

SEQUENCE LISTING

<110> NEON THERAPEUTICS, INC.

<120> METHOD AND SYSTEMS FOR PREDICTION OF HLA CLASS II-SPECIFIC
EPITOPES AND CHARACTERIZATION OF CD4+ T CELLS

<130> 50401-735.601

<140> PCT/US2019/068084

<141> 2019-12-20

<150> 62/891,101

<151> 2019-08-23

<150> 62/855,379

<151> 2019-05-31

<150> 62/826,827

<151> 2019-03-29

<150> 62/783,914

<151> 2018-12-21

<160> 96

<170> PatentIn version 3.5

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Pro	Val	Ser	Lys	Met	Arg	Met	Ala	Thr	Pro	Leu	Leu	Met	Gln	Ala
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peptide

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Pro	Glu	Ala	Ser	Leu	Tyr	Gly	Ala	Leu	Ser	Lys	Gly	Ser	Gly	Gly
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peptide

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Pro Ala Thr Tyr Ile Leu Ile Leu Lys Glu Phe Cys Leu Val Gly
1 5 10 15

<210> 4
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peptide

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<400> 4
His His His His His His His His His His His His His His His
1 5 10 15

<210> 5
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peptide

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His His His His His His His His
1 5

<210> 6
<211> 16
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Glu	Gly	Arg	Gly	Ser	Leu	Thr	Cys	Gly	Asp	Val	Glu	Asn	Pro	Gly	Pro
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<210> 7

<211> 17

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Ala	Thr	Asn	Phe	Ser	Leu	Lys	Gln	Ala	Gly	Asp	Val	Glu	Asn	Pro	Gly
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Pro

<210> 8

<211> 19

<212> PRT

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<400> 8

Gln	Cys	Thr	Asn	Tyr	Ala	Leu	Lys	Leu	Ala	Gly	Asp	Val	Glu	Ser	Asn
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Pro Gly Pro

<210> 9

<211> 21

<212> PRT

<213> Artificial Sequence

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<400> 9

Val Lys Gln Thr Leu Asn Phe Asp Leu Lys Leu Ala Gly Asp Val Glu
1 5 10 15

Ser Asn Pro Gly Pro
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<210> 10

<211> 11

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peptide

<400> 10

Gly Ser Gly Gly Ser Gly Gly Ser Ala Gly Gly
1 5 10

<210> 11

<211> 15

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peptide

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Gly Leu Asn Asp Ile Phe Glu Ala Gln Lys Ile Glu Trp His Glu
1 5 10 15

<210> 12

<211> 25

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peptide

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Ser Gly Gly Ser Gly Gly Ser Ala Gly Gly Gly Leu Asn Asp Ile Phe
1 5 10 15

Glu Ala Gln Lys Ile Glu Trp His Glu
20 25

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peptide

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Val Lys Gln Thr Leu Asn Phe Asp Leu Leu Lys Leu Ala Gly Asp Val
1 5 10 15

Glu Ser Asn Pro Gly Pro
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peptide

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Gly Ser Tyr Pro Tyr Asp Val Pro Asp Tyr Ala
1 5 10

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<400> 15
His His His His His His
1 5

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Gly	Lys	Ala	Pro	Ile	Leu	Ile	Ala	Thr	Asp	Val	Ala	Ser	Arg	Gly	Leu
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Asp Val

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<211> 17

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Gly	Lys	Ala	Pro	Ile	Leu	Ile	Ala	Thr	Asp	Val	Ala	Ser	Arg	Gly	Leu
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Asp

<210> 18

<211> 17

<212> PRT

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Lys	Ala	Pro	Ile	Leu	Ile	Ala	Thr	Asp	Val	Ala	Ser	Arg	Gly	Leu	Asp
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Val

<210> 19

<211> 16

<212> PRT

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<400> 19

Lys Ala Pro Ile Leu Ile Ala Thr Asp Val Ala Ser Arg Gly Leu Asp
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<210> 20

<211> 10

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<210> 21

<211> 24

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 21

Leu Pro Lys Pro Pro Lys Pro Val Ser Lys Met Arg Met Ala Thr Pro
1 5 10 15

Leu Leu Met Gln Ala Leu Pro Met
20

<210> 22

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 22

Leu Pro Leu Lys Met Leu Asn Ile Pro Ser Ile Asn Val His
1 5 10

<210> 23
<211> 13
<212> PRT
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<223> Description of Artificial Sequence: Synthetic peptide

