

146392026840SEQLIST

SEQUENCE LISTING

<110> Genentech, Inc.

<120> CYSTINE KNOT SCAFFOLD PLATFORM

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<150> US 62/219,063

<151> 2015-09-15

<160> 568

<170> FastSEQ for Windows Version 4.0

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<211> 28

<212> PRT

<213> Ecballium elaterium

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Ala	Gly	Cys	Val	Cys	Gly	Pro	Asn	Gly	Phe	Cys	Gly				
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<221> VARIANT

<222> 1, 2, 3, 4, 5, 6

<223> Xaa = Any Amino Acid

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Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
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<210> 3

<211> 7

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<222> 1, 2, 3, 4, 5, 6, 7

<223> Xaa = Any Amino Acid

<400> 3

Xaa Xaa Xaa Xaa Xaa Xaa Xaa

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<223> Xaa = Any Amino Acid

<400> 4

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

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<222> 1, 2, 3, 4, 5, 6, 7, 8, 9

<223> Xaa = Any Amino Acid

<400> 5

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

1

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<222> 1, 2, 3, 4, 5, 6, 7, 8, 9, 10

<223> Xaa = Any Amino Acid

<400> 6

Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
1				5					10

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<222> 1, 2, 3, 4, 5

<223> Xaa = any amino acid or an unnatural amino acid

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Xaa	Xaa	Xaa	Xaa	Xaa
1				5

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Pro	Thr	Thr	Arg	Phe	Lys	Gln	Tyr
1				5			

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Gln Asp Pro Thr Phe Asn Trp Ala Leu Tyr
1 5 10

<210> 10

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<400> 10

Gln Leu Met Gln Pro Phe Trp Gly
1 5

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Arg Asp Leu Asp Val Lys Trp Asp
1 5

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Arg Thr Pro Trp Glu Pro His Asp Ile Thr
1 5 10

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Thr	Thr	Pro	Trp	Pro	Pro	His	Glu	Ile	Met
1				5					10

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Val	Thr	Pro	Trp	Lys	Pro	His	Trp	Ile	Asn
1				5					10

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Gly	Pro	Asn	Gly	Phe
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Gln	Met	Tyr	Gln	Ser
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<400> 17

His Trp Tyr Gln Ser
1 5

<210> 18

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<400> 18

Gln Tyr Tyr Ser Ser
1 5

<210> 19

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<400> 19

Gly Pro Asn Gly Phe
1 5

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<221> VARIANT

<222> 3

<223> Xaa = N or Y or W

<220>

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<223> Xaa = G or D or T or Q or R or S

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<221> VARIANT

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<223> Xaa = F or A or E or S

<400> 20

Xaa Xaa Xaa Xaa Xaa

1 5

<210> 21

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Gly Cys Pro Thr Thr Arg Phe Lys Gln Tyr Cys Lys Gln Asp Ser Asp

1 5 10 15

Cys Leu Ala Gly Cys Val Cys Gly Pro Asn Gly Phe Cys Gly

20 25 30

<210> 22

<211> 32

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<400> 22

Gly Cys Gln Asp Pro Thr Phe Asn Trp Ala Leu Tyr Cys Lys Gln Asp

1 5 10 15

Ser Asp Cys Leu Ala Gly Cys Val Cys Gln Met Tyr Gln Ser Cys Gly

20 25 30

<210> 23

<211> 30

<212> PRT

<213> Artificial Sequence

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<223> Synthetic Construct

<400> 23

Gly	Cys	Gln	Leu	Met	Gln	Pro	Phe	Trp	Gly	Cys	Lys	Gln	Asp	Ser	Asp
1				5				10					15		
Cys	Leu	Ala	Gly	Cys	Val	Cys	His	Trp	Tyr	Gln	Ser	Cys	Gly		
			20					25					30		

