro Val Lys
 50 55 60

Val Leu Thr Lys His Ala Met
 65 70

<210> 9236
 <211> 47
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9236

Arg Phe Arg Leu Leu Pro Arg Trp Leu Arg Arg Ile Arg Arg Pro Leu
 1 5 10 15

Trp Asn Ala Glu Arg Thr Ile Ala Arg Thr Arg Ala Ala Phe Leu Asp
 20 25 30

Ala Cys Lys Phe Arg Lys Val Asn Asn Leu Leu Ala Lys Glu Met
 35 40 45

<210> 9237
 <211> 67
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9237

Leu Tyr Lys Tyr Phe Pro Lys Trp Leu Lys Arg Leu Arg Pro Leu Leu
 1 5 10 15

Ala Val Glu Phe Lys Leu His Gly Leu Leu Ser Leu Arg Lys Ala Asp
 20 25 30

Met Val Trp Lys Arg Leu Arg Glu Cys Glu Arg Ser Ala Lys Lys Ala
 35 40 45

Cys Asp Gly Arg Ala Pro Gln Arg Gly Ala His Arg Leu Leu Tyr Tyr

50

55

60

Lys Lys Trp
65

<210> 9238
<211> 62
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 9238

Arg Met Lys Met Phe Gln Lys Phe Leu Lys Lys Phe Lys Gln Ala Leu
1 5 10 15

Leu Leu Pro Leu Ala Phe Asn Ile Arg Leu Glu Gln Glu Tyr Leu Leu
20 25 30

Tyr Ala Pro Gly Gly Lys Leu Ile Lys Pro Val Lys Leu Lys Leu Pro
35 40 45

Ile Ala Ser Lys Lys Lys Arg Arg Ala Phe Arg Lys His Leu
50 55 60

<210> 9239
<211> 49
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 9239

Leu Leu Arg Leu Leu Lys Lys Phe Trp Lys Lys Met Arg Lys Lys Leu
1 5 10 15

Pro Met Leu Lys Arg Asp Ala Arg Ala Cys Ala Leu Val Lys Asp Glu
20 25 30

Ala Val Ala Arg Ser Met Gly Met Lys Pro Ser Gln Leu Gly Ala Ala
35 40 45

Leu

<210> 9240
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9240

Phe Phe Lys Phe Leu Arg Arg Phe Leu Lys Phe Phe Lys Lys Leu Lys
 1 5 10 15

Cys Tyr Leu Lys Leu Ala Lys Met Lys Asp Arg Val Ala His Glu Leu
 20 25 30

Phe

<210> 9241
 <211> 56
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9241

Trp Met Arg Trp Phe Arg Arg Leu Tyr Arg Trp Tyr Arg Cys Ser Ser
 1 5 10 15

Ala Lys Gly Ala Lys Leu Lys Leu Lys Cys Leu Pro Lys Asn Lys Leu
 20 25 30

Glu His Lys Arg Arg Asp Ala Leu Cys Lys Gly Lys Ala Arg Asp Arg
 35 40 45

Ala Lys Met Ala Phe Ala Leu Leu
 50 55

<210> 9242
 <211> 46
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9242

Lys Leu Lys Met Ile Arg Lys Ile Trp Arg Arg Leu Arg Lys Ser Lys
 1 5 10 15

Lys Gly Tyr Leu Asn Ala Leu Leu Asn Met Ala Leu Asp Tyr Cys Pro
 20 25 30

Ala Pro Ala Ala Lys Arg Val Tyr Ile Arg Gln Arg Ser Arg
 35 40 45

<210> 9243
 <211> 38
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9243

Leu Tyr Lys Phe Leu Ser Arg Leu Phe Lys Lys Met Cys Arg Leu Leu
 1 5 10 15

Ala Arg Pro Lys Asp Met Lys Lys Val Arg Ser Val Leu Gly Leu Leu
 20 25 30

Pro Trp His Arg Val Ala
 35

<210> 9244
 <211> 72
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9244

Arg Leu Lys Phe Phe Arg Lys Leu Leu Lys Arg Trp Arg Arg Arg Phe
 1 5 10 15

Val Lys Glu Ile Tyr Leu Leu Ala Arg Trp Arg Asn Gly Ala Ala Lys
 20 25 30

Glu Tyr Gln Tyr Leu Leu Leu Ala Leu Arg Arg Trp Arg Ala Phe Ile
 35 40 45

Leu Cys Gly Leu Ala Ala Lys Thr Trp Lys Met Asp Arg Arg Val Trp

50

55

60

Lys Pro Gln Ile Gly Leu Arg Thr
 65 70

<210> 9245
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9245

Lys Ile Arg Leu Leu Lys Lys Leu Leu Arg Tyr Ile Lys Lys Ala Gly
 1 5 10 15

Ala Glu Phe Arg Gly Phe Met His Cys
 20 25

<210> 9246
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9246

Ile Leu Arg Leu Phe Lys Arg Leu Tyr Lys Leu Phe Thr Thr Arg Gln
 1 5 10 15

Leu Lys Leu Lys Thr Asp Leu Met Trp Lys Phe Ala Lys Leu Lys Ser
 20 25 30

Trp

<210> 9247
 <211> 37
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9247

Phe Leu Arg Met Leu Asn Lys Ile Leu Lys Tyr Tyr Lys Arg Ala Asp

Pro Leu Arg Ser Phe Trp Glu Lys Asp Lys Ala Lys Lys Met Cys Ala

20 25 30

His Arg Leu Leu Arg
35

<210>	9248
<211>	65
<212>	PRT
<213>	Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 9248

Lys Ile Lys Phe Trp Arg Lys Phe Leu Arg Trp Leu Arg Arg Ser Arg
1 5 10 15

Met Ala Ala Arg Trp Phe Arg Ser Ala Asn Leu Leu Arg Pro Lys Lys
20 25 30

Ala Tyr Lys Trp Val Ala Arg Cys Leu Ala His Arg Phe Leu Ala Trp
35 40 45

Phe Ser Asp Gln Leu Phe Ala Tyr Arg Ala Ala Lys Glu Ala Asp Tyr
50 55 60

Gly
65

<210>	9249
<211>	25
<212>	PRT
<213>	Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 9249

Lys Leu Lys Met Tyr Asn Lys Leu Phe Lys Lys Leu Lys His Leu Ala
1 5 10 15

Leu Ala Tyr Ala Asn Asp Val Arg Arg
20 25

<210> 9250
 <211> 26
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9250

Phe Phe Lys Leu Leu Thr Arg Leu Ile Arg Ile Trp Thr Thr Ala Arg
 1 5 10 15

Ala Leu Leu Cys Arg Asn Arg Ala Arg Leu
 20 25

<210> 9251
 <211> 87
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9251

Arg Leu Lys Leu Leu Arg Arg Tyr Leu Lys Ile Phe Arg Lys Ala Leu
 1 5 10 15

Pro Ile Lys Leu Lys Val Arg Arg Cys His Ala Lys Leu Ser Asn Gln
 20 25 30

Lys Arg Asn Ser Lys Tyr Pro Thr Asn Glu Asp Lys Arg Pro Arg Arg
 35 40 45

Lys Thr Gln His Leu Gly Ala Ala Lys Arg Tyr Val Ala Pro Arg Ser
 50 55 60

Glu Ala Thr Thr Phe Ser Cys Leu Arg Gly Thr Leu Val Ala Arg Ala
 65 70 75 80

Lys Ala Thr Ala Ala Ile Arg
 85

<210> 9252
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9252

Lys Leu Arg Ile Leu His Arg Leu Ile Lys Tyr Phe Thr Arg Lys Ala
 1 5 10 15

His Tyr Leu Ala Asp Lys
 20

<210> 9253

<211> 64

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9253

Arg Leu Arg Leu Leu Asn Lys Trp Trp Arg Arg Trp Pro Asn Ala Phe
 1 5 10 15

Arg Trp Glu Leu Val Leu Ala Glu Arg Leu Lys Ala Asp Lys Val Lys
 20 25 30

His Phe Cys Ala Leu Arg Val Gly Val Trp Asn Lys Leu Lys Ala Thr
 35 40 45

Ala Val Trp Lys Lys Trp Arg Arg Asp Pro Arg Ala Lys Ile Arg Arg
 50 55 60

<210> 9254

<211> 84

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9254

Arg Met Arg Ile Met Arg Arg Ile Tyr Arg Arg Tyr Lys Ser His Cys
 1 5 10 15

Trp Lys Cys Ser Ala Leu Phe Arg Ala Ala Ala Met Trp Ala Arg Met
 20 25 30

Ala Leu Arg Leu Trp Gln His Ala Ser Arg Arg Leu Leu Ser Arg Ala

35

40

45

Leu Ala Lys Lys Ala Leu Cys Arg Lys Lys Leu Arg Leu Arg Gln Lys
 50 55 60

Ile Arg Gln Pro Ala Arg Ile Lys Lys Ile Pro Asp Leu Tyr Trp Tyr
 65 70 75 80

Gln Met Met Arg

<210> 9255

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9255

Arg Met Arg Tyr Tyr Asn Lys Leu Phe Lys Lys Tyr Pro Lys Tyr Ala
 1 5 10 15

Leu Glu Met Ala Leu Arg Asp Lys Leu
 20 25

<210> 9256

<211> 39

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9256

Lys Leu Arg Phe Phe Arg Lys Leu Phe Lys Leu Ile Arg Lys Ala Glu
 1 5 10 15

Lys Asn Val Gln Cys Leu Gly Ser Ala Arg Leu Met Trp Ala Leu Ala
 20 25 30

Leu Met Tyr Lys Met Asn Lys
 35

<210> 9257

<211> 41

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9257

Arg Met Lys Leu Trp Lys Arg Leu Leu Arg Arg Tyr Ser Arg Arg Gly
1 5 10 15

Thr Leu Arg Ala His Asn Met Leu Asn Asn Leu Leu Asn Gln Ala Val
20 25 30

Ala Arg Ala Arg Leu Met Arg Arg His
35 40

<210> 9258

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9258

Lys Leu Arg Tyr Trp Cys Lys Leu Met Lys Lys Leu Ser Cys Pro Arg
1 5 10 15

Leu Lys Leu Lys Ala Tyr Met Leu
20

<210> 9259

<211> 62

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9259

Lys Leu Arg Phe Met Arg Arg Trp Trp Arg Arg Trp Cys Cys Glu Arg
1 5 10 15

Ala Leu Lys Trp Arg Arg Glu Arg Lys Val Ala Ile Leu Arg Arg Ala
20 25 30

Phe Ala Ile Arg Ala Pro Leu Lys Arg His Lys Trp Arg Gln Ser Ala
35 40 45

Leu Pro Leu Arg Glu Leu Leu Leu Arg Leu Lys Phe Leu Thr
 50 55 60

<210> 9260
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9260

Arg Met Lys Met Trp Cys Lys Tyr Phe Arg Leu Leu Arg Cys Cys Leu
 1 5 10 15

Tyr Ala Lys Ser Ala Leu Arg Arg
 20

<210> 9261
 <211> 38
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9261

Arg Met Lys Leu Ile Cys Arg Phe Phe Arg Lys Trp Lys Asn Leu Leu
 1 5 10 15

Ala Lys Lys Ala Cys Cys Gly Arg Lys Leu Arg Tyr Ala Leu Met His
 20 25 30

Ser Ile Leu Ala Trp Ile
 35

<210> 9262
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9262

Leu Leu Arg Leu Leu Pro Lys Phe Met Lys Lys Leu Lys Gln Met Met
 1 5 10 15

Asn Trp Ala Trp Arg Lys Glu Leu
20

<210> 9263
<211> 22
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 9263

Lys Leu Arg Leu Leu His Lys Phe Tyr Lys Lys Leu Lys Arg Phe Lys
1 5 10 15

Lys Ile Leu Leu Leu Asn
20

<210> 9264
<211> 80
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 9264

Leu Leu Arg Leu Ile Lys Arg Phe Leu Arg Arg Leu Gln Arg Lys Ala
1 5 10 15

Arg Ala Ala Glu His Gly Leu Gln Asp Ala Ala Lys Gln Ile Lys Tyr
20 25 30

Pro Ala Arg Leu Arg Arg Ile Arg Pro Lys Ala Gln Lys Arg Phe Ile
35 40 45

Ile Tyr His Lys Glu Tyr Lys Leu Arg Glu Ala Asp Asp Lys Trp Tyr
50 55 60

Ala Phe Lys Met Arg Leu His Arg Thr Ala Met Lys Glu His Ala Leu
65 70 75 80

<210> 9265
<211> 47
<212> PRT
<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9265

Lys	Phe	Lys	Trp	Trp	Lys	Lys	Leu	Ile	Lys	Lys	Met	Ser	Pro	Ala	Lys
1				5					10					15	

Glu	Thr	Met	Ala	Gln	Leu	Asn	Gln	Arg	Tyr	Leu	Trp	Asp	Arg	Ala	Arg
			20					25					30		

Ala	Ala	Arg	Ala	Tyr	Ala	Phe	Lys	Lys	Arg	Gly	Cys	Leu	Gly	Ala
		35					40					45		

<210> 9266

<211> 31

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9266

Leu	Ile	Lys	Leu	Ile	Lys	Arg	Phe	Ile	Lys	Phe	Leu	Arg	Lys	Lys	Gln
1				5					10					15	

Ala	Leu	Lys	Lys	His	Leu	Phe	Val	Ala	Leu	Arg	Gln	Tyr	Tyr	Asp
			20					25					30	

<210> 9267

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9267

Lys	Leu	Lys	Leu	Leu	Lys	Arg	Ile	Leu	Lys	Arg	Tyr	Arg	Ser	Arg	Leu
1				5					10					15	

Lys	Phe	Ser	Leu	Lys	Arg	Cys	Arg	Ala	Ala	Gly	Trp	Gln	Leu	Phe	Phe
			20					25					30		

Thr

<210> 9268

<211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9268

Lys Leu Arg Phe Tyr Gln Arg Leu Ile Arg Leu Ile His Arg Ala Leu
 1 5 10 15

Ile Thr Arg Tyr
 20

<210> 9269
 <211> 45
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9269

Arg Tyr Arg Ile Phe Asn Arg Leu Leu Arg Leu Trp Lys Thr Ala Leu
 1 5 10 15

Lys Ala Ala Asn Cys Asp Asn Glu Ala Arg Lys Val Tyr Arg Cys Leu
 20 25 30

Leu Trp Trp Arg Arg Leu Gln Arg Ala Gln Leu Glu Trp
 35 40 45

<210> 9270
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9270

Lys Leu Lys Leu Phe Arg Lys Phe Tyr Lys Lys Phe Ser His Ala Ala
 1 5 10 15

Ala Lys Arg Ala Gly Gln Asp
 20

<210> 9271

<211> 59
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9271

Phe Leu Arg Phe Leu Arg Lys Leu Met Lys Arg Leu Lys Arg Ala Glu
 1 5 10 15

His Trp Cys Leu Leu Ala Leu Arg Ala Arg Ala Arg Leu Leu Gly Ala
 20 25 30

Arg Lys Asp Phe Pro Arg Arg Ile Lys Cys Ser Lys Val Ala Ser Ala
 35 40 45

Leu Arg Tyr Arg His Pro Val Thr Lys Cys Asp
 50 55

<210> 9272
 <211> 60
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9272

Lys Ile Arg Met Tyr Cys Arg Phe Leu Lys Leu Trp Arg Pro Lys Asp
 1 5 10 15

Cys Trp Arg Ala Lys Arg Tyr Asn Leu Trp Lys Leu Leu Ala Arg Ala
 20 25 30

Ala Thr Ala Lys Thr Thr Ala Ala Ala Asn Asp Lys Ala Met Met
 35 40 45

Lys Arg Lys Arg Leu Lys Ala Pro Gln Lys Trp Asn
 50 55 60

<210> 9273
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9273

Arg Ile Arg Trp Leu Lys Arg Phe Leu Arg Tyr Phe Thr Lys Cys Ala
 1 5 10 15

Lys Ala Leu Ile Ala Asp Arg
 20

<210> 9274

<211> 65

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9274

Arg Tyr Lys Leu Trp Lys Arg Leu Phe Lys Phe Phe Asn Lys Trp Phe
 1 5 10 15

Trp Tyr Leu Thr Leu Tyr Pro Ala Cys Ile Lys Lys Lys Arg Lys Leu
 20 25 30

Ala Leu Val Leu Leu Cys Lys Arg Arg Gln Gly Ser Asp Met Ala Ala
 35 40 45

Ser Ala Phe Leu Leu Thr Arg His Ala Ala Ala Tyr Ala Phe Ala Leu
 50 55 60

Gln
 65

<210> 9275

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9275

Lys Phe Arg Leu Leu Lys Lys Met Met Arg Leu Ile Gln Asn Leu Pro
 1 5 10 15

Leu Lys Ala Lys Thr Val Val Asn Lys Lys Leu
 20 25

<210> 9276
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9276

Leu Phe Arg Phe Ile Pro Lys Leu Phe Arg Arg Phe Lys Ser Arg Trp
 1 5 10 15

Ser Cys Ile Phe Leu Ala Arg Arg Arg Asp Ala Leu Lys Met Thr Ala
 20 25 30

Leu Leu Lys Arg
 35

<210> 9277
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9277

Met Leu Arg Leu Ile Arg Arg Leu Leu Arg Ile Leu Lys Lys Tyr Arg
 1 5 10 15

Ile Tyr Tyr Arg Ala Glu Phe Glu Asn Arg Ala Tyr Thr
 20 25

<210> 9278
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9278

Arg Phe Lys Met Phe Ser Arg Leu Phe Arg Arg Leu Arg Ser Met Leu
 1 5 10 15

Leu Pro Ser Ala
 20

<210> 9279
 <211> 44
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9279

Phe Phe Arg Met Trp Pro Arg Leu Phe Lys Arg Leu Arg Arg Lys Asp
 1 5 10 15

Lys Pro Ala Leu Leu Ala Lys Arg Leu Glu Trp Asn Arg Arg Ala Cys
 20 25 30

Lys Leu Gly Ala Thr Ala Lys Pro Leu Thr Cys Asn
 35 40

<210> 9280
 <211> 88
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9280

Arg Phe Lys Tyr Leu Gln Arg Leu Ile Lys Tyr Leu Thr Arg Leu Leu
 1 5 10 15

Arg Cys Ala Ser Asp Ala Arg Arg Ala Ala Lys Lys Val Ala Lys Tyr
 20 25 30

Gly Ser Ala Asp Lys Leu Arg Gln Glu Arg Ile Arg Arg Gly Ala Leu
 35 40 45

Lys Leu Ala Gly Lys Ala Val Arg Cys Thr Ala His Leu Asp Val Val
 50 55 60

Ile Lys Arg Thr Pro Leu His Lys Ala Lys Met Lys His Ser Glu Arg
 65 70 75 80

Asn Ala Trp Lys Asn Pro Arg Cys
 85

<210> 9281

<211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9281

Trp Leu Arg Trp Leu Gln Lys Phe Leu Arg Arg Tyr Arg Lys Ala Leu
 1 5 10 15

Lys Cys Arg Ala Arg Gly Ala Ala Ile Pro Gln Ala Tyr Thr Lys Ala
 20 25 30

Pro Trp Cys
 35

<210> 9282
 <211> 39
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9282

Arg Leu Lys Met Leu Cys Arg Tyr Ile Lys Leu Trp Ser Lys Leu Arg
 1 5 10 15

Glu His His Ala Arg Pro Ala Ala Asp Arg Lys Met Lys Pro Leu Leu
 20 25 30

His Phe Arg Ala Lys Leu Leu
 35

<210> 9283
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9283

Tyr Leu Lys Ile Ile Thr Lys Leu Ile Lys Arg Met Thr Lys Arg Tyr
 1 5 10 15

Ala Leu Leu Pro Leu

20

<210> 9284
 <211> 77
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9284

Leu Ile Arg Leu Met Thr Lys Phe Trp Arg Leu Phe Lys Cys Arg Ala
 1 5 10 15

Asn Arg Arg Ile Ile Pro Gly Arg Ala Asp Trp Lys Thr Arg Ala Leu
 20 25 30

Ala Gln Arg Tyr Cys Arg Leu Trp Arg Val Ala Ala Ala Asn Ala Trp
 35 40 45

Ala Cys Ala Cys Leu Trp Lys Ser Gly Lys Val Asn Arg Ala Lys Leu
 50 55 60

Leu Ala Arg Phe Val Arg Cys Ser Pro Ala Lys Leu Arg
 65 70 75

<210> 9285
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9285

Lys Phe Lys Leu Phe Arg Arg Met Met Arg Arg Trp Asn Lys Arg Arg
 1 5 10 15

Ala Leu Ala Leu Met Ala Leu Leu Ser Ala Cys Ala Lys Glu Gln Tyr
 20 25 30

<210> 9286
 <211> 86
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9286

Lys Trp Arg Leu Met Lys Arg Leu Met Arg Trp Phe Lys Asn Pro Ala
 1 5 10 15

His Thr Ala Ala Arg Met Lys Lys Asp Arg Val Ser Leu Ala Ile Tyr
 20 25 30

Leu Ala Phe Cys Arg Glu Leu Trp Met Met Arg Ala Ala Leu Gly Leu
 35 40 45

Gln Ala Ala Cys Ile Ala Ile Gln Glu Val Asp Leu Ala Arg His Thr
 50 55 60

Leu Lys Ala Arg Leu Pro Arg Lys Arg Thr Arg Leu Gly Gly Leu Ala
 65 70 75 80

Ala Ile Lys Ile Ala Lys
 85

<210> 9287

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9287

Arg Met Arg Phe Leu Cys Lys Met Tyr Arg Arg Phe Lys Arg Leu Trp
 1 5 10 15

Trp Glu Thr Leu Leu Ala Ala Ala His Ala Glu Lys
 20 25

<210> 9288

<211> 77

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9288

Arg Leu Arg Phe Ile Pro Arg Met Leu Lys Lys Tyr Gln Lys His Arg
 1 5 10 15

Tyr Lys Lys Leu Glu Cys Ala Phe Leu Ala Trp Ala His Asp Leu Trp
 20 25 30

Lys Glu Glu Arg Ile Phe Ala Arg Asn Gln Glu Leu Thr Leu Ala Lys
 35 40 45

Val Ser Leu Lys Arg Ala Ala Lys Arg Ile Gln Cys Arg Lys Arg Leu
 50 55 60

Val Trp Phe Ala Lys Arg Thr His Arg Met Ala Lys Lys
 65 70 75

<210> 9289

<211> 39

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9289

Ile Met Arg Leu Leu Lys Arg Phe Leu Lys Arg Leu Arg Arg Ser Ala
 1 5 10 15

Ser Pro Cys Trp Lys Tyr Val Met Leu Pro Phe Gln Ala Leu Trp Ala
 20 25 30

Asp Ala Leu Arg Arg Ser Arg
 35

<210> 9290

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9290

Lys Ile Lys Leu Leu Arg Arg Tyr Leu Arg Arg Trp Pro Thr Tyr Asn
 1 5 10 15

Gln Leu Ala Gly Ile Leu Ala Arg Lys
 20 25

<210> 9291

<211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9291

Arg Ile Lys Trp Leu Pro Arg Leu Ile Lys Lys Leu Lys Lys Met Ile
 1 5 10 15

Ala Gln His Ala
 20

<210> 9292
 <211> 61
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9292

Arg Phe Lys Phe Leu Arg Lys Phe Leu Arg Leu Tyr Lys Arg Trp Gln
 1 5 10 15

Lys Ala His Gln Glu Met Lys Arg Gln Ala Asp Asp His Thr Tyr Lys
 20 25 30

Ala Ala Arg Val Ser Thr Leu Leu Lys Leu Leu Val Cys Leu Leu Arg
 35 40 45

Ala Arg Ala Asp Ala Lys Asn His Lys Val Val Ile Arg
 50 55 60

<210> 9293
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9293

Arg Leu Arg Leu Trp Cys Lys Met Leu Lys Lys Phe His Ser Ala Leu
 1 5 10 15

Leu Trp Phe Asn Ala Lys Asp Lys

20

<210> 9294
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9294

Ile Leu Arg Trp Trp Arg Lys Phe Tyr Lys Leu Met Arg Cys Asp Ala
 1 5 10 15

Phe Lys Leu Lys Thr Leu Leu Lys Ile Gly Ala Met Leu Lys
 20 25 30

<210> 9295
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9295

Arg Phe Lys Leu Trp Pro Arg Leu Met Arg Leu Leu Arg Lys Asp Gly
 1 5 10 15

Ala Arg Phe Asp Leu Ile Gln Cys Leu Ile Arg Arg Phe Ala
 20 25 30

<210> 9296
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9296

Trp Tyr Arg Leu Ile Pro Lys Leu Tyr Lys Lys Tyr Asn Cys Ala Lys
 1 5 10 15

Lys Ala Lys Leu Ile Leu Tyr Ser Leu Glu Leu Ala Ala Lys Ile Arg
 20 25 30

Arg Leu Val Ala Lys Trp Ala Ile

35

40

<210> 9297

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9297

Arg Leu Lys Ile Phe Ser Lys Tyr Phe Arg Lys Met Lys Gln Ser Ala
 1 5 10 15

Ala Lys Leu Leu Ser Arg Pro Ala Leu Trp Arg Ala Lys Ala Ala Phe
 20 25 30

<210> 9298

<211> 58

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9298

Leu Met Arg Tyr Ile His Lys Tyr Met Lys Arg Phe Lys Gln Lys Thr
 1 5 10 15

Gln Lys Lys Ala Thr Val Cys Ala Glu Ala Arg Leu Lys Ala Leu Pro
 20 25 30

Lys Gln Trp Arg Ala Cys Met His Leu Lys Pro Gln Lys Leu Leu Leu
 35 40 45

Val Val Leu Leu Ala Arg Arg Ala Leu Thr
 50 55

<210> 9299

<211> 68

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9299

Leu Met Arg Phe Ile Gln Lys Leu Leu Arg Arg Leu Arg Lys Tyr Ala

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<210>  9301
<211>  59
<212>  PRT
<213>  Artificial Sequence
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<220>

<223> Computer-generated peptide variant

<400> 9301

Phe	Leu	Lys	Phe	Met	Cys	Lys	Leu	Ile	Lys	Lys	Leu	Arg	Thr	Leu	Ala
1				5					10					15	

Trp	Val	Lys	Lys	Arg	Val	Trp	Lys	Phe	Tyr	Lys	Leu	Lys	Ser	Pro	Leu
		20					25						30		

His	Arg	His	Leu	Arg	Ala	Glu	Arg	Asn	Trp	Leu	Ala	Leu	Lys	Gly	Ala
		35					40					45			

Leu	Ala	Pro	Lys	Lys	Arg	Ala	Leu	Lys	Ala	Tyr
	50					55				

<210> 9302

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9302

Lys	Tyr	Arg	Met	Ile	Lys	Arg	Tyr	Leu	Arg	Trp	Phe	Ser	Lys	Tyr	Ala
1				5				10						15	

Leu	Ala	Arg	Pro	Glu	Leu	Trp	Gln	Lys	Leu	Tyr	Ala	His	Leu	Gln	Ala
		20					25						30		

Tyr	His	Leu	Ala	Lys	Arg	Lys	Leu
		35				40	

<210> 9303

<211> 57

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9303

Arg	Phe	Arg	Phe	Phe	Lys	Lys	Met	Ile	Lys	Lys	Phe	Lys	Cys	Gly	Phe
1				5					10					15	

Arg	Ala	Leu	Gln	Arg	Gly	Gln	Ile	Leu	Thr	Leu	Lys	Leu	Ser	Lys	Arg
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

20

25

30

Pro Leu Ala Arg Lys Ala Leu Asp Ala Leu Tyr His Lys Ser Ala Leu
 35 40 45

Met Asn Ala Lys Ala Leu Glu Glu Ala
 50 55

<210> 9304

<211> 98

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9304

Lys Phe Lys Leu Phe Pro Lys Leu Tyr Lys Lys Met Lys Ser Leu His
 1 5 10 15

Leu Gln Arg Ala Arg Leu Arg Val Ala Arg Met Gln Ala Lys Gln Ser
 20 25 30

Arg Lys Arg Lys Lys Trp Arg Trp Lys Asn Leu Arg Tyr Arg Val Ile
 35 40 45

Val Leu Trp Asp Val Arg Ala Ile Lys Thr Arg Ala Lys Arg Met His
 50 55 60

Lys Lys Leu Leu Ala Thr Asp Ala Lys Phe Arg Asp Leu Val Met Glu
 65 70 75 80

Ala Leu Tyr Arg Trp Ala Glu Leu Phe Ala Ala Trp Ala Trp Pro Leu
 85 90 95

Ala Thr

<210> 9305

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9305

Arg Leu Lys Phe Leu Lys Arg Phe Met Arg Met Leu Arg Arg Ala Gln
 1 5 10 15

Gln Ala Arg Leu Lys Met Val Ala
 20

<210> 9306

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9306

Arg Phe Arg Phe Leu Ser Lys Trp Leu Arg Leu Ile Arg Cys Gln Val
 1 5 10 15

Pro Leu Thr Leu Leu Thr Ala Lys Lys Tyr Leu Ala Leu Met
 20 25 30

<210> 9307

<211> 48

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9307

Ile Trp Arg Tyr Leu His Arg Leu Leu Lys Phe Leu Arg Thr Arg Gln
 1 5 10 15

Arg Arg Ala Phe Pro Ala Leu Lys Asp Lys Leu Leu Trp Lys Ala Glu
 20 25 30

Ala Leu Arg Ser Lys Glu Ala Lys Met Trp Leu Arg Ile Met Ser Ile
 35 40 45

<210> 9308

<211> 37

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9308

Trp Phe Lys Leu Phe Arg Lys Phe Tyr Arg Lys Leu Lys Lys Arg Gly
 1 5 10 15

Gln Ala Ser Trp Phe Leu Asn Arg Gln Leu Lys Asp Tyr Leu Leu Ala
 20 25 30

Pro Arg Lys Phe Leu
 35

<210> 9309
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9309

Tyr Leu Arg Phe Ile Thr Arg Leu Ile Lys Lys Leu Asn Lys Ser Ala
 1 5 10 15

Leu Arg Ile Asn Glu Asp Leu Lys Arg Arg Arg Met Leu Thr
 20 25 30

<210> 9310
 <211> 37
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9310

Leu Phe Arg Ile Leu Cys Arg Met Leu Arg Lys Leu Pro Arg Ile Lys
 1 5 10 15

Lys Lys Cys Tyr Ala His Leu Lys Leu Glu Glu Ala Ala Leu His Glu
 20 25 30

Ser Gln Ala Phe Leu
 35

<210> 9311
 <211> 31
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9311

Met	Leu	Lys	Tyr	Trp	Lys	Arg	Trp	Ile	Lys	Leu	Leu	Pro	Lys	Thr	Ala
1				5					10					15	

Leu	Arg	Leu	Ser	Leu	Lys	Ala	Ala	Ala	Gln	Lys	Trp	Leu	Arg	Ala
			20					25					30	

<210> 9312

<211> 41

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9312

Arg	Leu	Lys	Ile	Ile	Arg	Lys	Leu	Ile	Lys	Ile	Trp	Lys	Arg	Lys	Gly
1				5					10					15	

Arg	Ala	Cys	Leu	Ala	His	Arg	Met	Gly	Asn	Ala	Arg	Ala	Lys	Lys	Pro
			20					25					30		

Leu	Leu	Pro	Lys	Asp	Lys	Ser	Ala	Leu
		35					40	

<210> 9313

<211> 99

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9313

Lys	Leu	Lys	Leu	Leu	Cys	Lys	Met	Tyr	Arg	Met	Phe	Arg	His	Lys	Leu
1				5					10					15	

Leu	Leu	Arg	Ala	Leu	Glu	Asp	Leu	Glu	Ala	Cys	Cys	Asp	Thr	Lys	Leu
			20					25					30		

Trp	Lys	Ala	His	Glu	Arg	Leu	Leu	Gln	His	Arg	Lys	Lys	Arg	Arg	Pro
		35					40					45			

Phe	Tyr	Lys	Tyr	Ala	Lys	Arg	Ala	Pro	Met	Leu	Met	Phe	Lys	Leu	Arg
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

50

55

60

Asn Gln Arg Phe Leu Ser Asp Arg Lys Arg Leu Asp Val Lys Gln Ala
 65 70 75 80

Leu Leu Lys Arg Lys Tyr Leu Ala His Pro Gln Glu Gln Lys Cys Ile
 85 90 95

Trp Arg Gln

<210> 9314

<211> 69

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9314

Lys Met Lys Trp Phe Cys Arg Leu Ile Arg Arg Leu Arg His Val Gly
 1 5 10 15

Lys Arg His Leu Leu Lys Lys Leu Gln Leu Lys Arg Leu His Phe Tyr
 20 25 30

Gly Cys Asp Arg Phe Gly Leu Lys Trp Tyr Lys Lys Lys Ala Ala Val
 35 40 45

Ala Tyr Met Gly Arg Lys Arg Thr Gly Leu His Thr Thr Leu Leu Glu
 50 55 60

Tyr Arg Leu Lys Leu
 65

<210> 9315

<211> 38

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9315

Lys Tyr Arg Leu Phe Thr Lys Phe Trp Lys Lys Leu Pro Lys Arg Ala
 1 5 10 15

Cys Asp Tyr Ala Leu Ala Thr Tyr Tyr Arg Ala Ala Leu Leu Tyr Gln
 20 25 30

Leu Leu Arg Cys Lys Cys
 35

<210> 9316

<211> 96

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9316

Leu Leu Arg Leu Leu Thr Arg Trp Leu Arg Arg Phe Pro Asn Arg Tyr
 1 5 10 15

Ala Tyr Arg Thr Lys His Lys Ile Tyr Gln Val Ile Ile Arg Leu Ser
 20 25 30

Arg Lys Ser Lys Arg Lys Thr Ile Arg Leu Val Tyr Cys Asp Lys Glu
 35 40 45

Met Trp Ala Thr Asp Leu Lys Leu Lys Ala Ser Arg Lys Ser Ala Leu
 50 55 60

Arg His Pro Ala Gly Arg Ala Leu Arg Ala Trp Leu Ala Glu Ala Ala
 65 70 75 80

Leu Cys Cys Arg Arg Gly Arg Arg Val Leu Met Ala Ala Trp Ala Asp
 85 90 95

<210> 9317

<211> 57

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9317

Arg Ile Arg Leu Phe Lys Lys Leu Phe Arg Ile Leu Arg Arg Arg Gly
 1 5 10 15

Met Ala Asp Leu Ala Asp Glu Ala Ala Lys Asn Leu Arg Phe Ala Arg

25

30

Ala Leu His Met Ala Ala Phe Lys Thr Thr Lys Ala Gln Val Val His
35 40 45

Ser Phe Ala Ala Ser Gln Lys Asn Ala
50 55

<210> 9318

<211> 69

<212> PRT

<213> Artificial Sequence

 $\langle 220 \rangle$

<223> Computer-generated peptide variant

<400> 9318

Phe Leu Lys Trp Leu Lys Arg Phe Trp Arg Arg Phe Arg Pro Ala Leu
1 5 10 15

Trp Arg Asp Lys Trp Arg Asn Asn His Phe Phe His Ala Ile Gln Gln
20 25 30

Asn Lys Ala Ala Lys Leu Ala Lys Ala Ala Lys Cys Tyr Ile Leu His
35 40 45

Glu Lys Ala Arg Lys Lys Cys Leu Lys Pro Glu Met Gly Ala Thr Lys
50 55 60

Leu Leu Ala Ala Tyr
65

<210> 9319

<211> 37

<212> PRT

<213> Artificial Sequence

 $\langle 220 \rangle$

<223> Computer-generated peptide variant

<400> 9319

Arg Leu Lys Phe Phe Asn Lys Leu Leu Lys Leu Trp Lys Asn Asp Ile
1 5 10 15

Leu Ile Ala Arg Arg Lys His Lys Met Met Ala Lys Met Ser Lys Val
20 25 30

Leu Phe Ala Leu Thr
35

<210> 9320
<211> 57
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 9320

Arg Met Lys Ile Phe Gln Arg Phe Phe Arg Arg Leu His Arg Ile Leu
1 5 10 15

Leu His Arg Ala Arg Ile Ala Lys Gly Leu Trp Ile Glu Leu His Leu
20 25 30

Arg Ala Ala Ala His Leu Arg Cys Ile Ile Ala Gln Gln Ala Met Arg
35 40 45

Ala Thr Arg Lys Lys Phe Ala Arg Lys
50 55

<210> 9321
<211> 26
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 9321

Ile Met Lys Tyr Met Thr Arg Phe Leu Arg Leu Leu Lys Arg Leu Phe
1 5 10 15

Asp Pro Lys Val Leu Leu Ala Arg Ser Ala
20 25

<210> 9322
<211> 75
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 9322

Arg Leu Arg Trp Trp Thr Arg Leu Leu Arg Lys Phe Arg Lys Met His
 1 5 10 15

Arg Ile Arg Phe Arg Arg Arg Leu Lys Ile Asp Leu Trp Gln His Tyr
 20 25 30

Thr Leu Leu Leu Phe Ala Asp Lys Leu Thr Val Tyr Asp Lys Arg Gly
 35 40 45

Ala Asn Ala Ala Leu Glu Met Ala Lys Gly Trp Val Leu Ala Lys Gly
 50 55 60

Leu Met Leu Ala Leu Arg Arg Leu His Asp Asn
 65 70 75

<210> 9323
 <211> 58
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9323

Lys Met Arg Trp Leu Thr Arg Phe Leu Lys Arg Met His Arg Leu Lys
 1 5 10 15

Gly Gly Asp Lys Pro His Arg Ala Ser Leu Ala Arg Cys Val Leu Arg
 20 25 30

Ala Arg Lys Leu Val Lys Lys Met Leu Ala Lys Gly Lys Leu Phe Ala
 35 40 45

Ser Lys Leu Arg Trp Ser Leu Trp Asp Lys
 50 55

<210> 9324
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9324

Lys Phe Arg Trp Leu Arg Arg Met Met Arg Leu Ile His Arg Gln Val

<210>	9325
<211>	23
<212>	PRT
<213>	Artificial Sequence

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<220>
<223>  Computer-generated peptide variant
<400>  9325
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Gly Leu Ala Leu Gly Arg Arg
20

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<210> 9326
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 9326
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Met Lys Thr Met Arg Ala Met Asp Cys Leu Leu
20 25

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<210> 9327
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 9327
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<210>	9328
<211>	25
<212>	PRT
<213>	Artificial Sequence
<220>	
<223>	Computer-generated peptide variant
<400>	9328

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<210> 9329
<211> 29
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 9329
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<210> 9330
<211> 55
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 9330
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1 5 10 15

Ile Val Ser Arg Gly Leu Arg Arg Gly Leu Asn Trp Lys Arg Leu Lys
20 25 30

Leu Ile Arg Lys Asn Lys Arg Glu Leu Glu Ala Leu Glu Arg Leu Ala
35 40 45

Trp Phe Val Gly Asn Ala Leu
50 55

<210> 9331
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9331

Arg Leu Arg Leu Phe Lys Lys Leu Leu Lys Tyr Ile Cys Arg Leu Asn
1 5 10 15

Asp Lys Pro Arg Tyr Asn Ala Glu Ala Ala Asn Lys
20 25

<210> 9332
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9332

Met Leu Lys Phe Met Lys Arg Leu Tyr Lys Arg Leu Arg Arg Asp Ala
1 5 10 15

Lys Lys Glu Arg Val Leu Leu Ser Leu Leu Ile Leu Ala Phe
20 25 30

<210> 9333
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9333

Arg Phe Arg Trp Leu Lys Arg Leu Trp Lys Arg Met Cys Ser Leu Lys
 1 5 10 15

Gly Ala Met Leu Asp Pro Lys Glu Ala Ala Ile Leu Gln
 20 25

<210> 9334

<211> 58

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9334

Arg Ile Arg Ile Leu Asn Lys Leu Leu Lys Lys Leu Arg Gln Val Met
 1 5 10 15

His Met Ala Leu Lys Lys Ala Arg Cys Asp Ser Lys Ala Leu Leu Arg
 20 25 30

Gln Lys Ala Lys Val Val Pro Gly Ala Tyr Ala Met Ala Cys Pro Val
 35 40 45

Thr Lys Asn Arg Ile Ala Asn Ala Arg Leu
 50 55

<210> 9335

<211> 42

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9335

Lys Leu Lys Leu Leu Lys Lys Leu Tyr Lys Ile Tyr His Lys Arg Gly
 1 5 10 15

Gln Gly Leu Lys Tyr Ala Ala Ser Leu Lys Ile Leu Lys Arg Leu Gly
 20 25 30

Leu His Ala Ser Ala Cys Lys Glu Phe Leu
 35 40

<210> 9336
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9336

Lys Ile Arg Leu Met Ser Lys Phe Leu Arg Lys Met Arg Cys Leu Asp
 1 5 10 15

Arg Leu Gly Met Ala Arg Ala Cys Ala Trp Lys Gln Val
 20 25

<210> 9337
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9337

Ile Met Arg Leu Leu Arg Lys Phe Leu Lys Arg Phe Thr His Glu Lys
 1 5 10 15

Asn Ala Trp Ala
 20

<210> 9338
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9338

Arg Leu Arg Phe Leu Thr Lys Leu Leu Lys Lys Ile Cys Cys Leu Met
 1 5 10 15

Met Asn Ala Lys Asn
 20

<210> 9339
 <211> 39
 <212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9339

Arg Met Lys Trp Phe Arg Arg Trp Leu Arg Arg Phe Asn Lys Thr Thr
1 5 10 15

Ile Ala Lys Ser Ala Thr Lys Ser Leu Ala Ala Gln Lys Leu Gln Glu
20 25 30

Ala Asn Lys Ala Leu Ala His
35

<210> 9340

<211> 43

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9340

Lys Met Arg Leu Phe His Lys Phe Leu Arg Lys Trp Lys Thr Ile Leu
1 5 10 15

Leu Val Thr Ser Ile Ala Leu Ser Ile Lys Phe Asp Lys Ala Ala Ala
20 25 30

Ala Ala Gly His Phe Arg Arg Asp Ala Ala Arg
35 40

<210> 9341

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9341

Leu Tyr Arg Tyr Leu Lys Lys Phe Leu Arg Arg Leu Arg Arg Gln Val
1 5 10 15

Ala Gly Met Ala
20

<210> 9342
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9342

Arg Leu Arg Ile Ile Lys Arg Leu Tyr Lys Arg Leu Gln Lys Arg Leu
 1 5 10 15

Phe Ile Lys Tyr Ala Lys Leu Leu Asp Gln Leu Trp
 20 25

<210> 9343
 <211> 43
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9343

Arg Phe Lys Tyr Phe Ser Lys Phe Leu Lys Leu Leu Gln Pro Arg Asn
 1 5 10 15

Trp Leu Val Thr Ala Ile Lys His Pro Arg Lys Lys Arg Ala Arg Arg
 20 25 30

Cys Ala Arg Asp Leu Thr Ala Ala Leu Arg Met
 35 40

<210> 9344
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9344

Phe Leu Lys Leu Leu His Lys Leu Ile Lys Lys Met Arg His Ala Ala
 1 5 10 15

Glu Val Leu Leu Arg
 20

<210> 9345
 <211> 42
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9345

Leu Leu Arg Ile Met Arg Lys Leu Tyr Arg Arg Tyr Ser Cys Cys Lys
 1 5 10 15

Lys Ala Arg Leu Thr Gly Lys Pro Lys Pro Gln Gly Leu Leu Lys Arg
 20 25 30

Leu Thr Ala Leu Ala Arg Ala Gln Tyr Arg
 35 40

<210> 9346
 <211> 47
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9346

Tyr Phe Arg Leu Ile Arg Arg Met Phe Lys Arg Trp Thr His Met Gln
 1 5 10 15

Ser Ser Leu Lys Ala Ala Lys Leu Leu Gln Lys Lys Lys Leu Gly Asn
 20 25 30

Thr Ala Arg Ala Lys Thr Lys Trp Leu Phe Ala Pro Phe Leu Lys
 35 40 45

<210> 9347
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9347

Leu Ile Lys Leu Leu Lys Arg Trp Ile Lys Leu Ile Arg Arg Arg Leu
 1 5 10 15

Ala Ala Lys Arg Met Ser Leu Ala
20

<210> 9348
<211> 47
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 9348

Leu Tyr Lys Met Phe Cys Arg Trp Leu Arg Trp Leu Asn Arg Pro Thr
1 5 10 15

Ile Lys Leu Arg Ile Leu Ala Gln Cys Lys Arg Arg Arg Leu Arg Arg
20 25 30

Gln Asn Leu Met Cys Gln His His Ala Lys Asn Leu Lys Arg Leu
35 40 45

<210> 9349
<211> 58
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 9349

Lys Leu Lys Tyr Leu Arg Arg Phe Leu Lys Tyr Met Thr Ser Ala Ala
1 5 10 15

Gly Arg Arg His Ile Trp Gly Lys Arg Leu Cys Ala Asp Cys Arg Ser
20 25 30

Arg Gln Lys Val Lys Ser Trp Cys Phe Leu Asn Ala Lys Asn Met Ala
35 40 45

Lys Ala Ala Ala Leu Lys Gly Ala Lys His
50 55

<210> 9350
<211> 21
<212> PRT
<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9350

Phe	Leu	Lys	Leu	Leu	Pro	Arg	Phe	Tyr	Arg	Lys	Leu	Arg	Lys	Lys	Leu
1				5					10					15	

Ala	Arg	Pro	Val	Trp
			20	

<210> 9351

<211> 41

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9351

Lys	Phe	Lys	Leu	Tyr	His	Lys	Trp	Leu	Arg	Lys	Leu	Lys	Thr	Lys	Lys
1				5				10						15	

Lys	Pro	Ala	Lys	Gly	Leu	Leu	Arg	Gln	Lys	Leu	Ser	Arg	Met	Asn	Tyr
			20					25					30		

Met	Lys	Ala	Thr	Gln	Leu	Ala	Glu	Cys
		35					40	

<210> 9352

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9352

Leu	Met	Lys	Leu	Met	Arg	Arg	Trp	Leu	Lys	Arg	Leu	Lys	Asn	Ala	Lys
1				5					10					15	

Leu	Lys	Ala	Ser
			20

<210> 9353

<211> 83

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9353

Leu	Ile	Lys	Met	Tyr	Gln	Arg	Phe	Leu	Lys	Lys	Ile	Pro	His	Lys	Leu
1				5					10					15	

Lys	Arg	Ala	Phe	Tyr	Ala	Ala	Trp	Thr	Arg	Lys	Phe	Arg	Cys	Ala	Tyr
		20						25					30		

Met	Ile	Ala	Ala	Gln	Arg	Tyr	Ala	Ala	Leu	Asp	Arg	His	Leu	Pro	Pro
		35					40					45			

Lys	Arg	Glu	Leu	Pro	Arg	Lys	Cys	Lys	Thr	Arg	Lys	Lys	Arg	Arg	Arg
	50					55					60				

Glu	Asn	Thr	Leu	Lys	Arg	Cys	Arg	Leu	Tyr	Tyr	Leu	Gly	Glu	Lys	Gly
65					70					75					80

Ala Leu Trp

<210> 9354

<211> 43

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9354

Lys	Met	Lys	Leu	Met	Asn	Lys	Leu	Leu	Lys	Lys	Phe	Ser	Lys	Asn	Gln
1				5					10					15	

Arg	Val	Ser	Leu	His	Ile	Val	Lys	Thr	Arg	Lys	Leu	Leu	Leu	Lys	Ser
			20					25					30		

Leu	Leu	Gly	Arg	Lys	Asn	Gln	Arg	Leu	Ala	Ile
		35					40			

<210> 9355

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9355

Met Ile Lys Phe Leu Lys Arg Leu Trp Arg Lys Phe Lys Arg Glu Lys
 1 5 10 15

Leu Ala Gln Leu Gln Ala Val Ala Ser Ala Ser Lys
 20 25

<210> 9356

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9356

Arg Ile Lys Leu Leu Lys Arg Met Tyr Arg Leu Trp Arg Thr Leu Thr
 1 5 10 15

Glu Lys Met Met Gln Asn Arg Leu Gly Ala Ala
 20 25

<210> 9357

<211> 49

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9357

Arg Trp Arg Tyr Phe Thr Lys Phe Leu Lys Lys Tyr Arg Arg Leu Ala
 1 5 10 15

Lys Ala Asp Asp Ser His Gly Arg Tyr Leu Ala Arg Gly Leu Arg Arg
 20 25 30

Glu Ala Ala Gln Gln Ala Ser Asn Lys Arg Ile Ala Leu Lys Ser Arg
 35 40 45

Phe

<210> 9358

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9358

Lys Ile Arg Ile Trp Lys Arg Trp Tyr Arg Leu Tyr Arg Thr Cys Ala
1 5 10 15

Ser Lys Gly Cys Arg Trp Ala Ala Ala Thr Ala Gly Arg Leu Ala Ala
20 25 30

Leu Glu

<210> 9359

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9359

Arg Phe Lys Leu Leu Lys Arg Leu Ile Lys Lys Phe Cys Gln Ala Arg
1 5 10 15

Pro Lys Ala Gln Trp Ala Asn Glu Asp Leu Lys His Ala Leu Val Asp
20 25 30

Met Ala

<210> 9360

<211> 48

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9360

Trp Trp Lys Tyr Tyr Lys Arg Leu Leu Arg Arg Leu Ser Lys Phe Ile
1 5 10 15

Lys Val Ala Glu Gln Leu Lys Leu Gln Glu Lys Lys Arg Trp Arg Leu
20 25 30

His Thr Lys Leu Leu Met Leu Leu Ile Ile Lys Arg Ala Ser Leu His
35 40 45

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<210> 9361
<211> 22
<212> PRT
<213> Artificial Sequence
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<220>
<223> Computer-generated peptide variant

<400> 9361

Arg Phe Arg Phe Met Pro Lys Leu Ile Lys Trp Leu Lys Lys Ala Lys
1 5 10 15

Leu Thr Ser Gln Leu Leu
20

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<210> 9362
<211> 31
<212> PRT
<213> Artificial Sequence
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<220>
<223> Computer-generated peptide variant

<400> 9362

Lys Tyr Lys Phe Leu Lys Arg Leu Trp Lys Lys Leu Arg Lys Ser Lys
1 5 10 15

Pro Ala Leu Ala Leu His Lys Ala Asn Leu Gly Ser Lys His Glu
20 25 30

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<210> 9363
<211> 32
<212> PRT
<213> Artificial Sequence
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<220>
<223> Computer-generated peptide variant

<400> 9363

Arg Leu Lys Leu Leu Arg Arg Tyr Tyr Lys Lys Leu His Ser Tyr Leu
1 5 10 15

Phe Lys Lys Ala Lys Thr Ala Lys Gln Ala Asp Leu Arg Glu Thr Arg
20 25 30

<210> 9364
 <211> 45
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9364

Lys Leu Lys Leu Leu Cys Arg Trp Leu Arg Tyr Leu Arg Cys Ala Arg
 1 5 10 15

Arg Lys Leu Phe Pro Lys Leu Arg Ala Met Pro Ile Ala Lys Pro Asn
 20 25 30

Arg Lys Phe Ser His Asn Ile Arg Leu Val Lys Ala Ser
 35 40 45

<210> 9365
 <211> 90
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9365

Leu Phe Arg Leu Leu Lys Arg Phe Leu Arg Arg Ile Lys Arg Phe Arg
 1 5 10 15

Arg Arg Met Val Leu Val Ala Ala Leu Ala Gln Ala Asp Ala Lys Arg
 20 25 30

Ala Ile Lys Pro Trp Arg Arg Asn Ile Arg Arg Val Ile Arg Phe Asp
 35 40 45

Ala Lys Ala Pro Ala Ala Asn Trp Phe Thr Thr Asp Met Leu Pro Leu
 50 55 60

Thr Lys Arg Trp Ala Glu Tyr Val Arg Ala Ala Glu Cys Ser Tyr Arg
 65 70 75 80

Ala Arg Ala Thr Leu Arg Leu Gln Gly Lys
 85 90

<210> 9366

<211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9366

Met Leu Arg Phe Met Cys Lys Leu Phe Arg Met Leu Arg Thr Val Arg
 1 5 10 15

Arg Ala Leu Gln Lys Phe Ala Arg Arg Ala Leu Cys Ala Gly
 20 25 30

<210> 9367
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9367

Leu Tyr Arg Trp Phe Lys Lys Leu Trp Lys Phe Leu Lys Pro Leu Leu
 1 5 10 15

Gly Leu Asp Lys
 20

<210> 9368
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9368

Ile Leu Lys Leu Tyr Lys Arg Leu Ile Lys Lys Ile Cys Lys Ala Met
 1 5 10 15

Arg Asp Leu Leu Thr Lys Ala Gln Arg Gln Ser Met Ala Lys Tyr Ala
 20 25 30

Thr Leu

<210> 9369

<211> 85
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9369

Arg Leu Arg Tyr Leu Cys Arg Phe Leu Lys Arg Phe Arg Lys Asp Val
 1 5 10 15

Cys Met Lys Glu Leu Tyr Lys Tyr Phe Arg Glu Lys Lys Leu Arg Ala
 20 25 30

Cys Ile Asn Gln Arg Ala Lys Leu Leu Ala Leu Ala Arg Leu Asp Gln
 35 40 45

Leu Phe Arg Asp Asp His Ile Ala Ser Phe His Asn Arg Glu Ala Leu
 50 55 60

Leu Arg Pro Leu Lys Tyr Arg Phe Lys Arg Leu Leu Thr Met Tyr Ala
 65 70 75 80

Gln Leu Ala Leu Ala
 85

<210> 9370
 <211> 43
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9370

Tyr Trp Arg Leu Leu Lys Arg Tyr Tyr Lys Lys Leu Cys Arg Leu Lys
 1 5 10 15

Leu Ala Leu Ser Asn Lys Ile Tyr Asp Leu Ala Phe Ala Lys Ala Ala
 20 25 30

Ile Ala Lys Ser Lys Gly Arg Trp Ala Val Glu
 35 40

<210> 9371
 <211> 23
 <212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9371