<400> 23

Pro Lys Tyr Val Lys Gln Asn Thr Leu Lys Leu Ala Thr
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<210> 24
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<223> Description of Artificial Sequence: Synthetic peptide

<400> 24

Pro Val Val His Phe Phe Lys Asn Ile Val Thr Pro Arg Thr Pro Pro
1 5 10 15

Tyr

<210> 25
<211> 17
<212> PRT
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<223> Description of Artificial Sequence: Synthetic peptide

<400> 25

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

Glu

<210> 26
<211> 16
<212> PRT
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<400> 26

Thr	Leu	Ser	Val	Thr	Phe	Ile	Gly	Ala	Ala	Pro	Leu	Ile	Leu	Ser	Tyr
1				5					10					15	

<210> 27

<211> 17

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<400> 27

Pro	Val	Val	His	Phe	Phe	Lys	Asn	Ile	Val	Thr	Pro	Arg	Thr	Pro	Pro
1				5					10					15	

Tyr

<210> 28

<211> 15

<212> PRT

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<400> 28

Tyr	Ala	Arg	Ile	Arg	Arg	Asp	Gly	Cys	Leu	Leu	Arg	Leu	Val	Asp
1				5					10					15

<210> 29

<211> 16

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<220>

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

<210> 30
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<400> 30
Tyr Ala Arg Ile Lys Arg Asp Gly Cys Leu Leu Arg Leu Val Asp
1 5 10 15

<210> 31
<211> 15
<212> PRT
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<400> 31
Pro Pro Ile Asp Gly Tyr Pro Asn His Pro Cys Phe Glu Pro Glu
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<210> 32
<211> 15
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Pro Gln Ile Leu Pro Tyr Pro Ala Pro Glu Glu Ala Gln Glu Asn
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<210> 33
<211> 15
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<400> 33

Pro Gln Leu Arg Gln Trp Trp Ala Gln Gly Ala Asp Pro Leu Ala
1 5 10 15

<210> 34

<211> 15

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<223> Description of Artificial Sequence: Synthetic
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<400> 34

Leu Leu Arg Pro Gly Gln Ile Val Ala Phe Asp Ser Thr Ala Gln
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<210> 35

<211> 15

<212> PRT

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<223> Description of Artificial Sequence: Synthetic
peptide

<400> 35

Ala Ser Leu Arg Ser Trp Pro Ser Thr Trp Ala Pro Trp Ala Ser
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<210> 36

<211> 9

<212> PRT

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peptide

<400> 36

Gly Lys Ser Val Val Cys Glu Ala Leu
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<210> 37

<211> 15

<212> PRT

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<223> Description of Artificial Sequence: Synthetic
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<400> 37

Leu Pro Asn Gly Gly Phe Ala Ser Ile Leu Leu Tyr Lys Ile Glu
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<210> 38

<211> 16

<212> PRT

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Phe Cys Lys Gly Ser Phe Ala Ser Ile Leu Lys Leu Leu Gly Glu Phe
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<210> 39

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<223> Any amino acid

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Gly Asp Thr Gly Leu Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
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Xaa Xaa Xaa Gly Gly Gly Gly Ser Leu Val Pro Arg Gly Ser Gly Gly
20 25 30

Gly Gly Ser Gly Asp Thr Arg Pro Arg Phe
35 40

<210> 40

<211> 13

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 40

Asp Arg Tyr Glu Met Glu Asp Gly Lys Val Ile Glu Arg
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<210> 41

<211> 16

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<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 41

Gly Gly His Met Thr Thr Leu Ser Gly Glu Glu Ile Ser Tyr Thr Gly
1 5 10 15

<210> 42

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 42

Lys Thr Phe Asp Gln Leu Thr Pro Glu Glu Ser Lys Glu Arg
1 5 10

<210> 43

<211> 14

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 43

Leu Pro Arg Tyr Glu Ala Leu Arg Gly Glu Gln Pro Pro Asp
1 5 10

<210> 44

<211> 16

<212> PRT

<213> Artificial Sequence

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<400> 44

Asp	Lys	Lys	Asn	Ile	Ile	Leu	Glu	Glu	Gly	Lys	Glu	Ile	Leu	Val	Gly
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<210> 45

<211> 14

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<400> 45

Lys	Glu	Ala	Ala	Tyr	His	Pro	Glu	Val	Ala	Pro	Asp	Val	Arg
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<210> 46

<211> 15

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<400> 46

Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln
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<210> 47