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<223> Synthetic Construct

<400> 24

Gly	Cys	Arg	Asp	Leu	Asp	Val	Lys	Trp	Asp	Cys	Lys	Gln	Asp	Ser	Asp
1				5				10					15		
Cys	Leu	Ala	Gly	Cys	Phe	Cys	Gln	Tyr	Tyr	Ser	Ser	Cys	Gly		
			20					25					30		

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Gly	Cys	Arg	Thr	Pro	Trp	Glu	Pro	His	Asp	Ile	Thr	Cys	Lys	Gln	Asp
1				5				10						15	
Ser	Asp	Cys	Leu	Ala	Gly	Cys	Val	Cys	Gly	Pro	Asn	Gly	Phe	Cys	Gly
			20					25					30		

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<400> 26

Gly	Cys	Thr	Thr	Pro	Trp	Pro	Pro	His	Glu	Ile	Met	Cys	Lys	Gln	Asp
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

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1	5	10	15
Ser Asp Cys	Leu Ala Gly Cys Val	Cys Gly Pro Asn Gly	Phe Cys Gly
	20	25	30

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<400> 27															
Gly Cys Val Thr	Pro Trp Lys Pro	His Trp Ile Asn	Cys Lys Gln Asp												
1	5	10	15												
Ser Asp Cys	Leu Ala Gly Cys Val	Cys Gly Pro Asn Gly	Phe Cys Gly												
	20	25	30												

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<400> 28							
Asp Val Leu Gln	Pro Phe Trp Gly						
1	5						

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<400> 29							
Gln Ile Ser Gln	Pro Phe Trp Gly						
1	5						

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<400> 30

Asp Arg Met Gln Pro Leu Trp Gly
1 5

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<400> 31

Asn Leu Met Leu Pro Phe Trp Gly
1 5

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<400> 32

Gln Arg Thr Gln Pro Phe Trp Gly
1 5

<210> 33

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Asn Ile Met Leu Pro Phe Trp Gly
1 5

<210> 34

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<400> 34

Asp Pro Met Gln Pro Phe Trp Gly
1 5

<210> 35

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<400> 35

Asp Val Met Gln Pro Tyr Trp Gly
1 5

<210> 36

<211> 8

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<400> 36

Asp Ile Met Gln Pro Leu Trp Gly
1 5

<210> 37

<211> 8

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<400> 37

Gln Leu Leu Gln Pro Leu Trp Gly
1 5

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<400> 38

Asn Pro Met Leu Pro Leu Trp Gly
1 5

<210> 39

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<223> Synthetic Construct

<400> 39

Lys Leu Phe Glu Pro Leu Trp Gly
1 5

<210> 40

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<221> VARIANT

<222> 2

<223> Xaa = L or V or I or R or P or V

<220>

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<222> 3

<223> Xaa = M or L or S or T or F

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<223> Xaa = Q or E or L or H

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<222> 6

<223> Xaa = F or L or M or Y or S

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<400> 40

Xaa Xaa Xaa Xaa Pro Xaa Trp Gly
1 5

<210> 41

<211> 5

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<223> Synthetic Construct

<400> 41

His Phe Tyr Asn Ser
1 5

<210> 42

<211> 5

<212> PRT

<213> Artificial Sequence

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<400> 42

Leu Trp Tyr Lys Ser
1 5

<210> 43

<211> 5

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<400> 43

Arg Trp Tyr His Ser
1 5

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<400> 44

Arg Trp Tyr Gln Ser
1 5

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<400> 45

Gln Tyr Tyr Gln Ser
1 5

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<223> Synthetic Construct

<400> 46

His Trp Tyr Asn Ser
1 5

<210> 47

<211> 30

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<223> Synthetic Construct

<400> 47

Gly	Cys	Asp	Val	Leu	Gln	Pro	Phe	Trp	Gly	Cys	Lys	Gln	Asp	Ser	Asp
1				5				10						15	
Cys	Leu	Ala	Gly	Cys	Val	Cys	His	Trp	Tyr	Gln	Ser	Cys	Gly		
			20					25					30		