Phe Trp Arg Met Met Asn Lys Leu Tyr Lys Lys Leu Arg Arg Leu Leu
1 5 10 15

Asp His His Arg Ala Lys Ala
20

<210> 9372

<211> 49

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9372

Arg Met Lys Phe Leu Arg Lys Phe Trp Arg Tyr Ile Lys Arg Leu Ala
1 5 10 15

Leu Thr Lys Leu Lys Leu Ala Met Gln Arg Glu Arg Leu Lys Trp Trp
20 25 30

Ala Gln Glu Phe Glu Lys Val Ala His Lys Arg Phe Thr Leu Val Ala
35 40 45

Met

<210> 9373

<211> 93

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9373

Arg Leu Arg Trp Phe Ser Arg Met Leu Lys Arg Tyr Lys Lys Cys Trp
1 5 10 15

Ala Leu Ala Lys Arg His Arg Phe Thr Asn Lys Tyr Gln Arg Ala Lys
20 25 30

His Leu Leu Ile Pro Leu Thr Ala Arg Tyr Leu Arg Lys Lys Ala His
 35 40 45

Tyr Lys Pro Thr Ala Leu Lys Ala Arg Arg Leu Gln Ser Asp Arg Leu
 50 55 60

Gln Gln Leu Leu Met Arg Arg Ala Lys Ala Ala Ser His Leu Phe Arg
 65 70 75 80

Lys Tyr Phe Asn Gly Phe Leu Met Ala Leu Asn Trp Leu
 85 90

<210> 9374
 <211> 43
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9374

Leu Leu Arg Ile Trp Asn Arg Leu Tyr Lys Lys Leu Arg Arg Arg Arg
 1 5 10 15

Thr Ala Ala Lys Met Arg Leu Ala Tyr Ala Met Gln Gly Cys His Pro
 20 25 30

Asp Arg Leu Lys Gly Ala Asp Pro Tyr Leu Ala
 35 40

<210> 9375
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9375

Arg Phe Lys Leu Tyr Pro Arg Trp Leu Arg Lys Leu Asn Arg Val Arg
 1 5 10 15

Arg Gln Thr Gly Ala Arg Gln Leu Leu Ala Cys Cys Pro Ala
 20 25 30

<210> 9376

<211> 51
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9376

Arg Leu Lys Leu Leu Pro Arg Phe Leu Lys Arg Leu Lys Lys Lys Trp
 1 5 10 15

Ala Leu Ile Gln Lys Gly Ala Ala Leu Pro Trp Ile Gly Leu Trp Ala
 20 25 30

Ala Thr Met Arg Asp Thr Lys Glu Leu Gln Leu Met Val Leu Arg Gln
 35 40 45

Lys Thr Asp
 50

<210> 9377
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9377

Arg Phe Lys Leu Ile Lys Lys Leu Tyr Lys Met Trp Lys Arg Lys Phe
 1 5 10 15

Leu Lys Ala Leu Leu Phe Arg His Asn Leu Tyr Ala Ala Val Thr Ala
 20 25 30

Arg

<210> 9378
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9378

Arg Leu Arg Tyr Phe Pro Lys Tyr Leu Lys Arg Tyr Arg Arg Ala Ala

1 5 10 15

Gly Ala Leu Lys Leu
20

<210> 9379
<211> 38
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 9379

Lys Leu Lys Leu Leu Cys Arg Met Leu Lys Arg Phe Arg Arg Ala Gln
1 5 10 15

Gln Lys Arg Ala Leu Leu Val Ala Trp Lys Lys Ala Ile Lys Lys Leu
20 25 30

Ala Val Ser Trp Asp Gln
35

<210> 9380
<211> 52
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 9380

Arg Phe Lys Leu Phe Ser Arg Trp Phe Arg Arg Met Gln Ser Ala Arg
1 5 10 15

Ser Lys Ala Phe Lys Arg Leu Leu Ala Ala Glu Arg Glu Leu Asn Phe
20 25 30

Ala Ala Arg Thr Ala Arg Arg Arg Ala Ala Lys Arg His Tyr Leu Tyr
35 40 45

Val Val Cys Val
50

<210> 9381
<211> 43
<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9381

Leu Met Arg Met Leu Pro Arg Leu Tyr Lys Arg Leu Lys Arg Glu Lys
1 5 10 15

Ala His Lys Gln Arg Tyr Tyr Lys Ser Ile Cys Ala Ile Arg Leu Pro
20 25 30

Arg Lys Val Leu Leu Lys Lys Ala Leu Met Met
35 40

<210> 9382

<211> 76

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9382

Arg Tyr Lys Leu Trp Arg Lys Leu Leu Arg Phe Leu Arg Arg Ile Leu
1 5 10 15

Leu His Ala Lys Trp Cys Thr Gln Met Leu Arg Leu Leu Ala Gly Pro
20 25 30

Asn Val Ala Ala Gly Ala Ser Arg Lys Ala Arg Ala Ala Arg Thr Lys
35 40 45

Arg Ala Gly Lys Tyr Thr Trp Val Gln Thr Leu Val Leu Arg Asn Ala
50 55 60

Ala Thr Arg Val Arg Trp Ala Arg Met Ser Lys Lys
65 70 75

<210> 9383

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9383

Arg Leu Lys Leu Phe Arg Lys Phe Phe Lys Tyr Leu Pro Arg Ile Lys
 1 5 10 15

Ser Leu Ala Met
 20

<210> 9384
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9384

Phe Tyr Arg Leu Tyr Arg Lys Leu Trp Lys Leu Phe Lys Arg Glu Ala
 1 5 10 15

His Ala Thr Ser Ala Tyr Tyr Ser Ala Ala Leu Lys
 20 25

<210> 9385
 <211> 38
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9385

Ile Met Lys Leu Leu His Arg Tyr Phe Lys Arg Met Arg Lys Ile Cys
 1 5 10 15

Pro Leu Ser Ala Leu Ile Tyr Leu Glu Val Arg Ala Trp Ala Gly Arg
 20 25 30

Leu Leu Cys Lys Arg Lys
 35

<210> 9386
 <211> 52
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9386

Lys Leu Arg Leu Phe His Arg Leu Phe Arg Arg Ile Arg Lys Arg Asp
 1 5 10 15

Ala Ala Ser Ala Ile Asn Leu Trp His Cys Lys Glu Lys Leu Lys Ala
 20 25 30

His Lys Ile Leu Tyr Cys Leu Arg Lys Tyr Lys Glu Ser Pro Ala Lys
 35 40 45

Ala Phe Asp Thr
 50

<210> 9387

<211> 64

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9387

Lys Trp Lys Tyr Phe Pro Arg Leu Leu Lys Lys Leu Lys Lys Lys Asn
 1 5 10 15

Arg Asn Arg Asn Ser Val Cys Arg Ala Ala Tyr Leu Leu Lys Ile Ala
 20 25 30

Ala Cys Lys Ala Gln Tyr Leu Ala Trp Arg Ala Ala Phe Gly Val Arg
 35 40 45

Lys Asp Met Tyr Tyr Thr Arg Ala Met Ile Glu Leu Ala Leu Lys Lys
 50 55 60

<210> 9388

<211> 43

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9388

Arg Ile Lys Phe Phe Thr Arg Met Leu Arg Phe Leu Lys Lys Leu Leu
 1 5 10 15

Thr Ala Tyr Arg Ser Ala Leu Lys Ala Arg Arg Leu Leu Arg Tyr Gln

20

25

30

Arg Tyr Ala Leu Ser Lys Gln Pro Leu Phe Trp
 35 40

<210> 9389

<211> 44

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9389

Lys Tyr Arg Leu Phe Lys Lys Phe Leu Arg Lys Trp Cys Arg Trp Lys
 1 5 10 15

Met Asp Lys Ser Leu Leu Lys Pro Thr Ala Tyr Ser Ala Ala Thr Phe
 20 25 30

Phe Ala Lys Ala Ala Ile Leu Asn Arg Ser Lys Ala
 35 40

<210> 9390

<211> 60

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9390

Arg Leu Lys Leu Leu Asn Arg Leu Met Lys Lys Leu His Cys Leu Ala
 1 5 10 15

Arg Leu Ser Ser Ser Asn Lys Asn Leu Ala Glu Thr Gly Glu Lys Ala
 20 25 30

His Phe Leu Arg Arg Gln Lys Thr Met Phe Ala Met Ala Leu Arg Asn
 35 40 45

Ala Ser Lys Glu Phe Val Arg Ala Ala Lys Val Ala
 50 55 60

<210> 9391

<211> 58

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9391

Lys Phe Arg Tyr Tyr Lys Arg Tyr Tyr Arg Leu Trp His Pro Arg Lys
1 5 10 15

Leu Lys Leu Ala Ala Glu Asn Ile Ala Gly Asp Met Ala Lys Ala Gln
20 25 30

Glu Phe Leu Leu Ala Leu Arg Gln Ala Leu Asn Arg Leu Ser Lys Thr
35 40 45

Ala Lys Lys Gln Asn Pro Ala Leu Cys Tyr
50 55

<210> 9392

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9392

Lys Phe Lys Leu Ile Arg Arg Leu Trp Lys Leu Met Lys Asn Phe Arg
1 5 10 15

Ser Ala Arg Ala Ala Asn Lys Ala Arg Phe Lys Tyr Leu Leu
20 25 30

<210> 9393

<211> 57

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9393

Lys Trp Lys Tyr Phe Pro Lys Met Ile Lys Leu Phe Arg Arg Lys Leu
1 5 10 15

Pro Lys Leu Leu Lys Val Asp Ala Lys Thr Ala Thr Ser Phe Leu Leu
20 25 30

Arg Gly Leu Arg Ala Lys Ala Trp Leu Pro Leu Lys Gly Val Trp Leu
 35 40 45

Phe Leu Glu Phe Leu Leu Glu Lys Trp
 50 55

<210> 9394

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9394

Arg Leu Lys Trp Phe Lys Lys Leu Phe Lys Arg Leu Arg Arg Met Leu
 1 5 10 15

Trp Ile Glu Leu Arg Cys Leu Tyr Leu Ala Arg Thr Val Gly Lys Cys
 20 25 30

Ser Leu

<210> 9395

<211> 54

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9395

Ile Phe Lys Leu Phe Cys Lys Leu Phe Arg Leu Met Arg Lys Pro Gly
 1 5 10 15

Arg Leu Arg Leu Gly Pro Lys Asn Leu Leu Asp Leu Val Leu Ala Gln
 20 25 30

Ala Arg Lys Arg Lys Lys Asp Cys Ala Arg Ile Leu Gln Cys Val Ser
 35 40 45

Ala Met Ala Lys Ala His
 50

<210> 9396

<211> 50
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9396

Leu Tyr Lys Leu Phe Arg Lys Ile Phe Arg Arg Leu Asn Cys Pro Arg
 1 5 10 15

Arg Arg Arg Gly Ala Leu Glu Leu Val Tyr Ile Thr Lys Tyr Ala Tyr
 20 25 30

Gly Ile Ala Lys Ala Leu Lys Lys Asn Lys Glu Ala Ala Ala Glu Thr
 35 40 45

Arg Met
 50

<210> 9397
 <211> 46
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9397

Arg Leu Lys Phe Trp Lys Lys Phe Trp Lys Arg Phe Arg Lys Leu Ile
 1 5 10 15

Ala Arg Leu Arg His Arg Ala Gly Leu Cys Cys Thr Leu His Phe Val
 20 25 30

Ala Ala Lys Trp Arg Lys Met Thr Ala Asp Gly Ala Ala His
 35 40 45

<210> 9398
 <211> 39
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9398

Lys Trp Lys Phe Trp Lys Lys Phe Tyr Lys Met Phe Lys Lys Ala Cys

1 5 10 15

Leu Ser Ala Lys Met Arg Leu Ala Cys Lys Lys Leu Ser Gly Lys Ala
 20 25 30

Glu Phe His Ala Arg Ala Ala
35

<210>	9399
<211>	23
<212>	PRT
<213>	Artificial Sequence

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<220>
<223> Computer-generated peptide variant
<400> 9399
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Arg Phe Lys Trp Met Arg Arg Phe Phe Arg Leu Leu Pro Lys Gln Pro
1 5 10 15

Ala His Tyr Ala Leu Lys Ala
20

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<210> 9400
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 9400
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Arg Leu Lys Leu Trp Asn Arg Tyr Ile Arg Arg Leu Arg Lys Trp Ser
1 5 10 15

Leu Thr Val Ala Leu Ser Ala His Ala His Asp Leu
20 25

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<210> 9401
<211> 38
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 9401
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Arg Leu Arg Tyr Leu Pro Arg Phe Leu Lys Ile Phe Gln Asn Trp Ala

1 5 10 15

Lys Lys Leu Arg Arg Val Glu Gln Ala Arg Cys Leu Ser Ala Ala Ala
20 25 30

Leu Ala Phe Val Leu Lys
35

<210>	9402
<211>	38
<212>	PRT
<213>	Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 9402

Lys Leu Lys Trp Ile Lys Lys Phe Phe Arg Phe Tyr Arg Gln Trp Phe
1 5 10 15

Lys Val Tyr Ala Leu Arg Lys Leu Lys Trp Leu Pro Leu Gly Leu Glu
20 25 30

Lys Arg Asp Ala Asp Leu
35

<210>	9403
<211>	42
<212>	PRT
<213>	Artificial Sequence

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<220>
<223> Computer-generated peptide variant
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<400> 9403

Arg Trp Lys Tyr Phe Asn Arg Phe Trp Lys Tyr Leu Lys Cys Leu Ala
1 5 10 15

Ala Lys Cys Arg Pro Ala Gln Lys Arg Ala Lys Arg Gln Asp Leu Ala
20 25 30

Ala Arg Lys Trp Val Lys Met Pro Leu Ala
35 40

<210>	9404
<211>	53
<212>	PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9404

Arg Phe Lys Ile Leu Lys Arg Trp Ile Lys Leu Leu Lys Lys Pro Gln
1 5 10 15

Lys Gly Ala Ala Arg Lys Leu Leu Arg Asn Ala Leu Asn Cys Val Ala
20 25 30

Ala Ala Arg Cys Arg Asp Leu Glu Ala Ser Lys Arg Asp Pro His Arg
35 40 45

Ile Gly Val Cys Arg
50

<210> 9405

<211> 48

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9405

Met Met Lys Trp Leu Lys Lys Phe Ile Arg Arg Phe Arg Lys Ala Lys
1 5 10 15

Lys Ile Leu Arg Gln Leu Phe Phe Met Phe Ala Phe Arg Pro Ala Leu
20 25 30

Pro Glu Arg Gln Met Leu Leu Ala Lys Leu Trp Leu Asn Ile Lys Leu
35 40 45

<210> 9406

<211> 61

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9406

Arg Phe Arg Met Tyr Gln Arg Leu Phe Arg Leu Tyr Arg Gln Lys Ala
1 5 10 15

Met Ala Ala Cys Tyr Lys Leu Arg Lys Leu Ala Trp Thr Cys Ala Asp
 20 25 30

Val Leu Cys Leu Lys Ala Gln Val Ala Trp Lys Lys Arg Arg Tyr Cys
 35 40 45

Cys Leu Thr Leu Lys His His Arg Ser Lys Lys Tyr Ala
 50 55 60

<210> 9407
 <211> 49
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9407

Arg Met Arg Ile Leu Arg Arg Phe Trp Lys Phe Leu Lys Pro Leu Arg
 1 5 10 15

Leu Ser Ala Asp Gly Trp Leu Phe Lys Asp Lys Asn Arg Leu Leu Met
 20 25 30

Asn Phe Arg Gly Thr Leu Leu Ala Arg Gln Arg Ser Lys Tyr Ala Ala
 35 40 45

Gly

<210> 9408
 <211> 76
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9408

Ile Met Arg Leu Tyr Arg Arg Met Leu Lys Tyr Leu Asn Asn Ala Trp
 1 5 10 15

Lys Trp Tyr Tyr Lys Arg Lys Trp Ala Ala Gln Ile Ala Met Asn Ala
 20 25 30

Cys Arg Gly Trp Ala Phe Lys Leu Met Val Ala Leu Arg Gln Trp Leu

35

40

45

Leu Arg Arg Leu Lys Lys Asp Arg Lys Arg Arg Leu Ala Arg Asp Lys
 50 55 60

Glu Met Lys Glu Asn His Lys Leu Gln Arg Lys Glu
 65 70 75

<210> 9409

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9409

Leu Trp Lys Phe Tyr Lys Arg Leu Leu Lys Lys Met Cys Cys Asn Leu
 1 5 10 15

Arg Gly Arg Arg Ala Ser Val Asn Ala Asp Lys Leu
 20 25

<210> 9410

<211> 64

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9410

Phe Leu Lys Ile Leu Pro Arg Leu Leu Arg Phe Met Arg Asn Arg Arg
 1 5 10 15

Arg Ala Met Arg Ile Leu Ala Leu Lys His Trp Arg Thr Lys Asn Ala
 20 25 30

Lys Gly Glu Arg Ala Ala Gln Val Ala Tyr Ser Met Arg Lys Lys Pro
 35 40 45

Gly Pro Lys Tyr Lys Leu Tyr Ser Cys Trp Ala Ala Ala Arg Ala Ala
 50 55 60

<210> 9411

<211> 39

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9411

Arg Phe Lys Phe Leu Lys Lys Met Phe Lys Phe Leu Arg Arg Lys Ala
1 5 10 15

Leu Lys Ala Leu Ile Asn Leu Tyr Leu Lys Arg Ala Val Met Lys Ile
20 25 30

His Ala Gln Lys Ala Cys Ser
35

<210> 9412

<211> 37

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9412

Trp Trp Arg Leu Phe Lys Lys Leu Tyr Arg Arg Leu Ser Asn Tyr Lys
1 5 10 15

Leu Trp Ala Arg Arg Cys Arg Lys Leu Tyr Ala Ala Ala Phe Pro Leu
20 25 30

Arg Asn Ala Arg Leu
35

<210> 9413

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9413

Leu Met Arg Ile Met Pro Lys Phe Leu Arg Leu Ile Gln Lys Lys Gln
1 5 10 15

Ala Leu Leu Asp Ala
20

<210> 9414
 <211> 37
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9414

Trp Tyr Lys Leu Leu Gln Arg Tyr Phe Lys Ile Met Lys Gln Lys Gly
 1 5 10 15

Ala Arg Lys Leu Leu Lys Lys Met Leu Ile Ala Arg Asp Phe Ala Ala
 20 25 30

Arg Pro Asp Arg Ile
 35

<210> 9415
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9415

Arg Trp Lys Tyr Trp Gln Lys Met Ile Arg Arg Phe His Lys Gln Ala
 1 5 10 15

Lys Ala Lys Lys Tyr Leu Ser Leu Asp Leu Tyr Thr Lys Leu Val Leu
 20 25 30

Leu Gln Leu Ala Ser Lys Arg Arg
 35 40

<210> 9416
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9416

Phe Leu Arg Trp Phe Gln Arg Tyr Leu Lys Leu Ile Lys Lys Arg His
 1 5 10 15

Ser Lys Leu Lys Arg Thr Cys Lys Gln Trp Trp Tyr Ala Arg Met Ala
 20 25 30

Glu Ala Ala Arg Leu Arg Met Gly
 35 40

<210> 9417

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9417

Lys Phe Lys Tyr Leu Ser Arg Phe Leu Lys Leu Met His Lys His Asp
 1 5 10 15

Lys Glu Leu Leu Arg Leu Ser Tyr Val Tyr Lys Trp Leu Ala Met Leu
 20 25 30

Arg Ala Arg
 35

<210> 9418

<211> 41

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9418

Arg Phe Arg Leu Leu Ser Lys Leu Trp Arg Arg Phe Arg Lys Ala Lys
 1 5 10 15

Glu Phe Gln Ala Ala Lys Lys Glu Ala Leu Arg His Lys Leu Phe Leu
 20 25 30

Thr Ala Leu Lys Leu Lys Ser Lys His
 35 40

<210> 9419

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9419

Phe	Leu	Arg	Met	Phe	Arg	Lys	Leu	Ile	Arg	Leu	Tyr	Arg	Arg	Arg	Arg
1				5					10					15	

Ala	Ala	Ala	Leu	Lys	Leu	Phe	Leu	Asn	Asp	Cys	Arg	Val	Ser	Ser	Lys
			20					25					30		

Glu

<210> 9420

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9420

Leu	Met	Lys	Met	Leu	Arg	Arg	Met	Leu	Lys	Lys	Leu	Asn	Lys	Ala	Met
1				5				10						15	

Leu	Lys	Cys	Arg	Leu	Pro	Trp	Phe	Leu	Tyr	Arg	Ala	Pro	Lys	Gln	Arg
			20					25					30		

<210> 9421

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9421

Leu	Leu	Lys	Met	Met	Cys	Arg	Leu	Leu	Lys	Lys	Ile	Asn	Thr	Arg	Leu
1				5				10						15	

Thr	Ile	Ala	Met	Leu	Arg
			20		

<210> 9422

<211> 37

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9422

Met	Leu	Lys	Ile	Tyr	Arg	Lys	Trp	Trp	Arg	Lys	Leu	Gln	Thr	Lys	Ala
1				5					10					15	

Arg	Ala	Leu	Arg	Lys	Ala	Lys	Cys	Leu	Tyr	Leu	Thr	Asp	Ala	Thr	Pro
			20					25					30		

Arg	Leu	Pro	Asp	Lys
				35

<210> 9423

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9423

Lys	Leu	Lys	Leu	Ile	Ser	Lys	Leu	Leu	Arg	Lys	Leu	Arg	Arg	Leu	Gln
1				5					10					15	

Cys	Ala	Lys	Gln	Asp	Lys	Leu	Ala	Phe	Pro
			20					25	

<210> 9424

<211> 49

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9424

Tyr	Phe	Arg	Phe	Phe	His	Arg	Leu	Leu	Lys	Lys	Tyr	Pro	Lys	Ala	Ser
1				5					10					15	

Arg	Asp	Lys	Ala	Phe	Ala	Phe	Ala	Cys	Leu	Trp	Ala	Ala	Lys	Arg	Leu
			20					25					30		

Arg	Leu	Pro	Gly	Arg	Asn	Ala	Lys	Arg	Cys	Cys	His	Arg	Ala	Pro	Tyr
			35				40					45			

Gly

<210> 9425
 <211> 62
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9425

Lys Tyr Lys Phe Tyr Arg Arg Met Leu Arg Arg Leu Arg Arg Phe Val
 1 5 10 15

Ala Arg Asp Ala His Thr Arg Ala Lys Arg Ala Phe Ala Lys Ala Gln
 20 25 30

Asp Leu Leu Arg Trp Cys Ala Arg Gln Arg His Ala Ala Gln Glu Ala
 35 40 45

Tyr Lys Ala Arg Glu Met Lys Arg Leu Lys Met Cys Leu Leu
 50 55 60

<210> 9426
 <211> 42
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9426

Lys Phe Arg Leu Leu His Lys Tyr Leu Lys Arg Trp Thr Lys Arg Leu
 1 5 10 15

Leu Gly Arg Leu Gln Ala Ser Tyr Lys Trp Pro Ala Pro Arg Cys Arg
 20 25 30

Arg Ile Leu Leu Arg Gln Asn Trp Leu Ala
 35 40

<210> 9427
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9427

Arg Trp Arg Tyr Leu Gln Arg Leu Trp Lys Met Trp Thr Lys Met Arg
1 5 10 15

Leu Ser Ile Lys Leu Lys Ser Leu Leu Lys Val Ala
20 25

<210> 9428

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9428

Phe Met Lys Met Leu Arg Lys Leu Phe Arg Arg Leu Pro Lys Lys Ala
1 5 10 15

Asp Tyr Ile Met Lys Ile Ser Arg Leu Leu Leu Trp Ala Arg
20 25 30

<210> 9429

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9429

Arg Leu Arg Ile Met Arg Arg Ile Phe Lys Trp Met Lys Lys Lys Ala
1 5 10 15

Thr Leu His Met Ala Ile Leu Ala
20

<210> 9430

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9430

Leu Leu Arg Phe Leu Arg Lys Phe Phe Lys Arg Tyr Arg Thr Asn Ala

1 5 10 15

Lys Ala Met Leu Met Ala Leu
20

<210> 9431
<211> 69
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 9431

Lys Met Arg Leu Leu Lys Arg Leu Leu Arg Ile Leu Gln Lys Gly Leu
1 5 10 15

Leu Asn Cys Ala Arg Ala Phe Arg Lys Ile Ile Gly Thr Arg Leu Ala
20 25 30

Leu His Ala Tyr Gly Asp Lys Cys Val Asp Arg Lys Lys Val Leu Lys
35 40 45

Met Lys Leu Leu Ala Leu Pro Leu Cys Glu Leu Ser Ile Leu Arg Gln
50 55 60

Pro Leu Trp Trp Arg
65

<210> 9432
<211> 70
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 9432

Met Ile Lys Ile Leu Lys Arg Leu Met Lys Leu Leu Lys Asn Cys Val
1 5 10 15

Arg Lys Ala Leu Leu Ala Gln Glu Ala Lys Met Met Ile Thr His Ser
20 25 30

Asn Phe Cys Arg Ala Ala Trp Leu Arg Arg Leu His Leu Arg Tyr Ala
35 40 45

Lys Leu Arg Arg Asn Lys Val Pro Ala Leu Ala Arg Ala Phe Cys Trp
 50 55 60

His Ile Met Arg Pro Arg
 65 70

<210> 9433
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9433

Ile Leu Lys Leu Leu Pro Arg Trp Ile Arg Leu Phe Arg Cys Gln Gln
 1 5 10 15

Arg Ile His Lys Ala Arg Ala
 20

<210> 9434
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9434

Trp Phe Lys Phe Leu Lys Arg Leu Tyr Arg Leu Leu Ser Cys Leu Lys
 1 5 10 15

Gln Met Arg Arg
 20

<210> 9435
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9435

Arg Trp Lys Met Ile Ser Arg Met Leu Lys Arg Leu Arg Lys Leu Glu
 1 5 10 15

Ala Cys Leu Pro
20

<210> 9436
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 9436

Lys Met Arg Phe Leu Pro Lys Leu Ile Lys Lys Met Ser Arg Lys Asn
1 5 10 15

Leu Ala Ala Leu Leu Asn Asp Val Arg Thr Tyr
20 25

<210> 9437
<211> 22
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 9437

Leu Tyr Arg Phe Leu Cys Lys Trp Leu Lys Leu Tyr Arg Arg Lys His
1 5 10 15

Asn Leu Gly Val Lys Leu
20

<210> 9438
<211> 36
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 9438

Lys Met Lys Leu Met Lys Lys Trp Leu Arg Leu Phe Lys Arg Lys Leu
1 5 10 15

Leu Ala Leu Gly Arg Asp Arg Leu Phe Leu Asp Asn Ala Val Asn Ser
20 25 30

Asn Lys Leu Tyr
35

<210> 9439
<211> 41
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 9439

Arg Ile Arg Ile Phe Thr Lys Met Tyr Arg Tyr Phe Arg Lys Ala Ala
1 5 10 15

Pro Ala Phe Leu Ala Lys Met Arg Leu Ala Arg Ser Cys Ala Asn Leu
20 25 30

Ile Leu Ala Lys Lys Met Arg Trp Ser
35 40

<210> 9440
<211> 50
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 9440

Arg Ile Lys Leu Met Arg Arg Phe Tyr Lys Phe Trp Lys Thr His Thr
1 5 10 15

Gly Glu Leu Leu Ala Ala Lys Met Leu Lys Gly Ala Phe Pro Ser Arg
20 25 30

Ala His Ala Lys His Arg Tyr Leu Leu Leu Arg Ser Arg Arg Lys Val
35 40 45

Ala Gly
50

<210> 9441
<211> 48
<212> PRT
<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9441

Phe	Tyr	Lys	Leu	Leu	Arg	Arg	Leu	Phe	Arg	Arg	Phe	Lys	Ser	Glu	Gln
1				5					10					15	

Ala	Thr	Pro	Leu	Leu	Ala	Gln	Cys	Ala	Arg	Arg	Leu	Met	Pro	Tyr	Asn
			20					25					30		

Gly	Lys	Ala	Gln	Leu	Ala	Arg	Lys	Cys	Arg	Ala	Asn	Leu	Ala	Glu	Ser
	35						40					45			

<210> 9442

<211> 74

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9442

Lys	Ile	Arg	Leu	Met	Arg	Lys	Ile	Phe	Arg	Trp	Trp	His	Thr	Cys	Arg
1				5					10					15	

Ala	Lys	Thr	Lys	Arg	Gln	Asp	Leu	Arg	Tyr	Lys	Lys	Lys	Ala	Ala	Met
			20					25					30		

Val	Leu	Arg	Arg	Pro	Phe	Phe	Leu	Leu	Arg	Met	Leu	Arg	Ala	Trp	Leu
	35						40				45				

Arg	Lys	Leu	Asp	Arg	Arg	Leu	Lys	Thr	Arg	Met	Ala	Ala	Asn	Ile	Phe
	50					55					60				

Ser	Ser	Ala	Gln	Ile	Pro	Leu	Asp	Arg	Pro
65				70					

<210> 9443

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9443

Arg	Leu	Lys	Tyr	Met	Lys	Arg	Leu	Leu	Lys	Leu	Ile	Arg	Thr	Ala	Arg
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

1 5 10 15

Asn Phe Cys Cys Ala
20

<210> 9444
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 9444

Lys Leu Lys Ile Leu Cys Arg Trp Tyr Lys Arg Phe Arg Lys Thr Lys
1 5 10 15

Leu Arg Ala Glu Ala Leu Val Leu Pro Phe Thr Ile Gln Thr Ala Gln
20 25 30

Thr Lys Lys Arg Arg Leu Leu
35

<210> 9445
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 9445

Phe Tyr Lys Ile Leu Cys Lys Leu Trp Lys Lys Leu Lys His His Leu
1 5 10 15

Lys Ala Gly Val Cys Leu Lys
20

<210> 9446
<211> 29
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 9446

Ile Phe Lys Met Met His Arg Ile Leu Arg Arg Met Lys Arg Lys Leu

1 5 10 15

Arg Asn Ala Val Ala Leu Gln Arg Gln Asn Leu Ala Gly
20 25

<210> 9447
<211> 34
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 9447

Tyr Leu Arg Trp Trp Arg Arg Leu Phe Arg Met Phe Thr Lys Lys Leu
1 5 10 15

Glu Ala Pro Lys Pro Asp Lys Arg Trp Leu Asp Lys Ile Ala Ala Tyr
20 25 30

Leu Lys

<210> 9448
<211> 31
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 9448

Arg Leu Lys Met Leu Pro Arg Leu Ile Arg Trp Tyr Ser Arg Ile Leu
1 5 10 15

Arg Leu Lys Arg Lys Asn Gln Tyr Ala Arg Lys Leu Lys Leu Ala
20 25 30

<210> 9449
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 9449

Leu Trp Arg Met Leu Arg Lys Tyr Phe Lys Trp Met Lys Thr Val Ala

1 5 10 15

Val Cys Gln Lys Ala Ala Arg Val Leu Gln Ala Arg Ala Leu
20 25 30

<210> 9450
<211> 37
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 9450

Leu Leu Arg Trp Phe Lys Lys Ile Tyr Arg Arg Leu Thr Arg Ala Pro
1 5 10 15

Trp Ile His Ile Arg Cys Lys Ala Pro Lys Ser Ala Leu Ala Lys Lys
20 25 30

Ala Phe Thr Ala Phe
35

<210> 9451
<211> 50
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 9451

Trp Trp Lys Trp Phe Arg Lys Met Leu Lys Lys Leu Asn Lys Arg Leu
1 5 10 15

Leu Asp Lys Asp Ile Met Lys Ser Ala Arg Arg Arg Leu Ala Lys Cys
20 25 30

Lys Ala Asp Ala Phe Asn Lys Leu Gly Asn Gly Leu Lys Tyr Gln Ser
35 40 45

Ala Glu
50

<210> 9452
<211> 30
<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9452

Arg	Leu	Arg	Trp	Phe	Ser	Lys	Leu	Trp	Lys	Lys	Leu	Arg	Thr	Leu	Thr
1				5					10					15	

Asn	Thr	Lys	Lys	Lys	Gln	Leu	Leu	Phe	Leu	Leu	Asn	His	Pro
		20						25					30

<210> 9453

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9453

Phe	Phe	Lys	Ile	Met	Lys	Arg	Tyr	Leu	Arg	Met	Ile	Lys	Lys	Ala	Leu
1				5					10					15	

Arg	Lys	Ala	Gly	Arg	Gln	Ser	Arg	Met	Lys	Leu	Ser	Asn	Val	Glu	Leu
			20					25					30		

Lys	His	Ser	Leu	Leu	Met	Ala	Ala
		35				40	

<210> 9454

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9454

Arg	Ile	Lys	Phe	Leu	Arg	Lys	Leu	Met	Lys	Trp	Phe	Lys	Arg	Ala	Asp
1				5					10					15	

Ala	Arg	Ala	Tyr	Tyr	His	Lys	Ala	Lys	Leu	Ser	Gly	Phe	Ala	Lys	Ile
			20					25					30		

Pro	Trp	Arg	Asn	Ser	Leu	Leu	Gln
		35					40

<210> 9455
 <211> 79
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9455

Lys Met Lys Leu Tyr Lys Arg Tyr Phe Lys Phe Tyr Arg Lys Ala Ala
 1 5 10 15

Leu Met Gly Lys Leu Val Glu Tyr Arg Asn Pro Lys Ala Pro Leu Lys
 20 25 30

Arg Ala Arg Ala Leu Thr Leu Ala Ser Tyr Arg Ala Leu Leu Ala Glu
 35 40 45

Gln Glu Gly Leu Arg Asn Cys Asp Met Asp Leu Ala Leu Val His Gln
 50 55 60

Leu Gln Thr Arg Arg Arg Asn Lys Leu Arg Lys Ala Leu Phe Met
 65 70 75

<210> 9456
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9456

Phe Trp Arg Leu Tyr Ser Lys Leu Leu Lys Lys Leu Lys Lys Gly Arg
 1 5 10 15

Leu His Ala Glu Val Pro Asn Leu Ala Leu Cys Glu
 20 25

<210> 9457
 <211> 54
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9457

Tyr Leu Lys Met Trp Lys Arg Leu Leu Lys Tyr Leu Lys Ser Ser Leu
 1 5 10 15

Ile Ala Gln Gln Lys Arg Ile Leu Ile Glu Phe Asn Ile Thr Leu Lys
 20 25 30

Ala Leu Lys Leu Lys Ala Arg Ser Arg Ala Asn Ser Lys Lys Leu Lys
 35 40 45

Arg Trp Trp Ala Thr Val
 50

<210> 9458
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9458

Arg Leu Arg Met Leu Lys Arg Leu Leu Lys Arg Leu Lys Gln Leu Met
 1 5 10 15

His Ser Leu Ile Tyr Gly Tyr Lys Pro Phe Ser Ala Gly Leu Ala Asn
 20 25 30

<210> 9459
 <211> 60
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9459

Leu Phe Lys Met Ile Ser Arg Phe Tyr Lys Met Phe Pro Lys Lys Leu
 1 5 10 15

Ala Leu Lys Arg Arg Leu Leu Ala Tyr Pro Ala Glu Arg Gly Thr Leu
 20 25 30

Arg Arg Val Ala Cys Ala Arg Leu Lys Phe Tyr Leu Ala Gln Arg Trp
 35 40 45

Val Ser Tyr Phe His Leu Arg Arg Leu Met Arg Cys

50

55

60

<210> 9460

<211> 41

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9460

Phe Phe Lys Leu Leu Arg Lys Leu Leu Arg Arg Leu Asn Arg Leu Lys
 1 5 10 15

Arg Ala Cys Cys Leu Cys Arg Gln Leu Gly Ser Leu Tyr Glu Val Leu
 20 25 30

Gln Lys Leu Leu Thr Pro Met Ile Asp
 35 40

<210> 9461

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9461

Arg Leu Arg Leu Ile Cys Arg Leu Phe Lys Phe Ile Cys Arg Lys Ile
 1 5 10 15

Cys Leu Met Leu Lys Ala Leu Ser Ser Lys Arg Thr Ala
 20 25

<210> 9462

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9462

Leu Leu Lys Trp Trp Cys Lys Leu Met Arg Leu Leu Arg Gln Val Lys
 1 5 10 15

Asp Trp Lys Ala Arg Thr Arg Leu

20

<210> 9463
 <211> 73
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9463

Phe Met Arg Leu Trp Lys Arg Tyr Met Arg Lys Tyr Cys Cys Ala Asn
 1 5 10 15

Lys Leu Arg Arg Leu Phe Leu Leu Cys Pro Leu Leu Leu Lys Lys Pro
 20 25 30

Leu Lys Ala His Met Ala Gly Leu Lys Lys Ser Arg Leu Leu Lys Glu
 35 40 45

Arg Lys Leu Lys Asp Arg Val His Arg Leu Val Ala Lys Gly Glu Cys
 50 55 60

Pro Ala Lys Pro Tyr Leu Ala Val Glu
 65 70

<210> 9464
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9464

Tyr Leu Lys Phe Phe Ser Arg Ile Ile Arg Leu Tyr His Lys Ala Ile
 1 5 10 15

Val Thr Leu Ala Pro Ala Leu Leu Lys Lys Ile Ala Lys Arg Glu Leu
 20 25 30

Ala Cys Arg
 35

<210> 9465
 <211> 58
 <212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9465

Phe Leu Arg Phe Leu Arg Lys Ile Leu Arg Lys Phe Cys Lys Asp Leu
1 5 10 15

Lys Lys Val Lys Ser Asp Gln Gln Met Leu Arg Leu Lys Lys Leu Ala
20 25 30

Phe Thr Asp Thr Asn Ser Leu Cys Lys Leu Ser Ala Gly Lys Arg Arg
35 40 45

Ser Arg Ala Arg Ala Asn Arg Ser His Leu
50 55

<210> 9466

<211> 69

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9466

Lys Trp Arg Phe Leu Arg Lys Met Leu Arg Arg Ile Lys Arg Ile His
1 5 10 15

Ala Met Leu Arg Ser Gln Leu Trp His Leu Ala Ala Phe Leu Lys Arg
20 25 30

Leu Cys Ile Arg Leu Asn Val Arg Glu Ser Leu Leu Met Ser Pro Lys
35 40 45

Cys Lys Ala Gln Arg Leu Ile Ala Gly Asn Val Pro Arg Arg Leu Ala
50 55 60

Phe Pro Ala Leu Ala
65

<210> 9467

<211> 55

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9467

Lys	Met	Arg	Phe	Leu	Arg	Lys	Phe	Phe	Lys	Leu	Leu	Arg	Ser	Ser	Val
1				5					10					15	

Asp	Leu	Met	His	Gln	Gly	Phe	Leu	Lys	Leu	Arg	Val	Leu	Phe	Leu	Phe
			20					25					30		

Pro	Ala	Phe	Arg	Arg	Arg	Leu	Tyr	Leu	Leu	Gly	Leu	Arg	Ala	His	Leu
		35					40					45			

Ala	Pro	Lys	Val	Arg	Cys	Leu
	50					55

<210> 9468

<211> 57

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9468

Lys	Met	Lys	Ile	Leu	Lys	Lys	Leu	Leu	Arg	Lys	Phe	His	Arg	Ile	Phe
1				5					10					15	

Cys	Val	Gly	Ile	His	Leu	Ala	Thr	Arg	Ala	Arg	Arg	Gly	Ala	Ala	Leu
			20					25					30		

Ile	Asn	Phe	Lys	Phe	Arg	Ala	Trp	Leu	Ile	Tyr	Glu	Phe	Met	Arg	Ala
		35					40					45			

Leu	Arg	His	Arg	Arg	Lys	Ile	Leu	Ala
	50					55		

<210> 9469

<211> 70

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9469

Ile	Tyr	Arg	Leu	Leu	Lys	Lys	Leu	Phe	Lys	Arg	Trp	Arg	Thr	Ala	Gln
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

[illegible]

<210>	9470
<211>	70
<212>	PRT
<213>	Artificial Sequence
<220>	
<223>	Computer-generated peptide variant
<400>	9470

Arg Leu Arg Leu Leu Lys Lys Leu Leu Lys Leu Leu Lys Lys Met Ala
1 5 10 15

Leu Lys Lys Lys Cys Ala Arg Ile Ala Met Leu Ser Leu Glu Glu Lys
 20 25 30

Asn Gln Lys Pro Met Leu Gly Pro Met Cys Ala Ala Ala Gln Leu Tyr
 35 40 45

Met Arg Lys Leu Arg Cys Val Pro Asp Arg Tyr Ala Thr Lys Arg Leu
 50 55 60

Ile Leu Cys Asp Ala Arg
65 70

<210>	9471
<211>	66
<212>	PRT
<213>	Artificial Sequence
<220>	
<223>	Computer-generated peptide variant
<400>	9471