<211> 16

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 47

Gly	His	Pro	Asp	Leu	Gln	Gly	Gln	Pro	Ala	Glu	Glu	Ile	Phe	Glu	Ser
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<210> 48

<211> 16

<212> PRT
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<223> Description of Artificial Sequence: Synthetic peptide

<400> 48

Leu	Gly	Lys	Asn	Phe	Asp	Phe	Gln	Lys	Ser	Asp	Arg	Ile	Asn	Ser	Glu
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<210> 49

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Met	Pro	Ser	Phe	Val	Pro	Ser	Asp	Gly	Arg	Gln	Ala	Ala	Asp
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Gly	Leu	Arg	Tyr	Lys	Lys	Leu	His	Asp	Pro	Lys	Gly	Trp	Ile	Thr
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<211> 15

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Thr	Ile	Glu	Lys	Phe	Glu	Lys	Glu	Ala	Ala	Glu	Met	Gly	Lys	Gly
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<210> 52
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<400> 52

Gly Val Gln Arg Gly Leu Val Gly Glu Ile Ile Lys Arg
1 5 10

<210> 53

<211> 11

<212> PRT

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 53

Thr Trp Phe Asn Gln Pro Ala Arg Lys Ile Arg
1 5 10

<210> 54

<211> 14

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<400> 54

Glu Phe Lys Lys Tyr Glu Met Met Lys Glu His Glu Arg Arg
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<210> 55

<211> 15

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 55

Ser Pro His Ala Phe Lys Thr Glu Ser Gly Glu Glu Thr Asp Leu
1 5 10 15

<210> 56
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Asn Asn Leu Cys Pro Ser Gly Ser Asn Ile Ile Ser Asn
1 5 10

<210> 57
<211> 14
<212> PRT
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Glu Arg Pro Tyr Trp Asp Met Ser Asn Gln Asp Val Ile Asn
1 5 10

<210> 58
<211> 14
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<400> 58
Val Gly Gly Thr Met Val Arg Ser Gly Gln Asp Pro Tyr Ala
1 5 10

<210> 59
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<400> 59

Lys Glu Ala Leu Glu Pro Ser Gly Glu Asn Val Ile Gln
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<210> 60

<211> 15

<212> PRT

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<223> Description of Artificial Sequence: Synthetic
peptide

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Arg Gln Arg Arg Leu Leu Gly Ser Val Gln Gln Asp Leu Glu Arg
1 5 10 15

<210> 61

<211> 14

<212> PRT

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<220>

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peptide

<400> 61

Ile Asp Arg Ala Leu Asn Glu Ala Cys Glu Ser Val Ile Gln
1 5 10

<210> 62

<211> 16

<212> PRT

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<220>

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peptide

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Asn Glu Asn Asn Leu Glu Ser Ala Lys Gly Leu Leu Asp Asp Leu Arg
1 5 10 15

<210> 63

<211> 16

<212> PRT

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peptide

<400> 63

Asp Ser Lys Ser Leu Arg Thr Ala Leu Gln Lys Glu Ile Thr Thr Arg
1 5 10 15

<210> 64

<211> 13

<212> PRT

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<223> Description of Artificial Sequence: Synthetic
peptide

<400> 64

Thr Gly Gly Asp Ile Asn Ala Ala Ile Glu Arg Leu Leu
1 5 10

<210> 65

<211> 16

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic
peptide

<400> 65

Ser Leu Asp Asn Leu Lys Ala Ser Val Ser Gln Val Glu Ala Asp Leu
1 5 10 15

<210> 66

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 66

Asp Glu Arg Arg Phe Lys Ala Ala Asp Leu Asn Gly Asp Leu
1 5 10

<210> 67

<211> 15

<212> PRT

<213> Artificial Sequence

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<400> 67

Lys	Pro	Ala	Pro	Ala	Leu	Arg	Ser	Ala	Arg	Ser	Ala	Pro	Glu	Asn
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<210> 68

<211> 14

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<400> 68

Arg	Thr	Ser	Tyr	Val	Thr	Ser	Val	Glu	Glu	Asn	Thr	Val	Asp
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<210> 69

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<400> 69

Arg	Ala	Val	Glu	Phe	Gln	Glu	Ala	Gln	Ala	Tyr	Ala	Asp	Asp	Asn
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<210> 70

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Arg	Asp	Leu	Ala	Gln	Tyr	Asp	Ala	Ala	His	His	Glu	Glu	Phe
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<210> 71