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<223> Synthetic Construct

<400> 48

Gly	Cys	Gln	Ile	Ser	Gln	Pro	Phe	Trp	Gly	Cys	Lys	Gln	Asp	Ser	Asp
1				5				10					15		
Cys	Leu	Ala	Gly	Cys	Val	Cys	His	Phe	Tyr	Asn	Ser	Cys	Gly		
			20					25					30		

<210> 49

<211> 30

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<400> 49

Gly	Cys	Asp	Arg	Met	Gln	Pro	Leu	Trp	Gly	Cys	Lys	Gln	Asp	Ser	Asp
1				5				10					15		
Cys	Leu	Ala	Gly	Cys	Val	Cys	Leu	Trp	Tyr	Lys	Ser	Cys	Gly		
			20					25					30		

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<400> 50

Gly	Cys	Asn	Leu	Met	Leu	Pro	Phe	Trp	Gly	Cys	Lys	Gln	Asp	Ser	Asp
1				5				10					15		
Cys	Leu	Ala	Gly	Cys	Val	Cys	Arg	Trp	Tyr	His	Ser	Cys	Gly		
			20					25					30		

<210> 51

<211> 30

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<223> Synthetic Construct

<400> 51

Gly	Cys	Gln	Arg	Thr	Gln	Pro	Phe	Trp	Gly	Cys	Lys	Gln	Asp	Ser	Asp
1				5				10					15		
Cys	Leu	Ala	Gly	Cys	Val	Cys	Arg	Trp	Tyr	Gln	Ser	Cys	Gly		

20

25

30

<210> 52

<211> 30

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<223> Synthetic Construct

<400> 52

Gly	Cys	Asn	Ile	Met	Leu	Pro	Phe	Trp	Gly	Cys	Lys	Gln	Asp	Ser	Asp
1				5				10					15		
Cys	Leu	Ala	Gly	Cys	Val	Cys	Gln	Tyr	Tyr	Gln	Ser	Cys	Gly		
			20					25					30		

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<400> 53

Gly	Cys	Asn	Pro	Met	Leu	Pro	Phe	Trp	Gly	Cys	Lys	Gln	Asp	Ser	Asp
1				5				10					15		
Cys	Leu	Ala	Gly	Cys	Val	Cys	His	Trp	Tyr	Gln	Ser	Cys	Gly		
			20					25					30		

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<223> Synthetic Construct

<400> 54

Gly	Cys	Asp	Pro	Met	Gln	Pro	Phe	Trp	Gly	Cys	Lys	Gln	Asp	Ser	Asp
1				5				10					15		
Cys	Leu	Ala	Gly	Cys	Val	Cys	Arg	Trp	Tyr	Gln	Ser	Cys	Gly		
			20					25					30		

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<220>

<223> Synthetic Construct

<400> 55

Gly	Cys	Asp	Val	Met	Gln	Pro	Tyr	Trp	Gly	Cys	Lys	Gln	Asp	Ser	Asp
1				5				10					15		
Cys	Leu	Ala	Gly	Cys	Val	Cys	His	Trp	Tyr	Asn	Ser	Cys	Gly		
			20					25					30		

<210> 56

<211> 30

<212> PRT

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<220>

<223> Synthetic Construct

<400> 56

Gly	Cys	Asp	Ile	Met	Gln	Pro	Leu	Trp	Gly	Cys	Lys	Gln	Asp	Ser	Asp
1				5				10					15		
Cys	Leu	Ala	Gly	Cys	Val	Cys	His	Trp	Tyr	Gln	Ser	Cys	Gly		
			20					25					30		

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<211> 30

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<220>

<223> Synthetic Construct

<400> 57

Gly	Cys	Gln	Leu	Leu	Gln	Pro	Leu	Trp	Gly	Cys	Lys	Gln	Asp	Ser	Asp
1				5				10					15		
Cys	Leu	Ala	Gly	Cys	Val	Cys	Arg	Trp	Tyr	Gln	Ser	Cys	Gly		
			20					25					30		