Lys Leu Lys Ile Leu Gln Lys Met Tyr Lys Arg Leu Arg Thr Lys Leu
 1 5 10 15

Ser Gly Asn Ala Arg Lys Arg Ser Ser Ala Lys Pro Lys Arg Pro Ala
 20 25 30

Ala Thr Asn Gln Tyr Ala Cys Arg Cys Ala Ala Gln Leu Asp Ala Asn
 35 40 45

Ser Leu Arg Arg Arg Arg Tyr Ala Asp Arg Ser Thr Thr Tyr Leu Lys
 50 55 60

Trp Ala
 65

<210> 9472
 <211> 48
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9472

Ile Met Arg Leu Phe Lys Arg Phe Phe Arg Arg Tyr Arg Lys Leu Met
 1 5 10 15

Leu Leu Ile Cys Thr Arg His Leu Arg Phe Asp Gly Ala Gln Leu Ala
 20 25 30

Leu Cys Pro Val Glu Arg Asp Leu Arg Arg His Ala Ala Lys Ala Arg
 35 40 45

<210> 9473
 <211> 48
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9473

Leu Trp Lys Leu Leu Lys Lys Leu Met Lys Arg Phe Arg His Pro Met
 1 5 10 15

Ala Lys Leu Leu Arg Ala Leu Arg Ala Asp His Leu Asn Cys Glu Tyr

20

25

30

Tyr Pro Asn Ala Arg Pro Leu Val Met His Arg Ala Arg Lys Val His
 35 40 45

<210> 9474

<211> 79

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9474

Arg Leu Lys Met Tyr Cys Arg Leu Met Arg Lys Leu Ser Lys Ile Asp
 1 5 10 15

Asp Ala Leu Tyr Lys Phe Ala Ala Lys Leu Tyr Leu Ile Ala Ala Ala
 20 25 30

Arg Ala Arg Lys Arg Phe Met Arg Ile Arg Ile Arg Asp His Trp Ala
 35 40 45

Val Lys Ala Gln Ile Ala Ala Phe Ala Leu Cys Lys Val Arg Asn Gly
 50 55 60

Met Ala Lys Tyr Tyr Met Ser Arg Leu Ala Asn Leu Met Met Leu
 65 70 75

<210> 9475

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9475

Arg Leu Arg Met Leu Arg Arg Met Ile Lys Leu Phe Arg Ser Ala Leu
 1 5 10 15

Arg Gln Leu Ile Arg Gln Ala Asn Thr Asp Lys
 20 25

<210> 9476

<211> 41

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9476

Leu Tyr Lys Leu Leu Gln Lys Leu Tyr Arg Ile Trp Thr Pro Cys Arg
1 5 10 15

Ala Met Arg Leu Lys Glu Ala Tyr Phe Leu Gln Ala Ile Leu Lys Leu
20 25 30

Thr Arg Glu Leu Leu Met Lys Lys Phe
35 40

<210> 9477

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9477

Leu Phe Lys Leu Trp Arg Arg Phe Leu Arg Leu Tyr Lys Asn Ala Leu
1 5 10 15

Tyr Lys Lys Ala
20

<210> 9478

<211> 43

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9478

Trp Leu Lys Ile Trp Cys Lys Trp Tyr Lys Arg Tyr Thr Cys Lys Asn
1 5 10 15

Trp Trp His Ser Cys Ala Phe Leu Lys Lys Ala Lys Arg Lys Leu Ala
20 25 30

Arg Cys Leu Arg Leu Leu Thr Arg Arg Leu Pro
35 40

<210> 9479
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9479

Lys Leu Lys Ile Leu Pro Arg Ile Leu Lys Lys Leu Lys His Asn Val
 1 5 10 15

Ala His Ala Asp
 20

<210> 9480
 <211> 44
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9480

Arg Ile Lys Met Tyr Lys Arg Met Leu Lys Ile Trp His His Leu Ala
 1 5 10 15

Lys Ala Pro Glu Leu Arg Lys Pro Met Arg Ala Phe Leu Tyr Arg Ala
 20 25 30

Gly Arg Ala Lys Lys Ala Ala Leu Lys Val Cys Asp
 35 40

<210> 9481
 <211> 72
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9481

Met Leu Lys Leu Leu Cys Arg Ile Met Lys Ile Leu Cys Lys Ala Lys
 1 5 10 15

Arg Pro Arg Glu Arg Arg Val Gly Lys Ser Leu Val Ala Arg Leu Lys
 20 25 30

Arg Arg Lys Ser Ala Ala Thr Arg Thr Val Tyr Lys Gln Lys Ala Glu
 35 40 45

Leu Leu Tyr Ile Gly Asp Ala Ala Lys Tyr Ile Asn Arg Leu Asn Asp
 50 55 60

Leu Lys Ala Asp Pro Arg Leu Ala
 65 70

<210> 9482
 <211> 48
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9482

Leu Tyr Lys Leu Trp Arg Lys Leu Leu Lys Lys Leu His Pro Arg Trp
 1 5 10 15

Lys Ala Asp Ala Pro Pro Ala Arg Val Cys Arg Ala Leu Arg Arg Ala
 20 25 30

Trp Thr Glu Leu Lys Lys Trp Ala Arg Arg Lys Ala Ala Thr Thr Val
 35 40 45

<210> 9483
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9483

Ile Phe Lys Trp Ile Arg Lys Leu Leu Arg Ile Tyr Pro Cys Ala Asn
 1 5 10 15

Ala Ile Lys Phe Asn Arg Ala Ala Arg Met Thr Arg Ala Glu Leu Lys
 20 25 30

Leu Cys Leu Ala
 35

<210> 9484

<211> 51
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9484

Leu Trp Lys Met Leu His Lys Leu Trp Lys Arg Tyr Lys Lys Arg Lys
 1 5 10 15

Pro Ala Leu Phe Asp Tyr Arg Ile Leu Phe Trp Ala Asn Arg Leu Gly
 20 25 30

Ala Arg Lys Asn Asn Ala Lys Lys Asn Leu Arg Lys Cys Pro Lys Glu
 35 40 45

Pro Leu Ala
 50

<210> 9485
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9485

Leu Phe Arg Tyr Phe Asn Arg Leu Phe Arg Phe Trp Lys Lys Lys Arg
 1 5 10 15

Phe Lys Asp Glu Leu Leu Asn Ala Arg Lys Leu Leu Ala Asp Ala Arg
 20 25 30

Leu Lys Lys Ala
 35

<210> 9486
 <211> 39
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9486

Met Met Lys Tyr Tyr Arg Arg Leu Leu Arg Phe Leu Arg Arg Tyr Lys

1 5 10 15

Asp Trp Arg Leu His Ala Arg Asp Met Ala Pro Arg Leu Lys Ala Val
 20 25 30

Arg Val Ala Met Met Val Ala
 35

<210> 9487
 <211> 27
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9487

Arg Leu Arg Phe Phe Arg Arg Met Leu Lys Lys Ile Lys Lys Leu Thr
 1 5 10 15

Gly Leu Ala Ala Ile Thr Thr Gly Cys Tyr Ala
 20 25

<210> 9488
 <211> 78
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9488

Ile Tyr Lys Leu Met Lys Lys Leu Leu Lys Tyr Phe Lys Arg Glu Lys
 1 5 10 15

Arg Asp Lys Arg Gly Val Glu Arg Lys Lys Thr Lys Thr Lys Leu Ala
 20 25 30

Arg Gln Lys Tyr Cys Asp Glu Leu His Leu Leu Leu Glu Arg Ala
 35 40 45

Ala Pro Gln Ala Arg Trp Arg Lys Ala Leu Ala Leu Phe Val Glu Tyr
 50 55 60

His Arg Lys Thr Lys Leu Lys Gln Arg Leu Arg Gln Leu Val
 65 70 75

<210> 9489
 <211> 37
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9489

Tyr Leu Lys Met Phe Arg Arg Tyr Tyr Arg Lys Leu Arg Lys Gln Leu
 1 5 10 15

Lys Ile Asp Lys Cys Thr Trp Ala Ala Leu Leu Trp Lys Ala Glu Ala
 20 25 30

Thr Arg Gln Ala Leu
 35

<210> 9490
 <211> 99
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9490

Arg Leu Lys Ile Phe Thr Lys Leu Trp Arg Leu Tyr Lys Asn Arg Asp
 1 5 10 15

Thr Ala Arg Ala Lys Lys Ser Lys Arg Ala Leu Trp Arg Lys Ala Ser
 20 25 30

Tyr Val Asn Arg Tyr Ala Lys Leu Ala Leu Cys Ala Thr Ala His Val
 35 40 45

Phe Arg Asp Lys Ser Leu Lys Lys Ala His Ala Tyr Lys Arg Arg Arg
 50 55 60

Met Arg Pro Gln Arg Lys Arg Tyr Trp Lys Ala Thr Leu Gly Arg Lys
 65 70 75 80

Leu Leu Ala Thr Leu Val Ala Lys Asp Arg Arg Ala Ala His Ile Leu
 85 90 95

Arg Leu Leu

<210> 9491
 <211> 47
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9491

Lys Ile Lys Leu Ile Lys Lys Met Leu Arg Phe Tyr Lys Gln Tyr Gly
 1 5 10 15

Cys Arg Leu Ala Arg Gly Arg Lys Met Pro Ser Pro Leu Glu Lys Ala
 20 25 30

His Lys Lys Ala Leu Leu Leu Leu His Arg Leu Gln Ala His Pro
 35 40 45

<210> 9492
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9492

Lys Phe Arg Leu Leu Lys Lys Leu Met Lys Phe Leu Lys His Leu Ile
 1 5 10 15

Val Leu Ala Thr Lys Lys
 20

<210> 9493
 <211> 58
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9493

Trp Ile Lys Phe Phe Arg Lys Leu Met Lys Leu Tyr Asn Arg Ala Pro
 1 5 10 15

Ala Leu Glu Asp Leu Leu Asp Arg Ser Gln Arg Lys Ile Ala Lys Ala

20

25

30

Arg His Trp Leu Asp Leu Asn Gly Arg Leu Leu Tyr Ile Leu Lys Arg
 35 40 45

Arg Arg Thr Ala Lys Thr Met Val Ala Arg
 50 55

<210> 9494

<211> 60

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9494

Leu Phe Arg Met Phe Pro Lys Leu Phe Arg Lys Tyr Arg Gln Ala Pro
 1 5 10 15

Gln Cys Gly Met Trp Leu Leu Ala Leu Lys Leu Lys Arg Leu Ala Asp
 20 25 30

Lys Leu Val Lys Arg Leu Arg Gly Leu Gln Phe Ala Leu Phe Lys Met
 35 40 45

Lys Lys Ile Arg Trp Glu Leu Met Phe Gly Gln Ala
 50 55 60

<210> 9495

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9495

Leu Tyr Lys Trp Phe Cys Lys Ile Met Arg Arg Trp Lys Asn Val Arg
 1 5 10 15

Gly Ala Leu Leu Leu Leu Pro Arg Trp Thr Leu Pro Ala Leu Leu Trp
 20 25 30

Arg Thr Leu Lys Ala His Asn Leu
 35 40

<210> 9496
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9496

Arg Leu Arg Leu Phe Ser Lys Phe Tyr Lys Arg Phe Gln Arg Leu Leu
 1 5 10 15

Ser Ser Leu Pro Leu Asp Arg Gln Lys His Leu Lys Ile Ala Gly Lys
 20 25 30

Asn Leu Lys Val Ala Met Lys Pro
 35 40

<210> 9497
 <211> 98
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9497

Arg Met Arg Tyr Leu Arg Arg Tyr Met Arg Phe Phe Gln Lys Leu Arg
 1 5 10 15

Lys Phe Lys Arg Thr Arg Lys Asn Ala Cys His Arg Lys Arg Lys Gln
 20 25 30

Trp Gly Arg Cys Pro Trp Arg Ala Arg Leu Leu Lys Tyr Leu Ser Leu
 35 40 45

Leu Met His Ala Ile Leu Ser Ile Gly Leu Asp Asp Arg Asn Leu Phe
 50 55 60

Leu Glu Ala Arg Ala His Ala Ala Arg Arg Ala Asn Ala Lys Ala Pro
 65 70 75 80

Arg Ala His Gln Ser Ala Ala Ala Leu Gly Ala Tyr Tyr Ile Ala Arg
 85 90 95

His Glu

<210> 9498
 <211> 27
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9498

Arg Leu Lys Leu Trp Arg Lys Phe Ile Arg Lys Tyr His Lys Leu Glu
 1 5 10 15

Ala Thr Ala Arg Leu Trp Met Leu Phe Leu Ala
 20 25

<210> 9499
 <211> 68
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9499

Arg Leu Arg Leu Phe Arg Lys Ile Leu Lys Met Leu Cys His Leu Arg
 1 5 10 15

Leu Gln Leu Pro Ile Ala Cys His Glu Lys Met Lys Tyr Ser Lys Asn
 20 25 30

Gln Asn Gly Lys Ala Arg Leu Leu His Arg Leu Arg Arg Met Ala Phe
 35 40 45

Gln Val Asn Phe Val Thr Arg Arg Arg Ala Ala Cys Ala Arg Ala Pro
 50 55 60

Met Ala Arg Leu
 65

<210> 9500
 <211> 68
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9500

Trp Leu Arg Leu Met Arg Lys Leu Trp Arg Lys Leu Pro Lys Met Asn
 1 5 10 15

Ile Pro His Lys Lys Arg Ala Phe Lys Lys Ala Phe Thr Leu Leu Lys
 20 25 30

Lys Tyr Lys Leu Leu His Phe Pro Glu Asp Ala Tyr Val Arg Lys Ala
 35 40 45

Asn Ala Arg Ala Tyr Lys Lys Met Tyr His Ala Met Met Leu Ala Glu
 50 55 60

Lys Arg Gly Arg
 65

<210> 9501

<211> 72

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9501

Ile Tyr Arg Leu Phe Pro Lys Phe Ile Arg Arg Phe Arg Arg Arg Asp
 1 5 10 15

Pro Asn Cys Leu Asp Lys Gln Ala Leu His Arg Lys Ala Leu Leu Asn
 20 25 30

Arg Ala Lys Pro Phe Leu Ser Lys Gln Val Thr Lys Lys Leu Lys Leu
 35 40 45

Pro Asn Lys Arg Cys Arg Leu Glu Gly Asn Asn Leu Leu Lys Ser Leu
 50 55 60

Leu Ala Phe Ala Lys Leu His Asn
 65 70

<210> 9502

<211> 97

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9502

Lys Leu Lys Ile Phe Ser Arg Phe Leu Lys Phe Leu Arg Cys Leu Lys
 1 5 10 15

Pro Arg Glu Ala Ile Leu Asn Arg Ala Glu Ile Arg Thr Leu Gln Lys
 20 25 30

Gln Arg Gln Lys Lys Val Pro Leu Asp Trp Ala Arg Arg Arg Glu Lys
 35 40 45

His Arg Asp Leu Ala Ala Ser Arg Arg Leu Phe Ser Arg Leu Asp Lys
 50 55 60

His Arg Ala Ala Gly Leu Arg Arg Val Asn Lys Leu Val Trp Asp His
 65 70 75 80

Cys Ala Arg Ala Asn Leu Tyr Thr Tyr Ala Lys Lys Glu Leu Asn Leu
 85 90 95

His

<210> 9503

<211> 44

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9503

Leu Ile Arg Phe Leu His Lys Met Leu Arg Leu Phe Arg Ser His Trp
 1 5 10 15

Ala Val Glu Lys Ala Val Arg Lys Tyr Ala Lys Lys Arg Leu Glu Lys
 20 25 30

His Leu Ala Ser Lys Lys Ala Thr Leu Asn Pro Thr
 35 40

<210> 9504

<211> 41

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9504

Phe Leu Lys Ile Met Lys Arg Phe Leu Arg Trp Leu Arg Thr Arg Asn
1 5 10 15

Leu Leu Phe Leu Lys Ala Arg Glu Pro Met Arg Ala Gln Lys Pro Thr
20 25 30

Leu Arg Val Lys Cys Val Ala Glu Lys
35 40

<210> 9505

<211> 38

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9505

Tyr Leu Lys Phe Met Lys Arg Tyr Phe Lys Leu Tyr Arg Arg Phe Leu
1 5 10 15

Arg Val Arg His Leu Lys Leu Tyr Ala Leu Ala Cys Arg Cys Asn Lys
20 25 30

Thr Leu Ala Gln Arg Met
35

<210> 9506

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9506

Lys Leu Lys Leu Leu Thr Arg Phe Ile Arg Ile Tyr Lys Lys Arg His
1 5 10 15

Tyr Arg Leu Cys Ala Leu Cys Trp Gln Lys Phe Leu Thr
20 25

<210> 9507
 <211> 50
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9507

Met Tyr Lys Trp Phe Lys Lys Met Leu Arg Arg Trp Arg Arg Arg Arg
 1 5 10 15

Leu Asp Leu His Arg Met Arg Leu Leu Asp Met Ala Leu Val Phe Thr
 20 25 30

Leu Met Lys Arg Ala Met Ile Lys Phe Asn Ala Phe Leu Pro Leu Lys
 35 40 45

Thr Leu
 50

<210> 9508
 <211> 44
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9508

Arg Phe Lys Tyr Phe Lys Arg Phe Phe Arg Lys Leu Gln Cys Leu Cys
 1 5 10 15

Gly Lys Arg Ala Gln Trp Ala Ile Ser Gln Ala Leu Arg Tyr Thr Arg
 20 25 30

Met His Ala Arg Ala Ala Lys Arg Lys Ala Trp Ala
 35 40

<210> 9509
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9509

Met Phe Lys Phe Leu Ser Lys Leu Leu Lys Phe Leu Arg His Trp Phe
 1 5 10 15

Trp Arg Lys Ala Tyr Arg Leu Lys Lys Met Leu Leu Trp His Gln Ala
 20 25 30

Arg Asp

<210> 9510
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9510

Phe Leu Arg Ile Ile Arg Lys Leu Leu Lys Lys Ile Lys Lys Ala Cys
 1 5 10 15

Ala Lys Lys Arg Leu Ser Asn Arg Leu Ala Cys His Leu Asn
 20 25 30

<210> 9511
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9511

Leu Leu Arg Leu Ile Gln Arg Tyr Ile Lys Arg Phe Arg Arg Leu Ala
 1 5 10 15

Ala Cys Cys Lys Phe Gln Arg His Thr
 20 25

<210> 9512
 <211> 39
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9512

Arg Ile Arg Leu Tyr Gln Arg Leu Leu Lys Phe Trp Lys Lys Lys Ala
 1 5 10 15

Leu Ala His Glu Lys Ala Lys Ile Leu Asn Trp Ala Ala Tyr Lys Ser
 20 25 30

Ala Gly Trp Ile Gln Ala Ala
 35

<210> 9513

<211> 50

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9513

Arg Leu Lys Leu Ile Arg Lys Leu Met Arg Lys Trp Thr Arg Lys Glu
 1 5 10 15

Arg Leu Pro Ala Asp Ser Arg Leu Leu Val Phe Leu Arg Leu Asn Val
 20 25 30

Asn Ala Cys Asp Ala Gln Ala Val Ala Leu Ile His Ala Tyr Asp Lys
 35 40 45

Lys Glu
 50

<210> 9514

<211> 42

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9514

Arg Ile Lys Met Leu Thr Lys Tyr Phe Arg Leu Tyr Arg Arg Arg Leu
 1 5 10 15

Arg Lys Arg Thr Leu Arg Met Ala Ala Gly Leu Ala Leu Arg Asn His
 20 25 30

Leu Ala Val Ile Gln Arg Phe Phe Arg His

35

40

<210> 9515
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant
 <400> 9515

Arg Ile Arg Leu Met Pro Lys Leu Met Lys Lys Leu Gln Lys Lys Gly
 1 5 10 15

Arg Arg Arg Ala Ala Pro Leu Pro Pro Leu Leu Arg Pro Thr Glu Thr
 20 25 30

Leu Gln Arg Ala
 35

<210> 9516
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant
 <400> 9516

Lys Phe Arg Leu Phe Arg Lys Tyr Leu Lys Arg Leu Arg Gln Ala Glu
 1 5 10 15

His Lys Ile Ala Asn Pro Leu Val Ala Leu Ser His Thr Gly Arg Ala
 20 25 30

Lys Tyr

<210> 9517
 <211> 31
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant
 <400> 9517

Lys Met Lys Met Leu Arg Arg Phe Leu Arg Lys Met Arg Lys Ala Ala

1 5 10 15

Arg Ala Leu Cys Pro Arg Tyr Gly Arg Ile Ala Leu Phe His Met
20 25 30

<210> 9518
<211> 50
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 9518

Arg Leu Lys Phe Ile Arg Arg Met Met Arg Lys Phe Arg His Leu Pro
1 5 10 15

Ala Lys Lys Leu Ser Ile Met Ile Ala Arg Ala Met Phe Met His Gly
20 25 30

Val Phe Pro Ala Leu Lys Arg Ala Leu Leu Arg Arg Leu Leu Lys Pro
35 40 45

Lys Tyr
50

<210> 9519
<211> 95
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 9519

Lys Ile Arg Leu Phe Pro Lys Met Tyr Arg Leu Leu Thr Pro Trp Phe
1 5 10 15

Ser Ala Leu Val Cys Ala His Arg Ala Arg Tyr Leu Asn His Arg Ser
20 25 30

Arg Pro Arg Lys Glu Trp Phe Met Leu Ala His Leu His Leu Thr Trp
35 40 45

Ala Ala Lys Ser Ala Pro Leu Leu Lys Arg Ser Ala Arg Lys Arg Lys
50 55 60

Ala Leu Tyr Cys Ile Ile Lys Gln Arg Leu Arg Arg Cys Lys Ala His
 65 70 75 80

Gly Leu Phe Gln Glu Phe Arg Asn Arg Ala Leu Lys Ala Arg Ala
 85 90 95

<210> 9520
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9520

Tyr Leu Lys Leu Phe Cys Lys Phe Leu Arg Arg Leu Lys Arg Lys Leu
 1 5 10 15

Thr Ala Lys Gly Asp Cys Tyr His Lys Ala Asn Cys Arg Asp Ala Val
 20 25 30

Cys Leu

<210> 9521
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9521

Arg Ile Lys Leu Leu Lys Arg Met Leu Arg Met Phe Lys Lys Asp Arg
 1 5 10 15

Asn Leu Ala Leu Asp Leu Ala Phe Arg Pro Ile Arg Leu Leu Ser Arg
 20 25 30

Cys Asp

<210> 9522
 <211> 38
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9522

Leu	Leu	Lys	Leu	Ile	Lys	Arg	Tyr	Tyr	Arg	Met	Phe	Lys	Lys	Ser	Arg
1				5					10					15	

Ile	Lys	Arg	Val	Gly	Leu	Gly	Arg	Arg	Leu	Ala	Ala	His	Ala	Leu	Ala
			20				25						30		

Trp	Arg	Pro	Glu	Arg	Phe
			35		

<210> 9523

<211> 60

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9523

Leu	Leu	Arg	Leu	Leu	Lys	Lys	Met	Phe	Arg	Leu	Trp	Asn	Lys	Gly	Arg
1				5					10					15	

Met	Leu	Ala	Thr	Arg	Asp	Tyr	Ala	Arg	Tyr	Lys	Arg	Glu	Phe	Leu	Arg
			20					25					30		

Leu	Lys	Cys	Arg	Asn	Arg	Thr	Ala	Ala	Lys	Arg	Asp	Glu	Met	Lys	Cys
		35					40					45			

Gly	Cys	Ala	Ala	Gly	Glu	Ala	Arg	Ala	Asp	Lys	Leu
	50					55					60

<210> 9524

<211> 92

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9524

Lys	Leu	Arg	Phe	Leu	Arg	Arg	Leu	Trp	Lys	Ile	Met	Asn	Arg	His	Ala
1				5					10					15	

Ala	Lys	Arg	Tyr	Lys	Lys	Ile	Leu	Tyr	Arg	His	Leu	Cys	Glu	Ala	Arg
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

20

25

30

Arg Leu Glu Cys Glu Phe Cys Ala Gln Arg Lys Leu Glu Phe Ala Ala
 35 40 45

Trp Ala His Lys Lys Lys Ala Pro Arg Ile Leu Arg Tyr Val Leu Ala
 50 55 60

Lys Leu Lys Ser Ala Leu His Ala Lys Lys His Arg Asp Ile Ala Val
 65 70 75 80

Ile Lys Ala Leu Asp Trp His Trp Ala Ala Arg Leu
 85 90

<210> 9525
 <211> 26
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9525

Lys Leu Arg Leu Tyr His Arg Phe Tyr Lys Lys Leu Lys Thr Phe Leu
 1 5 10 15

Leu Ala Glu Cys Trp Lys Ala Ala Lys Asn
 20 25

<210> 9526
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9526

Arg Phe Lys Leu Leu Arg Arg Ile Trp Lys Leu Phe Arg Thr Leu Leu
 1 5 10 15

Asn Arg Asn Gln Phe Ala
 20

<210> 9527
 <211> 32
 <212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9527

Met Trp Lys Tyr Tyr Arg Arg Leu Leu Lys Lys Trp Arg Gln Tyr Lys
1 5 10 15

Lys Leu Ile Ala Arg Ala Ala Ala Ile Ala Glu Lys Asp His Arg Ser
20 25 30

<210> 9528

<211> 85

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9528

Met Leu Lys Phe Leu Asn Arg Ile Phe Arg Lys Leu Lys Asn Leu Lys
1 5 10 15

Leu Lys Cys His Leu Ala Asp Met Ala Pro Trp Phe Lys Ala Arg Leu
20 25 30

Arg Tyr Ala Gln Tyr Leu Arg Met His Leu Thr Val Lys Glu Trp Leu
35 40 45

Arg His Arg Ala Val Leu Ala Leu Ala Arg Ser Gln Lys Arg Leu Thr
50 55 60

Val Arg Met Ala Ala Arg Val Thr Ser Arg Lys Val Trp Trp Lys Leu
65 70 75 80

Lys Ser Lys Val Trp
85

<210> 9529

<211> 67

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9529

Arg Leu Arg Tyr Phe Lys Lys Phe Leu Arg Leu Leu Arg Arg Gln Asp
 1 5 10 15

Arg Ala Leu Arg Leu Ala Gly Ala Leu Leu His Ala Glu Asn Ile Ala
 20 25 30

Arg Glu Arg Lys Asn Lys Ile Ala Met Tyr Ala Arg Asp Gly Leu Met
 35 40 45

Lys Ser Phe Gln Glu Ala Arg Ile Phe Phe Ile Thr Leu Ala Leu Lys
 50 55 60

Val Arg Asn
 65

<210> 9530
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9530

Leu Phe Arg Tyr Leu Cys Lys Met Phe Lys Arg Trp Lys Pro Lys Asp
 1 5 10 15

Phe Ala Ala Leu Lys
 20

<210> 9531
 <211> 54
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9531

Lys Leu Arg Trp Tyr Lys Lys Met Leu Lys Tyr Phe Lys Arg Phe Lys
 1 5 10 15

Tyr Trp Arg Phe Ile Lys Gly Lys Glu Leu Asn Met Ala Lys Asp Ala
 20 25 30

Leu Leu Trp Thr Leu Arg Lys His Leu Ala Lys Trp Ala His Phe Ala

35

40

45

Ala Arg Ala Arg Asn Gly
50

<210> 9532
<211> 29
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 9532

Lys Leu Arg Leu Met Ser Arg Ile Met Lys Leu Phe Arg Lys Gln Lys
1 5 10 15

Ser Lys Ser Leu Tyr Lys Thr Leu Val His Leu Asp Ala
20 25

<210> 9533
<211> 44
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 9533

Arg Leu Arg Leu Met Ser Arg Met Tyr Lys Lys Met Lys Lys Ser Lys
1 5 10 15

Arg Ala Leu Thr Ser Ala Val Ala Ser Ala Leu Lys Lys Tyr Pro Tyr
20 25 30

Pro Gly Leu Leu Ala Thr Arg Ala Cys Thr Leu Ala
35 40

<210> 9534
<211> 33
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 9534

Arg Met Arg Trp Leu Arg Arg Met Phe Lys Lys Leu Arg Ser Leu Leu

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<210>  9535
<211>  34
<212>  PRT
<213>  Artificial Sequence
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<220>
<223> Computer-generated peptide variant

Lys Leu Lys Tyr Trp Lys Lys Leu Ile Arg Arg Leu Lys Pro Lys His
1 5 10 15

Lys Arg Trp Ala Ala Glu Ser Gly Thr Leu Leu Arg Leu Gln Ser Ala
20 25 30

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<210> 9536
<211> 32
<212> PRT
<213> Artificial Sequence
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<220>
<223> Computer-generated peptide variant

Lys Leu Lys Leu Phe Ser Lys Phe Leu Arg Lys Trp Arg Lys Arg Leu
1 5 10 15

Glu Cys Gly Ala Gly Arg Ala Ser Pro Gly Arg Leu Thr Leu Leu Leu
20 25 30

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<210> 9537
<211> 55
<212> PRT
<213> Artificial Sequence
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<220>
<223> Computer-generated peptide variant

<400> 9537

Arg Met Arg Leu Leu Pro Arg Trp Trp Lys Lys Phe Pro Lys Leu Val
 1 5 10 15

Ala Gly Ala Val Ala Lys Leu Ala Leu Thr Ile Val Arg Leu Leu Lys
 20 25 30

Lys Arg Pro Met Lys Lys Trp Ile Leu Asn His Tyr Phe Arg Lys Leu
 35 40 45

Arg Lys Val Ala Cys Phe Ala
 50 55

<210> 9538

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9538

Leu Met Lys Phe Phe Arg Lys Trp Leu Lys Lys Phe Lys Gln Arg Ala
 1 5 10 15

Ser Tyr Lys Arg Lys Ala Arg Leu Lys Leu Ala Leu Asp Glu Leu Arg
 20 25 30

Cys Leu

<210> 9539

<211> 43

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9539

Leu Phe Arg Phe Ile Lys Arg Leu Leu Arg Met Leu His Lys Leu Leu
 1 5 10 15

Phe Glu Cys Cys Arg Leu Ala Arg Ala Lys Glu Met Val Ala Lys Cys
 20 25 30

Asp Pro Leu Arg Asp Arg Leu Pro Val Thr Ala
 35 40

<210> 9540
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9540

Arg Phe Arg Trp Leu Asn Arg Leu Trp Lys Lys Met Pro Gln Lys Leu
 1 5 10 15

Gln Arg Leu Ser Pro Phe His Arg Leu Leu Ala Ala
 20 25

<210> 9541
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9541

Arg Ile Lys Phe Tyr Cys Arg Leu Met Arg Trp Leu Thr Arg Met Ala
 1 5 10 15

Lys Ala Asp Leu Ala
 20

<210> 9542
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9542

Arg Leu Arg Trp Tyr Lys Lys Phe Phe Lys Trp Ile Ser Arg His Leu
 1 5 10 15

Leu Tyr Ala Gly Glu Leu Thr Ala Ala Lys Met Lys Leu
 20 25

<210> 9543
 <211> 84
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9543

Leu Leu Arg Leu Phe Lys Lys Phe Trp Lys Ile Tyr Lys Lys Arg Ala
 1 5 10 15

Phe Ala Arg Ala Met Ile Ile Ser Lys Ala Arg Lys Lys Arg Glu Lys
 20 25 30

Tyr Ala Arg Arg Arg His Arg Ala Ala Asn Leu Arg Lys Arg Lys Asn
 35 40 45

Asp Asp Lys Ala Leu Leu Cys Trp Pro Leu Tyr Leu Met His Arg Asn
 50 55 60

Leu Gly Gly Arg Ala Arg Asp Ser Lys His Gln Ser Leu Met Gln Glu
 65 70 75 80

Leu Leu Arg Lys

<210> 9544
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9544

Lys Tyr Lys Met Leu Lys Arg Leu Leu Arg Arg Leu Lys Arg Arg Ile
 1 5 10 15

Trp Pro Ala His Asn Leu Asp Cys Val Ala Tyr Leu Lys Arg Ser Ile
 20 25 30

Trp Leu Leu Ala Leu Gly Leu Lys
 35 40

<210> 9545

<211> 27
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9545

Leu Ile Arg Phe Tyr Lys Lys Phe Leu Arg Lys Leu Lys Arg Met Ala
 1 5 10 15

Arg Thr Leu Leu Ile Ala Leu Ala Trp Glu Asn
 20 25

<210> 9546
 <211> 39
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9546

Lys Leu Lys Ile Leu His Arg Leu Leu Lys Met Ile Arg Arg Arg Gln
 1 5 10 15

Arg Asn Asn Asn Lys Asp Leu His Ala Leu Ala Val Leu Arg Gln Ala
 20 25 30

Thr Ala Arg Asp Lys Ala Leu
 35

<210> 9547
 <211> 26
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9547

Leu Phe Arg Ile Tyr Lys Arg Leu Leu Arg Arg Leu Lys Asn Tyr Cys
 1 5 10 15

Ala Ile His Arg His Met Arg Leu Leu Arg
 20 25

<210> 9548

<211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9548

Arg Phe Lys Ile Leu Arg Lys Ile Leu Lys Phe Leu His Lys Ala Cys
 1 5 10 15

Asp Pro Leu Leu Arg Lys Leu Val Tyr
 20 25

<210> 9549
 <211> 70
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9549

Leu Leu Arg Phe Met Lys Lys Tyr Tyr Arg Lys Ile Arg Thr Leu Ile
 1 5 10 15

His Gln Val Leu Gly Ile Val Ala Arg Lys Arg Lys Ala Leu Arg Gln
 20 25 30

Ala Lys Cys Lys Arg Lys Leu Leu Glu Ala Ala His His Lys Lys Arg
 35 40 45

Val Ala Lys Cys Ala Lys Ile Lys Gly Glu Tyr Tyr Leu Ala Thr Leu
 50 55 60

Tyr Lys Gln Asp Leu Arg
 65 70

<210> 9550
 <211> 78
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9550

Leu Tyr Arg Leu Leu Arg Lys Met Leu Arg Phe Leu Arg Lys Ser Arg

1				5					10					15		
Leu	Ala	Ala	Val	Trp	Ser	Leu	Pro	His	Pro	Leu	Leu	Ala	Lys	Phe	Glu	
			20					25					30			
Glu	Lys	Lys	Lys	Leu	Ala	Leu	Gln	Thr	Cys	Ala	Lys	Ser	Leu	Glu	Cys	
		35					40					45				
Cys	Gln	Glu	Lys	Pro	Leu	Ala	Gly	Arg	Arg	Lys	Thr	Ser	Cys	Met	Glu	
	50					55					60					
Phe	Leu	Ala	Asp	Ala	Val	Arg	Pro	Arg	Arg	Ala	Lys	Ala	Arg			
65					70					75						

<210>	9551
<211>	87
<212>	PRT
<213>	Artificial Sequence
<220>	
<223>	Computer-generated peptide variant
<400>	9551

[illegible]

<210>	9552
<211>	23
<212>	PRT
<213>	Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9552

Lys Leu Arg Trp Leu Lys Arg Ile Leu Lys Lys Leu Gln Lys Lys Ala
 1 5 10 15

Tyr Ser Asn Pro Ala Thr Tyr
 20

<210> 9553

<211> 63

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9553

Leu Leu Lys Leu Met Ser Lys Met Tyr Arg Lys Leu Lys His Arg Cys
 1 5 10 15

Ala Gln Lys Thr Tyr His Lys Lys Leu Arg Ala Leu Met Asp Ala Lys
 20 25 30

Asn Leu Thr Arg Asn Phe Lys Arg Leu Thr Leu Arg Pro Ala Gln Pro
 35 40 45

Leu Arg Gln His Leu Val Glu Trp Arg Tyr Arg Leu Thr Lys Leu
 50 55 60

<210> 9554

<211> 60

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9554

Phe Ile Arg Met Ile Thr Arg Leu Met Lys Leu Phe Arg Lys Cys Tyr
 1 5 10 15

Lys Glu Lys Arg Lys Lys His Met Cys Ile Trp Arg Cys Arg Asp Asn
 20 25 30

Leu His Arg Thr Gln Arg Leu Lys Ala Arg Leu Leu Ala Lys Gln Leu

35

40

45

Lys Met Leu Arg Leu Ala Arg Ala Asp Pro Pro Ala
 50 55 60

<210> 9555

<211> 45

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9555

Leu Leu Lys Met Phe Pro Lys Trp Met Arg Ile Leu Pro Gln Gln Lys
 1 5 10 15

Thr Ala Arg Lys Ala Lys Phe Ser Leu Glu Arg Arg Asp Lys Val Pro
 20 25 30

Arg Leu Arg Ala Leu Glu Arg Ile Ala Ser Lys Arg Ala
 35 40 45

<210> 9556

<211> 46

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9556

Leu Ile Lys Met Phe Lys Lys Phe Phe Lys Ile Phe Arg Arg Arg Gln
 1 5 10 15

Lys Arg Thr Ala Leu Gly Leu Leu Cys Leu Lys Arg Ala Arg Glu Cys
 20 25 30

Ala Arg Val Trp Met Trp Ala Lys Trp Leu Tyr Leu Lys Leu
 35 40 45

<210> 9557

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9557

Leu Ile Arg Trp Phe Arg Lys Tyr Ile Lys Lys Met Gln Asn Arg Lys
1 5 10 15

Leu Ile Phe Arg Leu Leu Gln Tyr Ser Ala Arg Leu Ala Leu Arg Ala
20 25 30

<210> 9558

<211> 52

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9558

Arg Phe Arg Leu Tyr Ser Lys Leu Met Arg Phe Leu Arg Arg Phe Ile
1 5 10 15

Asn Lys Gly Lys Leu Cys Arg Ala Leu Gly Lys Ala His Ile Arg Trp
20 25 30

Lys Leu Leu Ala Leu Cys Arg His Leu Ala Ala Ile Ala Cys Ala Trp
35 40 45

Glu Arg Asp Arg
50

<210> 9559

<211> 31

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9559

Lys Phe Lys Leu Phe Arg Arg Phe Trp Lys Leu Phe Arg Pro Gly Val
1 5 10 15

Arg Ala Ile Glu Lys Arg Glu Leu Leu Ile Leu Cys Leu Ala Lys
20 25 30

<210> 9560

<211> 65

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9560

Leu Tyr Arg Phe Leu Pro Arg Leu Trp Lys Lys Phe Pro Lys Arg Trp
1 5 10 15

Ala Tyr Met Thr Ser Ala Ala Leu Lys Leu Pro Arg Trp Arg Met Asn
20 25 30

Arg Lys Asn Leu Glu Val Leu Pro Leu Arg Ala Arg Arg Arg Thr Phe
35 40 45

Asn Ala Gly Lys Leu Leu Gln Phe Ala Ala Ala Leu Gln Lys Thr Val
50 55 60

Ala
65

<210> 9561

<211> 60

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9561

Arg Phe Lys Phe Ile Lys Lys Phe Leu Lys Leu Phe Lys Lys Ala Ala
1 5 10 15

Ala Ala Asp Lys Arg Glu Pro Lys Lys Lys Val Ala Lys Arg Thr Trp
20 25 30

Asn Thr Leu Ala Asp Tyr Glu Gly Ala Ile Arg Lys Leu Ala Lys Arg
35 40 45

Leu Pro Asn Glu Asp Cys Lys Leu Phe Leu Arg Val
50 55 60

<210> 9562

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9562

Leu Ile Lys Tyr Leu Lys Arg Phe Trp Lys Leu Leu Lys Gln Lys Phe
 1 5 10 15

Arg Arg Thr Asn Arg Leu Ala Ala Val
 20 25

<210> 9563

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9563

Arg Phe Arg Leu Phe Lys Arg Leu Tyr Arg Arg Tyr Lys Arg Phe Pro
 1 5 10 15

Pro Ala Lys Pro Gln Gln Thr Arg Leu Lys Ala Met Met Ile Leu Leu
 20 25 30

Leu Leu Leu
 35

<210> 9564

<211> 49

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9564

Arg Met Lys Leu Phe Lys Lys Met Tyr Arg Lys Ile Cys Ser Ala Leu
 1 5 10 15

Asn Ala Ala Lys Ala Val Leu Gly Arg Gln Trp Thr Gln Ala Arg Gly
 20 25 30

Asp Leu Arg Ala Glu Lys Met Ser Ser Pro Ala Lys Val Leu Leu Lys
 35 40 45

Ala

<210> 9565
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9565

Lys Leu Arg Trp Leu Lys Lys Leu Tyr Lys Trp Leu Gln Thr Lys Leu
 1 5 10 15

Thr Asn Val Leu Lys Thr Pro Asn Arg Ala Lys Ser Gly Arg
 20 25 30

<210> 9566
 <211> 56
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9566

Lys Leu Lys Phe Leu Arg Lys Phe Ile Arg Met Leu Arg Arg Ala Trp
 1 5 10 15

Val Pro Ala Val Ala Tyr Asp Ser Asp Asn Leu Lys Ala Tyr Met Arg
 20 25 30

Ala Phe Glu Ala Gly Ser Ala Arg Arg Arg Ala Lys Cys Arg Trp Arg
 35 40 45

Leu Cys Ser Ala Leu Cys Thr Ala
 50 55

<210> 9567
 <211> 45
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9567

Arg Phe Lys Leu Leu Ser Arg Phe Trp Lys Arg Met Asn Arg Ala Cys

1 5 10 15

Lys Lys Lys Ala Cys Leu Leu Leu Cys Ala Leu Met Met Val Arg Ala
20 25 30

Ser Thr Lys Lys Glu Lys Ile Leu Arg Ala Arg Lys Thr
35 40 45

<210>	9568
<211>	46
<212>	PRT
<213>	Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 9568

Arg Leu Lys Leu Ile Lys Arg Leu Leu Lys Leu Ile His Lys Lys Trp
1 5 10 15

Glu His Leu Lys Lys Arg Ala Ile Gly Arg Ile Lys Arg Val Ala Met
20 25 30

Leu Ser Lys Glu Ser Val Ile Leu Leu Ala Leu Ala Arg Leu
35 40 45

<210>	9569
<211>	31
<212>	PRT
<213>	Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 9569

Arg Trp Lys Met Ile Lys Arg Leu Phe Arg Arg Phe His Arg Lys Asn
1 5 10 15

Ala Asp Ala Ala Lys Ile Ala Met Lys Leu Ala Val Lys Gln Ala
20 25 30

<210>	9570
<211>	72
<212>	PRT
<213>	Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 9570

Leu Trp Lys Leu Ile Thr Lys Met Leu Arg Met Phe Lys Arg Ser Lys
 1 5 10 15

Phe Asn Arg Gln Leu Arg Ser Phe Ala Gln Ala Arg Ile Asp Arg Ser
 20 25 30

Lys Cys Ala Lys Leu Ala Leu Ile Val Gly Lys Arg Phe Lys Asp Ala
 35 40 45

Lys His Lys Phe Lys Trp Leu Phe Ala Leu Ala Asn Ala Thr Lys Asn
 50 55 60

Arg Lys Ala Lys Arg Gln Ala Tyr
 65 70

<210> 9571

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9571

Lys Phe Lys Phe Tyr Arg Lys Ile Phe Lys Leu Leu Arg Ser Lys Ala
 1 5 10 15

Leu Thr Pro Ala Tyr Ala Thr Cys Lys
 20 25

<210> 9572

<211> 45

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9572

Arg Trp Arg Phe Leu Arg Arg Leu Phe Arg Phe Leu Cys Arg Pro Ala
 1 5 10 15

Lys Trp Leu Leu Leu Leu Arg Ala Ala Lys Gln His Arg Leu Arg
 20 25 30

Val Asn Met Leu Thr Leu His Arg Leu Val Glu Met Cys
 35 40 45

<210> 9573
 <211> 48
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9573

Met Ile Arg Leu Trp Arg Arg Leu Met Arg Lys Phe Arg Arg Leu Ala
 1 5 10 15

His Gln Asp Pro Glu Leu Arg Leu Arg Leu Ala Arg Lys Arg Ile Arg
 20 25 30

Lys Ala Asn Cys Ala Leu Arg Trp Ala Arg Trp Ala Pro Asn Val Thr
 35 40 45

<210> 9574
 <211> 84
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9574

Lys Leu Arg Leu Leu Ser Lys Phe Phe Arg Arg Phe Gln Lys Lys Lys
 1 5 10 15

Arg Gln Pro Pro Met Ala Leu Lys Ala Ala Ala Gly Ala Glu Pro Tyr
 20 25 30

Leu Ala Met Pro Ala Cys Asp Ala Leu Ala Arg Trp Arg Pro Leu Lys
 35 40 45

Trp Val Leu Leu Gln Ala Pro Leu Met Arg Ala His Pro Lys Thr Ile
 50 55 60

Leu Arg Lys Ala Ala Lys Ala Ala Arg Met Asp Arg Arg Leu Ala Thr
 65 70 75 80

Arg Cys Ala Leu

<210> 9575
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant
 <400> 9575

Met Phe Lys Leu Leu Lys Lys Tyr Tyr Lys Arg Leu Arg Arg Trp Arg
 1 5 10 15

Leu Lys Ala Arg Arg Ala Ala Met Leu Phe Thr Ala Trp Tyr Tyr Gln
 20 25 30

Arg His Gln
 35

<210> 9576
 <211> 27
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant
 <400> 9576

Arg Trp Arg Leu Tyr Lys Arg Tyr Leu Arg Lys Phe Asn Arg Ala Lys
 1 5 10 15

Phe Gly Leu Ala Ala Gly Ala Ser Phe Arg Trp
 20 25

<210> 9577
 <211> 69
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant
 <400> 9577

Arg Trp Arg Tyr Ile Thr Arg Leu Trp Arg Phe Leu Arg Lys Lys Arg
 1 5 10 15

Lys Pro Thr Cys Gln Ala Ser Leu Arg Ala Phe Lys Leu Ala Gln Ala

20

25

30

Asp Gly Leu Lys Ala Leu Asn Met Ser Ser Ile Leu Arg Met Leu Lys
 35 40 45

Arg Met Lys His Met Ile Leu Cys Arg Lys Asn Tyr Asp Leu Ala Glu
 50 55 60

Ala His Lys Ala Lys
 65

<210> 9578
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9578

Lys Leu Arg Trp Leu Gln Arg Leu Met Arg Leu Phe Arg Arg Arg Val
 1 5 10 15

Val Leu Ser Val Arg Pro Ala Pro Ser
 20 25

<210> 9579
 <211> 51
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9579

Lys Leu Arg Met Leu Cys Lys Met Leu Lys Phe Leu Ser Arg Leu Lys
 1 5 10 15

Ala Gln Gln Glu Ala Phe Gly Leu Ala Lys Arg Arg Leu Trp Asp Arg
 20 25 30

Thr Pro Phe Glu Trp Trp Val Arg Leu His Arg Ala Ala Arg Lys Leu
 35 40 45

Ala Arg Leu
 50

<210> 9580
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9580

Arg Phe Lys Leu Leu Lys Arg Phe Met Arg Met Leu His Lys Leu Cys
 1 5 10 15

Arg His Tyr Leu His Tyr Val Arg Leu Lys Gly Leu Tyr
 20 25

<210> 9581
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9581

Lys Leu Arg Phe Trp Thr Lys Trp Ile Arg Lys Leu Lys Arg Glu Ala
 1 5 10 15

Ala Asp Cys Met Leu Leu Ala Leu Leu Arg Phe Ala
 20 25

<210> 9582
 <211> 47
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9582

Lys Met Arg Tyr Leu Arg Arg Leu Trp Arg Phe Met Arg Pro Trp Leu
 1 5 10 15

Gln Val Asp Ser Ala Phe Lys Ala Lys Thr Leu Leu Ala Asp Arg Leu
 20 25 30

Cys Leu Ala Arg Tyr Arg Tyr Val Asn His Pro Leu Arg Leu Ala
 35 40 45

<210> 9583
 <211> 49
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9583

Arg Leu Lys Leu Met Arg Arg Met Ile Lys Arg Ile Thr Lys Glu Lys
 1 5 10 15

Val Phe Ile Leu Leu Thr Ala Leu Arg Glu His Arg Lys Tyr Ala Asn
 20 25 30

Lys Leu Tyr Lys His Met Ala Asn Leu Leu Lys Leu Arg Thr Pro Leu
 35 40 45

Lys

<210> 9584
 <211> 37
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9584

Trp Leu Lys Trp Leu Lys Arg Trp Leu Lys Lys Met His Asn His Ala
 1 5 10 15

Asn Ala Ala Pro Trp Lys Lys Leu Ala Thr Cys Lys Thr Thr Arg Ala
 20 25 30

Leu Arg Lys Lys Lys
 35

<210> 9585
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9585

Lys Met Lys Leu Trp Cys Arg Ile Phe Lys Arg Tyr Asn Pro Arg Trp
 1 5 10 15

Val His Cys Glu Ser Leu Gly Leu Arg Leu Met Leu Leu Arg Ala Leu
 20 25 30

Arg Arg Leu Ala Lys Phe Asn Arg
 35 40

<210> 9586
 <211> 26
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9586

Trp Phe Lys Leu Phe Lys Lys Phe Phe Arg Leu Leu Arg Arg Cys Ala
 1 5 10 15

Gly Asn Glu Leu Ala His Ala His Arg Lys
 20 25

<210> 9587
 <211> 88
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9587

Lys Phe Arg Ile Phe Asn Arg Leu Leu Lys Lys Leu Arg Gln Asp Lys
 1 5 10 15

Leu Lys Lys Ala Ala Arg Arg Pro Val Lys Lys Gly Ser Ile Ala Ser
 20 25 30

Gly Asn Gly Pro Trp Arg Leu Ile Met Arg Lys Arg Leu Ile Lys Trp
 35 40 45

Ser Arg Lys Lys Asn Thr Lys Ala Trp Leu Ala Phe Lys Val Met Ile
 50 55 60

Lys Ser His Lys Lys Tyr His Thr Leu Leu Leu Ala Ser Arg Ala Arg

1 5 10 15

Gln Lys Pro Arg Lys Thr Leu Ala Arg His Leu Arg Arg Arg Ser Arg
20 25 30

Lys Asp Asn Thr Asp Glu Ala Tyr Asn Pro Asn Leu Cys Lys His Ala
35 40 45

Leu Ser Phe Trp Val Leu Lys Tyr Thr Met Ala Gln Val Leu Arg Thr
50 55 60

Arg Lys Phe Leu
65

<210> 9591
 <211> 46
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9591

Arg Met Lys Leu Tyr Cys Lys Leu Phe Arg Arg Leu Lys Lys Ser Arg
1 5 10 15

Ala Cys Lys Gly Arg Asn Lys Gly Leu Phe Lys Ala Cys Tyr Lys Thr
20 25 30

Leu Trp Arg Lys Leu Trp Ala Leu Leu Pro Met Lys Gln Ala
35 40 45

<210> 9592
 <211> 46
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9592

Arg Leu Arg Leu Leu Gln Lys Tyr Leu Arg Arg Tyr Lys Arg Met Arg
1 5 10 15

Arg Leu Arg Leu Asn Val Lys Leu Pro Leu Phe Asp Leu Leu Tyr Ala
20 25 30

Arg Asn Gln Asn Gln Arg Arg Arg Ile Asn Gln Ala Trp Phe
35 40 45

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<210> 9593
<211> 44
<212> PRT
<213> Artificial Sequence
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<220>
<223> Computer-generated peptide variant

<400> 9593

Arg Leu Arg Leu Met Thr Lys Leu Tyr Arg Arg Phe Arg Ser Leu Glu
1 5 10 15

Leu Lys Ala Met Arg Ala Arg Met Lys Lys Asn Ala Ser Leu Val Thr
20 25 30

Ala Phe Asn Glu Phe Arg Arg Ala Ala Asp Pro Trp
35 40

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<210> 9594
<211> 30
<212> PRT
<213> Artificial Sequence
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<220>
<223> Computer-generated peptide variant

<400> 9594

Lys Leu Lys Leu Leu Lys Arg Leu Tyr Arg Leu Met Arg His Trp Asn
1 5 10 15

Ile Ala Leu Asp Ala Asp Val Asp Ile Thr Arg Phe Lys Lys
20 25 30

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<210> 9595
<211> 71
<212> PRT
<213> Artificial Sequence
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<220>
<223> Computer-generated peptide variant

<400> 9595

Arg Leu Lys Trp Phe Cys Arg Leu Trp Lys Lys Phe Lys Lys Ala Leu
1 5 10 15

Leu Phe Leu His Lys Leu Lys Leu Phe Trp Leu Gly Leu Gly Pro Leu
 20 25 30

His Asn Ala Val Gly Val Leu Arg Val Leu His Lys Lys Asp Arg Asn
 35 40 45

Ala Gly Phe His Arg Arg Ala Ala Met Pro Leu Arg Leu Ser Val Met
 50 55 60

Leu Arg Lys Lys Lys Gln Ile
 65 70

<210> 9596

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9596

Leu Leu Arg Phe Leu Lys Arg Leu Ile Arg Met Tyr Cys Lys Leu Ala
 1 5 10 15

Lys Asp Arg Ala Ala His His Arg Leu Ala Lys His Lys Met Ser Arg
 20 25 30

Asp Leu

<210> 9597

<211> 92

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9597

Arg Leu Lys Ile Trp Arg Lys Leu Phe Lys Ile Trp Lys Arg Arg Arg
 1 5 10 15

Gly Lys Leu His Arg Arg Lys His Leu Val Lys Leu Pro Thr Met Leu
 20 25 30

Ala Lys His Cys Ile Ile Ala Ala Arg Asn Lys Leu Ala Ala Gly Gly

35

40

45

Leu Ser Leu Cys Ser Val Leu Thr Ala Cys Lys Ile Leu Lys Arg His
 50 55 60

Asp Val Ser Ala Ile Arg Glu Ala Asp Leu Lys Glu Pro Arg Lys Ala
 65 70 75 80

Lys Lys Phe Ala Ser Glu Lys Met Leu Arg Arg Lys
 85 90

<210> 9598

<211> 43

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9598

Met Met Lys Tyr Phe Cys Lys Ile Phe Lys Arg Met Lys Lys Leu Glu
 1 5 10 15

Leu Arg Lys Arg Gly Gln Cys Gly Ala Leu Ala Asp Pro Ala Arg Leu
 20 25 30

Glu Lys Leu Lys Ala Asn Ala Lys Ile Leu Ala
 35 40

<210> 9599

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9599

Lys Phe Lys Ile Leu Lys Arg Leu Ile Arg Arg Trp Arg Thr Lys Asp
 1 5 10 15

Gln Gly Arg Met Leu Lys Leu Arg Leu Phe Leu Tyr Ala Leu His Leu
 20 25 30

<210> 9600

<211> 66

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9600

Arg Tyr Arg Tyr Leu Lys Arg Leu Phe Lys Leu Leu Lys Asn Met Ala
1 5 10 15

Lys Leu Tyr Ala Ala Trp Lys Ala Lys Asp Lys Leu Met Lys His Asn
20 25 30

Gly Lys Leu Asn Trp Leu His Met Leu Lys Ile Gln Trp Leu Ala Ala
35 40 45

Ser His Lys Lys Glu Asn Ala Ala Trp Leu Phe Trp Trp Val Lys Arg
50 55 60

Arg Lys
65

<210> 9601

<211> 82

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9601

Met Leu Lys Phe Leu Gln Lys Ile Phe Lys Met Met Pro Thr Met Cys
1 5 10 15

Lys Ala Tyr Asp Ala Leu Glu Leu Trp Ala Asn Lys Arg Phe Pro Lys
20 25 30

Ala Lys Pro Leu Gln Leu Phe Leu Ala Leu Ala Leu Tyr Leu Leu Trp
35 40 45

Arg Gly Arg Leu Arg Leu Arg Leu Arg Pro Leu Arg Lys Glu Arg Arg
50 55 60

Arg Val Ser Arg Val Leu Lys Arg Leu Val Ser Lys Ala Gly Arg Ala
65 70 75 80

Arg Thr

<210> 9602
 <211> 81
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9602

Arg Trp Lys Leu Phe Lys Lys Leu Leu Arg Arg Met Lys Arg Lys Leu
 1 5 10 15

Lys Lys Gln Arg Ala Arg Thr Glu Leu Asn Val Cys Ala Lys Met Ser
 20 25 30

Met Ala Ala Arg Gly Asn Lys Ser Cys Ala Glu Cys Leu Arg Arg Ile
 35 40 45

Cys Lys Leu Met Met Ala Lys Phe Ala Ala Lys Arg Ser Cys Lys Ala
 50 55 60

Gln Asn Lys Leu Glu Thr Trp Ala Met Tyr Trp Arg Lys Phe Ala Leu
 65 70 75 80

Gly

<210> 9603
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9603

Phe Trp Arg Leu Leu Lys Arg Leu Met Arg Arg Leu Lys Arg Gln Asn
 1 5 10 15

Leu Ala Gln Cys
 20

<210> 9604
 <211> 47
 <212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9604

Lys Leu Lys Leu Leu Lys Lys Phe Phe Lys Arg Leu Cys Asn Ala Lys
1 5 10 15

Arg Leu Ala Leu Met Glu Ile Tyr Leu Thr Ala Gly Glu Ser Asp Arg
20 25 30

Leu Trp Phe Leu Lys Phe Leu Lys Trp Cys Ala Asp Gln Arg Tyr
35 40 45

<210> 9605

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9605

Tyr Trp Arg Leu Phe His Arg Trp Phe Lys Arg Phe His Arg Ala Leu
1 5 10 15

Val Arg Gln Arg Ser Leu Asp Ala Leu Lys Ala Ala Leu Leu
20 25 30

<210> 9606

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9606

Leu Leu Lys Phe Met Lys Lys Leu Phe Lys Lys Leu Cys Lys Leu Arg
1 5 10 15

Ala Leu Phe Ala
20

<210> 9607

<211> 31

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9607

Arg Phe Lys Leu Phe Asn Lys Trp Leu Arg Leu Met Lys Arg Ala Leu
1 5 10 15

Gln Leu Leu Ala Met Ile Arg Arg Val Trp Lys Ile Gln Lys Ala
20 25 30

<210> 9608

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9608

Lys Leu Lys Met Met Cys Arg Ile Trp Arg Arg Phe Thr Thr Arg Lys
1 5 10 15

Arg Leu Trp Leu Ala Ala Ala Leu Gly Asp Leu Phe Leu Cys Lys Ile
20 25 30

Ala

<210> 9609

<211> 66

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9609

Leu Phe Lys Phe Phe Arg Arg Trp Leu Arg Arg Met Lys Asn Leu Trp
1 5 10 15

Ala Asn Asp Ala Lys Ala Leu Ala Arg Glu Arg Tyr Glu Pro Leu Ser
20 25 30

Tyr Arg Gln Ile Ala Ile His Ile Arg Ala Ala Pro Thr Lys Ala Leu
35 40 45

Lys Ala Arg Met Arg Ala Asn Glu Ala Ala Arg Tyr Lys Glu Thr Asn
 50 55 60

Lys Ala
 65

<210> 9610
 <211> 73
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9610

Ile Trp Arg Ile Phe Arg Arg Trp Phe Arg Met Leu Arg Lys Met Leu
 1 5 10 15

Leu Lys Ala Pro Asp Lys Lys Arg Lys Leu Ala Lys Trp Asn Arg Ser
 20 25 30

Cys Gly Ala Leu Lys Glu Cys Trp Lys Leu Arg Met Lys Cys Ala Thr
 35 40 45

Cys Arg Trp Lys Thr Lys Ile Lys Leu Ala Ala Arg Ala Gln Leu Val
 50 55 60

Ala Leu Leu Leu Lys Arg Gly Val Ala
 65 70

<210> 9611
 <211> 55
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9611

Leu Ile Lys Ile Ile Arg Arg Tyr Phe Arg Arg Leu Thr Lys Ala Ala
 1 5 10 15

Val Val Lys Arg Leu Lys Cys Leu Ala Lys Arg Leu Arg Leu Met Leu
 20 25 30

His Phe Val Asp Ala Arg Ile Ala Leu Lys Ala Asn His Asp Ala Lys

35

40

45

Leu Trp Leu Asn Thr Val Phe
 50 55

<210> 9612

<211> 55

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9612

Ile Ile Lys Leu Met His Lys Leu Tyr Arg Arg Phe Lys Arg Arg Ala
 1 5 10 15

Ala Lys Met Ser Phe Leu Ala Ala Lys Gln Arg Gly Pro Leu Leu Val
 20 25 30

Leu Asp Ala Arg Gln Ala Arg Gly Lys Met Arg Arg Leu Lys Arg Leu
 35 40 45

Ser Ala Gln Arg Arg Ser Ser
 50 55

<210> 9613

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9613

Lys Leu Lys Leu Leu Asn Arg Phe Leu Lys Lys Tyr Lys Arg Ile Ala
 1 5 10 15

Leu Leu Lys Val Trp Pro Lys Gly Ser Leu Trp Val Arg
 20 25

<210> 9614

<211> 69

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9614

Arg	Met	Lys	Trp	Tyr	Lys	Arg	Leu	Met	Arg	Lys	Tyr	Gln	His	His	Lys
1				5				10						15	

Leu	Gly	Arg	Ala	Ala	Lys	Ala	Asp	Arg	Asn	Leu	Lys	Asp	Leu	Ser	Ser
			20				25						30		

Pro	Leu	Arg	Leu	Arg	Asn	Pro	Asp	Pro	Met	Lys	Leu	Leu	Ala	Leu	Asn
		35				40					45				

Pro	Leu	Leu	Leu	His	Lys	Ala	Thr	Gly	Leu	Met	Ala	Trp	Pro	Ile	Lys
	50					55					60				

Ala	Met	Trp	Lys	Arg
65				

<210> 9615

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9615

Tyr	Ile	Arg	Phe	Trp	Cys	Lys	Leu	Leu	Lys	Arg	Ile	Lys	Ser	Lys	Ala
1				5					10					15	

Ala	Met	Gln	Leu	Leu	Leu	Leu	Met	Leu	Ala	Thr	Arg	Arg
			20				25					

<210> 9616

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9616

Lys	Leu	Lys	Tyr	Tyr	Ser	Lys	Trp	Leu	Lys	Leu	Leu	Lys	Lys	Cys	Leu
1				5				10						15	

Met	Leu	Pro	Leu
			20

<210> 9617
 <211> 53
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9617

Lys Ile Arg Trp Leu Arg Arg Phe Phe Lys Arg Leu Thr Lys Ala Met
 1 5 10 15

Cys Arg Lys Ala Leu Lys Ala Phe Cys His Lys Lys Thr Arg Pro Leu
 20 25 30

Arg Tyr Lys Glu Trp Gly Ala Ala Leu Cys His Ala Gly Pro Lys Leu
 35 40 45

Met Ala Gly Arg Lys
 50

<210> 9618
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9618

Trp Leu Arg Leu Leu Arg Lys Tyr Leu Lys Lys Tyr Gln Arg Leu Thr
 1 5 10 15

Leu Phe Asn Met Lys Leu Val Asp Arg Glu Leu Pro Trp
 20 25

<210> 9619
 <211> 27
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9619

Leu Trp Lys Phe Tyr Lys Lys Trp Phe Arg Tyr Phe Arg Arg Lys Ala
 1 5 10 15

Leu Ser Asn Thr Ala Ala Arg Phe His Ala Ala
 20 25

<210> 9620
 <211> 60
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9620

Lys Leu Arg Leu Tyr Pro Lys Leu Leu Lys Tyr Ile Pro Lys Gly Ala
 1 5 10 15

Val Leu Tyr Phe Lys Asn Leu Lys Gln Ile Trp Ala Ala Arg Arg Ala
 20 25 30

Glu Tyr Lys Leu Gln Thr Gly Lys Val Arg Leu Leu Ala Thr Arg Ser
 35 40 45

Lys Pro Lys Leu Ala Lys Ala Phe Tyr Glu Gln Met
 50 55 60

<210> 9621
 <211> 37
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9621

Lys Leu Arg Met Leu Asn Arg Leu Phe Lys Phe Ile Arg His Pro Trp
 1 5 10 15

Arg Phe Pro Arg Asn Gln Ala Arg Arg Ala Glu Arg Ala Thr Arg Ala
 20 25 30

Ala Leu Ala Leu Thr
 35

<210> 9622
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9622

Arg	Trp	Arg	Leu	Leu	Pro	Lys	Trp	Trp	Arg	Ile	Leu	Thr	Arg	Ala	Arg
1				5					10					15	