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<400> 71

Gly Gln Gln Trp Thr Tyr Glu Gln Arg Lys Ile Val Glu
1 5 10

<210> 72

<211> 14

<212> PRT

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 72

Glu Gly Glu Tyr Gln Gly Ile Pro Arg Ala Glu Ser Gly Gly
1 5 10

<210> 73

<211> 16

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<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 73

Ser Pro Glu Glu Phe Asp Glu Val Ser Arg Ile Val Gly Ser Val Glu
1 5 10 15

<210> 74

<211> 15

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 74

Ile Ala Gly Glu Trp Gln Val Leu His Arg Glu Gly Ala Ile Thr
1 5 10 15

<210> 75

<211> 15

<212> PRT
<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 75

Glu	Pro	Ala	Glu	Phe	Ile	Ile	Asp	Thr	Arg	Asp	Ala	Gly	Tyr	Gly
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<210> 76

<211> 15

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 76

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

<210> 77

<211> 16

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 77

Gly	Met	Asn	Ile	Val	Glu	Ala	Met	Glu	Arg	Phe	Gly	Ser	Arg	Asn	Gly
1			5				10						15		

<210> 78

<211> 15

<212> PRT

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 78

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

<210> 79
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<212> PRT
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<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 79
Gly Pro Phe Ser Phe Ser Val Ile Asp Lys Pro Pro Gly
1 5 10

<210> 80
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 80
Leu Asn Glu Leu Lys Pro Ile Ser Lys Gly Gly His Ser Ser
1 5 10

<210> 81
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 81
Asp Val Asn Glu Tyr Ala Pro Val Phe Lys Glu Lys Ser Tyr Lys
1 5 10 15

<210> 82
<211> 15
<212> PRT
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<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 82
Leu Ala Pro Thr Trp Glu Glu Leu Ser Lys Lys Glu Phe Pro Gly
1 5 10 15

<210> 83
<211> 15
<212> PRT
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<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 83
Thr Arg Asn Glu Val Ile Pro Met Ser His Pro Gly Ala Val Asp
1 5 10 15

<210> 84
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 84
Glu Asn Pro Tyr Phe Ala Pro Asn Pro Lys Ile Ile Arg Gln
1 5 10

<210> 85
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 85
Tyr Glu Asp Lys Phe Arg Asn Asn Leu Lys Gly Lys Arg Leu Asp
1 5 10 15

<210> 86
<211> 15
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<400> 86

Lys Asn Gly Ala Tyr Lys Val Glu Thr Lys Lys Tyr Asp Phe Tyr
1 5 10 15

<210> 87

<211> 15

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic
peptide

<400> 87

Gly Glu Gly Leu Phe Gln Pro Ala His Arg Tyr Pro Asp Ala Gly
1 5 10 15

<210> 88

<211> 15

<212> PRT

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<223> Description of Artificial Sequence: Synthetic
peptide

<400> 88

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

<210> 89

<211> 15

<212> PRT

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<223> Description of Artificial Sequence: Synthetic
peptide

<400> 89

Val Pro Ala Trp Thr Arg Ala Trp Arg Asn Ser Ser Pro Lys Gly
1 5 10 15

<210> 90

<211> 15

<212> PRT

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<223> Description of Artificial Sequence: Synthetic
peptide

<400> 90

Leu His Pro Glu Leu Leu Pro Leu Trp Arg Leu Leu Pro Asp Gly
1 5 10 15

<210> 91

<211> 15

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic
peptide

<400> 91

Asp Gly Gly Ser Tyr Phe Ser Leu Trp Lys Ile Trp Thr Gln Val
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<210> 92

<211> 15

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic
peptide

<400> 92

His Glu Gly Gly Phe Pro Pro Leu Leu Arg Arg Ala Ala Glu Asp
1 5 10 15

<210> 93

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<223> Description of Artificial Sequence: Synthetic
peptide

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Leu Ser Pro Val Trp Cys Leu Gln Trp Lys Leu Ser Gly Thr Asp
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<211> 15

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<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic peptide

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Lys	Asn	Thr	Ile	Val	Tyr	Thr	Thr	Lys	Gln	Val	Gln	Ser	Cys	Gln
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<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic peptide

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Asn	Asn	Glu	Gln	Phe	Gln	Trp	Lys	Ile	Arg	His	Val	Gly	Pro	Glu
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<223> Description of Artificial Sequence: Synthetic peptide

<400> 96

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