<210> 58

<211> 30

<212> PRT

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<223> Synthetic Construct

<400> 58

Gly	Cys	Asn	Pro	Met	Leu	Pro	Leu	Trp	Gly	Cys	Lys	Gln	Asp	Ser	Asp
1				5				10					15		

146392026840SEQLIST

Cys Leu Ala Gly Cys Val Cys His Trp Tyr Gln Ser Cys Gly
 20 25 30

<210> 59
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 <212> PRT
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<400> 59
 Gly Cys Lys Leu Phe Glu Pro Leu Trp Gly Cys Lys Gln Asp Ser Asp
 1 5 10 15
 Cys Leu Ala Gly Cys Val Cys Arg Trp Tyr Glu Ser Cys Gly
 20 25 30

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 Lys Asn Pro Leu Phe Asn Trp Ala Leu Tyr
 1 5 10

<210> 61
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<400> 61
 Gln Asp Pro Thr Val Asn Trp Ala Val Tyr
 1 5 10

<210> 62
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Gln Asp Pro Thr Phe Asn Trp Ala Glu Tyr
1 5 10

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<223> Synthetic Construct

<400> 63

Gln Asp Pro Ser Leu Asn Trp Ala Asp Tyr
1 5 10

<210> 64

<211> 10

<212> PRT

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<400> 64

Leu Asp Arg Thr Leu Asn Trp Ala Leu Tyr
1 5 10

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<211> 10

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<400> 65

Leu Asp Pro Ser Phe Asn Trp Ser Leu Tyr
1 5 10

<210> 66

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146392026840SEQLIST

<400> 66

Arg Asp Leu Thr Ile Asn Trp Ala Leu Phe
1 5 10

<210> 67

<211> 10

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<213> Artificial Sequence

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<223> Synthetic Construct

<400> 67

Leu Asp Pro Thr Val Asn Trp Ala Leu Phe
1 5 10

<210> 68

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 68

Gln Asp Pro Lys Leu Asn Trp Ala Val Tyr
1 5 10

<210> 69

<211> 10

<212> PRT

<213> Artificial Sequence

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<400> 69

Leu Asp Pro Ser Phe Asp Trp Ala Leu Tyr
1 5 10

<210> 70

<211> 10

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 <223> Xaa = F or V or L or I

<220>
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 <223> Xaa = N or D

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 <223> Xaa = A or S or G

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 <222> 9
 <223> Xaa = L or V or E or T or Q or D

<220>
 <221> VARIANT
 <222> 10
 <223> Xaa = F or Y

<400> 70
 Xaa Xaa Xaa Xaa Xaa Xaa Trp Xaa Xaa Xaa
 1 5 10

<210> 71

<211> 5
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<400> 71
Gln Leu Phe Asp Ser
1 5

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<400> 72
Gln Phe Tyr Gln Ser
1 5

<210> 73
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<400> 73
Gln Leu Tyr Gln Ser
1 5

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<400> 74
Gln Met His Gln Ser
1 5

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<400> 75
Gln Met Tyr Asn Ser
1 5

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<400> 76
Gln Met Tyr Asp Ser
1 5

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<220>
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<400> 77
Gln His Tyr Lys Thr
1 5

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<400> 78
Gln Leu Phe Asn Ser
1 5

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<400> 79
Gln Leu Tyr Asn Ser
1 5

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<223> Xaa = M or L or F or H

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<223> Xaa = D or Q or N or K

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Xaa Xaa Xaa Xaa Xaa
1 5

<210> 81
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146392026840SEQLIST

<212> PRT

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<400> 81

Gly	Cys	Lys	Asn	Pro	Leu	Phe	Asn	Trp	Ala	Leu	Tyr	Cys	Lys	Gln	Asp
1				5					10					15	
Ser	Asp	Cys	Leu	Ala	Gly	Cys	Val	Cys	Gln	Leu	Phe	Asp	Ser	Cys	Gly
			20					25					30		