Gly	Ile	Arg	Lys	Ala	Ala	Val	Val	Leu	Val	Cys	Met	Lys	Lys	Glu	Asp
			20					25					30		

Ala	Leu	Phe	Ala	Phe	Arg	Leu	Thr
		35				40	

<210> 9623

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9623

Ile	Leu	Lys	Trp	Ile	Arg	Lys	Phe	Tyr	Arg	Met	Phe	Arg	Arg	Gln	His
1				5				10						15	

Ala	His	Ala	Leu	Leu	Ala	Lys	Ala	Thr
			20				25	

<210> 9624

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9624

Leu	Tyr	Arg	Leu	Trp	Pro	Arg	Trp	Tyr	Arg	Leu	Phe	Lys	Arg	Gln	Ala
1				5				10						15	

Asn	Arg	Arg	Asn	Arg	Ala	Thr	Ala	Gly	Leu	Arg	Ser
			20					25			

<210> 9625

<211> 71

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9625

Phe	Leu	Lys	Leu	Tyr	Lys	Arg	Phe	Tyr	Arg	Lys	Phe	Arg	Lys	Arg	Cys
1				5					10					15	

Lys	Ala	Phe	Arg	Ser	Cys	Arg	Gly	Ala	Ala	Thr	Leu	Phe	Gly	Ser	Leu
			20					25					30		

Ala	Arg	Leu	Met	Leu	Val	Ala	Ser	Arg	Ala	Asn	Ala	Arg	Lys	Leu	Leu
		35					40					45			

Lys	Gln	Trp	Tyr	Gly	Arg	Gly	Gly	Asp	Arg	Asp	Ala	Trp	Lys	Leu	Ala
	50					55					60				

Arg	Leu	Gly	Trp	Arg	Lys	Lys
65					70	

<210> 9626

<211> 50

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9626

Tyr	Phe	Lys	Trp	Phe	Lys	Arg	Phe	Ile	Arg	Phe	Leu	Lys	Thr	Leu	Arg
1				5					10					15	

Leu	Ala	Leu	Lys	Arg	Ala	Lys	His	Ala	Thr	Leu	Leu	Trp	Ala	Pro	Phe
			20					25					30		

Cys	Phe	Leu	Lys	Val	Ala	Ala	Pro	Arg	Thr	Asn	Arg	Leu	Ala	Thr	Gly
		35					40					45			

Ala	Lys
	50

<210> 9627

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9627

Arg Phe Arg Trp Leu Gln Lys Phe Leu Lys Phe Leu Gln Lys Glu Ala
1 5 10 15

Met Lys Cys His Lys Leu Trp Arg Val Thr Leu Trp Leu Ile Leu Gly
20 25 30

Lys Leu Ala Arg
35

<210> 9628

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9628

Phe Phe Arg Leu Leu Arg Arg Tyr Leu Lys Lys Trp Arg Thr Leu Asn
1 5 10 15

Arg Ala Ala Ala Pro
20

<210> 9629

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9629

Trp Ile Arg Trp Leu Gln Lys Phe Met Arg Arg Leu Arg Arg His Trp
1 5 10 15

Ala Ala Arg Ala Asp
20

<210> 9630

<211> 74

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9630

Leu Phe Arg Leu Tyr Pro Lys Leu Leu Lys Lys Ile Lys Asn Ala Leu
 1 5 10 15

Ala Tyr Lys Leu Ala Trp Phe Leu Phe Gln Ala Leu Lys Ile Arg Ser
 20 25 30

Pro Cys Ala Lys His Gln Arg Ala Leu Cys Arg His Ala Leu Lys Asp
 35 40 45

Lys Tyr Ala Trp Leu Asp Leu Phe Arg Tyr Ala Ala Ser Ile Gly Leu
 50 55 60

Lys Gly Asn Tyr Pro Phe Lys Arg Lys His
 65 70

<210> 9631

<211> 48

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9631

Lys Leu Lys Trp Tyr Arg Lys Ile Leu Arg Met Leu Lys Lys Leu Ala
 1 5 10 15

Ala Phe Met Leu Arg Lys Phe Gln Lys Gln Pro Ala Ala Arg Ile Glu
 20 25 30

Asp Tyr Lys Lys Leu Thr Ala His Leu Tyr Ser Ala Cys Phe Ala Lys
 35 40 45

<210> 9632

<211> 42

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9632

Leu Ile Arg Leu Trp Lys Arg Leu Tyr Lys Lys Trp Lys Thr His Arg
 1 5 10 15

Arg Lys Leu Glu Val Ala Arg Ala Pro Lys Lys Ala His Ala Ala Val
 20 25 30

Tyr Thr Cys Leu Leu Ala His Gln Met Ala
 35 40

<210> 9633

<211> 51

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9633

Arg Leu Arg Leu Trp Lys Arg Phe Phe Lys Leu Phe Lys Thr Leu Glu
 1 5 10 15

Trp Leu Trp Arg Leu Gly Arg Arg Trp Lys Arg Gly Arg Gly Gln Leu
 20 25 30

Ala Glu Ala Leu Cys Phe Tyr Leu Ala Arg Ala Asn Arg Lys Arg Val
 35 40 45

Gln Leu Arg
 50

<210> 9634

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9634

Arg Met Lys Met Phe Lys Arg Leu Met Arg Arg Trp Lys Cys Leu Glu
 1 5 10 15

Lys Arg Ala Met Lys Ala Leu Val Gln Asp Lys Asp Ala Ala Ala Asn
 20 25 30

Pro Phe

<210> 9635

<211> 44
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9635

Arg Ile Arg Phe Ile Arg Lys Ile Leu Lys Lys Met Asn His Gly Phe
 1 5 10 15

Lys Tyr Arg Arg Arg Gly Lys Leu Lys Ile Ala Leu Trp Lys Leu Asp
 20 25 30

Ala Thr Gly Asp Leu Ala Gly Leu Ala Arg Val Ala
 35 40

<210> 9636
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9636

Leu Leu Lys Phe Leu Lys Arg Trp Tyr Arg Ile Phe Gln Lys Glu Leu
 1 5 10 15

Lys Asp Met Lys Met Lys Leu Asn Leu Arg Phe Leu
 20 25

<210> 9637
 <211> 79
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9637

Lys Ile Lys Trp Trp Lys Arg Leu Leu Lys Phe Leu Ser Lys Lys Arg
 1 5 10 15

Gly Lys Arg Ile Asp Lys His His Ala Ala Asp Trp Gln Met Asn Tyr
 20 25 30

Cys Leu His Ala Asp Leu Arg Ala Arg Ala Ala Val His Arg Asp Ala

35

40

45

Leu Asn Asp Ala Glu Gly Arg Gln Asp Arg Arg Arg Arg Tyr Asn Arg
 50 55 60

Lys Lys Lys Ala Ala Cys Ala Ala Met Leu Leu Arg Tyr Leu Lys
 65 70 75

<210> 9638

<211> 37

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9638

Lys Tyr Lys Leu Trp Lys Arg Tyr Phe Arg Lys Leu Asn Arg Leu Val
 1 5 10 15

Gly Arg Arg Ala Thr Lys Leu Thr Ala Ala Glu Ala Phe Ala Thr Ala
 20 25 30

Ala Ala Arg Ala Asn
 35

<210> 9639

<211> 47

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9639

Arg Leu Lys Leu Phe Arg Arg Leu Tyr Arg Lys Phe Asn Lys Ile Gly
 1 5 10 15

Arg Ala Ser Ala Leu Ala Lys Cys Cys Lys Ser Ala Gly Arg Glu Phe
 20 25 30

Leu Leu Tyr Arg Leu Ile Ala Arg Lys Ala Met Gln Ala Asp Ala
 35 40 45

<210> 9640

<211> 31

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9640

Ile	Phe	Lys	Met	Met	Asn	Lys	Ile	Leu	Arg	Leu	Tyr	Lys	Ser	Val	Val
1				5					10					15	

Arg	Leu	Thr	Cys	Leu	Leu	Ile	Leu	Arg	Arg	Arg	Arg	Leu	Lys	Ala
			20					25					30	

<210> 9641

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9641

Leu	Leu	Lys	Phe	Leu	Arg	Arg	Trp	Phe	Arg	Arg	Phe	Arg	Arg	Ala	His
1				5				10						15	

Ala	Lys	Lys	Leu	Lys	Thr	Val	Ile	Met	Leu	Gln	Asn	Leu	Ala
			20					25					30

<210> 9642

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9642

Tyr	Tyr	Arg	Tyr	Phe	His	Arg	Leu	Leu	Lys	Lys	Trp	Lys	Pro	Leu	Pro
1				5					10					15	

Ala	Met	Arg	Phe	Ala	Arg	His	Arg	Leu
			20					25

<210> 9643

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9643

Met Leu Arg Phe Trp His Arg Leu Leu Arg Arg Trp Lys Gln Pro Arg
1 5 10 15

Lys Leu Ala Leu Cys Val Leu Thr Trp
20 25

<210> 9644

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9644

Lys Tyr Lys Trp Phe Gln Arg Leu Leu Arg Tyr Phe Lys Thr Arg Ala
1 5 10 15

Leu Leu Ala Leu Gln Thr Leu Arg Asn
20 25

<210> 9645

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9645

Tyr Leu Arg Leu Phe Lys Lys Ile Phe Lys Ile Ile Lys Lys Asn Thr
1 5 10 15

Lys Glu Leu Ala Thr Asp Leu Met Ala Ala Lys
20 25

<210> 9646

<211> 58

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9646

Lys Leu Lys Trp Phe Lys Arg Trp Leu Arg Tyr Phe Ser Arg Arg Ile

1 5 10 15

Trp Arg Trp Glu Ala Lys Cys Met Ala Gly Arg Arg Leu Arg Phe Gln
20 25 30

Leu Arg Gly Leu Gly Leu Ser Ala Ile Arg Arg Ala Thr Val Trp Ala
35 40 45

Tyr Lys Lys Glu His Ala Arg Leu Ile Leu
50 55

<210> 9647
 <211> 65
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9647

Lys Tyr Arg Phe Leu Arg Arg Leu Phe Arg Met Phe Lys Arg Leu Met
1 5 10 15

Phe Ala Phe Phe Leu Lys Ile Gly Ala Gly Leu Leu Ala Lys Pro Arg
20 25 30

Arg Trp Tyr Lys Phe Lys Ala Arg Ala Pro Glu Arg Ala Cys Gln Arg
35 40 45

Arg Gly Ala Lys Ala Ala Ala Ala Asn Val Gly Asp His Cys Gln Ala
50 55 60

Asp
65

<210> 9648
 <211> 63
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9648

Phe Met Arg Leu Phe Arg Lys Leu Leu Lys Arg Met Thr Ser Ala Ala
1 5 10 15

His Lys Ala Val Pro Asn Lys Ile Arg Lys Leu Leu Lys Lys Lys Pro
 20 25 30

Thr Ala Leu Arg Trp Leu Ile Ala Arg Phe Phe Phe Ile Lys Leu Ala
 35 40 45

Asp Cys Tyr Arg Leu His Ala Lys Ala Met Arg Met Ala Pro Glu
 50 55 60

<210> 9649
 <211> 71
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9649

Leu Tyr Lys Leu Met Cys Lys Met Phe Lys Lys Leu Lys Lys Leu Glu
 1 5 10 15

Trp Met Arg Ala Arg Pro Ile Arg Trp His Arg Leu Ala Val Ala Lys
 20 25 30

Lys Pro Met Arg Ala Trp Gly Ala Ala Lys Arg Ala Met Asn His Lys
 35 40 45

Asp Leu Leu Met Ser Lys Ile Ala Ile Lys Leu Leu Lys Lys Ala Thr
 50 55 60

Leu Lys Arg Tyr Asn His Thr
 65 70

<210> 9650
 <211> 69
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9650

Phe Phe Lys Phe Ile Asn Lys Leu Leu Lys Lys Phe Lys Lys Ser Lys
 1 5 10 15

Arg Val Ala Gln Leu Leu His Ala Ala Ile Tyr Leu Leu Ile Glu Arg

20 25 30

Leu Arg Tyr Lys His Leu His Arg Leu Asn Phe Arg Arg Arg Lys Lys

35 40 45

Leu Thr Ala Leu Leu Val Asp Leu Ala Thr Gln His Gln Ile Met Arg
50 55 60

Lys Asn Cys Met Lys
65

<210>	9651
<211>	38
<212>	PRT
<213>	Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 9651

Ile Leu Arg Phe Leu Gln Arg Leu Trp Arg Arg Leu Thr Lys Leu His
1 5 10 15

Cys Val Ala Lys Ala Thr His Arg Leu Ile Ala Asp Ala Asn Arg Pro
20 25 30

Gln Leu Lys His His Ala
35

<210>	9652
<211>	57
<212>	PRT
<213>	Artificial Sequence

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<220>  
<223> Computer-generated peptide variant
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<400> 9652

Arg Phe Lys Trp Leu Gln Lys Phe Ile Arg Phe Tyr Arg His Ala Leu
1 5 10 15

Ala Arg Asp Ile Arg Cys Pro Lys Ile Phe Arg Ala Leu Ile Trp Lys
20 25 30

Cys Lys Phe His Arg Leu Ala Glu Ala Ala Leu Lys Gln Lys His Pro
35 40 45

Leu Leu Ala Ala Ala Arg Trp Gly Leu
 50 55

<210> 9653
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9653

Ile Tyr Arg Leu Phe Lys Lys Tyr Phe Arg Arg Leu Asn Lys Ala Pro
 1 5 10 15

Gln Ile Ala Leu
 20

<210> 9654
 <211> 38
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9654

Arg Tyr Arg Met Ile Cys Arg Tyr Leu Arg Arg Met His Gln Lys Leu
 1 5 10 15

Lys Ala Leu Ala Ala Arg Ala Ile Pro Leu Trp Glu Ala Asn Lys Arg
 20 25 30

Phe Ala Gly His Phe Arg
 35

<210> 9655
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9655

Lys Leu Arg Tyr Phe Lys Arg Phe Leu Arg Tyr Leu Lys Gln Phe Leu
 1 5 10 15

Lys Ala Glu Leu Ile His Ala
20

<210> 9656
<211> 52
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 9656

Lys Trp Lys Met Met Arg Lys Phe Phe Arg Tyr Leu Arg Arg Leu Phe
1 5 10 15

Leu Phe Leu Ile Tyr Arg Leu Lys Lys Trp Ser Ala Glu Leu Ala Pro
20 25 30

Lys Met Leu Leu Arg Trp Lys Asp His Lys Trp Ala Tyr Ala Gly Ile
35 40 45

Ser Leu Arg Ala
50

<210> 9657
<211> 29
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 9657

Lys Phe Lys Tyr Met Arg Lys Ile Phe Lys Leu Leu Gln Thr Tyr Leu
1 5 10 15

Lys Met Leu Ala Lys Lys Phe Thr Leu Tyr Val Lys Ala
20 25

<210> 9658
<211> 46
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 9658

Lys Phe Arg Phe Trp Arg Lys Phe Tyr Arg Lys Leu Lys Lys Leu Leu
 1 5 10 15

Ala Ala Met His Lys Arg Ala Trp Lys His Ala Leu Trp Val Ala Ala
 20 25 30

Arg Gly Pro Arg Ala Leu Thr Ala His Val Ile Lys Val Ser
 35 40 45

<210> 9659
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9659

Arg Leu Lys Trp Leu Arg Arg Leu Trp Lys Met Leu Arg Arg Glu Leu
 1 5 10 15

Trp Pro Asn Pro Arg Ala Arg Cys Leu Thr Leu Val Lys Asn Ser Ile
 20 25 30

Lys Met

<210> 9660
 <211> 45
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9660

Lys Phe Lys Trp Leu Lys Arg Leu Phe Lys Leu Met His Arg Asn Arg
 1 5 10 15

Arg Leu Lys Leu Trp Gly Arg Asp Gln Ile Ala Ala Lys Ala Gly Lys
 20 25 30

Thr Pro Ile Met Leu Leu Tyr Leu His Lys Glu Leu Tyr
 35 40 45

<210> 9661

<211> 45
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9661

Lys Phe Arg Phe Leu Thr Arg Leu Met Lys Leu Leu Lys Lys Tyr Ala
 1 5 10 15

Arg Gln Ser Arg Ala Arg Glu Asp Met Ala Lys Lys Ala Ala Thr Ala
 20 25 30

Arg Asn Tyr Leu Cys Ala Leu Tyr Gln Ala Trp Phe Asn
 35 40 45

<210> 9662
 <211> 44
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9662

Arg Phe Lys Met Leu Arg Lys Leu Leu Arg Arg Trp Lys Lys Asn Glu
 1 5 10 15

Trp Tyr Lys Ala Gly Cys Leu His Arg Ala Ala Ala Lys Gly Met Ala
 20 25 30

Arg Trp Leu Leu Ser Lys Ala Tyr Ile Phe Asn Ile
 35 40

<210> 9663
 <211> 46
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9663

Arg Phe Lys Tyr Tyr Pro Arg Phe Leu Arg Leu Leu Lys Lys Leu Tyr
 1 5 10 15

Pro Asn Val His Ala Tyr Lys Ala Lys Arg Ala Asp Leu Arg His Ile

20

25

30

Leu Pro Gln Arg Thr Met Ser Leu Leu Ala Leu His Lys Arg
 35 40 45

<210> 9664
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9664

Arg Phe Lys Ile Phe Lys Lys Leu Tyr Arg Arg Trp His Lys Leu Ala
 1 5 10 15

Thr Tyr Leu Ala His
 20

<210> 9665
 <211> 43
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9665

Tyr Phe Lys Tyr Ile Cys Arg Phe Met Arg Arg Leu Arg Lys Leu Ala
 1 5 10 15

Ile Arg Ala Lys Lys Ala Glu Lys Gly Leu Ala Leu Ile Phe Arg Ala
 20 25 30

Leu Ala Asn Gln Val Gly Val Ala Leu Ser His
 35 40

<210> 9666
 <211> 44
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9666

Tyr Phe Arg Leu Leu Lys Lys Leu Ile Arg Arg Tyr Gln Arg Leu Ala

1 5 10 15

His Trp Ala Lys Leu Thr Leu Asp Asn Ala Asp His Leu Lys Arg Gln
 20 25 30

Arg Leu Arg Lys Leu Phe Ala Gln Arg Cys Glu Arg
35 40

<210>	9667
<211>	20
<212>	PRT
<213>	Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 9667

Phe Tyr Arg Leu Leu Thr Arg Leu Phe Lys Ile Leu Asn Lys Asn Arg
1 5 10 15

Phe Met Lys Leu
20

<210>	9668
<211>	97
<212>	PRT
<213>	Artificial Sequence

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<220>
<223> Computer-generated peptide variant
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<400> 9668

Leu Leu Arg Tyr Tyr Arg Lys Trp Trp Arg Arg Leu Arg Lys Arg Leu
1 5 10 15

Tyr Gly Arg Cys Lys Trp Asp Leu Pro Asn Ala Val Lys Arg Ala Lys
20 25 30

His Ser Arg Leu Ala Pro Thr Ala Lys Trp Leu Arg Ala Phe Thr Arg
35 40 45

Phe Arg Pro Leu Ser Arg Arg Ala Trp Leu Ala Lys His Lys Ala Pro
50 55 60

Leu Met Cys Lys Asn Arg Ala Lys Ala Leu Ile His Gln Arg Val Ala
65 70 75 80

Lys Asn Ala Arg His His Val Thr Ser Ala Ala Lys Leu Asn Gly Gly
 85 90 95

Tyr

<210> 9669

<211> 94

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9669

Arg Met Arg Ile Tyr Arg Arg Leu Phe Arg Lys Leu Asn Thr Cys Arg
 1 5 10 15

Ala Lys Asn Lys Cys Trp Glu Met Lys Met Leu Arg Ala Ala Val Ala
 20 25 30

Asp Leu Ala Arg Leu Gly Ala Phe His Lys Ile Ala Cys Leu Arg Leu
 35 40 45

Lys Leu Val Gly Pro Lys Ser Ala Arg Arg Pro Asp Cys Arg Tyr Trp
 50 55 60

Ala Pro Ile Arg Arg Gly Ser Leu Leu Arg Ala Arg Lys Pro Arg Met
 65 70 75 80

Leu Arg Arg Thr Gln Val Lys Ile Lys Asn Ser Arg Ala Gln
 85 90

<210> 9670

<211> 31

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9670

Arg Phe Arg Phe Met His Arg Phe Leu Arg Arg Leu Lys Gln Trp Ala
 1 5 10 15

Ala Arg Ala Leu Gly Gly Arg Ser Lys Gln Ala Arg His Ala Glu

20

25

30

<210> 9671
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9671

Leu Leu Lys Phe Tyr Lys Arg Met Leu Arg Leu Leu Arg Lys Asn Phe
 1 5 10 15

Ile Arg Lys Leu Lys Phe Gln Ser Cys Arg Ala Val Glu Lys Thr Met
 20 25 30

Ala

<210> 9672
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9672

Arg Phe Arg Leu Leu Ser Arg Leu Met Lys Lys Trp Arg Lys Pro His
 1 5 10 15

Gly Leu Gly Ala
 20

<210> 9673
 <211> 38
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9673

Leu Ile Lys Phe Trp Arg Lys Tyr Leu Lys Arg Trp Arg Thr Ile Arg
 1 5 10 15

Pro Gln Leu Ala Arg Leu Cys Pro Leu Arg Lys Val Arg Pro Met Ala

20

25

30

Thr Leu Cys Arg Ala Pro
35

<210> 9674
<211> 26
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 9674

Arg Trp Arg Ile Leu His Arg Leu Trp Lys Arg Phe Lys Arg Thr Pro
1 5 10 15

Arg Thr Asn Ala Ala Ala Leu Ala Lys Leu
20 25

<210> 9675
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 9675

Leu Leu Arg Leu Leu Pro Arg Phe Ile Arg Lys Phe Asn Arg Phe Leu
1 5 10 15

Met His Lys Val Ala Glu Ile Pro Lys Asn Lys Arg Gln Ala Leu Leu
20 25 30

Phe Leu Ala Ala Asp Ala His Tyr
35 40

<210> 9676
<211> 37
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 9676

Leu Met Lys Phe Ile Lys Arg Ile Leu Lys Met Leu Arg Arg Leu Ala

1 5 10 15

Pro Ala Asn Leu Gly Lys Lys Arg Phe Tyr Asn Glu Lys Leu Ser Ala
 20 25 30

Leu Lys Phe Gln Trp
 35

<210> 9677
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9677

Arg Phe Lys Leu Phe Arg Lys Leu Leu Arg Leu Trp Gln Arg Lys Leu
 1 5 10 15

Pro Arg His Pro Asp Glu Ala
 20

<210> 9678
 <211> 43
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9678

Arg Leu Lys Leu Ile Lys Lys Leu Phe Lys Arg Leu Lys Asn Leu Thr
 1 5 10 15

Tyr Thr Asn Leu Lys Leu Ala Ala Arg Ser Gly Val Leu Pro His Thr
 20 25 30

Ser Arg Phe Cys Leu Gln Leu Lys Lys Lys Arg
 35 40

<210> 9679
 <211> 44
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9679

Lys Leu Arg Phe Phe Gln Arg Leu Leu Arg Lys Met Asn Arg Ala Gly
 1 5 10 15

Ala Cys Asn Lys Cys Lys Gly Lys Glu Arg Tyr Leu Arg Gln Ala Lys
 20 25 30

Met Phe Ala Ala Cys Asn Phe Ala Ile Leu Leu Leu
 35 40

<210> 9680

<211> 43

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9680

Arg Met Lys Met Phe Lys Lys Ile Met Arg Lys Ile Arg Lys Leu Met
 1 5 10 15

Met Gln Gly Leu Ser Glu Arg Ala Ala His Arg Leu Pro Lys Val Leu
 20 25 30

Arg Phe Leu Leu Cys Tyr Leu Val Lys Leu Lys
 35 40

<210> 9681

<211> 47

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9681

Trp Leu Arg Leu Trp Ser Lys Phe Tyr Arg Leu Leu Arg Gln Tyr Gln
 1 5 10 15

Lys Pro Arg Lys Ile Val Leu Leu Lys Lys Lys Arg Leu Lys Phe Val
 20 25 30

Thr Glu Ala Cys Ala Ala Val Arg Leu Glu Leu Leu His Ala Asp
 35 40 45

<210> 9682
 <211> 45
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9682

Phe Tyr Lys Tyr Ile Lys Lys Phe Leu Lys Arg Trp Lys Ser Ser Met
 1 5 10 15

Arg Lys Ala Tyr Ala Ala Ile Arg Arg Glu Ala Trp Lys Ala Ala Arg
 20 25 30

Ala Ser Lys Leu Leu Gln Leu Glu Leu Cys Tyr Gly Asn
 35 40 45

<210> 9683
 <211> 44
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9683

Arg Tyr Arg Trp Leu Asn Lys Leu Tyr Arg Arg Tyr Pro Cys Glu Lys
 1 5 10 15

Leu Lys Lys Phe Ala Leu Ala Lys Arg Arg Ala Ala Arg Ala Cys Leu
 20 25 30

Lys His Thr Lys Leu Ala Gly Ile Arg Pro Leu Ser
 35 40

<210> 9684
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9684

Phe Ile Arg Leu Leu Arg Lys Phe Phe Lys Arg Ile Arg Thr Ala Lys
 1 5 10 15

Leu Asp Asn Arg Ala Ala Thr Asp
20

<210> 9685
<211> 82
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 9685

Ile Met Arg Phe Trp Lys Lys Phe Trp Lys Trp Phe Lys Lys Tyr Ile
1 5 10 15

Ala Thr Leu Cys Lys Ala Thr Ala Leu Arg Lys Gly Ala Leu Lys Pro
20 25 30

Ala Pro Leu Glu Leu Leu Cys Arg Leu Arg Gly Ser Lys Leu Gly Val
35 40 45

Leu Arg Arg Lys Ile Phe Gly Leu Glu Pro Leu Leu Tyr Val Leu Leu
50 55 60

Leu Pro Leu Lys Gln Lys Leu Pro Lys Ala Arg Val Gln Cys Thr Lys
65 70 75 80

Leu Arg

<210> 9686
<211> 60
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 9686

Lys Met Lys Leu Met Lys Lys Tyr Tyr Arg Arg Leu Arg Cys Tyr Leu
1 5 10 15

Glu Ala Ile Met Arg Lys Leu Leu Asn Lys Asn Met Thr Lys Asn Pro
20 25 30

Trp Arg Lys Lys Leu Ala Leu His Ala Glu Ile Asn Leu Ala Leu Arg

35

40

45

Ala Leu Tyr Leu Leu Leu Ile Arg Ala Ala Lys Arg
 50 55 60

<210> 9687

<211> 71

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9687

Arg Leu Lys Leu Tyr Lys Lys Leu Leu Arg Arg Met Arg Lys Val Ala
 1 5 10 15

Arg His Leu Glu Leu Ile Tyr Pro Met Gly His Leu Phe Arg Leu Leu
 20 25 30

Ser Thr Arg Glu Ala Val Pro Lys Ala Asn Lys Cys Leu Leu Lys Gly
 35 40 45

Asn Glu Lys Met Val Ala Gly Thr Ala Ala Cys Lys Phe Lys Cys Cys
 50 55 60

Lys Thr Lys Arg Leu Lys Ala
 65 70

<210> 9688

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9688

Leu Phe Lys Met Leu Arg Arg Phe Leu Arg Arg Leu His Thr Lys Ala
 1 5 10 15

Met Asp Gly Lys Arg Ile Ala Cys Ala
 20 25

<210> 9689

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9689

Arg Leu Lys Leu Leu Gln Lys Leu Leu Lys Phe Met Gln Gln Ile Arg
1 5 10 15

Arg Met Arg Arg Ala
20

<210> 9690

<211> 43

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9690

Tyr Ile Lys Leu Phe Lys Lys Tyr Leu Lys Phe Leu Lys Ser Thr Arg
1 5 10 15

Leu Arg Met Thr Leu Pro Leu Leu Ala Leu Ala Ala Tyr Asp Leu Asp
20 25 30

His Thr Arg Trp Trp Arg Phe His Lys Arg Arg
35 40

<210> 9691

<211> 56

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9691

Arg Leu Arg Leu Met Ser Lys Trp Met Arg Arg Trp Arg Lys Thr Ala
1 5 10 15

Gly Arg Ala Ala Lys Ala Arg Arg Ala Tyr Thr Lys Leu Lys Arg Lys
20 25 30

Ala Ala Ser Ala Ala Met Lys Ala Asp Arg His Leu Asp Lys Pro Met
35 40 45

Lys Leu Arg His Thr Pro His His
 50 55

<210> 9692
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9692

Phe Leu Arg Tyr Phe Arg Lys Met Phe Arg Leu Leu Lys Gln Ala Arg
 1 5 10 15

Asn Leu Arg Ser Met Lys Leu Ala Ser
 20 25

<210> 9693
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9693

Lys Trp Lys Tyr Leu Pro Arg Leu Leu Lys Phe Phe Lys Arg Ala Lys
 1 5 10 15

Ala Leu Leu Ala Ala Pro Phe Asp Arg Asp Ile Lys Arg Met
 20 25 30

<210> 9694
 <211> 47
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9694

Lys Leu Lys Trp Tyr Arg Arg Leu Leu Arg Tyr Leu Asn Arg Lys Lys
 1 5 10 15

Ser Asn Ser Phe Val Met Lys Arg Ala Ala Gly Glu Arg Arg Arg Lys
 20 25 30

Arg Val His Leu Ala Leu His Cys Asn Ser Gly Leu Ala Val Trp
35 40 45

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<210> 9695
<211> 41
<212> PRT
<213> Artificial Sequence
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<220>
<223> Computer-generated peptide variant

<400> 9695

Met Ile Lys Leu Met Asn Arg Leu Leu Arg Arg Met Arg Gln Lys Gln
1 5 10 15

Gly Leu Leu Arg Lys Leu Arg Met Leu Trp Ser Lys Arg Ala His Leu
20 25 30

Val Lys Lys Ala Ala Leu Pro Ser Leu
35 40

<210>	9696
<211>	25
<212>	PRT
<213>	Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 9696

Arg Trp Arg Leu Met Arg Arg Tyr Leu Arg Phe Leu Lys Lys Phe Val
1 5 10 15

Tyr Ala Ala Ser Lys Ala Leu Arg Leu
20 25

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<210> 9697
<211> 37
<212> PRT
<213> Artificial Sequence
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<220>
<223> Computer-generated peptide variant

<400> 9697

Leu Met Arg Met Leu Pro Lys Phe Phe Lys Leu Leu Thr Pro Gln Ala
1 5 10 15

Lys Leu Ala Lys Lys Lys Lys Leu Met Leu Arg Arg Met Lys Ile Lys
 20 25 30

Ala Cys Ser Ile Tyr
 35

<210> 9698
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9698

Lys Leu Lys Trp Leu Asn Lys Met Ile Arg Arg Leu Lys Ser Ser Glu
 1 5 10 15

Thr Leu Leu Gly Leu
 20

<210> 9699
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9699

Phe Met Lys Leu Phe Lys Lys Leu Ile Lys Arg Leu Cys Arg Gly Lys
 1 5 10 15

Glu Asn Arg Ala Val Ala Leu Arg Cys Leu Leu Leu Val Ala Asp Trp
 20 25 30

Leu

<210> 9700
 <211> 73
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9700

Leu Phe Lys Ile Met Lys Arg Tyr Ile Lys Trp Leu Arg Thr Ala Met
 1 5 10 15

Arg Leu Lys Leu Trp Gly Leu Ala Asp Ile Leu Lys Ile Ser Leu Gly
 20 25 30

Met Met Leu Ala Ala Lys Tyr Ala Lys His Arg Asn Met His Phe Ala
 35 40 45

Ala His Lys Val Arg Tyr Ala Gly Arg Lys Ala Gly Arg Arg Gln Ala
 50 55 60

Asn Ala Arg Glu Arg Arg Ala Ala His
 65 70

<210> 9701
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9701

Phe Leu Lys Met Leu Arg Lys Phe Met Lys Arg Met Cys Ser Leu Leu
 1 5 10 15

Lys Met Phe Val Leu Ala Arg Lys Leu Pro Lys Ala Leu Arg
 20 25 30

<210> 9702
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9702

Lys Leu Arg Leu Leu Cys Lys Ile Leu Arg Arg Leu Lys Arg Ala Lys
 1 5 10 15

Leu Val Gly Val Lys Ala Gly Leu Glu Val Lys Lys Lys Val Ile Gly
 20 25 30

Leu Leu Ala Ala Trp Lys Val Pro

35

40

<210> 9703

<211> 51

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9703

Leu Leu Arg Trp Leu Lys Arg Tyr Leu Lys Tyr Trp Asn Lys Lys Arg
 1 5 10 15

Arg Leu Pro Lys Ala Ala Leu Pro Ala Lys Trp Met Thr Arg Tyr Ala
 20 25 30

Ala Met Arg Ala Lys Leu Ala Pro Met Met Leu Leu Arg Leu Thr Cys
 35 40 45

Ile Thr Ser
 50

<210> 9704

<211> 59

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9704

Arg Tyr Arg Phe Leu Cys Arg Leu Ile Arg Leu Phe Thr Cys Ala Asn
 1 5 10 15

Lys Ala Tyr Ala Cys Lys Asp Ala Ser Arg Arg Leu Ala Cys Arg Leu
 20 25 30

Lys Gln Lys Cys Asp Ala Thr Ala Lys Ala Ala Tyr Asp Trp Ala His
 35 40 45

Asn Arg Arg Ala Ala Leu Lys Tyr Leu Leu His
 50 55

<210> 9705

<211> 53

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9705

Lys Leu Arg Leu Phe Pro Arg Leu Tyr Arg Lys Ile Cys Gln Lys Val
1 5 10 15

Trp Leu Leu Arg Phe Pro Ala Arg Cys His Tyr Lys Arg Leu Met Leu
20 25 30

Asn Ser Phe Met Met Ser Arg Arg Trp Arg Trp Leu Gly Lys Leu Ala
35 40 45

Leu Lys Lys Leu Leu
50

<210> 9706

<211> 92

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9706

Phe Phe Lys Leu Leu Lys Lys Trp Leu Arg Leu Phe Arg Lys Lys Gly
1 5 10 15

Ile His Arg Asp Phe Ala Arg Cys Ala Lys Tyr Lys Lys Glu Lys Ser
20 25 30

Arg Met Glu Ala Arg Ser Ala Leu Arg Ala Asp Met Arg Ala Val Val
35 40 45

Asp Asn Cys His Lys Lys Asn Lys Cys Lys Arg Leu Arg Gly Gly Ile
50 55 60

Leu Arg Lys Arg Phe His Ser Ala Asn Ala Lys Leu Leu Trp Leu Leu
65 70 75 80

Lys Ala Arg Arg Cys Trp Cys Ala Asp Trp Arg Ala
85 90

<210> 9707

<211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9707

Phe Ile Lys Met Leu Thr Arg Phe Phe Arg Arg Leu His Lys Arg Leu
 1 5 10 15

Arg Cys Ala Ala Leu Arg Leu Trp Lys His Lys Cys Tyr Leu Lys Ile
 20 25 30

Ala Ala

<210> 9708
 <211> 46
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9708

Tyr Phe Arg Phe Phe Arg Lys Met Phe Lys Phe Leu Gln Pro Gly Asp
 1 5 10 15

Ile Arg Phe Leu Leu Arg Asp Cys Ala Ala Ala Asp Ile Leu Gln Arg
 20 25 30

Leu Asp Arg Lys Leu Arg Lys Lys Trp Leu Leu Lys Ala Leu
 35 40 45

<210> 9709
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9709

Arg Leu Lys Trp Ile Cys Arg Leu Leu Arg Leu Trp Lys Lys Ile Ile
 1 5 10 15

Leu Lys Tyr Gly Leu Lys Glu Leu Ser Asp Cys Lys Arg Leu Ala Met

20

25

30

Tyr Trp

<210> 9710

<211> 73

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9710

Leu Phe Lys Leu Met Arg Arg Met Leu Arg Arg Leu Lys Arg Ala Ile
 1 5 10 15

Lys Arg Ala Arg Leu Lys Lys Trp Asn Ile Arg Arg Leu Lys Arg Asn
 20 25 30

Leu Ser Lys Asp Lys Gln Pro Leu Lys Met Leu Ala Asp Ile Lys Trp
 35 40 45

Arg Asp Phe Met Gly Phe Trp Leu Leu Ala Lys Leu Thr Lys Arg Leu
 50 55 60

Leu Ala Ser Leu Gly Asn Thr Pro Arg
 65 70

<210> 9711

<211> 47

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9711

Arg Phe Arg Leu Leu Arg Arg Leu Met Lys Lys Leu Arg Arg Glu Tyr
 1 5 10 15

Phe Phe Arg Ala Phe Cys Lys Ile Leu Leu Val Lys Asp Leu Lys Lys
 20 25 30

Gly Thr Thr Lys Leu Met Ala Gln Met Ala Ala Asn Ala Ser Arg
 35 40 45

<210> 9712
 <211> 66
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9712

Lys Phe Lys Leu Phe Lys Arg Leu Met Arg Lys Leu Asn His Lys Leu
 1 5 10 15

Leu Leu Phe Thr Lys Leu Ala Leu Ile Lys Leu Lys Glu Val Lys Asp
 20 25 30

Phe His Lys Arg Ile Arg Phe Leu Arg Asp Thr Met Arg Lys Arg Ala
 35 40 45

Lys His Asn Glu Leu Phe His Ala Tyr Gly Gln Ala Val Ala Leu Lys
 50 55 60

Ala Ser
 65

<210> 9713
 <211> 51
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9713

Arg Leu Lys Phe Leu Asn Arg Leu Phe Lys Tyr Leu Lys Arg Trp Asp
 1 5 10 15

Arg Val Arg Arg Leu Arg Asp Ile Gly Lys Ala Arg Lys Val Met Ala
 20 25 30

Met Leu Ala Ala Cys Leu Leu Arg Lys Leu Glu Arg Gln Asp Leu Asn
 35 40 45

Lys Ala Thr
 50

<210> 9714

<211> 50
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9714

Lys Trp Lys Tyr Phe Asn Arg Leu Met Lys Phe Trp Lys Thr Ala Pro
 1 5 10 15

Leu Phe Arg Asp Val Gly Arg Arg Ala Leu Ala Arg Ala Lys Met Asp
 20 25 30

Asp Ser Ala Pro Leu Ala Arg Ser Leu Ala Arg Lys Lys Leu Glu Ile
 35 40 45

Ile Lys
 50

<210> 9715
 <211> 64
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9715

Lys Leu Arg Tyr Phe Arg Lys Phe Leu Lys Ile Met Arg His Asn Lys
 1 5 10 15

Leu Phe Trp Ala Ile Leu Thr Leu His Arg Lys Ala Arg Trp Leu Leu
 20 25 30

Asn Gln Val Leu Leu Tyr Lys Leu Asp Lys Lys His Ala Gln Lys Thr
 35 40 45

Leu Met Lys Arg Ala Cys Leu Leu Ala Lys Leu His His Arg Ala Leu
 50 55 60

<210> 9716
 <211> 42
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9716

Met Met Lys Leu Tyr Lys Lys Leu Phe Arg Leu Leu Lys Lys Leu Glu
1 5 10 15

Gln Trp Lys Leu Asp Pro Ala Lys Glu Asp Leu Arg Leu Leu Met Asn
20 25 30

Leu Val Leu Arg Tyr Ile Gln Leu Pro Ala
35 40

<210> 9717

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9717

Arg Phe Arg Leu Leu Lys Arg Phe Ile Lys Arg Leu Arg Asn Val Met
1 5 10 15

Pro Leu Val Thr Ser Arg Leu Asp Ala Leu Phe Asp Leu Cys Gln Leu
20 25 30

Leu Lys

<210> 9718

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9718

Leu Leu Arg Ile Tyr Arg Lys Leu Met Lys Trp Trp Arg Arg Glu Cys
1 5 10 15

Phe Leu Arg Lys Leu Leu Lys Leu Leu Leu Cys His Tyr Thr Lys Ile
20 25 30

<210> 9719

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9719

Lys Phe Arg Leu Leu Thr Arg Leu Trp Arg Leu Phe Thr Ser Lys Gln
1 5 10 15

Arg Arg Tyr Leu
20

<210> 9720

<211> 41

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9720

Arg Met Arg Trp Leu Ser Lys Phe Leu Lys Lys Tyr Cys Lys Ala Trp
1 5 10 15

Ile Ala Arg Cys Gly Ala Arg Leu Ala Leu Trp Lys Leu Ala Leu Lys
20 25 30

Pro Ser Pro Asp Ala Arg Asn Leu Asn
35 40

<210> 9721

<211> 76

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9721

Lys Tyr Lys Met Leu Lys Lys Leu Tyr Arg Leu Leu Cys Ser His Asn
1 5 10 15

Asp Lys Tyr Glu Lys Gly Ile Pro Lys Pro Cys Leu Gln Leu Asp Leu
20 25 30

Leu Arg Gln Lys Arg Asp Tyr Ala Lys Lys His Leu Gln Ala Arg Thr
35 40 45

Lys Pro Leu Ala Val Ala Ala Asn Ala Ser Pro Leu His Arg Ala Lys
 50 55 60

Ala Arg Arg Tyr Leu Phe Leu Ala Arg Ala Leu Met
 65 70 75

<210> 9722
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9722

Lys Trp Lys Ile Leu Lys Arg Leu Tyr Arg Trp Leu Lys Lys Ala Lys
 1 5 10 15

Ser Tyr Ala Ala Lys Phe Gly Val Leu Ser Gln Ser Val
 20 25

<210> 9723
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9723

Lys Phe Lys Tyr Tyr His Arg Leu Leu Arg Leu Ile Cys Lys Arg Lys
 1 5 10 15

Gln Met Lys Ala Leu Ala Thr Leu Lys Lys Ile Ser Leu Gly Lys Glu
 20 25 30

<210> 9724
 <211> 26
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9724

Lys Trp Lys Ile Ile Arg Lys Met Ile Arg Leu Leu Ser Arg Asp Pro
 1 5 10 15

Ala Leu Leu Cys Arg Cys Ala Arg Ala Ala
 20 25

<210> 9725
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9725

Arg Phe Arg Leu Tyr Arg Arg Trp Ile Lys Arg Leu Gln Arg Asp Ala
 1 5 10 15

His Leu Lys Tyr Asn Met Leu Tyr Leu
 20 25

<210> 9726
 <211> 52
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9726

Ile Met Arg Leu Phe Lys Arg Phe Phe Arg Phe Trp Arg Arg Pro Pro
 1 5 10 15

Lys Leu Arg Lys Gln Met Tyr Leu Ile Lys Asp Ala Gly Cys Asp Lys
 20 25 30

Ala Ala Thr Leu Leu Ala Tyr Leu His Leu Arg Arg Lys Gly Ala Phe
 35 40 45

Phe Arg Leu Ala
 50

<210> 9727
 <211> 47
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9727

Leu Phe Arg Met Tyr Arg Lys Leu Ile Arg Arg Tyr Pro Lys Glu Lys
 1 5 10 15

Asn Leu Leu Arg Lys Arg Tyr Gly Cys Ser Lys Ala Ala Arg Asp Pro
 20 25 30

Ser Tyr Ala Ala Leu Leu Leu Ala Arg Leu Phe Thr Tyr Arg Cys
 35 40 45

<210> 9728

<211> 72

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9728

Leu Phe Lys Leu Trp Arg Lys Ile Leu Arg Tyr Leu Lys Arg Asp Ala
 1 5 10 15

Leu His Arg Cys Arg Arg Arg Cys Tyr His Leu Thr Leu Lys Arg Arg
 20 25 30

Ala Arg Pro Trp Lys Leu Cys Lys His Val Leu Met Val Trp Leu Asn
 35 40 45

Trp Leu Leu Arg Gln Leu Lys Leu Gly Asn Leu Ala Arg Lys His His
 50 55 60

Ala Arg Leu Thr Glu Val Gln Lys
 65 70

<210> 9729

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9729

Met Phe Arg Phe Phe Lys Lys Leu Leu Lys Lys Trp Gln Lys Leu Pro
 1 5 10 15

Val Arg Arg Arg Arg Leu Asp Ala Phe Leu Gly Ala Pro Gly Leu Glu

20

25

30

Trp Ala

<210> 9730

<211> 41

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9730

Phe	Phe	Arg	Leu	Ile	Pro	Arg	Leu	Ile	Arg	Phe	Trp	Arg	Asn	Lys	Leu
1				5					10					15	

Phe	Arg	Ala	Cys	Leu	Arg	Leu	Asn	Arg	Lys	Asn	Arg	Gly	Ala	Ile	Arg
			20					25					30		

Thr	Ala	Met	Gly	Lys	Ala	Gln	Leu	Arg
		35					40	

<210> 9731

<211> 38

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9731

Lys	Leu	Lys	Tyr	Phe	Gln	Lys	Tyr	Leu	Arg	Leu	Ile	Arg	Cys	Ala	Ser
1				5					10					15	

Ala	Arg	Gly	Trp	Lys	Gln	Glu	Ile	Ala	Lys	Ser	Leu	Arg	Arg	His	Cys
			20					25					30		

Lys	Ala	His	Arg	Leu	Phe
		35			

<210> 9732

<211> 49

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9732

Arg	Leu	Arg	Met	Leu	His	Lys	Phe	Leu	Arg	Met	Phe	Asn	Lys	Arg	Lys
1				5					10					15	

Pro	Lys	Leu	Lys	Asp	Val	Val	Lys	Cys	Arg	Lys	Trp	Ala	His	Ala	Ala
			20					25					30		

Cys	Cys	Ala	Met	Asp	Phe	Ala	Lys	Asn	Lys	Lys	Leu	Gln	Ala	Gly	Leu
		35					40					45			

Arg

<210> 9733

<211> 59

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9733

Lys	Phe	Lys	Leu	Leu	Arg	Lys	Ile	Ile	Arg	Lys	Trp	Arg	Thr	Leu	Ala
1				5					10					15	

Arg	Lys	Arg	Asn	Leu	Trp	Lys	Lys	Ala	Lys	Leu	Cys	Lys	Lys	Tyr	Met
			20					25					30		

Gln	Lys	His	Ile	Leu	Arg	Met	Cys	Thr	Ala	His	Ala	Tyr	Ala	Leu	Gln
		35					40					45			

Ala	Arg	His	Met	Met	Lys	Ser	Ala	Ile	Trp	Leu
	50					55				

<210> 9734

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9734

Arg	Phe	Lys	Ile	Leu	Arg	Arg	Ile	Phe	Arg	Leu	Trp	Pro	Lys	Val	Leu
1				5					10					15	

Ala Leu Gln Arg Ala Arg Arg Met Gly Phe Ala
 20 25

<210> 9735
 <211> 59
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9735

Arg Phe Lys Leu Ile Gln Lys Ile Phe Arg Lys Ile Arg His Leu Pro
 1 5 10 15

Lys Ala Lys Phe Lys Glu Lys His His Leu Leu Lys Leu Lys Val Lys
 20 25 30

Pro Ser Ile Arg Ala Val Trp Pro Met Leu Ala Ser Trp Ser Leu Asp
 35 40 45

Arg Lys Ala Ala Lys Ala Arg Leu Ala Lys Ser
 50 55

<210> 9736
 <211> 54
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9736

Arg Leu Lys Ile Met Lys Arg Phe Phe Arg Lys Trp Arg Arg Leu Gly
 1 5 10 15

Arg Leu Leu Arg Gln Glu Leu Leu Arg Ile Asn Lys Ala Leu Lys Phe
 20 25 30

Ala Lys Trp Trp Cys Tyr Lys Ala Gly Cys Trp Leu Tyr Ser Leu Ala
 35 40 45

Lys Ala Arg Pro Leu Ser
 50

<210> 9737

<211> 90
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9737

Leu Trp Lys Leu Trp Arg Arg Phe Leu Lys Lys Met Lys Cys Asp Leu
 1 5 10 15

Arg Arg Ala Val Leu Val Lys His Cys Asn Lys Glu Arg Lys Ala Lys
 20 25 30

Arg Lys Lys Tyr Gln Leu Gln Phe Arg Leu Phe Lys Gln Arg Phe His
 35 40 45

Ser Ala His Leu Arg Ala Lys Glu Phe Thr Leu Val Ala Leu Ala Asn
 50 55 60

Ser Ala Thr Arg Arg Lys Gly Val Lys Ala Ala Val Leu Asn Asn Arg
 65 70 75 80

Ala His Asp Ala Arg Asn Asn His Lys Met
 85 90

<210> 9738
 <211> 79
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9738

Leu Leu Arg Leu Tyr Pro Arg Leu Ile Arg Phe Trp Arg Lys Leu His
 1 5 10 15

Leu Pro Asp Cys Ala Lys Arg Ala Tyr Arg Val Asn Ala Ala Asn His
 20 25 30

Leu Lys Ala Tyr Leu Tyr Leu Thr Tyr Lys Thr Arg Ala Leu Ala Met
 35 40 45

Lys Arg Asp Lys Asn Ala Ala Ala Lys Cys Ser Lys Lys Leu Trp Ala
 50 55 60

Leu Met Lys Leu Thr Leu Asp Thr His Asn Thr Ser Arg Cys Ala
 65 70 75

<210> 9739
 <211> 76
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9739

Phe Trp Lys Ile Ile Arg Arg Tyr Leu Arg Lys Leu Lys Asn Ser Leu
 1 5 10 15

Gln Val Leu Gly Leu Arg Ala Lys Ser Leu Ser Ala Phe Ser Cys Arg
 20 25 30

Arg Met Lys Thr Ala Phe Lys Thr Lys Lys Leu Glu Leu Tyr Asp Ala
 35 40 45

Gln Leu Ala Arg Ala Ile Asn Gly Asp Leu Leu Ala Arg His Arg Val
 50 55 60

Val Gly Pro Leu Leu Arg Arg Met Leu Ala Phe Leu
 65 70 75

<210> 9740
 <211> 45
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9740

Arg Met Arg Tyr Leu Arg Arg Leu Leu Arg Leu Phe Lys Thr Leu Gly
 1 5 10 15

Leu Lys Ala Glu Asp Leu Val Arg Arg Asp Gln Ser Arg Arg Val Lys
 20 25 30

Lys Ala Phe Ala Ala Lys Gly Ala Ala Lys Lys Ile Leu
 35 40 45

<210> 9741

<211> 80
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9741

Phe Ile Arg Tyr Leu Lys Arg Tyr Leu Lys Lys Tyr Lys Arg Arg Leu
 1 5 10 15

Pro Leu Tyr Lys Ala Arg Arg Tyr Lys Asn Arg Leu Arg Cys Trp Arg
 20 25 30

Lys Ala Cys Phe Gln Pro Ile Lys Lys Ala Ala Leu Trp Tyr Gly Ala
 35 40 45

Lys Ala Ala His Ser Thr Ile Pro Ala Arg Glu Val Lys Ala Gln His
 50 55 60

Lys Gln Phe Lys Arg Met Ala Leu Met Arg Arg Asp Met Ala Leu Cys
 65 70 75 80

<210> 9742
 <211> 44
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9742

Arg Met Lys Leu Leu Gln Arg Phe Trp Arg Leu Phe Ser Arg Arg Asn
 1 5 10 15

Lys Lys Asn Ala Leu Leu Ile Arg Arg Met Leu Leu Gln Ala Tyr His
 20 25 30

Arg Leu Trp Leu Lys Arg Lys Gln Ala Leu Val Met
 35 40

<210> 9743
 <211> 31
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9743

Lys Met Lys Met Leu Lys Arg Tyr Trp Arg Arg Leu Arg His Gln Lys
1 5 10 15

Gln Ala Gly Ala Ala Pro Ala Cys Arg Ala Arg Tyr Glu Pro Ala
20 25 30

<210> 9744

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9744

Met Leu Lys Ile Trp Arg Arg Leu Leu Lys Phe Trp Thr Lys Leu Leu
1 5 10 15

His Trp Arg Met Arg Phe Ala Leu Arg Gly Lys Asn Thr Ala
20 25 30

<210> 9745

<211> 45

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9745

Arg Leu Arg Trp Ile Arg Arg Leu Leu Arg Trp Leu Arg Arg Ser Lys
1 5 10 15

Lys Asn Ala Val Cys Lys Leu Val Met Lys Arg Leu Val Phe Thr His
20 25 30

Ala Trp Asn Thr Leu His Val Cys Leu Ala Phe Leu Ala
35 40 45

<210> 9746

<211> 44

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9746

Phe	Phe	Lys	Leu	Tyr	Arg	Arg	Ile	Phe	Lys	Arg	Ile	Arg	Lys	Lys	Val
1				5					10					15	

Ala	Arg	Met	Val	Ile	Arg	Leu	Pro	Arg	Gln	Ala	Leu	Thr	Thr	Leu	Ala
			20					25					30		

Leu	Leu	Ser	Ala	Ala	Asn	Gly	Lys	Arg	Lys	Val	Pro
		35					40				

<210> 9747

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9747

Phe	Tyr	Arg	Leu	Met	Arg	Arg	Met	Leu	Lys	Arg	Tyr	Arg	Lys	Leu	Leu
1				5					10					15	

Pro	Arg	Phe	Pro	His	Ala	Leu	Val	Gly
			20					25

<210> 9748

<211> 42

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9748

Arg	Met	Lys	Leu	Leu	Asn	Lys	Leu	Met	Arg	Lys	Leu	Lys	Lys	Arg	Ala
1				5					10					15	

Asp	Leu	Leu	Gln	Leu	Met	Lys	Phe	Ala	Lys	Pro	Leu	Ala	Gly	Ser	Lys
			20					25					30		

Trp	Thr	Ala	Lys	Leu	Lys	Phe	Ala	Cys	Tyr
		35					40		

<210> 9749

<211> 79

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9749

Tyr Ile Lys Leu Leu His Lys Ile Leu Lys Leu Leu Arg Lys Asn Leu
1 5 10 15

His Arg Met Val Lys Ala Ala His Met Arg Gln Tyr Lys Cys Lys Asn
20 25 30

Thr Pro Leu Lys Leu Tyr Leu Arg Asn Cys Ala Ser Pro Lys Trp Leu
35 40 45

Ser Arg Arg Ala Ile Phe Gln Leu Lys Lys Gly Met Ala Lys Pro Arg
50 55 60

Arg Lys Ala Leu Lys Glu Arg Tyr Lys Trp Met Gly Ala Lys Val
65 70 75

<210> 9750

<211> 44

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9750

Arg Met Arg Met Ile Ser Arg Leu Phe Lys Lys Leu Arg Pro Ala Lys
1 5 10 15

Lys Arg Lys Lys Arg Ala Thr Asp Ala Pro Leu Pro Leu Pro Ala Met
20 25 30

Arg Ile Glu Lys Ile Ala Cys Ala Leu Ala Gln Phe
35 40

<210> 9751

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9751

Lys Ile Lys Leu Ile Lys Lys Phe Trp Lys Phe Leu Arg Lys Leu Gly
 1 5 10 15

Glu Pro Ala Ala Trp Arg Leu Trp Lys Ala Lys Cys Leu Phe Arg Trp
 20 25 30

Ser Ala Ala
 35

<210> 9752
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9752

Arg Leu Arg Ile Tyr Cys Arg Leu Leu Lys Lys Leu Arg Lys Asn Ala
 1 5 10 15

Cys Ile Ile Gln Leu Ala Leu Asn Ala Gly Ile Ala Cys Asn Lys Lys
 20 25 30

Tyr Lys Leu Leu Phe Cys Leu Ala
 35 40

<210> 9753
 <211> 43
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9753

Tyr Ile Lys Leu Leu Arg Lys Phe Met Arg Phe Leu Lys Arg Lys Leu
 1 5 10 15

Ala Pro Ala Lys Pro Asn Tyr Ala Leu Thr Ser Ala Tyr Ser Ala Val
 20 25 30

Tyr Pro Ser Leu Gln Leu Gln Ala Lys Lys Lys
 35 40

<210> 9754

<211> 84
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9754

Lys Ile Lys Tyr Tyr Lys Lys Phe Leu Arg Leu Ile Lys Lys Lys Lys
 1 5 10 15

Lys Lys Arg Met Arg Arg Ile Met Cys His Glu Asn Ala Ala Ser Leu
 20 25 30

Trp Leu Thr Lys Leu Lys Ile Met Lys Glu Ala Asn Leu Arg Leu Leu
 35 40 45

Ser Leu Lys Glu Leu Ser Lys Phe Phe His Asn Ala Phe Pro Phe Arg
 50 55 60

Lys Arg Leu Val Phe Leu Arg Ser Ala Lys Asp Lys Leu Asp Ile Ala
 65 70 75 80

Arg Ala Leu Met

<210> 9755
 <211> 84
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9755

Arg Trp Lys Met Leu Cys Lys Leu Tyr Arg Phe Leu Arg Cys Lys Ala
 1 5 10 15

Asp Phe Cys Arg His Arg Met Gly Lys Arg Phe Pro Leu Gly Lys Asn
 20 25 30

Met Thr Gly Lys Arg Asp Met Arg Gly Leu Ile Ala Pro Leu Ala Lys
 35 40 45

Gln Lys Arg Lys Leu Leu Lys Lys Ala Glu Arg Thr Arg Tyr Leu Leu
 50 55 60

Leu Ile Pro Arg Lys Pro Gln Arg Thr Leu Ala Asp Met Ile Ala Leu
 65 70 75 80

Lys Lys Asn Ala

<210> 9756
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9756

Lys Met Arg Phe Leu Arg Arg Phe Leu Lys Lys Leu Arg Gln Leu Val
 1 5 10 15

Cys Lys Leu Ala Arg Ala Ser Gly Lys Gln Leu Ala Gln Cys Arg Val
 20 25 30

Ala Leu

<210> 9757
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9757

Arg Met Arg Ile Leu Arg Lys Leu Leu Arg Arg Trp Lys Ser Phe Pro
 1 5 10 15

Ala Asn Leu Phe
 20

<210> 9758
 <211> 63
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9758

Lys Phe Arg Phe Leu Lys Lys Ile Leu Arg Lys Trp Lys Thr Trp Lys
 1 5 10 15

Arg Ile Met Leu Ala Asp Lys Lys Arg Gly Lys Lys Ser Val Tyr Trp
 20 25 30

Leu Lys Cys Leu Pro Thr Met Met Arg Ala Leu Met His Thr Lys Leu
 35 40 45

Tyr Trp Asn Phe Leu Leu Cys Ala Leu Phe Ala Leu Ala Lys Ala
 50 55 60

<210> 9759
 <211> 50
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9759

Trp Leu Lys Met Phe Lys Lys Ile Met Lys Arg Phe Lys Arg Arg Asp
 1 5 10 15

Ala Asn Lys Tyr Lys Ile Leu Leu Arg Ser Ala Arg Cys Ile Glu Lys
 20 25 30

Trp Leu Leu Ala Ala Lys Thr Lys Lys Leu Leu Ser Ile Ala Phe Pro
 35 40 45

Met Thr
 50

<210> 9760
 <211> 59
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9760

Lys Leu Arg Leu Leu Lys Lys Phe Phe Lys Phe Met Ser Arg Lys Ala
 1 5 10 15

Met Lys Lys His Gly Leu Cys Val Gly Ala Glu Trp Val Glu His Leu

20 25 30

Tyr Ile Ile Trp Arg Ala Ala Ser Ala Lys Leu Ala Val Ala Arg Val

35 40 45

Arg Val Arg Ala Met Lys Arg Asn Arg Leu Ala
50 55

<210>	9761
<211>	92
<212>	PRT
<213>	Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 9761

Lys Phe Lys Trp Trp Lys Lys Leu Leu Arg Arg Trp Arg His Leu Arg
1 5 10 15

Lys Glu Thr Ala Pro Ala Gln Arg Ala Lys Lys His Gly Cys Leu Cys
20 25 30

Ser Lys Cys Leu Lys Pro Ile Phe Lys Leu Arg Thr Lys Lys His Gly
35 40 45

Ala Asn Ala Leu Ala Met Arg Ala Phe Asn Leu Leu Lys Lys Gln His
50 55 60

His Asp Ala Thr Asn Lys Gln His Ala His Ala Phe Arg Leu Arg Ala
65 70 75 80

Leu Asn Arg Ala Trp Asp Ala Lys Tyr Ala Asn Leu
85 90

<210>	9762
<211>	57
<212>	PRT
<213>	Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 9762

Arg Leu Arg Ile Leu Lys Lys Leu Phe Lys Arg Leu Asn Pro Trp Lys
1 5 10 15

Leu Met Lys Asn Leu Leu Gln Leu Arg Lys Arg Glu Ile Gln Pro Gln
 20 25 30

Lys Trp Leu Ala Leu Ile Lys Lys Lys Ala Pro Asn Ala Gln Asn Cys
 35 40 45

Leu Leu Gly Lys Val Ile Ala Val Thr
 50 55

<210> 9763

<211> 54

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9763

Arg Leu Arg Leu Ile Lys Lys Phe Tyr Lys Arg Phe Lys Lys Lys Ala
 1 5 10 15

Lys Gly Met Thr Ala Lys Ser Arg Ala Glu Lys Cys Thr Asp Leu Phe
 20 25 30

Lys Ala Leu Ala Leu Lys Asn Ala Phe Lys His Cys His Glu Tyr Ala
 35 40 45

Cys Ala Thr Asp Ala Pro
 50

<210> 9764

<211> 79

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9764

Arg Tyr Lys Leu Tyr Cys Arg Leu Phe Arg Lys Leu Lys Arg Arg Ser
 1 5 10 15

Leu Leu Ala Lys Ser Lys Ala Pro Asn Lys Pro Trp Ser His Lys Ile
 20 25 30

Ala Ala Lys Val Phe Met Arg His Leu Met Trp Ser His Arg Pro Lys

35

40

45

Ile Leu Asp Ala Trp Thr Ala Gly Ala Glu Leu Gly Ala His Arg Ala
 50 55 60

Ala Met Asn Ala Ile Arg Arg Ala Leu Glu Ala Asp Leu Ala Arg
 65 70 75

<210> 9765

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9765

Leu Ile Arg Tyr Leu Arg Lys Leu Tyr Lys Lys Ile Lys Lys Pro Ala
 1 5 10 15

Glu Ala Ala Trp Gly Lys Tyr
 20

<210> 9766

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9766

Arg Leu Arg Met Met His Lys Leu Phe Lys Arg Leu Arg Arg Leu Pro
 1 5 10 15

Ala Phe Ala Leu Tyr
 20

<210> 9767

<211> 56

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9767

Phe Met Lys Leu Met Asn Lys Phe Leu Lys Lys Phe Thr Lys Leu Arg

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1           5           10           15
Lys Arg Ala Lys Cys Lys Arg Lys Arg Arg Tyr Arg Asp Ala Cys Ser
      20      25      30
Lys Val Val His Ala Thr Ala Lys Leu His Ser Leu Trp Ala Phe Lys
      35      40      45
Cys Trp Asp Leu Leu Ala Met Gly
      50      55

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<210> 9768
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 9768
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Lys Leu Arg Phe Ile Lys Lys Leu Leu Lys Tyr Phe Ser Arg Lys Ala
1 5 10 15

Leu His Arg Ser Asn Cys His Leu Lys Ala Ala Thr Leu Ala
20 25 30

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<210> 9769
<211> 45
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 9769
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Arg Trp Arg Leu Trp Lys Arg Met Leu Arg Leu Trp Arg Lys Ala Ala
1 5 10 15

Lys Ser Gly Lys Phe Tyr Ser His Lys Ala Ala Ala Arg Thr Thr Lys
20 25 30

Tyr His Ser Leu Gly Asp Leu Arg Lys Asp Leu Leu Trp
35 40 45

<210>	9770
<211>	50
<212>	PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9770

Leu Phe Lys Leu Met Lys Lys Trp Phe Lys Arg Phe Arg Asn Leu Pro
1 5 10 15

Arg Phe Leu Lys Leu Ala Gln Ala Ala Leu Ala Ser Trp Glu Arg Asp
20 25 30

Leu Asn Leu Tyr Ser Leu Trp Ala Tyr Arg Trp Arg Lys Asp Lys Met
35 40 45

Lys Cys
50

<210> 9771

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9771

Leu Ile Lys Phe Trp Arg Lys Leu Leu Arg Arg Tyr Arg Lys Met Met
1 5 10 15

Ala Gly Leu Arg Trp Thr Leu
20

<210> 9772

<211> 47

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9772

Lys Met Arg Leu Tyr Thr Arg Leu Met Lys Phe Trp Lys Gln Arg Lys
1 5 10 15

Tyr Ser Leu Arg Met Met Arg Lys Lys Ala Cys Arg Ala Cys Ala Leu
20 25 30

Ala Ala Ile Lys Asp Pro Ala Ala Pro Arg Gly Pro Lys Thr Tyr
 35 40 45

<210> 9773
 <211> 50
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9773

Lys Ile Lys Met Tyr Arg Lys Ile Leu Lys Leu Phe Thr Ser Arg Ser
 1 5 10 15

Lys Pro Phe Arg Met Leu Lys Lys His Asp Leu Ala Met Ile Gln Lys
 20 25 30

Asp Lys Tyr Ala Leu Thr Cys Arg Glu Ala Lys Leu Phe Arg Leu Leu
 35 40 45

Leu Leu
 50

<210> 9774
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9774

Leu Phe Lys Leu Met Arg Arg Leu Leu Arg Arg Tyr Pro Lys Ala Ile
 1 5 10 15

Gln Pro Lys Arg Ala Phe Arg Gly Lys Ser Leu Gln Gly Leu Leu Glu
 20 25 30

Leu Ile Val Gln
 35

<210> 9775
 <211> 58
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9775

Arg	Leu	Arg	Phe	Phe	Lys	Arg	Tyr	Leu	Arg	Arg	Met	Arg	Asn	Lys	Arg
1				5					10					15	

Leu	Ala	Leu	Ala	Ala	Met	Gly	Ser	Gly	Trp	Ala	Lys	Trp	Glu	Gly	Pro
			20					25					30		

Lys	Ala	Asn	Ala	Pro	Trp	Ala	Arg	Arg	Asp	Trp	Ala	Arg	Glu	Ala	Arg
		35					40					45			

Leu	Val	Leu	Ile	Leu	Leu	Arg	Lys	Pro	Met
	50					55			

<210> 9776

<211> 44

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9776

Leu	Phe	Arg	Leu	Leu	Arg	Arg	Trp	Leu	Lys	Arg	Tyr	Lys	Arg	Arg	Lys
1				5					10					15	

Ala	Leu	Gln	Leu	Lys	Ser	Val	Leu	Leu	Ala	Lys	Arg	Thr	Asp	Ala	Lys
			20					25					30		

Met	Gly	Ala	Ala	Arg	Asn	Lys	Arg	Arg	Ala	Gln	Tyr
		35					40				

<210> 9777

<211> 49

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9777

Phe	Ile	Arg	Leu	Phe	Pro	Arg	Leu	Phe	Arg	Arg	Leu	Lys	Thr	Leu	Lys
1				5					10					15	

Gln	Ala	Trp	Met	Cys	Gly	Leu	Leu	Leu	Glu	Ile	Arg	Gln	Ala	Leu	Phe
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

20

25

30

Arg Leu Asn Ala Lys Arg Ala Cys Gly Glu Ala Arg Leu Lys Ala Ser
 35 40 45

Arg

<210> 9778

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9778

Arg Ile Arg Phe Leu Arg Arg Met Leu Arg Met Leu Lys Thr Tyr Leu
 1 5 10 15

His Ala Glu Glu Leu Ala Lys His Ile Leu Asn Ala Arg Ile Leu Leu
 20 25 30

Leu Asn Arg
 35

<210> 9779

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9779

Leu Trp Lys Leu Phe Lys Arg Leu Leu Arg Arg Leu Lys Ser Arg Leu
 1 5 10 15

Arg Lys Leu Asn Thr His Lys His Ala Ala Gly Ser His Met
 20 25 30

<210> 9780

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9780

Lys Ile Lys Leu Phe Arg Arg Tyr Trp Arg Arg Phe Lys Lys Ala Cys
1 5 10 15

Ala Asn Arg Phe Ala Tyr Tyr Lys Leu Ala Arg Ala Leu Asn Ile Leu
20 25 30

Tyr Phe

<210> 9781

<211> 83

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9781

Leu Phe Arg Leu Leu Lys Lys Leu Trp Arg Arg Phe Arg Ser Leu Phe
1 5 10 15

Asp Arg Ala Lys Cys Lys Lys Phe Val Asn Arg Arg Arg Lys Pro Phe
20 25 30

Leu Lys Arg Leu Gln Met Val Glu Trp His Lys Lys Pro Leu Ser Lys
35 40 45

Leu Ala Asn Ile Arg Ile Thr Ser Trp Tyr Val Leu Phe Leu Leu Glu
50 55 60

Leu Met Asn Arg Glu Lys Leu His Arg Ala Lys Arg Lys Glu Ala Ala
65 70 75 80

Ala Thr Cys

<210> 9782

<211> 94

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9782

Lys Trp Arg Leu Phe Lys Lys Phe Phe Arg Lys Leu Arg Lys His Arg
 1 5 10 15

Leu Pro Lys Tyr Ala Ala Tyr Met Leu Arg Arg Phe Asp Met Leu Val
 20 25 30

Trp Arg Gln Lys Lys Lys Ser Asp Pro Lys Arg Arg Ala Leu Leu Asp
 35 40 45

Lys Thr Lys Ala Pro Pro Lys Lys Ala Gly Ser Arg Pro Arg Leu Pro
 50 55 60

Arg Leu Gly Val Ala Cys Leu Leu Arg Trp Gly Lys Tyr Leu His Glu
 65 70 75 80

Asp Ala Ala Leu Glu Asp Met Pro Asn Tyr Arg Arg Glu Ala
 85 90

<210> 9783
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9783

Lys Ile Arg Ile Leu Arg Arg Phe Leu Lys Leu Phe Arg Ser Leu Lys
 1 5 10 15

Ala His His Glu
 20

<210> 9784
 <211> 52
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9784

Lys Leu Lys Phe Leu Lys Lys Phe Leu Lys Lys Trp Pro Arg Glu Leu
 1 5 10 15

Lys Val Pro Ile Lys Arg Gly Cys Leu Arg Arg Trp Leu Arg Cys Leu

20

25

30

Leu Thr Ala Lys Pro Glu Arg Ile Lys Thr Ala Val Gly Arg Asn His
 35 40 45

Leu Leu Trp Phe
 50

<210> 9785

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9785

Lys Trp Lys Met Leu Pro Arg Leu Leu Lys Arg Phe Arg His Ala Asn
 1 5 10 15

Ala Ala Glu Arg Leu Ser Leu Pro Glu Ala His Lys Arg Lys Lys Phe
 20 25 30

Glu Arg Trp Ser Arg Phe Ala Met
 35 40

<210> 9786

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9786

Tyr Ile Lys Leu Trp Cys Lys Leu Leu Arg Phe Tyr Pro Lys Lys Leu
 1 5 10 15

Tyr Ser His Cys Leu Lys Ala Lys Phe Arg Leu Leu Pro Ala Ala His
 20 25 30

Arg Ile His Leu
 35

<210> 9787

<211> 78

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9787

Lys Phe Lys Phe Trp Thr Lys Tyr Ile Lys Lys Leu His Asn Lys Met
1 5 10 15

Pro Arg Lys Arg Leu Ala Phe Ala Leu Gly Pro Asn Tyr Ala Ala Leu
20 25 30

Arg Ala Thr Lys Lys Ala Ala Val Ala Val Leu Lys Tyr Glu Arg Ala
35 40 45

Leu Ser Ile Arg Val Ala Lys Leu Tyr Ala Met His Asp Tyr Glu Arg
50 55 60

Ala Ala Asp Phe Ile Arg Gln Ser Leu Lys Phe Arg Leu Leu
65 70 75

<210> 9788

<211> 56

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9788

Leu Met Arg Leu Trp Asn Lys Phe Tyr Arg Lys Leu Arg Arg Ala Leu
1 5 10 15

Ala Pro Leu Lys Ile His Arg Lys Ala Lys Leu Ile Arg Leu Gln Leu
20 25 30

Lys Arg Ala Gln Val Arg Leu Ile Arg Arg Met Pro Asp Gln Leu Glu
35 40 45

Pro His Ala Gly Tyr His Phe Trp
50 55

<210> 9789

<211> 56

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9789

Lys Phe Arg Leu Leu Ser Arg Phe Met Arg Lys Leu Arg Arg Thr Phe
 1 5 10 15

Asp Phe Asn His Ala Lys Ala Arg Thr Arg Ala Leu Ser Arg Trp Lys
 20 25 30

Tyr Met Phe Leu Trp Ala Glu Ala Phe Lys Lys Thr Thr Ala Leu Lys
 35 40 45

Gln Glu Ala Glu Arg Gly Leu Ala
 50 55

<210> 9790

<211> 73

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9790

Arg Trp Lys Trp Trp Arg Arg Tyr Met Lys Leu Tyr Arg Lys Leu Gly
 1 5 10 15

Ile Trp Lys Trp Leu Asp Leu Ala Arg Lys Val His Ala Cys Ala Gln
 20 25 30

Tyr Arg Leu Lys His Arg Ala Leu Val Pro Arg Ala Ala Ala Lys Lys
 35 40 45

Lys His Gly Lys Arg Arg Ile Leu Ala Arg Ala Leu Arg Ala Leu Leu
 50 55 60

Lys Leu Leu Pro Ser Ala His Ala Gln
 65 70

<210> 9791

<211> 45

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9791

Arg Phe Lys Phe Ile Lys Arg Met Leu Arg Leu Leu His Arg Val Met
 1 5 10 15

Leu Arg Leu Glu Leu Ala Lys Ile Ile Arg Pro Arg Gln Asn Val Thr
 20 25 30

Cys Pro Lys Leu Phe Arg Arg Gln Asn Ala Ala Arg Leu
 35 40 45

<210> 9792

<211> 61

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9792

Lys Tyr Arg Tyr Ile Arg Arg Met Leu Lys Arg Leu His Arg Met Ala
 1 5 10 15

Asp Phe Trp Gly Leu Lys Ser Cys Leu Lys Lys Trp Ala Gln Leu Lys
 20 25 30

Ala Gln Leu Ile Lys Asp Ala Leu Ala Trp Arg Ser Lys Pro Met Ala
 35 40 45

Cys Trp Arg Lys Pro Leu Lys Lys Leu Ala Asn Ile Asp
 50 55 60

<210> 9793

<211> 37

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9793

Tyr Leu Lys Ile Leu Lys Lys Tyr Ile Arg Leu Ile Lys Lys Leu Thr
 1 5 10 15

Lys Lys Ile Pro Pro Leu Lys Ala Lys Leu Phe Ala Arg Thr Asp Trp
 20 25 30

Ala Cys Pro Arg Gln
35

<210> 9794
<211> 85
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 9794

Arg Phe Lys Tyr Leu Arg Lys Tyr Phe Lys Lys Leu Pro Gln Ala Lys
1 5 10 15

Ala Arg Leu Thr Arg Ala Lys Glu Ala Gln Gln Leu Met Lys Tyr Ile
20 25 30

Ala Arg Ile Arg Ile Lys Gly Leu Pro Asn Tyr Arg Trp Asn Lys Leu
35 40 45

Arg Pro Asp Cys Arg Arg Tyr Ala Thr Tyr Trp Met Thr Ala Gln Pro
50 55 60

Ala Arg Asp Ala Ala Arg Thr Arg Pro Ala Gln Ser Lys Arg Asn Ala
65 70 75 80

Ala Leu Leu Lys Leu
85

<210> 9795
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 9795

Lys Leu Arg Leu Phe Lys Lys Trp Leu Lys Lys Leu Lys Lys Ala Tyr
1 5 10 15

Gln Leu Ala Ser Ala
20

<210> 9796

<211> 27
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9796

Arg Met Arg Leu Met Cys Lys Trp Leu Lys Lys Trp Lys Asn Ala Ile
 1 5 10 15

Tyr Leu Arg Arg Lys Met Tyr Gly Leu Leu Ala
 20 25

<210> 9797
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9797

Arg Tyr Lys Ile Phe His Arg Trp Leu Arg Arg Leu Lys Pro Gly Ala
 1 5 10 15

Ala Asp Lys Arg Ala Ile Cys Ala Pro
 20 25

<210> 9798
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9798

Tyr Tyr Lys Tyr Ile Lys Lys Phe Leu Arg Leu Leu Lys Cys Thr Lys
 1 5 10 15

Asn Pro Arg Leu Ala
 20

<210> 9799
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9799

Phe Phe Arg Met Met Lys Lys Trp Phe Lys Leu Leu His Thr Ala Leu
 1 5 10 15

Leu Ser Lys Ala Lys Gln Asn Lys Arg Ala Arg Leu Arg Ala Gln His
 20 25 30

Thr Pro

<210> 9800

<211> 50

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9800

Arg Ile Arg Leu Leu Arg Arg Trp Leu Arg Lys Phe Arg Thr His Gln
 1 5 10 15

Asp Arg Leu Arg Tyr Thr Lys Ile Arg Tyr Arg Leu Gln Val Arg Lys
 20 25 30

Leu Lys Phe Lys Leu Ala Ala Phe Ala Met Thr Gly Ile Leu Trp Pro
 35 40 45

Glu Leu
 50

<210> 9801

<211> 79

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9801

Arg Ile Arg Leu Leu Gln Lys Tyr Trp Arg Arg Tyr Arg His Ala Pro
 1 5 10 15

Leu Leu Gly Lys Ile Gly Phe Ile Ala Ala Lys Leu Lys Glu Arg Lys

20

25

30

Ile Thr Glu Ala His Leu Leu Lys Ala Lys Tyr Leu Arg Lys Leu Leu
 35 40 45

Gly Thr Trp Val Leu Ala Ala Arg Asn Phe Val Phe Arg Lys Val Leu
 50 55 60

Glu Ile Asn Leu Arg Leu Phe Val Ala Ala Ile Ile Tyr Ala Lys
 65 70 75

<210> 9802

<211> 41

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9802

Lys Leu Arg Met Met Arg Arg Met Leu Arg Tyr Tyr His Gln His Lys
 1 5 10 15

Arg Ala Arg Ala Gln Ala Ala Ala Lys Thr Ile Ala Arg Gln Cys Glu
 20 25 30

Pro Met Tyr Ala Ala Lys Leu Lys His
 35 40

<210> 9803

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9803

Leu Tyr Lys Leu Leu Asn Lys Met Trp Lys Ile Leu Lys Arg Ala Glu
 1 5 10 15

Trp Val Ile Cys Lys Val Lys Leu Lys
 20 25

<210> 9804

<211> 45

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9804

Arg Leu Lys Phe Trp Arg Arg Leu Trp Lys Met Leu Pro His Ile Lys
1 5 10 15

Glu Lys Ser Met Lys Gly Leu Lys Arg Glu Leu Leu Ala Ser Leu Lys
20 25 30

Pro Ile Ala Tyr Ala Asp Pro Ala Lys Leu Lys Arg Trp
35 40 45

<210> 9805

<211> 71

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9805

Met Ile Arg Leu Leu Arg Lys Met Trp Arg Lys Tyr Arg Pro Leu Arg
1 5 10 15

Leu Lys Lys His Tyr Ala Asn Phe Ala Asn Met Trp Tyr Lys Cys Leu
20 25 30

His Pro Pro Ser Gly Arg Cys Leu Ala Glu Pro Lys Leu Asp Glu Leu
35 40 45

Leu Leu Arg Lys Pro Leu Leu Ala Arg Arg Trp Leu Arg Lys Arg Leu
50 55 60

Lys Cys Cys Cys Lys His Leu
65 70

<210> 9806

<211> 47

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9806

Leu Phe Arg Leu Trp Lys Lys Leu Leu Arg Phe Phe Lys Arg Thr Arg
 1 5 10 15

Lys Thr Ser Ala Ala Thr Thr Trp Lys Leu His Lys Leu Arg Arg His
 20 25 30

Ala Gly Ala Gln Lys Asn Glu Leu Glu Gln Leu His Cys Lys Trp
 35 40 45

<210> 9807

<211> 52

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9807

Lys Ile Arg Leu Ile Lys Arg Met Met Lys Arg Met Gln Lys Asp Thr
 1 5 10 15

Asp Lys Gly Arg Ser Ala Ala Leu Ala Leu Val Leu Gly Arg Pro Arg
 20 25 30

Thr Val Leu Lys Leu Val Ala Ala Lys Glu Trp Ile Ala Arg Ala His
 35 40 45

Asn Ala Gly Lys
 50

<210> 9808

<211> 69

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9808

Leu Leu Arg Ile Met Arg Lys Trp Tyr Lys Tyr Met Lys Asn Arg Leu
 1 5 10 15

Cys Gln Cys Ala Lys Ala Met Arg Leu Leu Ala Thr Leu Arg Ser Val
 20 25 30

Trp Glu Phe Ser Ser Lys Asn Ala Ala Leu Arg Leu Tyr His Leu Ala

35

40

45

Leu Pro Lys Ala Lys Leu Asp Lys Ser Arg Arg Leu Trp Asp Asn Thr
 50 55 60

Glu Gln Lys Ala Lys
 65

<210> 9809
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9809

Leu Trp Lys Phe Leu Arg Lys Leu Leu Lys Arg Leu Asn Arg Lys Lys
 1 5 10 15

Ala Ala Thr Phe Lys Lys Phe Ala Cys Ala Cys Asp Lys
 20 25

<210> 9810
 <211> 46
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9810

Phe Leu Lys Phe Ile Lys Lys Tyr Ile Arg Lys Leu Lys His His Arg
 1 5 10 15

Phe Leu Ser Leu Lys Ala Asp Ile Glu Lys Leu Ala Arg Phe Ala Leu
 20 25 30

Ile Glu Leu Lys Ile Arg Arg Lys Thr Lys Thr Ala Ala Gly
 35 40 45

<210> 9811
 <211> 27
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9811

Leu Ile Arg Leu Phe Lys Lys Ile Leu Arg Arg Met His Lys Ala Lys
1 5 10 15

Glu Arg Ala Lys Phe Lys Leu Asp Leu Leu Ile
20 25

<210> 9812

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9812

Lys Leu Arg Leu Leu Lys Lys Phe Leu Lys Phe Leu Arg Lys Ala Leu
1 5 10 15

Glu Ala Leu Pro Arg Arg Leu Phe
20

<210> 9813

<211> 56

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9813

Arg Leu Lys Leu Trp Cys Arg Phe Ile Lys Ile Leu Thr Arg Ala Ala
1 5 10 15

Lys Ala Gly His Ile Asp Leu Thr Arg Leu Leu Leu Glu Leu Ala Ser
20 25 30

Lys Ala Lys Cys Lys Gln Leu Gln Arg Leu Leu Trp His Lys Leu Tyr
35 40 45

Cys Asp Tyr Ile Tyr Ala Thr Lys
50 55

<210> 9814

<211> 81

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9814

Arg	Phe	Lys	Tyr	Phe	Arg	Lys	Trp	Leu	Arg	Arg	Leu	Arg	Lys	Ala	Asn
1				5				10						15	

Glu	Ala	Pro	His	Lys	Phe	Lys	His	Cys	Ala	Met	Pro	Ala	Leu	Ala	His
			20					25					30		

Leu	Arg	Leu	Met	Arg	Ser	Lys	Gly	Gly	Leu	Asn	Glu	Ala	Cys	Leu	Arg
		35					40					45			

Lys	Lys	Tyr	Lys	Arg	Ala	Leu	Gly	Lys	His	Val	Ala	Tyr	Gln	Lys	Val
	50					55					60				

Lys	Lys	Arg	Asn	Leu	Ala	Arg	Ser	Gln	Gln	Leu	Ile	Pro	Tyr	Lys	Tyr
65					70					75					80

Arg

<210> 9815

<211> 31

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9815

Arg	Phe	Arg	Phe	Trp	Arg	Lys	Leu	Leu	Arg	Lys	Ile	Asn	Arg	Cys	Asn
1			5					10						15	

Ser	Ala	Lys	Gly	Lys	Ala	Ala	Leu	His	Ala	Ala	Val	His	Leu	Arg
			20					25					30	

<210> 9816

<211> 78

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9816

Arg Leu Arg Leu Trp Gln Lys Ile Phe Arg Arg Tyr Thr His Val Met
 1 5 10 15

Trp Asp Arg Ala Pro Leu Phe Arg Asn Ala Ala Ala Val Leu Lys Tyr
 20 25 30

Ala Arg Trp Lys Thr Gln Met Leu Leu Ala Leu Lys Lys Met Ala His
 35 40 45

Lys Arg Arg Ala Tyr Lys Pro Thr Arg Cys Asn Ala Arg Trp Leu Gln
 50 55 60

Ala Leu Glu Arg Leu Leu Ala Arg Arg Glu Ala Gln His Ser
 65 70 75

<210> 9817
 <211> 39
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9817

Arg Leu Lys Leu Ile Arg Arg Leu Trp Lys Leu Leu Arg Arg Ile Gly
 1 5 10 15

Met Ala Leu Ala Lys Ala Ala Leu Leu Phe Leu Trp Leu His Arg Val
 20 25 30

Pro Gly His Lys Tyr Lys Arg
 35

<210> 9818
 <211> 61
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9818

Arg Leu Lys Leu Trp Arg Arg Met Leu Arg Arg Leu Asn Cys Lys Glu
 1 5 10 15

Glu Ala Arg Lys Lys Leu Leu Arg Trp Arg Leu Tyr Met Cys Gly Arg

20

25

30

Arg Ala Pro Lys Ile Ile Met Asn Tyr Cys Trp Ala Ala Gln Gly Leu
 35 40 45

Val Leu Asn Val Lys Ala Cys Lys Lys Gln Leu Leu Thr
 50 55 60

<210> 9819

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9819

Arg Met Lys Phe Leu Lys Arg Phe Phe Lys Leu Leu His Lys Ala Cys
 1 5 10 15

Arg Val Ala Asp Pro
 20

<210> 9820

<211> 73

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9820

Arg Met Lys Met Tyr Gln Lys Leu Leu Arg Lys Leu Pro Lys Trp Leu
 1 5 10 15

Arg Tyr Lys Arg Trp Trp Leu Leu Ala Lys Lys Arg Arg Ile Asn Asn
 20 25 30

Arg Gln Leu Val Asn Arg Met Lys Lys Ala Asn Leu Asn Leu Ala Asp
 35 40 45

Tyr Ala Tyr Arg Arg Trp Leu Tyr Ala Trp Ser Arg Asn Trp Leu Val
 50 55 60

Arg Ile Arg Met Leu Met Arg Leu Lys
 65 70

<210> 9821
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9821

Leu Tyr Lys Tyr Tyr Thr Arg Leu Leu Arg Leu Leu Lys Cys Leu Arg
 1 5 10 15

Gln His His Arg Gly Ile Ala
 20

<210> 9822
 <211> 47
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9822

Met Met Lys Trp Tyr Arg Arg Leu Leu Arg Arg Phe Arg Lys Ala Ile
 1 5 10 15

Ala Trp Pro Thr Arg Glu Arg Arg Ala Val Leu Ile Trp Lys Leu Gln
 20 25 30

Ala Arg Thr Leu Gln Lys Ala Ala Val Arg Arg Gly Val Gly Leu
 35 40 45

<210> 9823
 <211> 79
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9823

Ile Leu Lys Phe Leu Gln Arg Ile Leu Arg Lys Met Arg Ser Gly His
 1 5 10 15

Trp His Arg Glu Lys Ala Asp Gly Trp Lys His Asp Met Phe Ala Leu
 20 25 30

Ala Glu Ala Arg Ile Ala Thr Ser Val Gln Leu Arg Ala Ala Lys Arg
 35 40 45

Arg Arg Ile Ile His Leu Leu Arg Leu Arg Val Lys Tyr Leu Gly Phe
 50 55 60

Phe Ala Leu Trp Ala Asn Tyr Lys Lys Arg Arg Ala Leu Arg Ala
 65 70 75

<210> 9824
 <211> 74
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9824

Leu Tyr Arg Leu Leu Ser Lys Tyr Ile Arg Phe Tyr Arg Lys Ala Leu
 1 5 10 15

Arg Pro Glu Ser Arg Cys Asn Ala Pro Arg Leu Arg Ile Arg Ala Leu
 20 25 30

Thr Lys Cys Leu Ala Asp Met Glu Phe Asn Arg Ala Arg Asp Leu Ala
 35 40 45

Ile Lys Lys Tyr Trp Arg Arg Ala Pro Ala Ala Gln Pro Arg Thr Asp
 50 55 60

Tyr Glu Lys Glu Ala Lys Arg Leu Thr Arg
 65 70

<210> 9825
 <211> 89
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9825

Arg Met Arg Ile Leu Arg Arg Ile Met Lys Met Met Arg Lys Thr Glu
 1 5 10 15

Trp Ser Lys Leu Gly Leu Ile Cys Ala Asp Arg Leu Glu Gln Lys Leu

20

25

30

Ala Ala Leu Tyr Leu Tyr Cys Pro Leu Arg Ala Leu Gly Gly Gly Arg
 35 40 45

Leu Ala Trp Ala Leu Ala Tyr Arg Ala Gly Leu Arg Ala Arg Met Asp
 50 55 60

Asn Ile Met Ala Met Lys Lys Ala Ala Lys Asp Lys Ile Lys Glu Ala
 65 70 75 80

Asp Gly Lys His Leu Ser Lys Leu His
 85

<210> 9826

<211> 100

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9826

Lys Trp Arg Leu Leu Arg Arg Leu Leu Lys Arg Trp Lys Arg Ala Gln
 1 5 10 15

Lys Arg Cys Ile Asn Gly Trp Met Asn Ala Glu Cys Met Trp His Lys
 20 25 30

Arg Ala Asn Val Val Leu Arg Ala Ala Leu Ala Leu Ala Phe Lys Gly
 35 40 45

Tyr Leu Leu Asn Tyr Cys Met Thr Lys Arg His Lys Phe His Leu Pro
 50 55 60

Asn Arg Phe Lys Trp Val Lys Ala Ala Ala Leu Asn Leu Ser His Arg
 65 70 75 80

Lys Gly Lys Ala Pro Arg Lys Arg Phe Arg Leu Asp Asp Tyr Arg Lys
 85 90 95

Leu Arg Tyr Leu
 100

<210> 9827

<211> 57
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9827

Leu Tyr Lys Phe Leu Arg Lys Leu Leu Arg Lys Leu Asn Arg Met Leu
 1 5 10 15

Ala Leu Lys Lys Ser Leu Lys Ala Glu Leu Leu Pro Ile Tyr Asn Lys
 20 25 30

Leu Lys Gly Gly Ile Lys Arg Ala Leu Glu Tyr Glu Leu Ser Lys Asn
 35 40 45

Pro Arg Lys Pro Lys Ile Asp Pro Trp
 50 55

<210> 9828
 <211> 71
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9828

Leu Tyr Arg Ile Tyr Lys Lys Phe Trp Lys Arg Ile Arg Lys Gln Lys
 1 5 10 15

Val Leu Leu Leu Ala Ala Glu Ala Tyr Ala Lys Ala Ile Leu Leu Lys
 20 25 30

Ala Lys Ala Lys Leu Leu Lys Ile Leu Leu Arg Lys Arg Ile Glu Lys
 35 40 45

Gln Ala Glu Lys Asp Lys His Ala Tyr Lys Ala Glu Leu Val Leu Ala
 50 55 60

Glu Lys Asn Met Leu Leu Leu
 65 70

<210> 9829
 <211> 27
 <212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9829

Ile Ile Lys Trp Tyr Cys Arg Tyr Leu Lys Phe Ile Arg Arg Tyr Leu
1 5 10 15

Cys Ala Arg Ala Lys Ala Arg Lys Leu Leu His
20 25

<210> 9830

<211> 67

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9830

Arg Phe Arg Met Leu Gln Lys Leu Ile Lys Lys Leu Ser Lys His Phe
1 5 10 15

Ser Lys Arg Arg Met Ala Leu Asn Met Trp Ile His Arg Asp Asn Lys
20 25 30

Met Cys Met Arg Lys Ala Ala Leu Lys Ala Met Arg Lys Phe Lys
35 40 45

Asn Ala Arg Ala Met Leu Lys Ser Leu Lys Pro Lys Gln Gln Ala Leu
50 55 60

Pro Cys Arg
65

<210> 9831

<211> 100

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9831

Phe Phe Lys Ile Leu Cys Lys Leu Phe Lys Leu Leu Lys Arg Arg Ala
1 5 10 15

Pro Thr Lys Pro Tyr Lys Cys Leu Leu Arg Arg Arg Ala Pro Arg Pro
 20 25 30

His Arg Leu Leu His Phe Leu Lys Lys Ser Asp Leu Ser Lys Val Lys
 35 40 45

Trp Trp Arg Gln Ala Lys Leu Cys Ala Arg Val Ile Leu Arg Cys Arg
 50 55 60

Ile Leu Asp His Leu Arg Glu His Lys Ile Leu Gln Ala Thr Tyr Ala
 65 70 75 80

Val Ala Asn Lys Gly Val Leu Lys Glu Ala Pro Leu Ile Arg Thr Arg
 85 90 95

Arg Arg Met Arg
 100

<210> 9832
 <211> 53
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9832

Ile Phe Arg Tyr Leu Arg Arg Met Leu Arg Phe Ile Gln Asn Arg Val
 1 5 10 15

Arg Leu Lys Gln Trp Ile Ala Glu Leu Arg Asn Ala Ser Ala Ala Leu
 20 25 30

Trp Ile Ala Arg Arg Arg Arg Leu Phe Tyr Leu Leu Thr Leu Leu Leu
 35 40 45

Asn His Arg Ala Phe
 50

<210> 9833
 <211> 27
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9833

Ile	Ile	Lys	Met	Leu	Lys	Lys	Ile	Leu	Lys	Lys	Ile	Arg	Pro	Ala	Leu
1				5				10						15	

Leu	Arg	Gly	Tyr	Arg	Asp	Cys	Lys	Ala	Leu	Ile
		20					25			

<210> 9834

<211> 81

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9834

Arg	Trp	Lys	Trp	Leu	Cys	Lys	Trp	Tyr	Lys	Lys	Trp	Arg	Lys	His	Cys
1				5				10						15	

Gly	Tyr	Glu	Lys	Ala	Ala	Cys	Lys	Arg	Leu	Arg	Gln	Ala	His	Lys	Arg
			20					25					30		

Tyr	Ala	Leu	Gln	Lys	Leu	Asn	Ala	Asn	Met	Leu	Leu	Phe	Lys	Lys	Asp
		35					40					45			

Ala	Arg	Arg	Ser	Ala	Leu	Ile	Gln	Leu	Phe	His	Asp	Arg	Leu	Arg	Arg
	50					55					60				

Gly	Lys	Leu	Lys	Glu	Asn	Asn	Leu	Gln	Val	Val	Leu	Pro	Lys	Tyr	Leu
65					70					75					80

Arg

<210> 9835

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9835

Lys	Tyr	Lys	Leu	Leu	Arg	Arg	Met	Phe	Lys	Leu	Ile	Thr	Thr	Lys	Ala
1				5					10					15	

Ala Trp Asn Gly Leu Glu Phe Ala Arg Arg Lys Ala Gln Pro Phe Lys
 20 25 30

Ile Lys

<210> 9836

<211> 57

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9836

Lys Tyr Arg Leu Leu His Arg Leu Leu Lys Trp Trp Cys Lys Ile Leu
 1 5 10 15

Thr Lys Val Glu Leu Leu Arg Leu Cys Phe Asp Ile Ala Tyr Leu Arg
 20 25 30

Leu Met Tyr Ser Gly Leu Pro Cys Arg Arg Met Lys Lys Ala Arg Ala
 35 40 45

Pro Lys Met Arg Gln Ala Arg Ile Leu
 50 55

<210> 9837

<211> 50

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9837

Ile Phe Lys Leu Leu Asn Arg Phe Met Lys Leu Ile Arg Arg Ala Asn
 1 5 10 15

Ala Cys Lys Phe Arg Met Arg Ala Lys Ala Pro Leu Lys Thr Thr Tyr
 20 25 30

Cys Trp Arg Leu Gly Leu Arg Val Arg Arg Ala Ala Ala Ala Leu Leu
 35 40 45

Lys Lys

50

<210> 9838
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9838

Leu Ile Lys Ile Phe Arg Arg Phe Met Lys Tyr Leu Thr His Arg Ala
 1 5 10 15

Ile Glu Ala Arg Phe Lys Ala Ala Ala Ser Gly Arg Lys
 20 25

<210> 9839
 <211> 60
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9839

Lys Leu Lys Phe Met Lys Arg Trp Phe Lys Lys Leu Ser Lys Glu Cys
 1 5 10 15

Met Ser Met Val Arg Asp Ala Met Ile Phe Ala Trp Ile Lys Ala Leu
 20 25 30

Glu Gly Arg Lys Ala Pro Lys Arg Arg Leu His Leu Cys Ala Arg Met
 35 40 45

Leu Trp Glu Lys Leu Lys Ala Leu Ala Arg Gln Leu
 50 55 60

<210> 9840
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9840

Trp Leu Lys Leu Met Arg Lys Met Trp Arg Arg Phe Arg His Cys Arg

1 5 10 15

Ala His Asp Lys Leu Leu Lys Tyr Ala Ser Trp Leu Lys Gln
20 25 30

<210> 9841
<211> 22
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 9841

Leu Leu Arg Phe Phe Lys Lys Phe Leu Lys Leu Tyr Arg His Met Ala
1 5 10 15

Lys Asp Lys Gly His Ala
20

<210> 9842
<211> 60
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 9842

Lys Ile Lys Ile Leu Arg Arg Leu Met Lys Arg Leu Pro Lys Ala Lys
1 5 10 15

Trp Lys Phe Tyr Met Glu Ala Asn Lys Ala Ala Lys Lys Lys Arg Lys
20 25 30

Arg Trp Cys Phe Arg Ile Leu Cys Arg Leu Pro Pro Thr Ala Leu Ala
35 40 45

Leu Val Lys Ala Ser Met Gln Tyr Val Ala Asn Gln
50 55 60

<210> 9843
<211> 34
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 9843

Met	Phe	Lys	Met	Leu	Lys	Arg	Ile	Leu	Arg	Phe	Phe	Lys	Ser	Leu	Ser
1				5					10					15	

Ala	Ala	Tyr	Cys	Arg	Ala	Leu	Ala	Leu	Phe	Lys	Val	Cys	Arg	Ser	Arg
			20					25					30		

Ala Lys

<210> 9844

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9844

Lys	Leu	Arg	Leu	Leu	Arg	Arg	Leu	Tyr	Lys	Arg	Met	Lys	Gln	Ala	Gly
1				5					10					15	

Ile	Thr	Trp	Leu	Val	Lys	Cys	Ser	Leu	His	Arg	Leu	Glu	Ile	Ala	Asn
			20					25					30		

<210> 9845

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9845

Tyr	Phe	Arg	Trp	Trp	Arg	Arg	Leu	Tyr	Arg	Arg	Trp	Gln	Thr	Lys	Glu
1				5					10					15	

Arg	Leu	Leu	Leu	Ala	Leu	Glu	Ala	Arg
			20					25

<210> 9846

<211> 42

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9846

Trp Trp Lys Met Leu Thr Arg Tyr Phe Arg Arg Phe Arg Lys Ala Lys
 1 5 10 15

Ala Arg Ser Phe Leu Leu His Ala Leu Val Leu Glu Trp Leu Leu Phe
 20 25 30

Arg Met Lys Lys Ile Cys Ala Leu Arg Pro
 35 40

<210> 9847

<211> 41

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9847

Leu Phe Arg Phe Leu His Lys Tyr Leu Lys Lys Phe Arg Lys Lys Ala
 1 5 10 15

Gly Leu Arg Asn Ala Arg Gly Ala Ala Arg Cys Asp Phe His Lys Asp
 20 25 30

Arg Arg His His Ala Ala His Ala Leu
 35 40

<210> 9848

<211> 58

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9848

Arg Leu Arg Phe Phe Lys Lys Leu Leu Lys Arg Leu Pro His Leu Leu
 1 5 10 15

Ser His Arg Met Leu Leu Ala Arg Arg Cys Arg Leu Gly Leu Gln Ala
 20 25 30

Leu Trp Arg Thr Pro Val Met Arg Tyr Ala Cys Lys Leu Leu Leu Met
 35 40 45

Trp Ser Lys Tyr Glu His Cys Lys Trp Cys
 50 55

<210> 9849
 <211> 39
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9849

Lys Ile Lys Phe Ile Arg Arg Leu Trp Lys Phe Leu Pro Arg Leu Arg
 1 5 10 15

Leu Arg Arg Arg Trp Cys Pro Lys His Ser Ala Arg Ala Ala Lys Ala
 20 25 30

Leu Cys Val Pro Leu Leu Leu
 35

<210> 9850
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9850

Arg Tyr Arg Leu Phe Lys Arg Trp Tyr Lys Lys Leu Asn Arg Ile Trp
 1 5 10 15

Gly Leu Glu Leu His Ala Ile Asn Lys Val Arg Leu Pro Leu Arg Leu
 20 25 30

Lys Ala His
 35

<210> 9851
 <211> 53
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9851

Leu Trp Arg Phe Tyr Arg Lys Met Trp Lys Arg Leu Lys Arg Leu Glu
 1 5 10 15

Leu Leu Trp Ala Gly Leu His Lys Ala His Ile Asn Lys Ala Arg Ala
 20 25 30

Val Ala Gln Arg Cys Lys Phe Gln His Phe Arg Ser Ala Arg Ala Ile
 35 40 45

Lys His Lys Ile Arg
 50

<210> 9852
 <211> 84
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9852

Lys Trp Arg Phe Phe Lys Arg Leu Ile Arg Phe Tyr Pro Arg Leu Ala
 1 5 10 15

Lys Lys Ala Pro Phe Ile Leu Ala Thr Arg Leu Arg Thr Leu Arg Arg
 20 25 30

Arg Lys Pro Val His Leu Leu Lys Pro Leu Gly Lys Ala Lys Phe Trp
 35 40 45

Trp Val Ala Ala Ala Ala Ala His Met His Leu Lys Cys Arg Arg Arg
 50 55 60

Leu Cys Ala Ser Tyr Lys Tyr Arg Leu Glu Leu Ala Arg Glu Gly Glu
 65 70 75 80

Lys Gly Ala Arg

<210> 9853
 <211> 37
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9853

Lys Trp Arg Leu Phe Arg Lys Leu Leu Arg Leu Leu His Lys Arg Cys
1 5 10 15

Val Arg Trp Tyr Leu Ile Arg Leu Gly Ala Lys Ala Ala Tyr Met Ala
20 25 30

Gln Leu Arg Cys Ala
35

<210> 9854

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9854

Lys Leu Lys Leu Trp Thr Arg Phe Leu Arg Arg Phe Pro Arg Tyr Arg
1 5 10 15

Leu Thr Ala Arg Gln Val Met Asn Leu Leu
20 25

<210> 9855

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9855

Arg Leu Arg Trp Ile Gln Arg Tyr Leu Lys Leu Leu Arg Arg Phe Arg
1 5 10 15

Gly Met Asp Ser Ala Ala Ala Ile
20

<210> 9856

<211> 61

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9856

Leu Phe Lys Tyr Tyr Arg Arg Phe Leu Arg Lys Leu Arg Pro Leu Lys
 1 5 10 15

Leu Gly Arg Lys Leu Lys Ile Arg Pro Leu Ser Phe Ala Asn Lys Ser
 20 25 30

Ala Ala Glu Ser Ala Ala Lys Thr Ala Thr Ala Tyr Arg Leu His Phe
 35 40 45

Asp Gln Leu Ala Ala Lys Cys Leu Lys Ser His Leu Gln
 50 55 60

<210> 9857

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9857

Lys Leu Arg Phe Trp His Arg Met Leu Lys Leu Leu Lys Arg Gly Leu
 1 5 10 15

Leu Pro Asn Leu Arg Pro Ser Thr Arg
 20 25

<210> 9858

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9858

Arg Phe Lys Leu Ile Pro Arg Leu Ile Arg Lys Trp Lys Arg Asn Ile
 1 5 10 15

Leu Ala Phe Lys Leu Leu Asp Leu Tyr Ala His Phe Lys Trp Phe Gly
 20 25 30

Ala Ala

<210> 9859
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9859

Arg Phe Arg Phe Met Lys Arg Leu Ile Arg Lys Met Lys Lys Ser Ser
 1 5 10 15

Leu Val Leu Asp Glu Leu Tyr Leu Gln Phe Ala Leu Ala
 20 25

<210> 9860
 <211> 51
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9860

Arg Ile Lys Ile Ile Pro Lys Phe Ile Lys Tyr Ile Lys Lys Arg Arg
 1 5 10 15

Ala Arg Gly Cys Ala Ala Ala Ala Cys Leu Val Leu Lys Val His Asp
 20 25 30

Arg Leu Glu Met Lys Ser Lys Leu Glu Leu Ala Leu Ile Arg Lys Arg
 35 40 45

Lys Ala Ile
 50

<210> 9861
 <211> 39
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9861

Phe Tyr Lys Leu Leu Cys Lys Met Leu Lys Lys Ile Thr Thr Arg Lys
 1 5 10 15

Ile Ala Leu Asn Leu Ala Cys Lys Thr Leu Lys Asp Ala Thr Lys Ala
 20 25 30

Ala Gly Arg Cys Phe Lys Gly
 35

<210> 9862

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9862

Arg Met Arg Leu Tyr Arg Arg Phe Leu Arg Trp Leu Lys Gln Glu Leu
 1 5 10 15

His Val Lys Ile Gln Phe Gln Ala Tyr Lys Ser Ala Met Lys Ser Ala
 20 25 30

Leu Ala Lys Leu
 35

<210> 9863

<211> 99

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9863

Arg Tyr Lys Leu Trp His Lys Leu Phe Arg Lys Ile Arg Arg Arg Arg
 1 5 10 15

Pro Met Met Lys Cys Lys Lys Pro Arg Leu Leu Tyr Trp Glu Lys Lys
 20 25 30

Ile Ala Ala Met Trp Lys Ile Leu Met Leu Trp Arg Tyr Lys Leu Ala
 35 40 45

Cys Gln Ser Met Arg Arg Pro Ala Asn Asp Leu Ala Leu Arg Ala Lys
 50 55 60

Leu Met Trp Cys Gly Tyr Asn Lys Lys Gln Arg Cys Cys Trp Lys Tyr

<400> 9866

Arg Met Lys Phe Tyr Lys Arg Met Ile Arg Lys Phe Lys Gln Asn Pro
 1 5 10 15

Gln Lys Ala Leu Leu Leu Ala Arg Arg Glu Leu Leu Glu Ala Thr Gln
 20 25 30

Arg Ala Pro Trp Leu Leu Leu Gly Arg Arg Lys Arg Leu Glu Ala Asp
 35 40 45

Asn Arg Lys Leu Leu Leu Val Arg
 50 55

<210> 9867

<211> 59

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9867

Arg Phe Arg Phe Leu Lys Arg Phe Leu Arg Lys Leu Arg Arg His Met
 1 5 10 15

Lys Glu Arg Met Gln Arg Pro Ala Val Ala Ala Trp Ala Leu Lys Asp
 20 25 30

Leu Arg Ala Pro Leu Leu Leu Met Lys Lys Gln Glu Pro Ala Arg Ala
 35 40 45

Pro His Gly His Lys Gln Arg Lys Cys Ile Trp
 50 55

<210> 9868

<211> 48

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9868

Leu Ile Lys Leu Ile Arg Lys Trp Leu Arg Lys Leu Lys His Glu Asn
 1 5 10 15

His Leu Ala Cys Arg Thr Lys Met Arg Arg Ala Leu Leu Ala Gly Ala
 20 25 30

Val Gly Arg Asn Gln His Ala Lys Arg Cys Cys Lys Asn Arg Arg Asn
 35 40 45

<210> 9869

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9869

Leu Phe Arg Phe Met His Arg Tyr Leu Lys Arg Leu Cys Arg Ala Ala
 1 5 10 15

Trp Glu Gly Leu Arg Asn Gln Gly Tyr Arg Arg Asn Leu Thr Ala Arg
 20 25 30

Leu Arg Lys
 35

<210> 9870

<211> 75

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9870

Arg Leu Arg Phe Phe His Arg Ile Leu Lys Phe Ile Lys Lys Cys Leu
 1 5 10 15

Arg Arg Trp Arg Leu Leu Leu Met Leu Gln Gln Asn Cys Ala Ala His
 20 25 30

Leu Ala Trp Ser Arg His Tyr Lys Thr Ala Lys Gly Leu Leu Arg Ser
 35 40 45

Met His Ser Arg Lys Trp Pro Arg Lys Ala Lys Leu Glu Ala Ser Gln
 50 55 60

Lys Lys Ala Arg Ala Lys Leu Ala Ala Leu Asp

65 70 75

<210> 9871
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9871

Phe Leu Arg Ile Leu His Lys Met Leu Lys Arg Met Arg Thr Met Val
 1 5 10 15

Lys Arg Lys Ala Asp Tyr Leu Leu Glu
 20 25

<210> 9872
 <211> 65
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9872

Arg Phe Lys Leu Leu Gln Arg Ile Phe Lys Leu Met Asn Lys Val Ala
 1 5 10 15

Glu Lys Ala Gly Gln Met Arg Phe Asn Thr Tyr Gly Lys His Ile Ser
 20 25 30

Ala Ala Leu Val Glu Leu Leu Ile Arg Leu Lys Lys Ser Arg Gly Met
 35 40 45

Ala Leu Arg Arg Ile His Ala Val Gly Arg Leu Arg Leu Leu Lys Ala
 50 55 60

Leu
 65

<210> 9873
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9873

Lys Met Arg Phe Leu Ser Arg Phe Met Lys Leu Trp Asn Arg Ala Cys
 1 5 10 15

Phe Leu Arg Val Leu Arg Ser Val Leu Arg Tyr Lys Leu Leu Lys Arg
 20 25 30

Ile Gly Lys Ala
 35

<210> 9874

<211> 89

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9874

Arg Ile Arg Phe Trp Lys Arg Phe Met Lys Lys Ile Asn Cys Arg Lys
 1 5 10 15

Phe Pro His Leu Arg His Arg Leu Leu Met Leu Gly Leu Ala Ala Arg
 20 25 30

Arg Arg Leu Ala Met Pro Gly Lys Leu Lys Lys Lys Arg Gly Trp Arg
 35 40 45

Tyr Ile Ala Leu Ala Gln Lys Ala Gln Lys Met Ala Ala Ile Met Phe
 50 55 60

Leu Leu Val Arg Glu Ile Asp Leu Pro Arg Ala Val Leu Ile Ala Asp
 65 70 75 80

Arg Leu Arg Met Leu Thr Lys Leu His
 85

<210> 9875

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9875

Leu Leu Arg Phe Trp Thr Lys Leu Met Arg Lys Tyr Ser Lys Ser Leu
 1 5 10 15

Thr Ala Arg Asn
 20

<210> 9876
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9876

Lys Leu Lys Leu Ile Lys Arg Tyr Met Arg Lys Tyr Lys Lys Leu Thr
 1 5 10 15

Arg Phe Leu Thr His Ala Ala Val Ala Arg Tyr Leu Lys Ser
 20 25 30

<210> 9877
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9877

Arg Phe Lys Ile Ile Lys Lys Phe Leu Lys Leu Tyr Lys Lys Glu Gln
 1 5 10 15

Leu Ile Ala Trp Ala Phe Leu Arg Glu Arg Glu Asn Phe Ala Leu Leu
 20 25 30

<210> 9878
 <211> 37
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9878

Tyr Leu Lys Ile Phe Cys Arg Tyr Ile Arg Arg Leu Arg Lys Gly Asn
 1 5 10 15

Arg Arg Ala Leu Leu Ser Ala Lys Leu Arg Leu Lys Gln Ile Pro Arg
 20 25 30

Ala Phe His Gln Gly
 35

<210> 9879
 <211> 48
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9879

Leu Phe Arg Met Phe Arg Lys Met Ile Arg Trp Leu Lys Arg Trp Ile
 1 5 10 15

Ile Lys Leu Lys Trp Lys Ala Met Leu His Leu Arg Lys Leu Pro Gln
 20 25 30

Tyr His Asn Arg Arg Pro Ala Phe Phe Leu Ala His Lys Lys Ala Leu
 35 40 45

<210> 9880
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9880

Lys Leu Arg Leu Ile Ser Arg Tyr Phe Lys Leu Leu Arg Pro Arg Leu
 1 5 10 15

Lys Ala Pro Tyr His
 20

<210> 9881
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9881

Met Phe Arg Leu Leu Lys Arg Trp Tyr Arg Arg Trp Arg Lys Ser Val
 1 5 10 15

Pro Leu Asp Thr Arg Leu Arg Asp Trp Leu Leu Phe Leu
 20 25

<210> 9882
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9882

Met Trp Lys Met Ile Lys Arg Leu Trp Arg Lys Ile Lys Lys Leu Lys
 1 5 10 15

Arg Lys Pro Ala Met Ala Gln Ala Ala Trp Met Gln Pro Leu Met Leu
 20 25 30

<210> 9883
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9883

Tyr Met Arg Met Leu Lys Arg Tyr Leu Arg Arg Phe Lys Ser Ala Tyr
 1 5 10 15

Leu Asp Phe Tyr Lys Trp Leu Val Pro Glu Ser Arg Arg Arg Arg Met
 20 25 30

Gln Ala Ala Arg Ala Leu Ala Arg
 35 40

<210> 9884
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9884

Arg Tyr Arg Trp Leu His Lys Phe Leu Arg Arg Leu Arg Arg Arg Trp
 1 5 10 15

Ala Ala Arg His Ala Ala Phe
 20

<210> 9885

<211> 61

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9885

Lys Leu Lys Met Tyr His Lys Phe Leu Arg Arg Trp Lys Thr Leu Arg
 1 5 10 15

Ala Val Ala Gly Leu His Leu Pro Asp Arg Leu Arg Ala Lys Trp His
 20 25 30

Lys Ala Arg Ala Lys Asn Arg Tyr Arg Tyr Glu Lys Ser Asn Ala Asp
 35 40 45

Pro Lys Arg Pro Cys Arg Pro Phe Phe Leu Pro Arg Ala
 50 55 60

<210> 9886

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9886

Lys Phe Lys Phe Tyr His Lys Phe Leu Arg Phe Leu Arg Arg Val Leu
 1 5 10 15

Lys Asp Cys Ile Ala Ala Ala
 20

<210> 9887

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9887

Lys Met Lys Ile Phe Lys Lys Trp Leu Lys Leu Leu Arg Pro Ala Gly
 1 5 10 15

Pro Ala Arg Ala Lys Ser Ala Arg Ala His Leu Ala Asn
 20 25

<210> 9888

<211> 72

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9888

Arg Leu Lys Leu Met Cys Arg Met Trp Arg Lys Ile Arg Lys Arg Ala
 1 5 10 15

Tyr Trp Phe Phe Glu Thr Ser Arg Leu Ala Ser Leu Lys Glu Pro Leu
 20 25 30

Phe Thr Glu Arg Lys Trp Ala Leu Lys Pro Leu Lys Ala Glu Arg Trp
 35 40 45

Lys Lys Lys Ser Gln Phe Val Thr Ile Lys Leu Trp Thr Ala Lys Met
 50 55 60

Arg Ala Leu Arg Met Ala Ala Ala
 65 70

<210> 9889

<211> 59

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9889

Lys Leu Arg Met Leu Lys Arg Tyr Phe Lys Arg Tyr Arg Ser Ala Ala
 1 5 10 15

Leu Ala Val Ala Ala Leu Val His Lys Glu Lys Asn Lys Gly Asn Gln

20

25

30

Thr Lys Ser Arg His Val Glu Ser Lys Ala Lys Leu Gln Ala Ala Lys
 35 40 45

Lys Leu Pro Leu Arg Asp Glu Leu Phe Lys Ser
 50 55

<210> 9890

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9890

Ile Met Arg Leu Tyr Lys Lys Tyr Phe Arg Phe Ile His Arg Ala Leu
 1 5 10 15

Leu Leu Lys Gln
 20

<210> 9891

<211> 37

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9891

Lys Ile Arg Phe Tyr Arg Lys Leu Tyr Lys Leu Leu Arg Arg Asp His
 1 5 10 15

Ala Asn Ala Leu Ala Leu Lys Arg Ala Asp Met Arg Cys Trp Lys His
 20 25 30

Ala Gly Cys Leu Ala
 35

<210> 9892

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9892

Arg Leu Arg Met Phe Ser Lys Phe Ile Arg Arg Leu Gln Ser Lys Arg
1 5 10 15

Asp Lys Asp Ala Ala Pro Thr Leu Ser Ala Gly Ile Leu Lys Leu Glu
20 25 30

Lys Arg Ala
35

<210> 9893

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9893

Arg Leu Lys Leu Ile Asn Arg Leu Tyr Lys Arg Met Lys Asn Arg Ala
1 5 10 15

Pro Ser Leu Ala Ala Gly Ala
20

<210> 9894

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9894

Ile Trp Lys Leu Ile Arg Arg Leu Tyr Arg Arg Leu Arg Ser Leu Ala
1 5 10 15

Leu Glu Lys Arg Lys Lys His Ala Lys Leu Met Leu Thr Trp Arg Gln
20 25 30

Trp Tyr

<210> 9895

<211> 47

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9895

Leu Leu Lys Leu Tyr Arg Lys Leu Leu Arg Met Tyr Thr Asn Lys Trp
1 5 10 15

Asp Leu Leu Leu Glu Arg Leu Pro Thr Leu Pro Leu Ile Arg Lys Lys
20 25 30

Asn Gln Leu Glu Leu Asn Arg Val Asp Gly Leu Ala Lys Leu Lys
35 40 45

<210> 9896

<211> 68

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9896

Arg Tyr Lys Leu Phe Lys Arg Tyr Leu Arg Phe Ile Arg Arg Gly Gly
1 5 10 15

His Ala Leu Val Ser Lys Arg Arg Arg Met Val Ala His Leu Ala Glu
20 25 30

Ile Leu Ile Ile Arg Cys Leu Lys Leu Pro Cys Ser Trp Lys Met Val
35 40 45

Asp Leu Ala Arg Ala Ala Leu Thr Lys Lys Glu His Lys Gln Ala Leu
50 55 60

Ala Asp Arg Lys
65

<210> 9897

<211> 46

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9897

Phe Phe Arg Leu Phe Arg Lys Leu Trp Arg Arg Trp Lys Arg Ala Lys
 1 5 10 15

Thr Leu Pro Ala Arg Met Asn Arg Pro Phe Ala Thr Leu Ala Lys Ala
 20 25 30

Met Ser Ala His Lys Thr Leu Tyr Leu Asn His Glu Leu Leu
 35 40 45

<210> 9898
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9898

Lys Leu Lys Leu Leu Asn Lys Leu Met Lys Ile Ile Thr Asn Ala Trp
 1 5 10 15

Arg Gly Leu Cys Arg Lys Arg Phe Tyr Arg Ile Leu Lys Arg Lys Leu
 20 25 30

Met Leu Val Tyr Asn Ile Ala Lys
 35 40

<210> 9899
 <211> 38
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9899

Arg Leu Arg Leu Leu Arg Lys Ile Met Lys Lys Ile Gln His Arg Arg
 1 5 10 15

Leu Glu Ala Lys Ala Asp Lys Lys Thr Asn Lys Glu Ala Ala Ala Ser
 20 25 30

Trp Gly Ser Arg Ala Ala
 35

<210> 9900

<211> 60
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9900

Arg Tyr Arg Trp Met Gln Arg Phe Phe Lys Lys Leu Asn Arg Glu Ala
 1 5 10 15

Arg Ala Ile Ala Lys His Lys Leu Met Val Leu Cys Trp Tyr Leu Lys
 20 25 30

Ala Lys Leu Ala Lys Val Ala Ile Gly Ile Lys Leu Lys Ala Ile Cys
 35 40 45

Val His Lys Trp Lys Ala Arg Leu Lys Pro Lys Trp
 50 55 60

<210> 9901
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9901

Lys Leu Lys Leu Trp Thr Arg Leu Leu Lys Leu Leu Arg Arg Trp Ala
 1 5 10 15

Met Asp Leu Lys Ala Val Ser
 20

<210> 9902
 <211> 49
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9902

Trp Tyr Arg Leu Phe Arg Lys Leu Phe Arg Phe Phe Cys Arg Phe His
 1 5 10 15

Asn Leu Asp Arg Val Glu Arg Lys Ala Ala Leu Leu Asn Leu Leu Lys

20

25

30

Asn Val Arg Leu Thr Leu Ala Gly Met Lys Ala Arg Leu Trp Ala Lys
 35 40 45

Ser

<210> 9903

<211> 98

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9903

Phe Leu Arg Leu Leu Arg Lys Leu Phe Arg Lys Trp Gln Lys Gln Val
 1 5 10 15

Ala Leu Trp Lys Ala Arg Asp Val Ser Glu Thr Tyr Arg Lys Leu Leu
 20 25 30

Gln Ile Pro Met Thr Arg Cys Lys Lys Leu Ala Ile Cys Asp Ala Thr
 35 40 45

Met Glu Lys Lys Thr Tyr Lys Ala Tyr Leu Leu Leu Cys Leu Arg Lys
 50 55 60

Val Leu Leu Arg Thr Gly Lys Gly Arg Lys Leu Lys Lys Ala Lys Arg
 65 70 75 80

Asp Val Arg Leu Phe Thr Pro Leu Gln Lys Lys Tyr Gly Leu Lys His
 85 90 95

Arg Leu

<210> 9904

<211> 64

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9904

Leu Phe Arg Phe Leu Arg Arg Trp Leu Arg Arg Leu Arg Lys Ala His
 1 5 10 15

Ala Arg Arg Gly Leu Ala Lys Lys Arg Leu Ala Cys Ala Ser Tyr Trp
 20 25 30

Leu Gln Ser Phe Asp Lys His Lys Cys Arg Arg Ser Ser Arg Ala Leu
 35 40 45

Gly Gly Cys Arg Lys Ala Val Phe Ser Pro Ser Lys Gly Gln Phe Ala
 50 55 60

<210> 9905

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9905

Phe Leu Arg Leu Leu Asn Arg Phe Leu Arg Leu Leu Arg Thr His Gly
 1 5 10 15

His Gln Ala Ala Lys Arg Leu Lys Val Ala Arg Ala Cys Ser Ala Arg
 20 25 30

Arg Lys

<210> 9906

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9906

Leu Tyr Arg Trp Leu Arg Arg Met Leu Lys Lys Leu Lys Lys Val Ala
 1 5 10 15

Phe Met Ile Ala Asn Arg His Ala Lys Ala Ala Leu Gly
 20 25

<210> 9907

<211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9907

Leu Phe Lys Met Leu Arg Arg Ile Phe Lys Arg Leu Lys Ser Arg Met
 1 5 10 15

Lys Ala Ala Leu Trp Cys Trp Pro Val Gly Ala Arg Trp Lys Gly Ser
 20 25 30

Leu Leu

<210> 9908
 <211> 42
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9908

Leu Trp Arg Met Leu Pro Lys Ile Phe Lys Ile Leu Arg Lys Arg Asn
 1 5 10 15

Leu Leu Ala Arg Leu Val Trp Ala Lys His His Tyr Asp Tyr Leu Arg
 20 25 30

Ala Lys Asp Gly Arg Ala Met Ala Pro Leu
 35 40

<210> 9909
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9909

Lys Phe Lys Met Met Arg Lys Leu Phe Lys Lys Phe Thr Arg Val Asn
 1 5 10 15

Lys Leu Leu Pro Asp Ala Ala Ala Ala Leu Ala His Lys His Arg Leu

20

25

30

Ile Phe

<210> 9910

<211> 45

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9910

Leu Ile Lys Ile Phe Arg Lys Phe Leu Lys Lys Met Asn Arg Ala Lys
 1 5 10 15

Thr Gln Ala Arg Leu Ala Gln Asp Ala Ala Thr Lys Ala Ala Arg Tyr
 20 25 30

Leu Ala Arg Met Lys Ala Arg Arg Tyr Leu Val Tyr Arg
 35 40 45

<210> 9911

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9911

Phe Met Lys Tyr Phe Cys Arg Leu Phe Lys Arg Met Lys Cys Arg Ile
 1 5 10 15

Leu Ala Ala Asn Glu Trp Tyr Leu Asn Arg Leu Arg Lys Lys Ile Leu
 20 25 30

Ala Leu

<210> 9912

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9912

Met Ile Lys Leu Met Gln Lys Met Trp Lys Met Trp Ser Lys Arg Ala
 1 5 10 15

Ala Lys Arg Arg Asn Leu Arg His Ala Glu Ala Ala Arg Lys Ala Leu
 20 25 30

Cys

<210> 9913

<211> 42

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9913

Trp Leu Arg Leu Phe Arg Arg Leu Leu Arg Phe Leu Arg Lys Tyr Leu
 1 5 10 15

Glu Lys Arg Lys His Gln Ala Trp Arg Arg Gln Gly Ala Ala Lys Lys
 20 25 30

Leu Gln Trp Arg Ala Cys Val Tyr Glu Arg
 35 40

<210> 9914

<211> 55

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9914

Arg Leu Lys Ile Met Thr Arg Leu Ile Arg Arg Trp Cys Lys Leu Met
 1 5 10 15

Ala Ala Leu Met Leu Tyr Lys Leu Arg Lys Leu Leu Tyr Ala Ala Val
 20 25 30

Leu Leu Gly Gly Phe Ala His Leu Glu Arg Pro Glu Lys Arg Arg Leu
 35 40 45

Phe Lys Ile Tyr Arg Ala Thr
 50 55

<210> 9915
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9915

Lys Leu Lys Ile Tyr Pro Lys Leu Phe Lys Leu Trp Lys Ser Arg Ala
 1 5 10 15

Ala Arg Met Tyr Val Arg Leu
 20

<210> 9916
 <211> 56
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9916

Arg Ile Arg Tyr Ile Lys Arg Ile Ile Arg Arg Trp His Arg Pro Asp
 1 5 10 15

Arg Phe Lys Phe Ala Lys Ser Ala Leu Leu Ile Leu Phe Lys Arg Lys
 20 25 30

Ala Lys Ala Phe Arg Leu Met Ala Glu Tyr Ala Val Ala Arg Ala Val
 35 40 45

Arg Arg Thr Glu Met Leu Ala Lys
 50 55

<210> 9917
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9917

Lys Leu Lys Trp Trp Cys Arg Leu Phe Lys Lys Leu Cys Lys Leu Lys
 1 5 10 15

Lys Ala Pro Asp Ala Ala His Leu Leu
 20 25

<210> 9918

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9918

Ile Met Lys Phe Trp Lys Arg Leu Leu Lys Arg Tyr Lys Cys Tyr Leu
 1 5 10 15

Leu Ile Cys Leu Leu Leu Leu Cys Lys Lys Ile Ser Asp Phe Arg Lys
 20 25 30

Arg Leu Ile
 35

<210> 9919

<211> 53

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9919

Arg Leu Lys Phe Trp Lys Lys Phe Leu Lys Lys Leu Lys Pro Ile Arg
 1 5 10 15

Leu Lys Met Tyr Ala Leu Lys Thr Leu Leu Pro Ala Phe Leu Val Arg
 20 25 30

Ala Lys Asn Arg Ala Asp Asp Arg Val Thr Met Gly Leu Pro Val Cys
 35 40 45

Pro Ala Arg Thr Lys
 50

<210> 9920

<211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9920

Leu Leu Arg Ile Trp Lys Arg Leu Leu Lys Leu Ile Gln Lys Ala Val
 1 5 10 15

Cys Leu Tyr Gln Glu Arg Asp Arg
 20

<210> 9921
 <211> 56
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9921

Arg Leu Lys Leu Phe Lys Arg Met Phe Lys Leu Tyr Arg Arg Leu Lys
 1 5 10 15

Gly Gly His Val His Ala Val Trp Lys Lys His Ile Arg Arg Ala Lys
 20 25 30

Gly Trp Phe Glu Arg Lys Tyr Cys Ser Arg Ala Leu Ala Leu Gln Trp
 35 40 45

Ala Leu Arg Leu Lys Asn Asn Glu
 50 55

<210> 9922
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9922

Lys Leu Lys Tyr Leu Lys Lys Tyr Leu Lys Phe Leu Thr Lys Val Ala
 1 5 10 15

Gln Asp Leu Gln Tyr Ala Lys Leu

20

<210> 9923
 <211> 26
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9923

Met Leu Arg Leu Leu Thr Arg Leu Leu Lys Lys Phe Arg Lys Glu His
 1 5 10 15

Leu Asn Ala Arg Leu Gly Leu Ser Cys Asp
 20 25

<210> 9924
 <211> 60
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9924

Leu Phe Lys Phe Tyr Ser Arg Leu Tyr Arg Phe Leu Lys Lys Asp Ala
 1 5 10 15

Met His Ala Arg Leu Ala His Asn Ile Trp Arg Asp Tyr Pro Arg Ala
 20 25 30

Lys Ile Arg Leu Ile Lys Asn Trp Ala Thr Ala Lys Lys Pro Leu Ala
 35 40 45

Ser Lys Asn Arg Leu Ala Lys Thr Arg Ala His Arg
 50 55 60

<210> 9925
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9925

Arg Leu Arg Phe Tyr Gln Lys Phe Phe Arg Phe Leu Ser Arg Arg Met

1 5 10 15

Arg Leu Leu Asp Phe Leu Gly Lys Gly Leu Thr Arg Cys Leu Ala Leu
20 25 30

Leu

<210> 9926
<211> 31
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 9926

Arg Trp Arg Tyr Leu Lys Lys Leu Trp Lys Leu Leu Asn Lys Trp Pro
1 5 10 15

Thr Leu Leu Ala Cys Thr Arg Arg Lys Ala Tyr Trp Lys Leu Ile
20 25 30

<210> 9927
<211> 34
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 9927

Tyr Tyr Lys Ile Leu Arg Arg Leu Trp Lys Lys Leu Arg Lys Arg Tyr
1 5 10 15

Val Leu Ala Thr Phe Met Ala Ser Ala Trp Lys Leu Gly Val Met Ala
20 25 30

Lys Leu

<210> 9928
<211> 53
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 9928

Leu Ile Arg Phe Ile His Lys Met Ile Arg Tyr Leu Arg Gln Ala Arg
1 5 10 15

Leu Asn Lys Lys Ala Arg Gln Gly Lys Leu Leu Ala Lys Arg Ile Lys
20 25 30

Leu Leu Asn Glu Ala Ser Arg Ala Pro Leu Ala Gln Lys Leu Gln Ala
35 40 45

Arg Ile Trp Ile Asp
50

<210> 9929

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9929

Leu Trp Lys Ile Leu Arg Lys Trp Leu Arg Arg Phe Gln Arg Leu Glu
1 5 10 15

Leu Leu Gly His Ala Ala Ala Pro Arg Leu Lys Glu
20 25

<210> 9930

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9930

Lys Trp Lys Phe Leu His Lys Met Leu Lys Leu Ile Arg Gln Arg Ala
1 5 10 15

Arg Ser Ala Trp Leu Arg
20

<210> 9931

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9931

Arg	Ile	Arg	Phe	Phe	Arg	Arg	Met	Phe	Lys	Met	Tyr	Gln	Thr	Ile	Ala
1				5					10					15	

Arg	Ala	Val	Leu	Leu	Ala	Ala	Arg	Leu	Arg	Pro	Lys
			20					25			

<210> 9932

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9932

Arg	Leu	Lys	Leu	Ile	Asn	Arg	Leu	Tyr	Arg	Lys	Phe	Arg	Pro	Pro	Leu
1				5					10					15	

Pro	Val	Leu	Val	Leu	Arg
				20	

<210> 9933

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9933

Tyr	Leu	Lys	Met	Ile	Arg	Arg	Leu	Phe	Arg	Leu	Tyr	Arg	Pro	Leu	Glu
1				5					10					15	

Leu	Ala	Arg	Ala	Lys	Pro	Lys
				20		

<210> 9934

<211> 72

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9934

Leu Tyr Lys Tyr Leu Asn Lys Trp Tyr Lys Lys Met Lys Arg Arg Ala
 1 5 10 15

Ala Pro Leu Ala Met Gly Ala Ala Leu Ala Arg Lys Gly Tyr Ala Arg
 20 25 30

Asp Lys Val Pro Arg Leu Asn Lys Asp Asp Leu Leu Arg Leu Cys Trp
 35 40 45

Gly Ile Arg Pro Lys Ala Arg Trp Lys Leu Ala Leu His Pro Leu Lys
 50 55 60

Ala Glu Arg Asn Pro Ala Leu Glu
 65 70

<210> 9935

<211> 39

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9935

Phe Leu Lys Leu Phe Gln Arg Phe Phe Lys Arg Leu Ser Arg Leu Arg
 1 5 10 15

Ser Glu Leu Cys Ala Lys Ile Ile Ala Ala Ala Asn Tyr Ala Gly Cys
 20 25 30

Lys Lys Ala Met Arg Lys Leu
 35

<210> 9936

<211> 79

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9936

Arg Leu Arg Ile Leu Cys Arg Trp Ile Arg Arg Leu Arg Arg Tyr Thr
 1 5 10 15

Ala Val Ile Ala Lys Lys Lys Leu Ile Asn Lys Leu Arg Lys Lys Ile
 20 25 30

Arg Lys Gly His Leu Arg Ile Asp Lys Ala Ala Tyr Ala Leu Phe Phe
 35 40 45

Arg Leu Trp Ala Gly Ala Val Lys Asp Tyr Leu Tyr Thr Met Lys Ile
 50 55 60

Ile Tyr Tyr Leu Tyr Lys Arg Val Leu Ala His Ala Val Leu Arg
 65 70 75

<210> 9937
 <211> 37
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9937

Arg Leu Arg Leu Trp Lys Arg Tyr Leu Lys Tyr Tyr Lys Arg Leu Arg
 1 5 10 15

Lys Arg Asn Ala Asp Ser Ser Trp Pro Leu Leu Leu Leu Arg Leu His
 20 25 30

Lys Ser Cys His Lys
 35

<210> 9938
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9938

Arg Tyr Lys Phe Phe Asn Lys Trp Leu Lys Ile Leu Lys Arg Arg Val
 1 5 10 15

Leu His Met Ala Ala
 20

<210> 9939

<211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9939

Met Leu Lys Leu Leu Lys Arg Trp Phe Arg Met Phe Lys Arg Glu Ala
 1 5 10 15

Lys Leu Ala Val Phe Lys Cys Lys Asn Lys Ala Ala Glu
 20 25

<210> 9940
 <211> 38
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9940

Leu Leu Lys Ile Leu Lys Lys Met Trp Lys Lys Phe Lys Lys Ala Ile
 1 5 10 15

Ser Gln Lys Ala Ala Gly Leu Leu Pro Glu Arg Gly Ala Glu Ser Lys
 20 25 30

Gln Asp Lys Pro Arg Ile
 35

<210> 9941
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9941

Leu Met Lys Trp Leu Arg Lys Leu Leu Arg Phe Met Arg Thr Arg Pro
 1 5 10 15

Asp Thr Ala Gln Arg Ala Ala Cys Lys Arg Leu Trp Lys Leu Ala Leu
 20 25 30

<210> 9942

<211> 26
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9942

Leu Leu Arg Phe Tyr Arg Lys Leu Met Lys Phe Leu Arg Lys Tyr Arg
 1 5 10 15

Ala Leu Ala Arg Lys Trp Lys Ala Gly Ser
 20 25

<210> 9943
 <211> 27
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9943

Lys Leu Arg Phe Ile Arg Lys Ile Leu Arg Met Tyr Arg Pro Ala Leu
 1 5 10 15

Thr Leu Arg Ala Ile His Gly Lys Arg His Leu
 20 25

<210> 9944
 <211> 50
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9944

Lys Trp Lys Leu Leu Gln Arg Phe Tyr Lys Arg Met Arg Arg Ala Arg
 1 5 10 15

Phe Val Tyr Leu Lys Leu Gly Leu Asp Ser Lys Arg Ser Val Val Cys
 20 25 30

Ala Asp Lys Arg Ala Lys Ala Leu Arg Glu Ala Glu Leu Gln Ile Met
 35 40 45

Arg Leu

50

<210> 9945
 <211> 37
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9945

Arg Tyr Lys Phe Phe Arg Arg Leu Met Arg Met Leu Lys Lys Cys Leu
 1 5 10 15

Gly Asp Lys Ser Asp Leu Ala Gly Leu Asn Arg Lys Val Ala Ala Arg
 20 25 30

Ala Gln Arg Gly Ser
 35

<210> 9946
 <211> 43
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9946

Met Phe Lys Trp Phe Arg Arg Ile Leu Arg Leu Ile Arg Lys Tyr Lys
 1 5 10 15

Ala Asp Ala Ile Ala Trp Gly Gly Arg Ala His Lys Val Leu Arg Cys
 20 25 30

Arg Leu Lys Asn Ala Trp Leu Lys Glu Arg Trp
 35 40

<210> 9947
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9947

Met Trp Lys Met Phe Arg Lys Leu Ile Lys Arg Tyr Lys Lys Leu Lys

<210>	9948
<211>	78
<212>	PRT
<213>	Artificial Sequence
<220>	
<223>	Computer-generated peptide variant
<400>	9948

Met Trp Lys Leu Leu Gln Lys Leu Leu Arg Arg Trp Cys Lys Phe Arg
1 5 10 15

Gln Gly Gly Lys Ala Ser Asp Lys Arg Ala Ala Lys Ser Ile Arg Lys
20 25 30

Gly Ala Gln Leu Arg Arg Ala Cys Lys Asp Phe Lys Phe Pro Arg Arg
35 40 45

Cys Ala Arg Ala Lys Leu Ala Leu Thr Val Ile Ile Asp Tyr Arg Tyr
50 55 60

Leu Ala His Tyr Leu Val Trp Lys Ala His Ile Arg Arg Thr
65 70 75

<210>	9949
<211>	49
<212>	PRT
<213>	Artificial Sequence
<220>	
<223>	Computer-generated peptide variant
<400>	9949

Leu Tyr Lys Leu Leu Gln Lys Met Phe Lys Trp Leu Ser His Leu Arg
1 5 10 15

Leu Thr Lys Arg Ala Glu Leu Ala Ala Leu Ser Lys Trp Lys Glu Val
20 25 30

Asp Lys Lys Gly Lys Arg Trp Ile Asp Ala Arg Ala His Arg Arg Lys
35 40 45

Cys

<210> 9950

<211> 68

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9950

Leu	Met	Lys	Ile	Phe	Gln	Arg	Leu	Tyr	Lys	Arg	Leu	Lys	Arg	Leu	Lys
1				5					10					15	

Lys	Pro	Ala	Met	Phe	Ala	Gly	Thr	Ser	Ala	Ala	Trp	Leu	Gln	Ala	Leu
			20					25					30		

Ala	Arg	Leu	Gln	Lys	Arg	Leu	Lys	Ser	Lys	Leu	His	Val	Met	Arg	Asn
		35					40					45			

Lys	Ile	Leu	Ala	Leu	Arg	Val	Trp	Asn	Arg	Lys	Leu	Glu	His	Arg	Glu
	50					55					60				

Ala	Leu	Leu	Met
65			

<210> 9951

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9951

Leu	Leu	Lys	Phe	Trp	Arg	Arg	Phe	Leu	Arg	Phe	Leu	Cys	Lys	Ser	Glu
1				5					10					15	

Ala	Ala	Ala	Arg	Ile
			20	

<210> 9952

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9952

Leu	Ile	Lys	Met	Phe	Lys	Arg	Phe	Trp	Lys	Leu	Leu	Asn	Asn	Leu	Leu
1				5				10						15	

Glu	Arg	Ala	Ala	Thr	Cys	Ser	Leu	Ala	Lys	Leu	Gly	Thr	Lys	Trp	Ala
			20					25					30		

Thr	Arg	Leu	Glu	Lys	Val	Tyr	Ala
		35				40	

<210> 9953

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9953

Lys	Phe	Lys	Leu	Phe	Arg	Arg	Phe	Phe	Arg	Lys	Leu	Lys	Gln	Trp	Trp
1				5				10						15	

Leu	His	Lys	His	Ala	Arg	Leu	Ala	Pro	Trp	Ala
			20				25			

<210> 9954

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9954

Arg	Met	Arg	Tyr	Leu	Arg	Lys	Phe	Tyr	Arg	Lys	Trp	Gln	Arg	Thr	Lys
1				5				10						15	

Asp	Trp	Ala	Phe	Ala	Leu	Phe	Ala	Leu
			20				25	

<210> 9955

<211> 63

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9955

Leu	Met	Arg	Trp	Tyr	His	Arg	Met	Leu	Arg	Lys	Phe	Lys	Lys	Ala	Glu
1				5					10					15	

Ala	Arg	His	Met	Leu	Ile	Ala	Leu	Leu	Asp	Ile	Gln	Ala	Glu	Lys	Lys
			20					25					30		

Lys	Ala	Gln	Ala	Arg	Val	Lys	Phe	Leu	Cys	Lys	Gln	Ala	Arg	Leu	Lys
		35					40					45			

Leu	Lys	Gln	Leu	Arg	Met	Leu	Trp	Gly	Trp	Arg	Ala	Ile	His	Asp
	50					55					60			

<210> 9956

<211> 65

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9956

Leu	Ile	Lys	Phe	Met	Cys	Lys	Tyr	Leu	Arg	Tyr	Leu	Ser	Lys	Ala	Arg
1				5					10					15	

Val	Leu	Asp	Lys	His	Arg	Trp	Lys	Ala	Ser	Ala	Ala	Arg	Gly	Cys	Arg
			20					25					30		

Leu	Thr	Lys	Arg	Ala	Arg	Phe	Ile	Phe	Ala	Asn	Val	Cys	Ala	Arg	Lys
		35					40					45			

Ile	Phe	Gly	Ile	Ile	Lys	Arg	Lys	Leu	Lys	Ala	Ala	Ala	Lys	Leu	Lys
	50					55					60				

Pro

65

<210> 9957

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9957

Leu Trp Arg Leu Leu Arg Arg Leu Ile Arg Leu Tyr Lys Arg Ala Ala
 1 5 10 15

Ile Ser Arg Arg Ala Lys Leu His
 20

<210> 9958

<211> 31

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9958

Met Tyr Lys Leu Leu Arg Arg Tyr Phe Lys Arg Leu Ser Lys Leu Ala
 1 5 10 15

Val Tyr Lys Leu Cys Cys Ile Leu Lys Leu Ala Arg Leu Trp His
 20 25 30

<210> 9959

<211> 59

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9959

Lys Phe Lys Phe Leu Lys Arg Met Leu Lys Phe Trp Lys Thr Lys Pro
 1 5 10 15

Lys Ala Tyr Thr Ala Thr Glu Gln Pro Leu Gly Leu Lys Ile Gly Val
 20 25 30

Leu Arg Leu Gln Lys Lys Lys Leu Pro Ala Leu Leu Arg Ile Ala Val
 35 40 45

Ala Arg Ser Lys Arg Arg Leu Val Gly Cys Lys
 50 55

<210> 9960

<211> 71

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9960

Arg Phe Arg Met Leu Pro Arg Trp Leu Lys Phe Phe Ser Lys Trp Arg
1 5 10 15

Trp Leu Leu Lys Lys Glu Ala Lys Ile Leu Arg Arg Ile Leu Ala Asp
20 25 30

Arg Cys Trp Gln Arg Asn Glu Lys Lys Leu Lys Arg Pro Trp Trp Ala
35 40 45

Thr Ala Leu Tyr Ala Ala Ala Phe His Ala Leu Arg Arg Arg Ser Asp
50 55 60

Glu His Lys Ile Ala Leu Val
65 70

<210> 9961

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9961

Leu Trp Arg Leu Trp Lys Lys Met Ile Lys Lys Phe Arg Arg His Leu
1 5 10 15

Ala Ala Tyr Met Arg Gln Tyr Gly Lys Ala Asp Leu
20 25

<210> 9962

<211> 39

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9962

Leu Trp Arg Phe Met Arg Arg Tyr Tyr Arg Arg Met Gln Gln Leu Leu
1 5 10 15

Leu Ala Val Met Lys Tyr Leu Arg Ile Gln Gln Lys Lys Ala Ala Arg
 20 25 30

Arg Leu Ile Trp Lys Val Ala
 35

<210> 9963

<211> 70

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9963

Lys Phe Lys Phe Met Lys Arg Leu Ile Lys Phe Phe Lys Lys Leu Asn
 1 5 10 15

Arg Arg Arg His Lys Arg Asn Met Arg Lys Lys Asn Asn Cys His Ala
 20 25 30

Ala Leu Leu Cys Gly Ala Glu Cys Asp Arg Ala Leu Leu Phe Lys Gly
 35 40 45

Trp Asn Ala Lys Asn Cys Ile Lys Arg Arg Leu Ala Ala Glu Trp Ala
 50 55 60

Leu His Ala Ala Val Val
 65 70

<210> 9964

<211> 43

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9964

Lys Ile Lys Tyr Leu Cys Lys Met Phe Lys Leu Phe Lys Thr Lys Ala
 1 5 10 15

Lys Leu Arg Phe Lys Ala Ala Asp Pro Ala Glu Lys Lys Leu Arg Ser
 20 25 30

Phe His Cys Ala Ser Ser Arg Arg Thr Leu Trp

35

40

<210> 9965

<211> 88

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9965

Leu Leu Arg Phe Phe Asn Arg Phe Leu Arg Ile Phe Arg Arg Leu Arg
 1 5 10 15

Ala Thr Lys Ala Arg Lys Ser Lys Thr Val Tyr Lys Leu Phe Lys Leu
 20 25 30

Cys Leu Lys Ser Ala Asp Ala Cys Lys Leu Ile Thr Gly Ser Arg Trp
 35 40 45

Arg Arg Gly Leu Gly Leu Arg Arg Lys Arg Trp Phe Trp Val Arg Val
 50 55 60

Lys Met Gln Ala Lys Ala Lys Gly Glu Ala Asn Lys Met Ala Ala Ala
 65 70 75 80

His Arg Phe Asp Ala Met Arg Ala
 85

<210> 9966

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9966

Arg Phe Arg Leu Phe Lys Lys Leu Leu Lys Arg Ile Arg Ser Ser Ala
 1 5 10 15

Leu Arg Leu Arg Cys Gly Ala
 20

<210> 9967

<211> 66

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9967

Arg Leu Lys Leu Leu Arg Arg Met Leu Arg Lys Met Thr Lys His Arg
1 5 10 15

Ile Arg Ser Asp Leu His Ala Pro Arg Gly Ser Leu Arg Ala Ala Ala
20 25 30

Arg Trp Asn Ser Met Met Ala Lys Trp Met Glu Leu Ala Leu Trp Ala
35 40 45

His Met His Arg Ala Ala Arg Ala Ala Asn Gln Ala Trp Asp Lys Trp
50 55 60

Lys Gln
65

<210> 9968

<211> 57

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9968

Arg Phe Lys Leu Met Arg Arg Leu Tyr Arg Lys Phe Ser Arg Lys Leu
1 5 10 15

Arg Leu Ala Arg Lys Asp Val Lys Ser Phe Lys Ile Tyr Ala Ser Gln
20 25 30

Asp Ala Leu Val Thr Thr Ala Leu Leu Asp Arg Lys Ile Thr Leu Ala
35 40 45

Asp Arg Phe Thr Leu Lys Ala Arg Ala
50 55

<210> 9969

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9969

Ile	Leu	Lys	Leu	Leu	Lys	Arg	Phe	Phe	Lys	Arg	Met	Lys	Arg	Gln	Ala
1				5					10					15	

Ala	Lys	Ala	Thr	Glu	Leu	His	Lys	Leu	Leu	Lys	Glu
			20					25			

<210> 9970

<211> 62

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9970

Arg	Leu	Arg	Leu	Tyr	Lys	Arg	Leu	Ile	Lys	Arg	Phe	Gln	Lys	Gly	Gly
1				5					10					15	

Lys	Ala	Leu	Ala	Lys	Lys	Ala	Ser	Arg	Tyr	Trp	Val	Phe	Lys	Leu	Ala
			20					25					30		

Arg	Leu	Ala	Pro	Trp	Lys	Pro	His	Asp	Leu	Arg	Ala	Val	Tyr	Asp	Ala
		35					40					45			

Lys	Lys	Phe	Ala	His	Asp	Asp	Ala	Phe	Gln	Asp	Lys	Leu	Lys
	50					55					60		

<210> 9971

<211> 54

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9971

Phe	Met	Arg	Phe	Trp	Lys	Arg	Phe	Tyr	Lys	Phe	Leu	His	Lys	Met	Asn
1				5					10					15	

Asp	Lys	Ala	Leu	Ala	Lys	Ser	Arg	Arg	Ala	Gly	Trp	Arg	Ala	Leu	Ala
			20					25					30		

Val	His	Leu	Asp	Asn	Leu	Val	Cys	Gln	Ala	Arg	Leu	Lys	Leu	Ala	Arg
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

35

40

45

Leu Trp Arg Ala Phe Glu
50

<210> 9972

<211> 66

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9972

Leu Phe Lys Phe Phe Arg Lys Tyr Leu Lys Lys Leu Arg Thr Leu Trp
1 5 10 15

Arg Asn Trp Ser Leu Ile Arg Ala Leu Ala Leu Leu Gln Lys Ala Leu
20 25 30

Ala Ala Tyr Lys Arg Arg Ala Glu Lys Lys His Pro Asn Phe Arg Leu
35 40 45

His Arg Gly Leu Cys Ser Leu Leu Lys Thr His Gln Asn Leu Glu Val
50 55 60

Arg Thr
65

<210> 9973

<211> 42

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9973

Leu Leu Lys Leu Ile Thr Lys Phe Met Arg Lys Leu Cys Gln Thr His
1 5 10 15

Leu Glu Lys Leu Thr Lys Thr Arg Glu Ala Ala Val Arg Leu Arg Gln
20 25 30

Glu Leu Asn Leu Ala Arg Tyr Arg Lys Leu
35 40

<210> 9974
 <211> 64
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9974

Lys Ile Arg Ile Met Lys Arg Phe Trp Arg Met Leu Arg Arg Phe Leu
 1 5 10 15

Pro Arg Arg Lys Leu Lys Leu Ala Trp Leu Trp Cys Asn Leu Lys Ala
 20 25 30

Phe Leu Arg Leu Leu Ala Ala Lys Phe Ala Lys Thr Arg Ser Cys Lys
 35 40 45

Arg Ser Leu Pro Asn Leu Met Pro Asn Ala Leu Leu Ile His Ser Val
 50 55 60

<210> 9975
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9975

Arg Phe Lys Ile Phe Lys Arg Phe Phe Lys Lys Leu Asn Lys Ala Ala
 1 5 10 15

Gly Arg Ser Ala Gln Ile Tyr Arg Lys Pro Ala Leu Met Leu Leu Leu
 20 25 30

Ala Asn Ala Arg
 35

<210> 9976
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9976

Lys Leu Lys Leu Tyr Lys Arg Leu Tyr Lys Leu Leu Thr Lys Arg Trp
 1 5 10 15

Lys Leu Glu Ala Val
 20

<210> 9977
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9977

Lys Met Lys Met Leu His Lys Leu Leu Arg Leu Leu Lys Lys Cys Ala
 1 5 10 15

Arg Asn Lys Glu Lys Val Val His Arg Ala Arg Lys Met Glu Gln Gln
 20 25 30

Pro Ala Arg Asp Glu Val His Ala
 35 40

<210> 9978
 <211> 53
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9978

Lys Met Lys Leu Trp Arg Arg Ile Met Lys Arg Phe Ser Arg Asp Leu
 1 5 10 15

Pro Ala Leu Ala Phe Thr Thr Ala Leu His Ser Ala Lys Ala Lys Ser
 20 25 30

His Phe Lys Ala Pro Lys Ser Trp Gln Leu Leu Leu Lys Leu Lys Arg
 35 40 45

Ala Pro Met Lys Thr
 50

<210> 9979

<211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9979

Lys Tyr Lys Leu Trp Cys Lys Met Phe Lys Lys Leu Lys His Ala Asn
 1 5 10 15

Tyr Cys Leu Ala Leu Ala Asp Leu
 20

<210> 9980
 <211> 65
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9980

Arg Phe Lys Leu Phe Arg Arg Leu Leu Arg Trp Tyr Lys Arg Lys Cys
 1 5 10 15

Ala Lys Arg Ala Arg Leu Ala Ala Ala Lys Ala Cys Asp Lys Gly Leu
 20 25 30

Asn Gly Val Ala Val Ser Arg Asp Lys Lys Leu Cys Ser Pro Asn Lys
 35 40 45

Ser Pro Ala Met Met Trp Leu Lys Val Ala Arg Arg Ala Tyr Asp Asp
 50 55 60

Gly
 65

<210> 9981
 <211> 74
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9981

Tyr Tyr Arg Ile Leu Arg Lys Phe Leu Arg Phe Trp Lys Lys Glu Leu

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<210> 9982
<211> 58
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant
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Lys Ile Arg Ile Phe Arg Arg Phe Tyr Lys Arg Tyr Lys Lys Tyr Glu
1 5 10 15

Gly Glu Gln Arg Asp Lys Leu Ala Leu Ala Phe Asn Ile Arg Ala Leu
20 25 30

Arg Arg Arg Cys Glu Arg Phe Leu Leu Tyr Leu Val Trp Ala Asp Ala
35 40 45

Val Val Lys Leu Val Gln Ala Leu Lys Lys
50 55

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<210> 9983
<211> 22
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant
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Tyr Met Arg Leu Leu Lys Lys Met Leu Arg Phe Trp Arg Arg Ala Thr
1 5 10 15

His Gly Ala Arg Leu Gln
20

<210> 9984
<211> 22
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 9984

Lys Trp Lys Tyr Phe Arg Arg Ile Leu Lys Lys Leu Ser Asn Ala Lys
1 5 10 15

Ile Leu Thr Ala Asp Leu
20

<210> 9985
<211> 49
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 9985

Lys Met Lys Ile Ile Lys Lys Leu Trp Arg Phe Leu Arg Lys Arg Trp
1 5 10 15

Trp Leu Asp Met Val Ala Asn Arg Ala Ala Asp Arg Leu His Val Ala
20 25 30

Ala Arg Arg Leu Tyr Ala Lys Trp Lys Glu Lys Thr Ala Lys Tyr Met
35 40 45

Ile

<210> 9986
<211> 26
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 9986

Trp Phe Arg Met Tyr Lys Lys Leu Tyr Lys Leu Phe Arg Arg Leu Asn
 1 5 10 15

Lys Arg Ala Arg Ala Pro Lys Leu Leu Ala
 20 25

<210> 9987
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9987

Lys Phe Arg Phe Trp Thr Arg Leu Phe Lys Leu Leu Lys Asn Asp Lys
 1 5 10 15

Asn Tyr Lys Trp Asn Ala Leu Lys Ala
 20 25

<210> 9988
 <211> 41
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9988

Lys Leu Arg Trp Leu Lys Lys Leu Ile Lys Arg Tyr Lys Lys Met Arg
 1 5 10 15

Leu Ile Ser Ala Pro Ala Tyr Leu Ala Ala Trp His Ala Gln Leu His
 20 25 30

Ala Arg Cys Met Cys Leu Leu Lys His
 35 40

<210> 9989
 <211> 53
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9989

Arg Phe Lys Leu Tyr His Lys Leu Tyr Lys Phe Leu Cys Pro Leu Asn
 1 5 10 15

Leu Arg Thr Tyr Leu His Trp Ala Ala Glu Leu Ile Arg Ala Phe Lys
 20 25 30

Leu Tyr Lys Arg Arg Lys Arg Ala Ala His Trp Phe Lys Arg Leu Met
 35 40 45

Asn Ala Ala Glu Arg
 50

<210> 9990
 <211> 60
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9990

Lys Leu Lys Tyr Phe Lys Lys Phe Met Lys Lys Met Lys Cys Arg Met
 1 5 10 15

Thr Met Leu Tyr Lys Asn Ala Leu Met Arg Arg Arg Phe Ala Ser Lys
 20 25 30

Ala Lys Ala Ser Trp Ala Phe Asp Leu Leu Trp Arg Leu Glu Leu Ala
 35 40 45

Ala Val His Ala Trp His Gln Ala Glu Glu Lys Ala
 50 55 60

<210> 9991
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9991

Ile Ile Arg Leu Leu Thr Lys Trp Met Lys Lys Leu Lys His Ala Leu
 1 5 10 15

Leu His Lys Gln Ala Glu Arg

20

<210> 9992
 <211> 67
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9992

Phe Leu Arg Tyr Phe Arg Arg Leu Leu Lys Lys Ile Cys Pro Lys Lys
 1 5 10 15

Ser Glu Asp Ala Val Ala Lys Lys Ala Arg Ala Leu Leu Val Lys Gly
 20 25 30

Ala Ile Leu Val Met Arg Leu Phe Leu Ile Lys Asn Asp Cys Met Arg
 35 40 45

Leu Met Arg Glu Lys Thr Thr Lys Ala Arg Arg Lys Cys Ala Glu Pro
 50 55 60

Tyr Tyr Leu
 65

<210> 9993
 <211> 44
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9993

Met Phe Lys Leu Ile Lys Lys Trp Phe Arg Leu Leu Thr Asn His Ala
 1 5 10 15

Glu Ala Leu Leu Lys Ala Arg Arg Arg His Gln Asp Asn Cys Ala Lys
 20 25 30

Gln Lys Leu Thr Val Ala Ser Ala Lys Arg Lys Leu
 35 40

<210> 9994
 <211> 58
 <212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9994

Arg Ile Lys Ile Leu Arg Lys Phe Ile Arg Lys Leu Arg Asn Met Leu
1 5 10 15

Lys Ala Lys Leu Ala Arg Lys Glu Ala Arg Asp Ile Leu Gly Met Tyr
20 25 30

Lys Thr Glu Arg Arg Leu Ala Ile Lys Met Arg Ala Ala Val Arg Leu
35 40 45

Pro Arg Leu Met Met Lys Leu Leu Arg Ala
50 55

<210> 9995

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9995

Arg Phe Arg Leu Phe Asn Lys Phe Phe Arg Leu Leu Thr Lys Ile Ser
1 5 10 15

Arg Ala Ala Ala Lys Asp Ser Arg Leu Leu Phe Ala
20 25

<210> 9996

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 9996

Phe Met Arg Leu Leu Lys Arg Phe Tyr Arg Phe Tyr His Lys Arg Ala
1 5 10 15

Leu Arg His Arg Asn Leu Leu Cys Arg Arg Lys Ala Gln Leu Leu Leu
20 25 30

<210> 9997
 <211> 56
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9997

Leu Phe Lys Tyr Tyr Thr Arg Ile Phe Arg Lys Leu His Arg Phe Leu
 1 5 10 15

Arg Gln Ala Arg His Lys Asn His Leu Leu Lys Leu Lys Ser Ala Lys
 20 25 30

Ala Lys Asp Arg Thr Lys Cys Thr Asp Leu Phe Val Asn Lys Trp Arg
 35 40 45

Arg Leu Ala Ala Glu Ile Leu Leu
 50 55

<210> 9998
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9998

Arg Phe Arg Trp Trp Lys Arg Ile Tyr Lys Arg Ile Lys Lys Leu Ala
 1 5 10 15

Phe Leu Ser Leu Asp Arg Leu Thr Ala Leu Ile His
 20 25

<210> 9999
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 9999

Leu Leu Lys Ile Phe Lys Arg Ile Leu Arg Phe Leu Arg Arg Asn Tyr
 1 5 10 15

Leu Ala Asp Leu Arg Glu Leu Ser Leu Lys Arg Ala Arg Pro Trp Leu
 20 25 30

His His Ala
 35

<210> 10000
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 10000

Arg Leu Arg Met Trp Arg Lys Leu Leu Lys Lys Tyr Lys Cys Leu Lys
 1 5 10 15

Arg Ala Asp Lys Ala Ala Pro Ala Lys Arg Ser Glu Phe Ala Gly Leu
 20 25 30

Ala Thr

<210> 10001
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 10001

Phe Trp Arg Met Trp Lys Arg Leu Leu Arg Arg Phe Lys Lys Thr Asn
 1 5 10 15

Leu Ala Lys Leu Pro His Ala His Leu Ala Ala Leu
 20 25

<210> 10002
 <211> 54
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 10002

Leu Leu Lys Met Trp Lys Arg Tyr Phe Arg Leu Leu Thr Ser Lys Ile
 1 5 10 15

Arg Arg Glu Asn Pro Ser Leu Asn Gly Lys Lys Lys Arg Ala Gln Phe
 20 25 30

Leu Leu Arg Ala His Leu Pro Lys His Gly Gly Cys Ala Ala Arg Gly
 35 40 45

Asn Arg Arg Gln Lys Ala
 50

<210> 10003
 <211> 46
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 10003

Lys Leu Arg Ile Phe His Lys Met Ile Arg Phe Phe His Arg Lys Val
 1 5 10 15

His Arg Lys Lys Lys Leu Ala His Ser Asn Leu Leu Arg Lys Asp Ala
 20 25 30

Asp Met Arg Gly Asn Thr Leu Ala Leu Leu Leu Lys Ala Thr
 35 40 45

<210> 10004
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 10004

Trp Tyr Arg Leu Trp His Lys Leu Leu Arg Lys Phe Lys Ser Arg Gly
 1 5 10 15

Leu Leu Arg Glu Thr Thr Tyr Lys Ala
 20 25

<210> 10005

<211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 10005

Leu Trp Arg Leu Phe Asn Arg Trp Leu Lys Leu Phe Ser Arg Leu Glu
 1 5 10 15

Thr Leu Trp Ala Tyr Leu Gln Pro Leu Lys Arg Pro Lys
 20 25

<210> 10006
 <211> 41
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 10006

Lys Phe Arg Leu Leu Lys Arg Leu Leu Lys Lys Leu Asn Arg Lys His
 1 5 10 15

Ala Glu Pro His Arg Ile Ala Ala Ala Cys Ala Asn His Lys His Trp
 20 25 30

Arg Tyr Ile Ala Ala Met Glu Lys Asn
 35 40

<210> 10007
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 10007

Arg Leu Lys Ile Tyr Thr Lys Tyr Tyr Lys Tyr Leu Arg Arg Leu Lys
 1 5 10 15

Leu Lys Lys His Leu Cys Leu Glu Cys Asn Asp Leu
 20 25

<210> 10008

<211> 61
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 10008

Lys Trp Lys Ile Phe Lys Lys Trp Trp Lys Lys Trp Cys Pro Thr Met
 1 5 10 15

Pro Leu Leu Thr Ala Ala Arg Lys Trp Cys Lys Ala Pro Cys Gln Leu
 20 25 30

His Leu Arg Ala Gly Leu Trp Asp Ala Ala Cys Lys Lys Ala Lys Arg
 35 40 45

Arg Lys Arg Phe Thr Ile Ala Leu Leu Leu Arg Arg Ala
 50 55 60

<210> 10009
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 10009

Leu Leu Arg Phe Met Lys Arg Phe Trp Lys Arg Phe Arg Arg Ala Lys
 1 5 10 15

Ala Ser Arg Ala Arg Ala Leu Gln Phe Cys Gln Ile Pro Cys
 20 25 30

<210> 10010
 <211> 27
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 10010

Ile Ile Arg Leu Leu Arg Arg Met Leu Arg Met Ile Ser Arg Arg Val
 1 5 10 15

Leu Lys Met Thr Ala Cys Ala Gly Lys Leu Tyr

20

25

<210> 10011
 <211> 64
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 10011

Arg Leu Lys Met Leu Arg Lys Tyr Leu Lys Arg Leu Cys Arg Arg Arg
 1 5 10 15

Met Lys Leu Lys Thr Asn Ala Tyr Glu Thr His Ile Lys Arg Thr Tyr
 20 25 30

Trp Met Gln Tyr Cys Glu Glu Lys Gln Ala Ala Leu Arg Leu Leu Lys
 35 40 45

Ala Pro Ala Cys Lys Asp Lys Pro Ala Ala Phe Leu Ala Ala Ile Leu
 50 55 60

<210> 10012
 <211> 31
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 10012

Leu Tyr Lys Leu Tyr Thr Lys Met Tyr Arg Phe Leu Asn Arg Leu Gln
 1 5 10 15

Lys His Pro Ala Arg Ile Lys Arg Ala Glu Leu Leu Val Arg Lys
 20 25 30

<210> 10013
 <211> 58
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 10013

Lys Trp Lys Trp Phe His Lys Ile Leu Arg Leu Leu Pro Lys Ala Leu

Arg Leu Lys Phe Tyr Lys Lys Phe Leu Arg Leu Leu Arg His Ala Leu
1 5 10 15

Gln Ala Arg Lys Asn Leu Asp Phe Phe Arg His Tyr Lys Pro Lys Lys
20 25 30

Trp Gly Asp Leu Arg Cys Ala Val Trp Leu Lys Asp Cys
35 40 45

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<210> 10015
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 10015
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Arg Met Lys Trp Phe His Arg Leu Leu Arg Leu Tyr Lys Lys Leu Lys
1 5 10 15

Asn Trp His Leu
20

<210>	10016
<211>	34
<212>	PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 10016

Arg	Leu	Arg	Phe	Phe	Thr	Lys	Phe	Phe	Arg	Trp	Tyr	Lys	Arg	Leu	Glu
1				5					10					15	

Ala	Leu	Lys	Arg	His	Ala	Trp	Arg	Leu	Asp	Ser	Gly	His	Leu	Arg	Leu
			20					25					30		

Lys Gln

<210> 10017

<211> 43

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 10017

Met	Met	Lys	Phe	Ile	Arg	Arg	Ile	Ile	Lys	Arg	Leu	Arg	Pro	Ser	Leu
1				5					10					15	

Leu	Asn	Tyr	Ala	Ala	Lys	Glu	Glu	Ala	Asp	Ala	Arg	Lys	Ile	Lys	Ser
			20					25					30		

Ile	Ala	Leu	Trp	Leu	Lys	Leu	Ile	Leu	Arg	Phe
		35					40			

<210> 10018

<211> 43

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 10018

Lys	Leu	Lys	Trp	Leu	Arg	Lys	Ile	Tyr	Arg	Tyr	Leu	Gln	Asn	Lys	Arg
1				5					10					15	

Arg	Leu	Asp	Arg	Arg	Val	Tyr	Arg	Lys	Val	Thr	His	Arg	Trp	Leu	Pro
			20					25					30		

Ala Phe Trp Ala Asn Ala Leu Leu Thr Lys Gly
 35 40

<210> 10019
 <211> 41
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 10019

Arg Leu Lys Trp Leu Lys Lys Leu Met Arg Phe Tyr Arg Lys Ala Asp
 1 5 10 15

Lys His Cys Gln Ala Leu Tyr Leu Glu Arg Leu Leu Asn Arg Arg Phe
 20 25 30

Leu Tyr Leu Ser Thr Val Phe Met Lys
 35 40

<210> 10020
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 10020

Trp Met Arg Tyr Leu Lys Arg Leu Tyr Arg Met Tyr Arg Arg Asn Ala
 1 5 10 15

Tyr Leu Leu Tyr Asp Ala Ala Lys Met Val Ala Lys
 20 25

<210> 10021
 <211> 56
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 10021

Leu Leu Lys Leu Leu Arg Arg Leu Tyr Arg Lys Met Asn Pro His Ala
 1 5 10 15

Ser Ala Asn Ser Cys Cys Ala Cys Ala His Phe Lys Trp Ala Lys Ala
 20 25 30

Lys Asn Glu Cys Leu Ala Leu Trp Lys Ile Lys Arg Lys His Thr His
 35 40 45

Tyr Lys Pro His Leu Lys Ala Leu
 50 55

<210> 10022
 <211> 27
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 10022

Ile Leu Lys Ile Phe Lys Arg Tyr Trp Arg Leu Ile Lys Arg Arg Lys
 1 5 10 15

Leu Tyr Leu Leu Pro Thr Thr Leu Met Pro Ala
 20 25

<210> 10023
 <211> 69
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 10023

Met Leu Arg Tyr Leu Arg Lys Leu Met Lys Arg Leu Thr Thr Tyr Arg
 1 5 10 15

Trp Lys Ala His Thr Arg Asn Gln Lys Leu Ala Phe Lys Lys Arg Leu
 20 25 30

Val Ile Arg Val Arg Ala Arg Leu Arg Glu Leu Pro Arg His Ala Leu
 35 40 45

Ala Tyr Leu Ile Arg Gly Pro Leu Thr Tyr Leu Tyr Lys His Leu Gln
 50 55 60

Gly Lys Thr Leu Ala

65

<210> 10024
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 10024

Leu Ile Lys Phe Tyr Asn Arg Trp Leu Arg Arg Phe Pro Ser Lys Ala
 1 5 10 15

Lys Leu Arg Ser Lys Leu Cys Ser Leu
 20 25

<210> 10025
 <211> 87
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 10025

Leu Trp Lys Tyr Met Arg Lys Leu Trp Lys Ile Phe Lys Asn Gln Cys
 1 5 10 15

Ala Lys Asp Arg Glu Met Ala Ala Arg Arg Lys Ile Tyr Ser Tyr Arg
 20 25 30

Pro Arg Val Leu Arg Cys Ala Ala Leu Arg Leu Lys Arg Ala Asp Lys
 35 40 45

Met Pro Ala Leu Ser Lys Lys Ala Arg His Leu Arg His Lys Cys Leu
 50 55 60

Ser His Ser Leu Trp Leu Glu Ala Ala Arg Leu Gly Lys Lys Ala Phe
 65 70 75 80

Ala Pro Arg Leu Trp Lys Lys
 85

<210> 10026
 <211> 25
 <212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 10026

Trp	Trp	Lys	Tyr	Met	Lys	Lys	Phe	Trp	Arg	Leu	Trp	Arg	Arg	Arg	Lys
1				5				10						15	

Phe	Ala	Ala	Leu	Leu	Ser	Leu	Trp	Cys
			20				25	

<210> 10027

<211> 31

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 10027

Arg	Leu	Arg	Tyr	Leu	Arg	Lys	Tyr	Ile	Lys	Lys	Leu	Thr	His	Arg	Tyr
1				5				10						15	

Lys	Glu	Arg	Thr	Arg	Ala	Arg	Ala	Thr	Ala	Val	Phe	Leu	Met	Leu
			20				25						30	

<210> 10028

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 10028

Arg	Phe	Lys	Met	Phe	Pro	Arg	Phe	Leu	Lys	Leu	Leu	Arg	Gln	Gln	Trp
1				5				10						15	

Glu	Ala	Ser	Leu	Leu	Lys	Ala	Val	Ile	Arg	Lys	Trp	Lys	Arg	Thr	Gln
			20				25						30		

Glu	Ala	Asp	Ala	Phe	Arg	Arg	Leu
		35				40	

<210> 10029

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 10029

Lys	Phe	Lys	Leu	Phe	His	Lys	Trp	Phe	Arg	Trp	Tyr	Lys	Arg	Arg	Gly
1				5					10					15	

Arg	Phe	Glu	Ala	Leu	Trp	Arg	Lys	Tyr	Leu	Ala	Pro	Val	Arg	Pro	Ala
			20					25					30		

Leu Leu

<210> 10030

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 10030

Lys	Phe	Lys	Tyr	Leu	Gln	Lys	Leu	Met	Arg	Lys	Leu	Ser	Arg	Ala	Val
1				5					10					15	

Ala	Lys	Gly	Arg	Leu	Leu	Leu	Leu	Tyr	Ser	Leu	Gly	Arg	Phe	Leu	Val
			20					25					30		

Cys

<210> 10031

<211> 44

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 10031

Arg	Phe	Arg	Ile	Leu	Arg	Lys	Leu	Phe	Lys	Lys	Leu	His	Lys	Ala	Arg
1				5					10					15	

Ser	Asp	Met	Lys	Ala	Glu	Phe	Leu	Arg	Leu	Arg	Ala	Asp	Leu	Met	His
			20					25					30		

Asn Ala Asp Gln Ile Asn Leu Leu Arg Asn Ala Tyr
 35 40

<210> 10032
 <211> 53
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 10032

Phe Ile Arg Tyr Phe Gln Arg Leu Leu Lys Trp Trp Arg Thr Ala Leu
 1 5 10 15

Arg Tyr Arg Ala Gln Asn Lys Met Lys Thr Ala Ser Ser Ile Leu Leu
 20 25 30

Gln Lys Leu Lys Arg Trp Leu Ala Leu Thr Leu Lys Leu Lys Pro Phe
 35 40 45

Leu Lys Gln Asp Lys
 50

<210> 10033
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 10033

Leu Trp Arg Phe Phe Gln Lys Leu Trp Arg Arg Phe Lys Arg Lys Ala
 1 5 10 15

Ala Asn Ala Glu
 20

<210> 10034
 <211> 45
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 10034

Arg Leu Lys Trp Trp Cys Lys Ile Leu Arg Lys Leu Arg Arg Asn Leu
 1 5 10 15

His Ala Arg Leu Arg Phe Leu Arg Gly Ala Thr Phe Arg Ala Ala Lys
 20 25 30

Met Ser Tyr Gln Lys Gln Ala Ala Arg Arg Leu Gly Asn
 35 40 45

<210> 10035
 <211> 57
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 10035

Tyr Phe Arg Leu Met Lys Arg Trp Met Arg Lys Phe Ser Lys Pro Lys
 1 5 10 15

Arg Ala Lys Leu Leu Arg Leu Arg Arg Leu Val Asn Leu Cys Pro Arg
 20 25 30

Leu Leu Arg Cys Cys Gln Cys Lys Arg Met Glu Leu Lys Leu Cys Ile
 35 40 45

Leu Arg Ala Ala His Leu Arg Gln Leu
 50 55

<210> 10036
 <211> 80
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 10036

Lys Trp Arg Phe Trp Lys Arg Leu Leu Arg Lys Leu Thr Lys Arg Ala
 1 5 10 15

Pro Ala Leu Met Ala Ala Asn Tyr Lys Phe Ala Arg Leu Ala Ala Arg
 20 25 30

Thr Ala Ala Asn Leu Asp Gln Val Leu Leu Asp Ile Ile Cys His Ala

35

40

45

Gly Val Tyr Lys Lys Lys Leu Lys Phe Leu Lys Phe Gly Glu Arg Leu
 50 55 60

Val Lys Leu Lys Pro Gln Ile Cys Leu Val Arg Arg Thr Gly Met Pro
 65 70 75 80

<210> 10037

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 10037

Lys Leu Arg Leu Trp Gln Arg Ile Leu Lys Phe Leu Arg Lys Ser Asp
 1 5 10 15

Leu Leu Arg Asp Arg Pro Cys Arg Phe Ala Arg Leu Ser Gln Ala Arg
 20 25 30

<210> 10038

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 10038

Leu Met Lys Tyr Trp Asn Arg Tyr Leu Lys Trp Phe Arg Arg Lys Arg
 1 5 10 15

Gln Ala Ala Leu Lys Leu Glu Leu Ser Lys Ile
 20 25

<210> 10039

<211> 41

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 10039

Ile Tyr Arg Tyr Leu Gln Arg Leu Met Arg Leu Phe Ser Pro Trp Leu

1 5 10 15

Arg Val Ser Lys Arg Leu Lys Met Arg Phe Lys Leu Leu Ala Lys Arg
 20 25 30

Leu Arg Ser Leu Gly Met Tyr Lys Gln
35 40

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<210> 10040
<211> 70
<212> PRT
<213> Artificial Sequence
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<220>
<223> Computer-generated peptide variant

<400> 10040

Lys Tyr Lys Leu Leu Arg Arg Leu Leu Lys Leu Ile His Lys Gln Gly
1 5 10 15

Ser Leu Ala Tyr Cys Thr Tyr Ala Lys Arg Met Lys Ala Gly Thr Leu
20 25 30

Pro Lys Ala Cys Ala Lys Arg Asn Leu Val Met Asp Ala Lys Tyr Asp
35 40 45

Ile His Arg Ala His Lys Tyr Ala Lys Pro Lys Lys Leu Met Leu Asp
50 55 60

Arg Asn Ala Arg Lys Ser
65 70

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<210> 10041
<211> 29
<212> PRT
<213> Artificial Sequence
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<220>
<223> Computer-generated peptide variant

<400> 10041

Arg Phe Lys Tyr Phe Lys Arg Leu Tyr Lys Arg Trp Pro Arg Lys Leu
1 5 10 15

Leu Leu Arg Ala Glu His Ala Leu Tyr Val Leu Leu Leu
20 25

<210> 10042
 <211> 38
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 10042

Arg Leu Arg Tyr Ile Arg Lys Phe Trp Arg Arg Met Lys Arg Leu Cys
 1 5 10 15

Lys Ala Ala Ala Arg Phe Phe Met Ala Ala Cys Leu Cys Ser Lys Arg
 20 25 30

Leu Gln Pro Val Cys Gly
 35

<210> 10043
 <211> 47
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 10043

Lys Phe Lys Phe Leu Lys Lys Trp Leu Arg Arg Trp Lys Arg Met Glu
 1 5 10 15

Ala Lys Leu Lys Ala Lys Ala Gly Lys Leu Ala Lys Leu Leu Lys Arg
 20 25 30

Leu Gln Tyr Asn Met Val Leu Val Arg Pro His Pro Leu Ser Lys
 35 40 45

<210> 10044
 <211> 45
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 10044

Arg Ile Arg Leu Met Lys Lys Phe Tyr Arg Leu Tyr Lys His Val Tyr
 1 5 10 15

Lys Thr Ser Pro Ala Pro Met Lys Ala Arg Ala Ile Ala Lys Phe Lys
 20 25 30

Ile Ala Leu Arg Leu Ala His Asp Val Ala Arg Arg Arg
 35 40 45

<210> 10045

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 10045

Phe Phe Lys Leu Phe Arg Arg Leu Leu Lys Arg Leu Cys Thr Gly Ala
 1 5 10 15

Lys Leu Arg Ser Val Leu Asn Ala Lys Asn Lys
 20 25

<210> 10046

<211> 47

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 10046

Leu Phe Arg Met Leu Ser Arg Phe Met Lys Arg Phe Asn Cys Lys Leu
 1 5 10 15

Ala Ala Lys Leu Arg Gln Lys Arg Arg Cys Lys Arg Ala Leu Arg Ala
 20 25 30

His Lys Ala Leu Ala Arg Arg Lys Pro Glu Ala Arg Leu Gln Ile
 35 40 45

<210> 10047

<211> 44

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 10047

Arg Leu Arg Ile Leu Pro Lys Phe Ile Arg Lys Met His Cys Pro Arg
 1 5 10 15

Ala Tyr Pro Lys Val Gly Ile Leu Lys Gln Ala His Leu Arg Lys Pro
 20 25 30

Ala Arg Thr Ala Leu Ala Ala Lys Leu Arg Arg Arg
 35 40

<210> 10048

<211> 88

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 10048

Leu Trp Lys Phe Met Cys Arg Met Phe Lys Arg Leu Lys Lys Phe Arg
 1 5 10 15

Cys Leu His Val Lys Arg Thr Pro Val Met Leu Ser Trp Glu Leu Val
 20 25 30

Met Ser Lys Ala Ile Gly Arg Tyr Ala Lys Leu Leu Lys Glu Tyr Lys
 35 40 45

Leu Leu His Ala Ile Gln Arg Ser Lys Lys Lys Ala Ile Lys Ala Leu
 50 55 60

Gly Ala Arg Leu His Asn Ala Ala Leu Leu Glu Arg Cys Arg Cys Ala
 65 70 75 80

Leu Arg Met Gly Lys Tyr Ala Leu
 85

<210> 10049

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 10049

Arg Met Lys Tyr Ile Arg Arg Ile Leu Lys Met Trp Gln Thr Ser His

1 5 10 15

Leu Val Val Arg Ala Leu Ala Ala Thr Lys Gln Leu Ala Leu Lys Thr
 20 25 30

Ala Tyr Met Phe Ala Lys Leu Lys
 35 40

<210> 10050
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 10050

Lys Phe Arg Trp Leu Lys Lys Met Ile Lys Tyr Leu Ser Ser Arg Lys
 1 5 10 15

Glu Leu Leu Val Phe Ala Leu
 20

<210> 10051
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 10051

Arg Tyr Lys Leu Trp Lys Arg Phe Leu Lys Lys Leu Arg Gln Ser Pro
 1 5 10 15

Ala Ala Ser Trp
 20

<210> 10052
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 10052

Lys Tyr Arg Phe Leu Lys Arg Met Trp Arg Lys Leu Asn His Ala Leu

1 5 10 15

Ala Leu Leu Ser
20

<210> 10053
<211> 37
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 10053

Lys Met Arg Phe Leu Ser Arg Trp Leu Arg Tyr Tyr Lys Arg Leu Ala
1 5 10 15

Met Gln Leu Asp Ala Ser Arg Trp Ala Lys Arg Lys Leu Ala Asn Lys
20 25 30

Asp Gly Arg Gln Ser
35

<210> 10054
<211> 26
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 10054

Phe Met Lys Tyr Leu Lys Arg Leu Leu Arg Lys Phe Arg Lys Arg Ala
1 5 10 15

Glu Leu Ala Arg Asn Val Tyr Met Leu Cys
20 25

<210> 10055
<211> 37
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 10055

Met Met Lys Tyr Leu Ser Lys Tyr Tyr Arg Lys Phe Lys Arg Trp Ala

Ala Gly Arg Phe Ala Arg Asp Trp Lys Ala Leu Val Ala Ser Lys Gln

20 25 30

Leu Ala Met Ala Lys
35

<210>	10056
<211>	57
<212>	PRT
<213>	Artificial Sequence

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<220>
<223> Computer-generated peptide variant
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<400> 10056

Leu Leu Lys Leu Ile Cys Arg Phe Leu Lys Arg Leu Lys Cys Phe Met
1 5 10 15

Lys Pro Cys His Leu Phe His Arg His Asn Thr Arg Trp Leu Leu Leu
20 25 30

Val Val Phe Leu Ala Asp Ile Ala Arg Cys Ala Phe Val Ala Arg Arg
35 40 45

Arg Lys Lys Asp Ile Arg Arg Lys Lys
50 55

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<210> 10057
<211> 62
<212> PRT
<213> Artificial Sequence
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<220>
<223> Computer-generated peptide variant

<400> 10057

Arg Leu Lys Ile Phe Lys Lys Phe Tyr Arg Tyr Leu Arg Cys Arg Gln
1 5 10 15

Gly Arg Gln Thr Leu Ala Ala Ala Lys Lys Ala Met Ala Gln Arg Arg
20 25 30

Ala Lys Glu Arg Ala Leu Ser Arg Asn Ala Glu Leu Arg Ala Glu Ala
35 40 45

Asn Ala Thr Tyr Ala Val Ala Lys Trp Glu Pro Cys Ala Lys
 50 55 60

<210> 10058
 <211> 56
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 10058

Ile Tyr Lys Leu Tyr Lys Lys Phe Leu Arg Arg Ile Arg Arg Pro Arg
 1 5 10 15

Ala Arg Leu Arg Ala Lys Arg Met Leu Arg Val Glu Phe Leu Leu Lys
 20 25 30

Leu Asn Arg Val Pro Ala Phe Ile Lys Gln Leu Ala Tyr Val Leu Glu
 35 40 45

Lys Arg Ile Cys Gly His Trp Leu
 50 55

<210> 10059
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 10059

Phe Leu Arg Met Phe Lys Lys Leu Leu Arg Trp Leu Ser Pro Ala Lys
 1 5 10 15

Ala Thr Ala Lys Ser Cys Leu Ile Arg Tyr Arg Met
 20 25

<210> 10060
 <211> 55
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 10060

Tyr Leu Arg Trp Ile Ser Arg Met Leu Arg Lys Phe His Arg Leu Leu
 1 5 10 15

Ala Cys Arg Arg Asp Gly Arg Lys Leu Asn Lys Gly Leu Trp His Arg
 20 25 30

Ala Asp Cys Lys Trp Ile Ala Ile Gly Leu Arg Lys Lys Phe Arg Lys
 35 40 45

Leu Glu Lys Leu Thr Leu Cys
 50 55

<210> 10061
 <211> 68
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 10061

Lys Met Lys Met Ile His Lys Leu Leu Lys Phe Leu Lys Arg His Phe
 1 5 10 15

Leu Ala Arg Ala Pro Pro His Ala Trp Arg Leu Leu Thr Ala Ala Cys
 20 25 30

Gln Glu Lys Leu Ser Thr Lys Cys Arg Arg Ile Leu Thr Ser Lys Phe
 35 40 45

Lys Lys Leu Thr Ile Ala Ala Lys Glu Tyr Pro Leu Leu Arg Asp Lys
 50 55 60

Trp Trp Leu Ala
 65

<210> 10062
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 10062

Arg Tyr Arg Leu Phe Cys Lys Ile Trp Lys Leu Met Cys Arg Leu Ser

1 5 10 15

Leu Lys Ala Ser Gln Leu Leu Thr Arg
20 25

<210> 10063
<211> 51
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 10063

Arg Leu Lys Ile Leu Lys Lys Phe Phe Arg Arg Phe Cys Arg Met Val
1 5 10 15

Lys Lys Leu Lys Phe Pro Ala Ala Ala Gln Lys Ala Val Cys Ala Thr
20 25 30

Leu Arg Leu Glu Met Val Leu Phe Ala Ala Leu Arg His Phe Arg His
35 40 45

Pro Lys Ala
50

<210> 10064
<211> 33
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 10064

Phe Leu Arg Phe Leu Arg Lys Phe Trp Lys Lys Leu Pro Pro Leu Arg
1 5 10 15

Pro Ala Gly Ala Arg Arg Arg Arg Leu Lys Arg Ala Thr Ala Trp Asn
20 25 30

Pro

<210> 10065
<211> 70
<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 10065

Ile Phe Arg Met Leu Arg Lys Leu Met Lys Lys Leu Ser Pro Lys Tyr
1 5 10 15

Leu Ala Lys Ala Arg Leu Ala Leu Trp Leu Ala Ala Arg Trp Asp Gly
20 25 30

Met Tyr Leu Val Ala Ala Ala Cys Phe Arg Ala Ser Lys Leu His Arg
35 40 45

Leu Arg Lys Pro Arg Met Lys Lys Thr Ala Cys Lys Arg Arg Arg Lys
50 55 60

Arg Leu Thr Trp Pro Asp
65 70

<210> 10066

<211> 41

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 10066

Arg Leu Arg Ile Phe Arg Arg Leu Ile Lys Leu Met Lys Lys Arg Tyr
1 5 10 15

Glu Ala Phe Cys Met Ala Ile Lys Ala Asp Arg Arg Lys Ala Val Ala
20 25 30

Leu Ala Ala Leu Ser His Gln Thr Asp
35 40

<210> 10067

<211> 84

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 10067

Arg Leu Arg Met Phe Arg Lys Ile Leu Lys Leu Met Gln Arg Trp Gly
 1 5 10 15

Gly Thr Leu Arg Lys Leu Arg Leu Ala Gly Gln Asp Phe Ile Lys Pro
 20 25 30

Lys Cys Leu Phe Phe Leu Leu Asn Lys Lys Ala Leu Phe Tyr Ala Pro
 35 40 45

Cys Ala Leu Gln Arg Leu Ala Leu Asp Gly Arg Leu Arg Lys Met Cys
 50 55 60

Ala Ala Leu Leu Ala Gln Arg Trp Pro Ser Lys Lys Val Ala Ala Gln
 65 70 75 80

Cys Gln Arg Trp

<210> 10068

<211> 69

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 10068

Leu Tyr Arg Trp Met Pro Arg Tyr Leu Lys Lys Leu Lys Arg Ala Met
 1 5 10 15

Arg Leu Gly Lys Met Leu Ala Ile Lys Ala Asn Pro Asp Glu Arg Leu
 20 25 30

Met Glu Ala Ala Ala Lys Lys Ile Leu Ser Ile Glu Arg Ala Thr Arg
 35 40 45

Leu Ser Met Leu Lys Ala Lys Leu Met Thr Leu Lys Lys Leu Arg Thr
 50 55 60

Gln His Tyr Ala Cys
 65

<210> 10069

<211> 49

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 10069

Arg Leu Arg Trp Ile Gln Lys Leu Ile Lys Arg Trp Arg Arg Met His
1 5 10 15

Lys Arg Glu Ala Ser Ala Asp Lys Met Gly Ala Ala Asp Trp Lys Lys
20 25 30

Lys His Ala Leu Leu Arg Trp Leu Gly Leu Ala Lys Leu Ala Glu Cys
35 40 45

Arg

<210> 10070

<211> 37

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 10070

Phe Trp Lys Leu Leu Ser Lys Leu Trp Arg Leu Leu Cys Lys Leu Val
1 5 10 15

Gln Arg Thr Thr Arg Phe Asp Arg Arg Ala Leu Phe Lys Ser Ala Ile
20 25 30

Arg Ala Arg Lys Lys
35

<210> 10071

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 10071

Arg Tyr Lys Tyr Tyr Thr Lys Leu Tyr Lys Arg Phe Ser Lys Leu Leu
1 5 10 15

Arg Leu Ala Pro Leu Ala Pro
20

<210> 10072
<211> 37
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 10072

Arg Leu Arg Phe Leu Lys Lys Phe Trp Lys Lys Trp Arg His Ala Lys
1 5 10 15

Val Asn Arg Asp Ala Ala Ala Tyr Ala Leu Asp Lys Ala Ala His Asp
20 25 30

Ala Thr Val Tyr Tyr
35

<210> 10073
<211> 29
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 10073

Lys Trp Lys Phe Tyr Asn Lys Leu Phe Lys Tyr Leu Lys His Ala Met
1 5 10 15

Ala Arg Lys Asp Gln Cys Arg Leu Ala Ala Cys Leu Phe
20 25

<210> 10074
<211> 47
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 10074

Arg Phe Arg Leu Phe Lys Lys Leu Tyr Lys Phe Trp Lys Lys Ala Lys
1 5 10 15

Leu Leu Phe Cys Ala Ala Phe Glu Ile Thr Cys Thr Arg Glu Leu Met
 20 25 30

Ser Ser Lys Leu Lys Ala Arg Leu Leu Asp Cys Ala Ala His Met
 35 40 45

<210> 10075

<211> 46

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 10075

Leu Leu Lys Leu Leu Lys Lys Leu Phe Lys Lys Met Lys Arg Ala Phe
 1 5 10 15

His Leu Lys Leu Cys Lys Lys Asp Ala Leu Leu Ser Pro Trp Met Tyr
 20 25 30

His Lys Ser Asp His Pro Lys Arg Glu Arg Lys Met Phe Gln
 35 40 45

<210> 10076

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 10076

Arg Tyr Lys Ile Tyr Arg Arg Leu Ile Arg Ile Phe Lys Arg Lys Leu
 1 5 10 15

Asn Thr Trp Lys Leu Ala Glu Arg Glu Arg Leu Leu Ala Cys Leu Pro
 20 25 30

<210> 10077

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 10077

Arg Trp Lys Leu Trp Arg Lys Phe Leu Lys Arg Leu Lys Asn Ala Gly
 1 5 10 15

Cys Asn Asn Leu
 20

<210> 10078
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 10078

Leu Leu Lys Trp Phe His Lys Trp Tyr Arg Tyr Phe Arg Lys Ala Tyr
 1 5 10 15

Phe Asp Ala Arg Arg Ala Leu Arg
 20

<210> 10079
 <211> 63
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 10079

Arg Met Arg Met Leu Lys Arg Phe Leu Lys Arg Met Lys Lys Arg Pro
 1 5 10 15

Leu Glu Leu Val Leu Phe Lys Pro Lys Ala Asn Lys Arg Leu Gln Leu
 20 25 30

Tyr Leu Gln Leu Ala Gly Pro Tyr Arg Leu Gln Ala Gly Ala Val Arg
 35 40 45

Phe Lys Leu Arg Glu Val Arg Cys Leu Arg Arg Gln Ala Ala Leu
 50 55 60

<210> 10080
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 10080

Arg	Leu	Arg	Met	Leu	Gln	Lys	Phe	Phe	Lys	Ile	Leu	Lys	Lys	Ser	Leu
1				5					10					15	

Leu	Ala	Pro	Leu	Asn	Phe	Cys	Arg
			20				

<210> 10081

<211> 38

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 10081

Phe	Leu	Lys	Phe	Trp	His	Lys	Ile	Leu	Lys	Leu	Leu	Lys	Arg	Thr	Ala
1				5				10						15	

Tyr	Lys	Leu	Arg	Lys	Arg	Asp	Ile	Leu	Glu	Arg	Ser	Ser	His	Phe	Ala
			20					25					30		

Ser	Thr	Gly	Ala	Leu	Ala
			35		

<210> 10082

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 10082

Ile	Leu	Lys	Met	Phe	Arg	Lys	Leu	Leu	Lys	Phe	Met	Arg	Arg	Leu	Lys
1				5					10					15	

Leu	Lys	Lys	Asn	Leu	Val	Lys	Leu	Thr	Asn	Trp	Ser	Thr	Cys	Ala	Ile
			20					25					30		

<210> 10083

<211> 94

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 10083

Phe	Leu	Lys	Leu	Phe	Arg	Arg	Met	Trp	Arg	Arg	Phe	Lys	Arg	Phe	Val
1				5					10					15	

Ala	Ala	His	Pro	Pro	Phe	Glu	Cys	Ser	Lys	Thr	Leu	Gln	Asn	Leu	Leu
			20					25					30		

Lys	Gln	Leu	Leu	Lys	Asp	Asp	Gln	Trp	Ala	Arg	Ala	His	Leu	Glu	Lys
		35					40					45			

Arg	Arg	Ala	Pro	Lys	Asn	Leu	Ala	Ala	Leu	Lys	Asn	Lys	Asn	Gln	Leu
		50				55					60				

Leu	Arg	Leu	Arg	Leu	Tyr	Arg	Arg	Gly	Leu	Arg	Ser	Arg	Glu	Ile	Ala
65					70					75					80

Pro	Ala	Thr	Leu	Tyr	Ala	Cys	Glu	Leu	Ala	Leu	Ala	Lys	His
				85					90				

<210> 10084

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 10084

Lys	Leu	Arg	Phe	Ile	Ser	Arg	Leu	Ile	Arg	Lys	Phe	Arg	Ser	Trp	Arg
1				5					10					15	

Leu	Leu	Trp	Leu	Pro	Ser	Ala	Ala	Lys	Met	Arg	Leu	Cys	Thr	Ala	Lys
			20					25					30		

Leu

<210> 10085

<211> 37

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 10085

Met Phe Arg Ile Leu Ser Lys Leu Leu Arg Lys Met Cys Lys Gln Met
1 5 10 15

Ala Phe Arg Lys Leu Lys Leu Thr Lys Ala Arg Arg Ala Cys Gln Glu
20 25 30

Lys Leu Trp Trp Asp
35

<210> 10086

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 10086

Lys Leu Arg Met Phe Asn Arg Leu Leu Arg Phe Ile Lys Arg Asp Ala
1 5 10 15

Ala His Asn Asn Arg Cys Ile Leu Leu Val Lys Leu His Ala Tyr Ala
20 25 30

<210> 10087

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 10087

Trp Tyr Lys Leu Ile Cys Lys Met Phe Arg Arg Leu Arg Lys Lys Arg
1 5 10 15

Ala Ala Ala Thr Ile Asp Trp Met Leu Leu Met
20 25

<210> 10088

<211> 41

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 10088

Phe Phe Arg Leu Leu Arg Lys Phe Leu Lys Arg Leu Cys Pro Leu Ala
1 5 10 15

Leu Leu Tyr Ala Arg Val Lys Tyr Ala Glu Gln Trp Asn Arg Ala Arg
20 25 30

Thr Pro Arg Ile Met Arg Arg Ala Met
35 40

<210> 10089

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 10089

Leu Ile Lys Met Leu Arg Lys Leu Leu Lys Lys Phe His Ser Val His
1 5 10 15

Ala His Arg Arg Arg Ser Thr Leu Leu Gly Arg His Arg His Ala Arg
20 25 30

<210> 10090

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 10090

Lys Leu Lys Leu Leu Arg Arg Trp Trp Arg Arg Phe Asn Pro Ala Pro
1 5 10 15

Arg Ala Asp Lys His Asn Leu Met Met Ser Thr Ala Lys Ala
20 25 30

<210> 10091

<211> 89

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 10091

Lys Ile Lys Leu Leu His Lys Tyr Met Arg Lys Phe Arg Arg Ala Ala
1 5 10 15

Lys Thr Asp Gly Arg Leu Ala Glu Met Arg Arg Pro Tyr Lys Leu Leu
20 25 30

Ala Cys Leu Lys Lys Ala Gln Phe Arg Asn Pro Leu Leu Leu Thr Pro
35 40 45

Leu Asp Leu Asp Ala Leu Val Met Arg Asp Leu Leu Lys Val Leu Arg
50 55 60

Leu Leu Arg Leu Met Arg Thr Asn Leu Ser Pro Trp Trp Ala Ser Gly
65 70 75 80

Arg Lys Pro Arg Phe Lys Lys Ala Cys
85

<210> 10092

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 10092

Tyr Leu Lys Leu Leu Asn Lys Phe Leu Lys Ile Ile Ser Asn Arg Lys
1 5 10 15

Leu Met Arg Gln Ala Trp Lys Ile Arg
20 25

<210> 10093

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 10093

Leu Trp Lys Trp Phe Asn Arg Phe Phe Arg Lys Leu Lys Arg Ala Arg
1 5 10 15

His Asn Leu Leu Pro Lys Ala Cys Lys Lys Ser Leu Lys Tyr Ala Leu
 20 25 30

Arg Val

<210> 10094
 <211> 39
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 10094

Leu Leu Arg Phe Tyr Arg Arg Leu Phe Arg Ile Trp Lys Arg Leu Glu
 1 5 10 15

Lys Glu Ala Glu Phe Arg Leu Arg Leu His His Trp Met Gln Leu Leu
 20 25 30

Ala Pro Ala Leu Tyr Lys Leu
 35

<210> 10095
 <211> 65
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 10095

Lys Leu Arg Phe Leu Cys Arg Leu Leu Lys Met Ile Thr Lys Gln Leu
 1 5 10 15

Lys Ala Leu Ala Leu Thr Lys Ala Lys Ala Leu Arg Ala Ile Gly Arg
 20 25 30

Gln Val Ile Ser Phe Arg Arg Ala Met Arg Gln Ala Asn Arg Arg Ala
 35 40 45

Ile Lys Arg Thr Cys Ser Gln Cys Leu Phe Leu Ala Thr Arg Leu Ala
 50 55 60

Asn

65

<210> 10096

<211> 48

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 10096

Leu Phe Arg Leu Met His Arg Leu Phe Lys Tyr Leu Arg Arg Ala Ala
 1 5 10 15

Val Leu Ala Trp Arg Leu Ile Met Asn His Lys Lys Gly Met Leu Gly
 20 25 30

Arg Lys Arg Thr Phe His Phe Tyr Lys Ala Cys Lys Leu Tyr Lys Ala
 35 40 45

<210> 10097

<211> 67

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 10097

Lys Trp Lys Leu Leu Lys Arg Leu Trp Lys Phe Trp Lys Arg Ser Ala
 1 5 10 15

Trp Ala Ala Arg Arg Phe Lys Asp Lys Trp Leu Ala Ala Ala Lys Pro
 20 25 30

Val Asn Ala Lys Leu Arg Lys Phe Glu Leu Glu Lys Leu Gly Gly Asn
 35 40 45

Pro Leu Arg Arg Cys Ala Asp Leu Ser Asp Leu Ala Phe Pro Ala Lys
 50 55 60

Pro Met Arg
 65

<210> 10098

<211> 96

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 10098

Lys Leu Lys Trp Met Cys Lys Leu Met Lys Lys Leu Arg Lys Arg Pro
1 5 10 15

Thr Lys Trp Ile Met Tyr Leu Arg Trp Gln Glu Glu Ala Leu Ala Arg
20 25 30

Phe Pro Gln Ala Met Arg Arg Pro Tyr Ala Arg Asp Arg Met Met Leu
35 40 45

Ala Val Lys Glu Lys Ala Leu Arg Pro Lys Lys Leu Gly Arg Asp Arg
50 55 60

Leu Ala Phe Ala Pro Ala Arg Lys Arg Arg Arg Leu Lys Gln Asn Ile
65 70 75 80

Leu Leu Ala Gln Gly Ala Thr Lys His Glu Glu Asn Leu Arg Tyr Arg
85 90 95

<210> 10099

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 10099

Lys Met Lys Ile Phe Arg Arg Leu Phe Lys Lys Phe Arg Lys Ala Leu
1 5 10 15

Asn Gln Lys Arg Glu Gln Ser Leu Leu His Leu Ser Leu Val
20 25 30

<210> 10100

<211> 76

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 10100

Lys Ile Arg Ile Leu Lys Lys Leu Leu Arg Arg Phe Cys Lys Cys Asp
 1 5 10 15

Lys Ile Tyr Met Leu Glu Arg Arg Leu Ser Thr Phe Ala Lys Leu Arg
 20 25 30

Ala Met Arg Leu Ala Ser Leu Gln Arg Ala Ala Ile Ala Lys Trp Trp
 35 40 45

Lys His Cys His Leu Glu Tyr Gly Gln Asp Thr Lys Lys Ala Thr Lys
 50 55 60

Ala Ile Lys Asp Ala Gly Arg Leu Ala Met Ser Arg
 65 70 75

<210> 10101

<211> 92

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 10101

Lys Ile Lys Phe Leu Lys Lys Tyr Leu Lys Arg Leu Arg Pro Lys Leu
 1 5 10 15

Tyr Gly Leu Ser Ile Arg Arg Arg Thr Tyr Glu Lys Gly Asn Phe Ala
 20 25 30

Asp Arg Leu Gln Leu Ser Leu Cys Lys Pro Arg Arg Ala Thr Lys Ala
 35 40 45

Leu Asp Lys Leu Ile Val Pro Ala Gly Lys Arg Pro Asn Ala Lys Met
 50 55 60

Ser Ser Gly Leu Asp Ala Ala Lys Arg Leu Ala Gln Arg Ala Met Leu
 65 70 75 80

Pro Trp Pro Arg Pro Leu Asn Ala Lys Gln Ala Leu
 85 90

<210> 10102

<211> 39

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 10102

Lys Phe Lys Trp Leu His Arg Tyr Ile Arg Ile Ile Lys Arg Arg Ala
1 5 10 15

Asp Leu Leu Lys Cys Asp Leu Arg Arg Leu Cys Met Leu Ala Gln Phe
20 25 30

Ala Arg Trp Met Ala Leu Asn
35

<210> 10103

<211> 45

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 10103

Arg Ile Lys Leu Met Ser Arg Leu Phe Lys Arg Phe Arg Lys Arg Ala
1 5 10 15

Leu Ser Lys Ala Ala Gln Leu Ser Ala Ser Arg Ile Tyr Met Ala Arg
20 25 30

Ala Asn His Lys Trp Gln Arg Trp Asp Leu Leu Glu Leu
35 40 45

<210> 10104

<211> 59

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 10104

Arg Tyr Lys Leu Met Arg Arg Leu Leu Arg Lys Leu Lys Arg Gly Cys
1 5 10 15

Ala Ile Ala Lys Ala Gly Gln Pro Leu Ala Leu Leu Pro Arg Lys Met
20 25 30

Glu Ala Gly Thr Val Gln Trp Lys Leu Asp Arg Leu Trp Trp Asp Ala
35 40 45

Lys Arg Lys Lys Phe Ala Val Ser Arg Arg Glu
50 55

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<210> 10105
<211> 25
<212> PRT
<213> Artificial Sequence
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<220>
<223> Computer-generated peptide variant

<400> 10105

Trp Phe Arg Leu Leu Arg Lys Leu Leu Lys Leu Leu His Arg Cys Arg
1 5 10 15

Ala Trp Arg Gly Leu Lys Arg Ser Val
20 25

<210>	10106
<211>	32
<212>	PRT
<213>	Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 10106

Arg Ile Arg Leu Leu Arg Lys Leu Trp Arg Trp Met Lys Asn Gln Ile
1 5 10 15

Lys Tyr Thr Gln Leu Ala Pro Leu Phe Arg Ala Leu Leu Trp Arg Asn
20 25 30

<210>	10107
<211>	29
<212>	PRT
<213>	Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 10107

Arg Leu Arg Leu Phe His Lys Met Leu Arg Trp Phe Pro Lys Ala Leu
1 5 10 15

Arg Phe Met Leu Ile Ile Arg Arg Glu Ile Arg Pro Ala
 20 25

<210> 10108
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 10108

Leu Met Arg Met Leu Arg Arg Trp Trp Arg Arg Phe His Arg Leu Ala
 1 5 10 15

Arg Lys Ala Ile Ala
 20

<210> 10109
 <211> 74
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 10109

Arg Leu Lys Leu Trp Arg Lys Leu Met Arg Leu Tyr Lys Lys Tyr Trp
 1 5 10 15

Leu Asp Leu Pro Leu Ala Leu Leu Gly Ala Tyr Trp Lys Lys Val Leu
 20 25 30

Lys Thr Trp Asp Arg Ala Pro Lys Ser Asn Arg Leu Asn Asn Arg Leu
 35 40 45

Lys Arg Ala Pro Ala His Leu Lys Tyr Asn Ile Asp Ala Asp Leu Phe
 50 55 60

Asn Ile Ile Arg Lys Gly Lys Ala Arg Lys
 65 70

<210> 10110
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 10110

Arg	Trp	Lys	Tyr	Tyr	Thr	Lys	Phe	Leu	Lys	Leu	Ile	Lys	Pro	Leu	Asp
1				5					10					15	

Arg	Arg	Leu	Ala	Trp	Asn	Ala	Asp	Ala	Lys	Ala	Asn	Leu	Arg
		20					25					30	

<210> 10111

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 10111

Lys	Met	Arg	Phe	Ile	Asn	Lys	Trp	Leu	Lys	Arg	Leu	Lys	Cys	Leu	Arg
1				5				10						15	

Met	Ala	Cys	His	Glu	Tyr	Pro	Arg	Lys	Ala	Leu	Ala	Leu	Lys	Met	Leu
			20					25					30		

Asp Ala

<210> 10112

<211> 44

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 10112

Lys	Trp	Lys	Leu	Tyr	Thr	Arg	Leu	Phe	Arg	Lys	Leu	His	Lys	Lys	Tyr
1				5					10					15	

Ala	Arg	Leu	Cys	Lys	Asn	Lys	Trp	Ala	Asp	Gln	Leu	Cys	Leu	Pro	Cys
			20					25					30		

Ala	Lys	Leu	Trp	Asp	Met	Leu	Val	Leu	Leu	Met	Lys
		35					40				

<210> 10113

<211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 10113

Arg Leu Arg Phe Leu Arg Lys Tyr Leu Lys Ile Phe Arg Arg Glu Ala
 1 5 10 15

Ala Tyr Gly Leu His Lys Tyr Leu Trp Arg Val Gln Gln
 20 25

<210> 10114
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 10114

Phe Phe Arg Leu Ile Arg Arg Leu Leu Lys Leu Leu Thr Arg Asp Arg
 1 5 10 15

Ala Asp Leu Pro Ile Lys Val Gln Arg
 20 25

<210> 10115
 <211> 82
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 10115

Lys Leu Arg Met Leu Arg Lys Met Leu Lys Arg Tyr His Arg Tyr Ala
 1 5 10 15

Ala Gly Cys Ile Gly Thr Ala Leu His Gln Gly Arg Leu Asp Lys Ala
 20 25 30

Leu Ala Lys Glu Ala Asp Tyr Gly Lys Lys Leu Val Pro Leu Phe Ala
 35 40 45

Leu Arg Tyr Lys Lys His Lys Gly Ala Arg Asn Met Gly Ala Ala Ala

50

55

60

Val Lys Leu Val Ala Ala Asp Arg Leu Tyr Trp Leu Lys Arg Ser Cys
 65 70 75 80

Lys Lys

<210> 10116
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 10116

Phe Tyr Lys Ile Phe His Lys Trp Met Lys Phe Phe Lys Arg Lys Lys
 1 5 10 15

Pro Ala Leu Val Lys Lys Glu Leu Gln Leu Leu Leu Leu Trp Leu Arg
 20 25 30

Asn Lys

<210> 10117
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 10117

Met Leu Arg Phe Leu Pro Lys Tyr Leu Lys Lys Phe Lys Lys Ser Gly
 1 5 10 15

Lys Arg Leu Leu Tyr Arg Arg Ala Leu His Lys Leu Cys Leu Pro Trp
 20 25 30

<210> 10118
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 10118

Arg Phe Lys Leu Leu Thr Lys Phe Leu Lys Lys Tyr Lys Thr Ala Ser
1 5 10 15

Lys Ala His Lys Leu Pro Ala Arg Gly
20 25

<210> 10119

<211> 47

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 10119

Lys Phe Lys Trp Leu Lys Arg Phe Leu Arg Leu Phe Arg Cys Lys Lys
1 5 10 15

Glu Ala Asn Val Arg Ala Arg Ile Arg Val Val Thr Lys Ser Pro Ala
20 25 30

Lys Glu Lys Tyr Arg Glu Leu Leu Ala Asn Asn Ala Tyr Leu Cys
35 40 45

<210> 10120

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 10120

Trp Leu Lys Leu Leu Arg Arg Phe Leu Lys Leu Phe Thr Arg Gly Glu
1 5 10 15

Glu Ala Gly Lys Ala His Arg Gln Pro Pro Arg
20 25

<210> 10121

<211> 90

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 10121

Lys Met Arg Trp Phe Thr Lys Leu Leu Lys Leu Leu Lys Thr Ala Ala
1 5 10 15

Tyr His Ala Arg Arg Leu Trp Val Arg Lys His Lys Ile Lys Leu Tyr
20 25 30

Arg Tyr Ala Cys Lys Lys Lys Leu Arg Ile Cys Arg Tyr Ala His Thr
35 40 45

Glu Tyr Ala Phe Pro Arg Asp Trp Ile Ala Lys Glu Asn Leu Asn Arg
50 55 60

Ala Trp Arg Lys Tyr Arg Ala Gln Arg Cys Ala Ala Lys Gln Leu Ile
65 70 75 80

Leu Gly Cys Ala Leu Tyr Arg Leu Lys Leu
85 90

<210> 10122

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 10122

Leu Trp Arg Leu Phe His Arg Phe Leu Lys Phe Phe Pro Pro Arg Arg
1 5 10 15

Gln Ile Leu Lys Ala Tyr Leu Arg Ala Lys
20 25

<210> 10123

<211> 38

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 10123

Arg Phe Arg Met Leu Arg Lys Ile Tyr Lys Leu Ile Asn Lys Ala Met
1 5 10 15

Phe Lys Ala Arg Ile His Ser Lys Ala Leu His Leu Ala Leu Leu Lys
 20 25 30

His Lys Lys His Leu Ala
 35

<210> 10124
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 10124

Met Phe Arg Tyr Trp Asn Lys Phe Leu Arg Arg Tyr Pro Lys Lys Thr
 1 5 10 15

Leu Lys Arg Pro Leu Ala Pro Pro Arg Leu His His Leu Gln Arg Ala
 20 25 30

Ala Lys

<210> 10125
 <211> 31
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 10125

Arg Met Lys Ile Leu Ser Lys Ile Ile Arg Leu Leu Lys Lys Tyr Leu
 1 5 10 15

Ala Cys Lys Pro Ala Lys Thr Lys Leu Leu Pro Asn His Lys Trp
 20 25 30

<210> 10126
 <211> 54
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 10126

Leu Tyr Lys Leu Leu Lys Lys Leu Trp Lys Lys Phe Lys Pro Cys Ser
 1 5 10 15

Asn Asp Thr Gln Ala Cys Ala Ala Tyr Ala Arg Leu Tyr Val Leu Lys
 20 25 30

Leu Ala Ala Phe Thr Lys Cys Asn Lys Thr Met Thr Lys Tyr Pro Lys
 35 40 45

Arg Arg Arg Asp Ala Arg
 50

<210> 10127
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 10127

Arg Leu Lys Leu Leu Lys Lys Ile Ile Arg Arg Leu Lys Gln Leu Arg
 1 5 10 15

Ala Ala Ile Gly Arg Arg Leu Cys Arg Arg Leu Ala Met Ala Lys Phe
 20 25 30

Ala Ser

<210> 10128
 <211> 97
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 10128

Lys Leu Arg Ile Ile His Arg Met Phe Lys Phe Phe Lys Arg Thr Thr
 1 5 10 15

Leu Ala Asp Leu Met Ile Gln Arg Pro Thr Ala Ser Ala Arg Lys Ile
 20 25 30

Arg Lys Phe Phe Lys Ala Phe Arg Ala Lys Leu Asn Ala Lys Arg Glu

35

40

45

Gln Cys Glu Ala Ala Asn Lys Leu Asp Ser Ala Leu Leu Leu Ala Lys
 50 55 60

Glu Leu Lys Pro Leu Lys Lys Lys Ala Lys Arg Cys Lys Leu Asn Arg
 65 70 75 80

Leu Arg Ile Phe Lys Leu Lys Ala Phe Pro Lys Leu Gly His Ala Phe
 85 90 95

Leu

<210> 10129
 <211> 65
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 10129

Lys Trp Lys Met Phe Arg Arg Met Trp Lys Arg Leu Asn Lys Lys Ser
 1 5 10 15

Lys Val Leu Leu Ala Ala Leu Leu Ser Arg Ile Lys Ile Tyr Thr Arg
 20 25 30

Gly Asn Ala Leu Val Lys Ala Leu Ile Thr Lys His Arg Lys Tyr Asn
 35 40 45

Ala Trp Lys Leu Met Glu Arg Asn Leu Ala Lys Asn Asp Arg Tyr Lys
 50 55 60

Ile
 65

<210> 10130
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 10130

Phe Leu Arg Phe Leu Pro Arg Trp Leu Arg Leu Leu Lys Arg Gln Arg
 1 5 10 15

Phe Leu Ser Leu Leu Asn Leu His Pro Arg Trp Lys Ser Leu
 20 25 30

<210> 10131
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 10131

Tyr Ile Lys Leu Leu Arg Lys Tyr Leu Arg Lys Tyr His Cys Ile Ala
 1 5 10 15

Leu Asp Ala Thr
 20

<210> 10132
 <211> 74
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 10132

Lys Trp Lys Leu Trp Arg Lys Leu Met Lys Leu Leu Lys Arg Gly Val
 1 5 10 15

Ala Cys Arg Lys Arg Thr Lys Gln Thr Ala Ala Ala Gln His Arg Glu
 20 25 30

Lys Gly Arg Arg Tyr Asp Thr Cys His Gly Arg Lys Lys Arg Asp Ala
 35 40 45

Trp Lys Tyr Lys Cys Ala His Glu Lys Ala Ala Tyr Ala Thr Ile Leu
 50 55 60

Glu Ala Lys Asn Leu Glu Ala Phe Lys His
 65 70

<210> 10133

<211> 38
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 10133

Leu Leu Arg Trp Trp Arg Arg Tyr Trp Lys Lys Leu Arg Thr Ser Leu
 1 5 10 15

Val Thr Tyr Asp Leu His Thr Lys Leu Lys Tyr Leu Ala Arg Phe Asp
 20 25 30

Arg Lys Gly Leu Gly Arg
 35

<210> 10134
 <211> 80
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 10134

Arg Leu Lys Met Leu His Lys Trp Phe Arg Phe Leu Lys Arg Ala Lys
 1 5 10 15

Ala Leu Lys Thr Trp Ala Leu Ser Ala Arg Met Ser Phe Pro Cys Glu
 20 25 30

Thr Ser Ala Ser His Leu Ala Gln Arg Ile Trp Lys Tyr Arg Lys Ser
 35 40 45

Ala Arg Asp Leu His Gln Cys Ala Ala Ala Leu Arg Lys Cys Ala Ala
 50 55 60

Arg Leu Lys Ile Lys Arg His Tyr Cys Asp Lys Lys Ala Ala Leu Lys
 65 70 75 80

<210> 10135
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 10135

Lys Met Lys Met Phe His Arg Leu Phe Arg Arg Leu Thr Arg Leu Thr
1 5 10 15

His Leu Leu Arg Ala Thr Asp Asp Leu Lys Thr Ala Ala Arg Tyr Lys
20 25 30

Lys Ala Phe Asp Gly Ala Lys Lys
35 40

<210> 10136

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 10136

Leu Tyr Arg Leu Trp Lys Lys Leu Met Arg Tyr Phe Thr Arg Lys Ala
1 5 10 15

Thr Asn Arg Pro Arg Leu Ser Ala Asp Leu Ala Lys Arg Gln Tyr His
20 25 30

Met Leu Ala Ala
35

<210> 10137

<211> 50

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 10137

Arg Tyr Arg Phe Tyr Thr Arg Tyr Tyr Lys Lys Leu Lys Arg Arg Phe
1 5 10 15

Ala Asn Gln Ala Gly Asn Ala Arg Glu Ala Gln Arg Ala Ala Arg Leu
20 25 30

Ala Lys Tyr Ala Gly Arg Asp Thr Lys Gly Leu Lys Phe Ile Leu Leu
35 40 45

Gln Gln
50

<210> 10138
<211> 34
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 10138

Met Trp Lys Tyr Leu Lys Arg Phe Leu Lys Met Leu Ser Arg Lys Leu
1 5 10 15

Ile Asp Gln Lys Trp Ala Leu Leu Ala Tyr Arg Leu Lys Gly Tyr Lys
20 25 30

Asn Asp

<210> 10139
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 10139

Trp Trp Lys Met Met Arg Arg Leu Met Lys Arg Met Arg Lys Arg Trp
1 5 10 15

Ala Ala Ala Leu Ala Asp Asn Lys Leu Lys Cys Gly Ala Met Tyr Arg
20 25 30

<210> 10140
<211> 47
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 10140

Lys Met Arg Phe Leu Ser Arg Trp Leu Arg Phe Phe Arg Cys Ala Lys
1 5 10 15

Leu Cys Tyr Ala Ala Glu Leu Leu Arg Tyr Ala Leu His Asp Cys Arg
 20 25 30

Leu Ala Lys Asn Lys Ala Lys Arg Ala Lys Arg His Cys Lys Asn
 35 40 45

<210> 10141
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 10141

Arg Leu Lys Tyr Phe Arg Lys Phe Leu Lys Arg Trp Gln Arg Ala Cys
 1 5 10 15

Gln Ala Ala Lys Asn Arg His Leu Val Gly Lys Asp Val Ala Ala Gly
 20 25 30

Lys Leu

<210> 10142
 <211> 31
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 10142

Leu Leu Lys Leu Leu Ser Arg Met Leu Arg Phe Ile Pro Ser Lys Pro
 1 5 10 15

Arg Lys Leu Ser Leu Ala Trp Arg Arg Trp Cys Ala Lys Leu Tyr
 20 25 30

<210> 10143
 <211> 54
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 10143

Lys Phe Lys Leu Tyr His Lys Leu Leu Arg Leu Trp Asn Cys Lys Arg
 1 5 10 15

Arg Asp Lys Leu Trp Glu Leu Arg Leu Lys Pro Asn Ala Asn Arg Lys
 20 25 30

Ala Lys Val His Lys Lys Glu Ala Leu Ala Arg Met Trp Trp Tyr Leu
 35 40 45

Lys Met Met Thr Trp Ser
 50

<210> 10144
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 10144

Leu Ile Arg Leu Phe Pro Lys Tyr Leu Arg Leu Ile Arg Arg His Lys
 1 5 10 15

Lys Ser Gly Leu Glu
 20

<210> 10145
 <211> 61
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 10145

Leu Phe Arg Phe Tyr Cys Lys Leu Leu Arg Lys Leu Thr Gln Tyr Tyr
 1 5 10 15

Val Leu Lys Leu Lys Cys Lys Leu Leu Leu Lys Arg Lys Leu Arg Ala
 20 25 30

Leu Arg Met Tyr Glu Tyr Lys Leu Lys Ala Cys Pro Val Arg Ala Lys
 35 40 45

Lys Thr Pro Lys Met Ala Arg Ser Ser Tyr Met Lys Ile

50

55

60

<210> 10146

<211> 78

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 10146

Tyr Phe Arg Leu Leu Lys Arg Met Leu Lys Phe Phe Cys Arg Asn Ile
 1 5 10 15

Ala Cys Tyr Arg Ser Ala Ala Gly Thr Asn Leu Ile Arg Leu Asn Trp
 20 25 30

Pro Glu Leu Lys Cys Lys Ala Arg Ala Trp Lys Ile Cys Thr Leu Leu
 35 40 45

Lys Lys Ala Asp Ile Glu Arg Leu Arg Ala Leu Ala Lys Lys Cys Leu
 50 55 60

Pro Gly Ala Ala Pro Arg Pro Thr Lys Leu Arg Ala Phe Ala
 65 70 75

<210> 10147

<211> 61

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 10147

Ile Tyr Arg Phe Tyr Arg Arg Phe Leu Lys Lys Phe Pro Lys Ser Thr
 1 5 10 15

Lys Lys Lys Gly Glu Tyr Ala Lys Leu Thr Cys Leu Arg Pro Leu Arg
 20 25 30

Ala Asp Leu Leu Leu Glu Arg Ala Leu Ala Met Ala Leu Tyr Pro Arg
 35 40 45

Cys Arg Arg Leu Arg Ala Leu Leu Thr Arg Tyr Leu Phe
 50 55 60

<210> 10148
 <211> 75
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 10148

Leu Tyr Arg Leu Trp Arg Arg Leu Phe Arg Arg Ile Arg Pro Leu Leu
 1 5 10 15

Lys Arg Ser Met Leu Ser Ala Pro Ala Asn Ala Trp Asp Tyr Ala Ala
 20 25 30

Lys Arg Tyr Arg Leu Arg Lys Pro Glu Lys Phe Ile Leu Leu Ser Leu
 35 40 45

Leu Thr Cys Lys Gly Asn Arg Asp Leu Ala Leu Leu Val Val Ala Lys
 50 55 60

Arg Lys Ser Pro Phe Gln Arg Cys Trp Leu Lys
 65 70 75

<210> 10149
 <211> 53
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 10149

Trp Tyr Lys Leu Phe Lys Arg Phe Phe Lys Arg Leu Asn Arg Ala Leu
 1 5 10 15

Tyr Ala Asn His Val Arg Lys Gln Ala His Arg Ile His Leu Ser Thr
 20 25 30

Leu Phe Gln Asp Ala Arg Gly Leu Lys Arg Leu Ala Ala Trp Arg Ala
 35 40 45

Lys Leu Val Lys Trp
 50

<210> 10150

<211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 10150

Trp Leu Lys Leu Leu Ser Lys Met Ile Lys Lys Ile Ser Thr Lys Leu
 1 5 10 15

Ala Lys Arg Leu Ala Pro Cys His Arg Arg Ala Asp Asn Arg Cys His
 20 25 30

<210> 10151
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 10151

Leu Leu Arg Tyr Trp Arg Arg Tyr Leu Lys Leu Trp Ser Thr Thr Lys
 1 5 10 15

Lys Lys Leu Trp Leu
 20

<210> 10152
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 10152

Lys Ile Arg Leu Tyr Gln Arg Tyr Leu Arg Leu Leu Lys Ser Tyr His
 1 5 10 15

Lys Arg Trp Arg Ala Glu Leu Ala Ile Ala Met Tyr Met Arg
 20 25 30

<210> 10153
 <211> 38
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 10153

Lys	Leu	Arg	Leu	Trp	Arg	Arg	Trp	Ile	Lys	Phe	Leu	Gln	Thr	Lys	Asn
1				5					10					15	

Leu	Leu	Trp	Ile	Leu	Glu	Leu	Ala	Lys	Asn	Lys	Lys	Tyr	Val	Phe	Ala
			20					25					30		

Ala	His	Leu	Lys	Cys	Phe
					35

<210> 10154

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 10154

Phe	Leu	Lys	Leu	Leu	Gln	Lys	Phe	Leu	Lys	Phe	Leu	Ser	Lys	Arg	Ile
1				5					10					15	

Cys	Lys	Pro	Arg	Thr	Asn	Ala
						20

<210> 10155

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 10155

Lys	Trp	Lys	Phe	Phe	His	Arg	Leu	Leu	Lys	Leu	Leu	Arg	Arg	Ala	Lys
1				5					10					15	

Leu	Cys	Arg	Gln	Asn	Ala	Met	Thr
							20

<210> 10156

<211> 65

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 10156

Met Leu Lys Leu Leu Thr Arg Ile Leu Arg Leu Ile Lys Arg Asp Leu
 1 5 10 15

Leu Lys Arg Leu Lys Cys Arg Asp Leu Trp Phe Arg Leu Met Asn His
 20 25 30

Ser Arg Ala Lys Ala Leu Tyr His Gly Gly Ala Ala Lys Leu Phe Arg
 35 40 45

Met Ala Thr Arg Leu Cys Tyr Ala Arg Pro Asn Arg His Ala His Pro
 50 55 60

Phe
 65

<210> 10157

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 10157

Lys Ile Arg Phe Leu Lys Arg Trp Leu Lys Leu Leu Pro Pro Ala Lys
 1 5 10 15

Val Ala Thr Asn
 20

<210> 10158

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 10158

Ile Tyr Lys Leu Met His Lys Phe Tyr Arg Lys Leu His Lys Ala Leu
 1 5 10 15

Gly Phe Lys Lys Ala Ile Lys Lys Leu Tyr Pro Ala Lys Arg Asp Ala

20

25

30

Glu Leu

<210> 10159

<211> 31

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 10159

Leu Leu Arg Phe Met Lys Arg Tyr Tyr Arg Leu Leu Cys Thr Leu Ser
 1 5 10 15

Arg Glu Arg Lys Ala Leu Cys Lys Lys Asn Ile Arg Lys Met Leu
 20 25 30

<210> 10160

<211> 54

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 10160

Lys Trp Lys Leu Phe Ser Arg Leu Met Lys Lys Phe Lys Thr Asp Lys
 1 5 10 15

Leu Arg Arg Ala Arg Ala Arg Ile His Leu Leu Lys Ala Leu Tyr His
 20 25 30

Lys Pro Leu Arg Asp His Met Glu Leu Thr Leu Lys Thr Ile Ala Tyr
 35 40 45

Arg Pro Leu Ala Asp Met
 50

<210> 10161

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 10161

Lys Leu Arg Met Ile Pro Lys Trp Leu Lys Lys Met Arg Ser Arg Leu
1 5 10 15

Leu Met Ala Ala Cys Ala Ala Ala Arg Trp Asp Arg Ala Phe Asn Ala
20 25 30

Tyr

<210> 10162

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 10162

Leu Phe Arg Leu Phe Lys Lys Leu Met Arg Phe Leu Arg Arg Asp Gly
1 5 10 15

Ala Ile Ala Leu Ile Ala Val Cys Ala Arg Asn His Lys Arg Phe Met
20 25 30

<210> 10163

<211> 54

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 10163

Arg Met Arg Phe Leu Cys Arg Leu Leu Arg Lys Leu Arg Ser Gln Tyr
1 5 10 15

Tyr Asn Tyr Ala Ala Cys Lys Ser Ala Ser Asn Lys Gly Leu Arg Asn
20 25 30

Ser Ser Thr Tyr Lys Tyr Leu Arg Ala Arg Lys Arg Trp Phe Ala Arg
35 40 45

Arg Leu Thr Ala Lys Lys
50

<210> 10164
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 10164

Phe Phe Arg Phe Ile Lys Arg Leu Phe Arg Leu Leu Gln Gln Glu Arg
 1 5 10 15

Pro His Ala Leu Leu Pro Lys Arg Gly Ala Met Lys Tyr Leu Lys Leu
 20 25 30

<210> 10165
 <211> 42
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 10165

Lys Trp Arg Met Tyr Pro Lys Leu Leu Lys Trp Leu Arg Pro Ala Ala
 1 5 10 15

Phe Arg Leu Leu Lys Ala Val Leu Tyr Tyr Val Leu Lys Leu Thr Lys
 20 25 30

Arg Lys His Lys Gln Arg Leu Leu Leu His
 35 40

<210> 10166
 <211> 60
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 10166

Ile Tyr Arg Phe Leu His Arg Tyr Ile Lys Lys Leu Thr Cys Ser Leu
 1 5 10 15

Lys Ala Ala Lys Ala Leu Asp Gly Met Leu Leu Ser Glu Ala Gly Ala
 20 25 30

Lys Asp His Arg Ala Leu Arg Ala Thr Trp Leu Val Lys Met Gln His
 35 40 45

Lys Arg Trp Arg Ala Asp Arg Arg Asn Arg Met Lys
 50 55 60

<210> 10167
 <211> 41
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 10167

Arg Trp Arg Leu Phe Thr Lys Leu Leu Arg Trp Trp Lys Arg Cys Asn
 1 5 10 15

Lys Tyr Ala Arg Lys Lys Asp Ala Glu Ala Phe Ala Lys Val Lys His
 20 25 30

Lys Arg Gly Thr Leu Ala Cys Ala Cys
 35 40

<210> 10168
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 10168

Arg Tyr Arg Leu Leu Asn Arg Met Leu Lys Lys Leu Lys Arg Ile Ala
 1 5 10 15

Ile Ala Tyr Cys Asn
 20

<210> 10169
 <211> 31
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 10169

Lys Leu Lys Phe Met Gln Arg Phe Leu Lys Leu Leu Lys Pro Lys Leu
 1 5 10 15

Met Ala Pro Ala Lys Gly Arg Lys Lys Leu Asp Asp Arg Leu Tyr
 20 25 30

<210> 10170
 <211> 38
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 10170

Arg Leu Arg Tyr Leu Lys Arg Leu Leu Lys Lys Leu Asn Asn Leu Gln
 1 5 10 15

Ala Thr Ala Leu Ala Phe Lys Lys Lys Pro Ser Val Glu Lys Thr Ala
 20 25 30

Pro Ala Lys Ala Lys Ala
 35

<210> 10171
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 10171

Arg Leu Lys Leu Leu Thr Lys Ile Tyr Lys Arg Trp Arg Arg Ala Met
 1 5 10 15

Pro Gln Ala Lys Trp Ala Lys Ala Tyr Leu Tyr Leu Ala Phe Ile Ser
 20 25 30

<210> 10172
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 10172

Leu Leu Arg Phe Leu Gln Lys Tyr Leu Arg Leu Met Asn Pro Lys Gln
 1 5 10 15

Met Asn Val Glu Lys Leu Lys Lys Ala
 20 25

<210> 10173

<211> 94

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 10173

Leu Leu Lys Leu Leu Lys Lys Leu Leu Arg Leu Leu Arg Arg Lys Arg
 1 5 10 15

His Trp Phe Lys Phe Leu Met Phe Pro Ala Arg Arg Asp Thr Val Ala
 20 25 30

Asp Pro Thr Trp Phe Leu Leu Lys Arg His Met Asn Gln Arg His Gln
 35 40 45

Lys His Leu Ala Arg Gly Lys Lys Asp Met Arg Lys Met Ala Lys Ala
 50 55 60

Tyr Ala Lys Met Lys Leu Gly Ser His Asn Ala Leu Leu Ala Phe Ala
 65 70 75 80

Pro Phe Asn Ile Phe Lys Ile Leu Ala Leu Ala His Leu Met
 85 90

<210> 10174

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 10174

Lys Met Arg Leu Leu Thr Lys Phe Leu Arg Phe Leu Arg Lys Gly Ala
 1 5 10 15

Leu Lys Asn Cys Ala Trp Lys Phe Glu Ala Cys Lys Pro

20

25

<210> 10175

<211> 59

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 10175

Lys Leu Lys Phe Ile Lys Lys Leu Leu Arg Leu Phe Lys Pro His Tyr
 1 5 10 15

Ser Phe Ala Trp Phe Ala Cys Lys Leu Lys Arg Glu Ala Ser Lys Leu
 20 25 30

Arg Ala Lys Leu Glu Leu Gln Lys Leu Ala Phe Met Arg Cys Thr His
 35 40 45

Ala Thr Gly His Lys Pro Leu Gln Arg Arg Ile
 50 55

<210> 10176

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 10176

Phe Tyr Arg Leu Leu Lys Arg Phe Met Arg Phe Tyr Arg Cys Lys Arg
 1 5 10 15

Ser Ala Ser Asn Ala Cys Ile Leu Ala Lys Ala Gly Ile Leu Arg Leu
 20 25 30

Leu

<210> 10177

<211> 41

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 10177

Ile Phe Arg Leu Trp Lys Lys Tyr Leu Arg Lys Leu Arg Lys Leu Arg
1 5 10 15

Asn Trp Ile Ala Ala Val Leu Ile Ala Arg His Gly Ser Ala Ile Lys
20 25 30

Arg Leu Ile Leu Lys Lys Ala Thr Gln
35 40

<210> 10178

<211> 48

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 10178

Arg Met Lys Trp Tyr Arg Arg Leu Phe Arg Trp Ile Lys Arg Leu Asp
1 5 10 15

Ala Lys Lys Asp Lys Lys Arg Lys Arg Ala Leu Tyr Trp Ser His Cys
20 25 30

Leu Leu Lys Pro Ala Tyr Asp Leu His Ala Ala Leu Lys Cys Pro Thr
35 40 45

<210> 10179

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 10179

Leu Trp Arg Leu Met Lys Arg Leu Met Arg Phe Tyr Lys Arg Asn Trp
1 5 10 15

Glu Trp Lys Arg Thr Thr Leu Ala Pro Arg Asp Asp Ala Ala Leu Lys
20 25 30

<210> 10180

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 10180

Lys Tyr Arg Leu Trp Lys Lys Leu Tyr Lys Arg Ile Lys Arg Tyr Trp
1 5 10 15

Val Ala Asn Glu Ala Lys Leu Leu Thr Gly Leu Pro
20 25

<210> 10181

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 10181

Lys Met Arg Phe Leu Arg Lys Leu Leu Lys Trp Phe Thr Arg Tyr Phe
1 5 10 15

Ser Lys Arg Gln Val Arg Ala Pro Leu Gly Ser Ala Arg Leu
20 25 30

<210> 10182

<211> 60

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 10182

Lys Phe Lys Trp Met Pro Arg Tyr Ile Arg Lys Leu Arg Lys Ala Leu
1 5 10 15

Thr Val Pro Cys Asp Ala Arg Leu Asn Gly Phe Arg Leu His Lys Lys
20 25 30

Ala Leu Trp Ile Phe Lys Gly Asp Leu Arg Pro Leu Ala Leu Lys Ala
35 40 45

Lys Arg Arg Asn Ser Val Arg Ala Arg His Phe Gln
50 55 60

<210> 10183
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 10183

Arg Trp Lys Leu Phe His Arg Met Met Lys Lys Trp Asn Lys Cys Arg
 1 5 10 15

Leu Ala Ala Gly Lys Gly Leu Leu Glu Glu Ala Pro Ala
 20 25

<210> 10184
 <211> 76
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 10184

Arg Ile Lys Phe Phe Asn Lys Leu Met Arg Arg Trp Arg Arg Arg Arg
 1 5 10 15

Gln Tyr Leu Lys Arg Ser Arg Met Lys His Arg Met Ala Leu Lys Met
 20 25 30

Ala Arg Phe Pro Gln Leu Cys Leu Leu Leu Ala Asn Lys Ala Asn Gln
 35 40 45

Ala Gln Tyr Lys Met Ile Ala Ala Lys Arg Ala Ala Met Ala Ala Arg
 50 55 60

Ala Tyr Ala Phe His Asn Glu Gly Leu Met Trp Ile
 65 70 75

<210> 10185
 <211> 52
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 10185

Lys Leu Lys Trp Tyr Arg Arg Trp Met Lys Arg Leu His Asn Ala Asp
 1 5 10 15

Leu Arg Arg Ser Leu Ala Asn Gln Leu Ile Ser Glu Phe Met Val Ala
 20 25 30

Arg Glu Arg Thr Leu Lys Gln Ala Arg Leu Ala Thr Ala Arg Gly Tyr
 35 40 45

Ser Ala Leu Ala
 50

<210> 10186
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 10186

Leu Leu Lys Leu Leu Ser Lys Met Tyr Lys Lys Leu Lys Cys Ala Ala
 1 5 10 15

Trp Arg Leu Pro Lys His Lys Val Arg Ala Asn Phe Ile Lys Leu Pro
 20 25 30

Arg

<210> 10187
 <211> 63
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 10187

Phe Ile Arg Leu Trp Lys Arg Phe Leu Arg Lys Met Pro Thr Ala Cys
 1 5 10 15

Met Gly Leu Lys Ala Leu Val Arg Ala Arg Arg Lys Leu Glu Ala Phe
 20 25 30

Arg Cys Trp Gln Ala Arg Asp Asp Val Arg Asn Lys Leu Ala Leu Tyr

35

40

45

Leu Lys Lys Glu Gly Gln Met Thr Ile Lys Arg Leu Lys Phe Arg
 50 55 60

<210> 10188

<211> 94

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 10188

Arg Tyr Arg Trp Ile Gln Lys Met Phe Arg Leu Leu Lys Lys Leu Met
 1 5 10 15

Lys Ile Arg Ala Tyr Pro Ala His Ala Asp Arg Phe Asp Lys Cys Asn
 20 25 30

Ala Pro Asn Ile Thr Leu Arg Asp Cys Ala Cys Ala Arg Arg Arg Leu
 35 40 45

Arg Arg Ala Leu Leu Val Lys Arg Gly Gln Lys Ala Leu Leu Leu Lys
 50 55 60

Met Asp Leu Ala Leu Phe Leu Ala Leu His Arg Leu Ala Ala Arg Leu
 65 70 75 80

Leu Lys Gln Met Leu Leu Phe Met Trp Asp Arg Arg Lys Phe
 85 90

<210> 10189

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 10189

Leu Phe Lys Ile Leu Arg Arg Met Ile Lys Arg Tyr Arg Asn Ser Ala
 1 5 10 15

Leu Arg Leu Phe His Ala Arg Leu Asn Cys Leu Leu Pro Gly Ala Arg
 20 25 30

Gly Arg Pro
35

<210> 10190
<211> 46
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 10190

Arg Trp Arg Phe Tyr Lys Lys Leu Leu Arg Lys Leu Gln Arg Tyr Trp
1 5 10 15

Leu Ala Met Arg Arg His Leu Lys Ala Asn Cys Ala Leu Asp Asn Pro
20 25 30

Lys Leu Ala Lys Gln Lys Ala Gly Ala Lys Arg Ile Asp Arg
35 40 45

<210> 10191
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 10191

Arg Tyr Lys Trp Leu Lys Arg Leu Leu Arg Ile Tyr Arg Arg Lys Leu
1 5 10 15

His Trp His Pro Glu Leu Ala Lys Gln Leu Arg Thr Leu Lys Lys Leu
20 25 30

<210> 10192
<211> 67
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 10192

Arg Trp Lys Leu Tyr Asn Arg Tyr Tyr Arg Met Phe Lys Lys Arg Leu
1 5 10 15

Ala Met Arg Ala Val Val Lys Ala Ala Lys Val Tyr Asp Lys Ala Ile
 20 25 30

Leu Ala Cys Gln Ala Leu Leu Met Cys Gln Arg Met Pro Thr Cys Ala
 35 40 45

Leu Glu Leu Arg Asn Gln Leu Arg Arg Lys Ala Lys Ala Phe Ala Pro
 50 55 60

Asn Asn Arg
 65

<210> 10193
 <211> 45
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 10193

Lys Ile Lys Leu Met Lys Arg Ile Leu Lys Phe Leu His Lys Cys Ala
 1 5 10 15

Leu Arg Trp Met Tyr Arg Ile Ala Val Asn Lys Ala Val Leu Arg Arg
 20 25 30

Pro Met Lys Tyr Cys Phe Lys Leu Leu Arg Gln Ala
 35 40 45

<210> 10194
 <211> 38
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 10194

Tyr Ile Lys Leu Trp Lys Arg Leu Leu Arg Tyr Met Lys His Leu Arg
 1 5 10 15

Ala Lys Glu Phe Pro Ala Gly Asn Arg Gly Arg Thr Lys Ala Arg Cys
 20 25 30

Leu Gln Ala Lys Met Gln

35

<210> 10195

<211> 37

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 10195

Leu Phe Arg Phe Leu Cys Lys Phe Tyr Lys Lys Leu Arg Gln Met Leu
 1 5 10 15

Leu Lys Phe Pro Ala Lys Arg Ala Ile Met Lys Val Val Arg Ser Ala
 20 25 30

Arg Gly Asp Leu Arg
 35

<210> 10196

<211> 98

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 10196

Leu Met Lys Tyr Phe Arg Arg Leu Phe Lys Arg Leu Arg Ser Arg Ser
 1 5 10 15

Lys Arg Tyr Lys Asn Cys Cys Ala Arg Arg Lys Thr Met Ala Phe Pro
 20 25 30

Ala Ala Arg Ala Lys Leu Met Leu Lys Ala Cys Ala Leu Cys Ile Leu
 35 40 45

Pro Ser Glu Lys Asn Tyr Tyr His Ala Leu Arg Leu Lys Arg Ala Ala
 50 55 60

Leu Ser Trp Arg Phe Leu Ala Asp Ala Arg Arg Thr Lys Leu Lys Tyr
 65 70 75 80

Leu Arg Ala Lys Tyr Tyr Arg Arg Arg Pro Leu Phe Tyr Pro Glu Ser
 85 90 95

Arg Val

<210> 10197

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 10197

Leu Phe Lys Leu Leu Arg Lys Met Ile Lys Met Leu Pro Arg Lys Leu
1 5 10 15

Asp Lys Tyr Gln Gln Ser Ala Ala Gly
20 25

<210> 10198

<211> 41

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 10198

Leu Met Lys Leu Leu Thr Lys Leu Met Lys Leu Phe Arg Lys Glu Lys
1 5 10 15

Ala Lys Leu Ala Val Thr Cys His Ala Lys Lys Leu Asp Phe Cys Asp
20 25 30

Leu Lys Gln Ser Thr Leu His Phe Lys
35 40

<210> 10199

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 10199

Arg Phe Arg Leu Leu Arg Arg Tyr Ile Lys Arg Trp His Pro His Arg
1 5 10 15

Tyr Ala Ala Asp Leu Pro Lys Ala Lys Ala Lys Ile Arg Leu Pro Asp
 20 25 30

Tyr Asp Arg Ala Thr Ala Thr Lys
 35 40

<210> 10200

<211> 76

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 10200

Arg Trp Arg Ile Phe Arg Lys Leu Met Arg Lys Leu His Lys Lys Arg
 1 5 10 15

His Phe Gln Lys Asn Met Leu Tyr Lys Gln Leu Cys Phe Ala Ala Phe
 20 25 30

His Lys Leu Ala Trp Ser Tyr Arg Ser Arg Ala Met Phe Arg Tyr Tyr
 35 40 45

Lys Arg Lys Ala Trp Gly Arg Leu Met Ile Leu Leu Ala Ala Ala Trp
 50 55 60

Tyr Arg Arg Arg Met Phe Arg Phe Leu Leu Lys Ala
 65 70 75

<210> 10201

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 10201

Leu Tyr Arg Trp Trp Arg Lys Phe Tyr Lys Trp Phe Arg Lys Gln Ala
 1 5 10 15

Phe Trp Gln Ser Ala Ala Leu Arg Lys Leu Ala
 20 25

<210> 10202

<211> 71
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 10202

Tyr Met Lys Leu Leu Arg Arg Tyr Leu Arg Arg Leu Thr Arg Val Lys
 1 5 10 15

Ala Arg Leu Trp Lys Ile Arg Lys Asp Val Leu Val His Pro Met Arg
 20 25 30

Lys Leu Glu Ile Ser Lys Met Glu Lys Ala Asn Thr Pro Leu Val Arg
 35 40 45

Phe Leu Leu Ala Lys Trp Met Ala Ala Tyr Leu Leu Lys Asn Glu Arg
 50 55 60

Gln Lys Arg Arg Arg Lys His
 65 70

<210> 10203
 <211> 54
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 10203

Leu Phe Arg Phe Leu Thr Lys Phe Leu Lys Leu Leu Gln Gln Ala Lys
 1 5 10 15

Leu Leu Tyr Asp Asn Arg Trp Lys Arg Lys Lys Trp Glu Cys Leu Phe
 20 25 30

Ala Lys Ala Lys Leu Leu Thr Lys Trp Met Pro Ile Leu Lys Ala Ser
 35 40 45

Thr Leu Ala Trp Arg Trp
 50

<210> 10204
 <211> 42
 <212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 10204

Lys Phe Arg Tyr Tyr Ser Arg Leu Leu Arg Lys Leu Arg Lys Gly His
1 5 10 15

Lys Leu Cys Lys Lys Val Ala Ile Met Leu His Cys Leu Asp Arg Leu
20 25 30

Ser Arg Leu Leu Lys Arg Met Thr Pro His
35 40

<210> 10205

<211> 54

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 10205

Phe Phe Lys Leu Phe Lys Lys Ile Met Lys Tyr Ile Lys Arg Asp Ala
1 5 10 15

Leu Phe Arg Trp Ile Ser Ala Tyr Trp Ala Ala Leu Leu Leu Trp Leu
20 25 30

Lys Cys Ala Leu Tyr Pro Arg Arg Lys Lys Lys Ile Val Lys Ala Ile
35 40 45

Glu Glu Leu Ala Arg Lys
50

<210> 10206

<211> 66

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 10206

Phe Leu Arg Met Leu Cys Lys Leu Leu Arg Lys Met Lys His Met Met
1 5 10 15

Leu Arg Lys Glu Lys Asp Leu Ala Ile Met Met His Lys Ala Ile Ala
 20 25 30

Lys Arg Asn Leu Ala Leu Thr Glu Ala Phe Ile Arg Ala Met Ala Leu
 35 40 45

Glu Leu Thr Asn Leu Gly Ala Asn Met Gly Arg Lys Arg His Ala Leu
 50 55 60

Gly Arg
 65

<210> 10207
 <211> 53
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 10207

Lys Ile Arg Trp Leu Lys Arg Trp Leu Lys Leu Phe Arg Arg Arg Asn
 1 5 10 15

Met Ala Arg Arg His Met Pro Ala Gly Thr Arg Leu Lys Leu Lys Arg
 20 25 30

Arg Ala Leu Gly Ile Asp Ser Ala Leu Tyr Cys Cys Pro Leu Ala Arg
 35 40 45

Arg Lys Thr Gly Trp
 50

<210> 10208
 <211> 85
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 10208

Leu Phe Lys Leu Leu Arg Lys Met Met Lys Arg Leu Gln Cys His Arg
 1 5 10 15

Lys Tyr Gln Lys Tyr Ala Leu Arg Ala Lys Ile Gly Thr Arg Asp Lys

20 25 30
 Lys Leu Lys Ile Ile Lys Ala Ser Leu Lys Asn Gln Thr Gly Gln Ala
 35 40 45
 Pro Lys Glu Cys Arg Thr Ala Ser Met Ser His Lys Asn Leu His Glu
 50 55 60
 Ile Arg Ala Phe Arg Leu Ala Thr Arg Arg Leu Arg Lys Ala Leu Leu
 65 70 75 80
 Leu Leu Tyr His Ala
 85

<210> 10209

<211> 100

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 10209

Arg Trp Lys Leu Ile Arg Arg Leu Phe Arg Arg Leu Arg Thr Arg Lys
 1 5 10 15

Leu Leu Leu Phe Leu Asp Arg Asn Asp Pro Phe Cys Ala Thr Leu Asn
 20 25 30

Gly Lys Arg Gln Phe Lys Asp Ala Lys Arg Asp Asn Ala Leu Ser Met
 35 40 45

Phe Thr Pro Leu Pro Trp Leu Leu Gln Met Met Lys Leu Asp Cys Glu
 50 55 60

Arg Leu Arg Ile Val Ala Arg Lys Leu Val His Val Arg Lys Leu Lys
 65 70 75 80

Lys Ala Ala Arg Lys Glu Lys Arg Pro Met Pro Ala Leu Tyr Asp Lys
 85 90 95

Ala Trp Ala Gln
 100

<210> 10210

<211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 10210

Leu Leu Arg Tyr Tyr Asn Arg Leu Leu Lys Arg Leu Arg Lys Leu Gln
 1 5 10 15

Phe Glu Asn Ala Leu Gly Gln His Arg Asp Arg Leu Lys
 20 25

<210> 10211
 <211> 48
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 10211

Arg Phe Lys Leu Leu Lys Arg Trp Trp Lys Leu Phe Cys Ser Val Cys
 1 5 10 15

Arg Lys Arg Met Lys Val Ser Ala Lys Tyr Arg Thr Asp Leu Ala Cys
 20 25 30

Asp Ala Leu Leu Lys Arg Pro Trp Asn Ile Leu Lys Arg Leu Met Ala
 35 40 45

<210> 10212
 <211> 60
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 10212

Arg Leu Lys Leu Leu Lys Arg Phe Leu Lys Met Trp Lys Thr His Cys
 1 5 10 15

Trp Ala Trp Gln Leu Phe Arg Met Lys Phe Lys Thr Ala Met Ser Leu
 20 25 30

Lys Arg Thr Ala Ala Gly Lys Ala Ala Cys Arg His Asn Tyr Thr Ser

35

40

45

Ala Phe Ala Lys Leu Gln Met Leu Glu Ala Ala Lys
 50 55 60

<210> 10213
 <211> 26
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 10213

Ile Phe Arg Leu Leu Lys Arg Leu Leu Arg Arg Leu Lys His Cys Ala
 1 5 10 15

Gly Val Lys Ile Lys Pro Ala Asn Trp Phe
 20 25

<210> 10214
 <211> 56
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 10214

Leu Phe Arg Leu Met Thr Arg Leu Phe Arg Trp Phe Arg Arg Ala His
 1 5 10 15

Ala Glu Gln Lys Gln Arg Ala Ala Leu Gly Met Lys Lys Leu Lys Leu
 20 25 30

Lys Ala Cys Ala Cys Met Lys Ala Ile Arg Gly Ser Arg Lys Ala Pro
 35 40 45

Gly Cys Ser Gln Leu Leu Arg Thr
 50 55

<210> 10215
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 10215

Lys Leu Lys Leu Met Thr Lys Ile Met Lys Leu Phe Arg Lys Leu Lys
1 5 10 15

Arg Asn Ser Tyr Lys Leu Ala Ala Lys Leu Ala Lys Cys His Glu Ala
20 25 30

Thr Leu Trp Leu Lys Trp Ala Tyr
35 40

<210> 10216

<211> 54

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 10216

Lys Trp Lys Tyr Leu His Lys Leu Leu Lys Leu Leu Arg Ser Pro Ala
1 5 10 15

Leu Arg Asn Arg Lys Leu Ile Leu Arg Gln Asn Leu Thr Arg Tyr Tyr
20 25 30

His Arg Gln Trp Arg Pro Asp Ile Arg Ala Lys Ala Lys Gln Ala Trp
35 40 45

Phe Thr Pro Ala Ala Lys
50

<210> 10217

<211> 45

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 10217

Trp Phe Arg Ile Phe Lys Lys Leu Leu Lys Arg Met Arg Arg Leu Leu
1 5 10 15

Leu Val Ser Tyr Glu Ala Cys Ala Lys Gln Arg Phe Asn Leu Val Ala
20 25 30

Pro Ile Arg Tyr Gln Thr Phe Leu Arg Arg Lys Ala Arg
 35 40 45

<210> 10218
 <211> 74
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 10218

Arg Met Arg Met Tyr Ser Arg Phe Leu Lys Arg Trp Gln Cys Gln Lys
 1 5 10 15

Ala Leu Leu Leu Gly Ala Arg Cys Tyr Thr Gln Lys Ser Ala Leu Cys
 20 25 30

Arg Lys Tyr Leu Gln Asn Lys Gln Gln Leu Lys Ala Glu Gln Ala Leu
 35 40 45

Lys Gln Arg Ala Arg Ala Leu His Trp Arg Trp Arg Arg Ala Lys Thr
 50 55 60

His Trp Asp Val Arg Phe Arg Lys Leu Lys
 65 70

<210> 10219
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 10219

Arg Ile Arg Met Trp Gln Lys Leu Leu Arg Arg Phe Gln Thr Tyr Pro
 1 5 10 15

Phe Leu Leu Leu Ser Ala Leu Pro Ala Lys Asn Arg Ala
 20 25

<210> 10220
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 10220

Trp	Trp	Lys	Leu	Leu	Ser	Arg	Ile	Leu	Lys	Leu	Met	Arg	Arg	Lys	Gln
1				5					10					15	

Ser	Ala	His	Lys	Met	Ala	Leu	Ala	Lys	Lys	Tyr	Arg	Thr	Pro	Arg	Leu
			20					25					30		

Arg	Asp	Ile
		35

<210> 10221

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 10221

Arg	Tyr	Arg	Leu	Leu	Lys	Lys	Leu	Tyr	Arg	Arg	Tyr	His	Lys	Ala	Leu
1				5					10					15	

Phe	Asp	Val	Leu	Leu	Ser	Met	Asp	Lys
			20					25

<210> 10222

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 10222

Lys	Phe	Arg	Leu	Tyr	His	Arg	Leu	Ile	Arg	Arg	Tyr	Lys	Arg	Arg	Glu
1				5					10					15	

Ala	Leu	Ala	Leu	Arg	Leu	Glu	Leu	His	Phe	Phe	His	Arg	Phe	Arg	Thr
			20					25					30		

Ser	Ala	Met	Ser	Pro	Ala	Trp	Ala
			35				40

<210> 10223

<211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 10223

Lys Trp Arg Leu Ile Arg Arg Met Met Arg Arg Leu Thr Ser Lys Ala
 1 5 10 15

Ala Arg Ala Val Leu Pro Met Leu Ser Pro Gln Glu Lys Pro Lys Lys
 20 25 30

Tyr Leu

<210> 10224
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 10224

Arg Ile Lys Phe Phe Arg Lys Leu Phe Arg Leu Phe Lys Asn Lys Ala
 1 5 10 15

Arg Thr Arg Ile Arg Ala Arg Ala Ala Cys Ala Pro Met Cys Leu Leu
 20 25 30

Leu

<210> 10225
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 10225

Arg Leu Arg Met Leu His Arg Phe Phe Arg Arg Phe Ser Ser Met Leu
 1 5 10 15

Leu Ala Glu Phe Gly Arg Arg Lys Ala Lys Gly Ala Thr His Arg Ala

20

25

30

<210> 10226

<211> 81

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 10226

Lys Ile Arg Phe Ile His Lys Tyr Ile Lys Tyr Trp Lys Arg Arg Arg
 1 5 10 15

Asp His Arg Phe Ala Ala Ala Ala Lys Lys Leu Arg Ala Gly Arg His
 20 25 30

Lys Leu Leu Leu Phe Arg Leu Asn Gln Ala Thr Glu His Ala Arg Cys
 35 40 45

Phe Gln Arg Leu Gln Lys Arg Leu Ile Tyr Leu Lys Lys Leu Leu Arg
 50 55 60

Asp Thr Cys Lys His Arg Lys Ala Gly Ile Leu Ala Lys Ala Ala Lys
 65 70 75 80

Met

<210> 10227

<211> 41

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 10227

Met Leu Lys Tyr Phe Asn Lys Leu Ile Arg Arg Trp Arg Lys Met Pro
 1 5 10 15

Lys Leu Ser Ala Ala Ala Ala Leu Val Glu Lys Glu Arg Ile Ala Met
 20 25 30

Phe Arg Leu Ile Asp Ala Lys Lys Thr
 35 40

<210> 10228
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 10228

Leu Tyr Arg Tyr Tyr Cys Arg Leu Leu Arg Leu Leu Lys Thr Glu Lys
 1 5 10 15

Asn Leu Tyr Ala Gln Leu Gly Gly Leu Val Lys Phe Lys Lys Asn Ala
 20 25 30

Arg Trp Ala
 35

<210> 10229
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 10229

Phe Tyr Arg Leu Tyr Thr Lys Phe Phe Lys Arg Leu Lys Arg Ser Arg
 1 5 10 15

His Ile Leu Ala Arg Lys Ala Leu Lys Ala Ala Thr Trp Gln His His
 20 25 30

Arg Cys

<210> 10230
 <211> 46
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 10230

Phe Leu Lys Leu Leu Arg Arg Ile Tyr Arg Arg Phe Asn Arg Arg Trp
 1 5 10 15

Asp Lys Glu Ala His Ala Met Asn Leu Pro Lys Phe Leu Gln Leu Phe
 20 25 30

Arg Leu Gln Pro Lys Arg Leu Ala Arg Val Ala Arg Gly Ser
 35 40 45

<210> 10231

<211> 85

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 10231

Phe Tyr Arg Leu Met Lys Lys Ile Leu Lys Arg Leu Arg Lys Leu Ala
 1 5 10 15

Ile Ala Phe Leu Arg Arg Ala Met Pro Arg Leu Val Ala Gly Arg Pro
 20 25 30

Arg Leu Leu Trp Arg Ala Leu Ala Pro Leu Ser Arg His Leu Lys Arg
 35 40 45

Gln Cys Arg Gln Leu Ile Ala Pro Lys Ala Asn Leu Phe Glu Ile Arg
 50 55 60

Tyr Thr Ser Leu Glu Ala Leu Thr Leu Lys Ala Lys Pro Leu Leu His
 65 70 75 80

Thr Met Lys Leu Ile
 85

<210> 10232

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 10232

Ile Phe Arg Leu Leu Gln Arg Leu Met Arg Leu Met Pro Lys Ala Ala
 1 5 10 15

Thr Arg Asp Phe Arg Glu Arg Arg Tyr Ala Ala Leu Ala His Phe Ala

20

25

30

Tyr Lys Pro Glu
35

<210> 10233

<211> 82

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 10233

Arg Phe Lys Leu Leu Arg Arg Ile Ile Lys Arg Leu Arg Lys Gln Ile
1 5 10 15

Lys Glu Ala Lys Leu Lys Asp Glu Leu Arg Met Arg Leu Leu Ala Cys
20 25 30

Leu Leu Ile Arg Ala Arg Pro Leu Val Phe Arg Arg Lys Ala Lys Ala
35 40 45

Asn Met Pro Gly Tyr Gly Gln Pro Ala Lys Ile Met Gly Leu Lys Thr
50 55 60

Thr Asp Asp Asp Ala Cys Asp Leu Lys Ala Lys Met Gln Asp Leu Leu
65 70 75 80

Ser Lys

<210> 10234

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 10234

Leu Leu Arg Leu Met Cys Lys Met Leu Arg Lys Ile Arg Gln Arg Arg
1 5 10 15

Lys Trp Ile Ala Phe Lys Ala Thr Lys Ala Leu Pro Leu Leu Ala His
20 25 30

Leu Leu Thr
35

<210> 10235
<211> 75
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 10235

Tyr Leu Lys Phe Leu Lys Lys Leu Tyr Arg Tyr Phe Arg Lys Ala Ile
1 5 10 15

Cys Gly Leu Lys Phe Ile Ala Leu Lys Glu Val Val Leu Ala Asn Ala
20 25 30

Leu Lys Arg Arg Arg Leu Cys Trp Lys Ala Lys Tyr Trp Thr Leu Leu
35 40 45

Pro Tyr Lys Glu Arg Trp Arg Ala Arg Ala Thr Tyr Trp Tyr Tyr Leu
50 55 60

Leu Arg Ala Val Asn Gly Ala Gln Ala Met Arg
65 70 75

<210> 10236
<211> 50
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 10236

Arg Phe Lys Ile Phe Arg Lys Met Leu Arg Leu Phe Arg Arg Tyr Lys
1 5 10 15

Thr Leu Glu Leu Lys Cys Ala Glu Arg Ile Lys Tyr Ala Asp Arg Ala
20 25 30

Lys Cys Lys Cys Val Arg Ala Cys Leu Ala Gln Leu Glu Ala Phe Met
35 40 45

Cys Leu

50

<210> 10237
 <211> 54
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 10237

Met Ile Lys Trp Leu Arg Arg Trp Phe Lys Lys Leu Arg Cys Ala His
 1 5 10 15

Tyr Leu Tyr Ala Ala Thr Arg Lys Leu His Ala Trp Arg Arg Leu Lys
 20 25 30

Lys Met Ala Met Leu Glu Leu Lys Ala Ser Lys Ala Arg Ser Trp Leu
 35 40 45

Arg Asp Ser Ala Trp Met
 50

<210> 10238
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 10238

Lys Leu Arg Leu Phe His Lys Ile Ile Lys Leu Leu Gln Pro Leu Glu
 1 5 10 15

Arg Ala Lys Ser
 20

<210> 10239
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Computer-generated peptide variant

<400> 10239

Arg Trp Arg Met Leu His Arg Phe Ile Arg Phe Leu Arg His Ala Val

1 5 10 15

Trp Asp Tyr Leu Ala Leu Ala Ala Lys Ala Lys Thr His
20 25

<210> 10240
<211> 37
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 10240

Lys Leu Lys Trp Trp Arg Lys Trp Ile Lys Leu Phe Arg Arg Arg His
1 5 10 15

Pro Ala Pro Trp Ala Asp Lys Ala Trp Leu Ala Phe Gln Leu Leu Arg
20 25 30

Leu Met Arg Glu Val
35

<210> 10241
<211> 56
<212> PRT
<213> Artificial Sequence

<220>
<223> Computer-generated peptide variant

<400> 10241

Arg Trp Arg Leu Leu Lys Arg Leu Leu Arg Tyr Phe Cys Arg Ala Trp
1 5 10 15

Gly Ala Thr Met Arg Thr Lys Ala Asp Lys Phe Arg Leu Lys Gly Ala
20 25 30

Leu Ser Asn Lys Arg Ser Arg Lys Asn Ala Leu Met Asn Ala Ala Met
35 40 45

Leu Phe Lys Leu Tyr Lys Asp Pro
50 55

<210> 10242
<211> 33
<212> PRT

<213> Artificial Sequence

<220>

<223> Computer-generated peptide variant

<400> 10242

Phe	Phe	Lys	Tyr	Leu	Lys	Lys	Leu	Tyr	Lys	Arg	Phe	Lys	Lys	Pro	Leu
1				5				10						15	

Gly	Ala	Pro	Arg	Arg	Leu	Ser	Asn	Asn	Pro	Arg	Leu	Leu	Ala	Thr	Arg
			20				25						30		

Leu