<210> 82

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 82

Gly	Cys	Gln	Asp	Pro	Thr	Val	Asn	Trp	Ala	Val	Tyr	Cys	Lys	Gln	Asp
1				5					10					15	
Ser	Asp	Cys	Leu	Ala	Gly	Cys	Val	Cys	Gln	Phe	Tyr	Gln	Ser	Cys	Gly
			20					25					30		

<210> 83

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 83

Gly	Cys	Gln	Asp	Pro	Thr	Phe	Asn	Trp	Ala	Glu	Tyr	Cys	Lys	Gln	Asp
1				5					10					15	
Ser	Asp	Cys	Leu	Ala	Gly	Cys	Val	Cys	Gln	Leu	Tyr	Gln	Ser	Cys	Gly
			20					25					30		

<210> 84

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 84

146392026840SEQLIST

Gly	Cys	Gln	Asp	Pro	Thr	Phe	Asn	Trp	Ala	Glu	Tyr	Cys	Lys	Gln	Asp
1				5					10					15	
Ser	Asp	Cys	Leu	Ala	Gly	Cys	Val	Cys	Gln	Met	Tyr	Gln	Ser	Cys	Gly
			20					25					30		

<210> 85

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 85

Gly	Cys	Gln	Asp	Pro	Ser	Leu	Asn	Trp	Ala	Asp	Tyr	Cys	Lys	Gln	Asp
1				5					10					15	
Ser	Asp	Cys	Leu	Ala	Gly	Cys	Val	Cys	Gln	Met	His	Gln	Ser	Cys	Gly
			20					25					30		

<210> 86

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 86

Gly	Cys	Leu	Asp	Arg	Thr	Leu	Asn	Trp	Ala	Leu	Tyr	Cys	Lys	Gln	Asp
1				5					10					15	
Ser	Asp	Cys	Leu	Ala	Gly	Cys	Val	Cys	Gln	Met	Tyr	Asn	Ser	Cys	Gly
			20					25					30		

<210> 87

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 87

Gly	Cys	Leu	Asp	Pro	Ser	Phe	Asn	Trp	Ser	Leu	Tyr	Cys	Lys	Gln	Asp
1				5					10					15	
Ser	Asp	Cys	Leu	Ala	Gly	Cys	Val	Cys	Gln	Met	Tyr	Asp	Ser	Cys	Gly
			20					25					30		

<210> 88

146392026840SEQLIST

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

<220>
 <223> Synthetic Construct

<400> 88

Gly	Cys	Arg	Asp	Leu	Thr	Ile	Asn	Trp	Ala	Leu	Phe	Cys	Lys	Gln	Asp
1				5					10					15	
Ser	Asp	Cys	Leu	Ala	Gly	Cys	Val	Cys	Gln	Met	Phe	Asn	Ser	Cys	Gly
			20					25					30		

<210> 89
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 89

Gly	Cys	Leu	Asp	Pro	Thr	Val	Asn	Trp	Ala	Leu	Phe	Cys	Lys	Gln	Asp
1				5					10					15	
Ser	Asp	Cys	Leu	Ala	Gly	Cys	Val	Cys	Gln	His	Tyr	Lys	Thr	Cys	Gly
			20					25					30		

<210> 90
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 90

Gly	Cys	Gln	Asp	Pro	Lys	Leu	Asn	Trp	Ala	Val	Tyr	Cys	Lys	Gln	Asp
1				5					10					15	
Ser	Asp	Cys	Leu	Ala	Gly	Cys	Val	Cys	Gln	Leu	Phe	Asn	Ser	Cys	Gly
			20					25					30		

<210> 91
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

146392026840SEQLIST

<400> 91

Gly	Cys	Leu	Asp	Pro	Ser	Phe	Asp	Trp	Ala	Leu	Tyr	Cys	Lys	Gln	Asp
1				5				10						15	
Ser	Asp	Cys	Leu	Ala	Gly	Cys	Val	Cys	Gln	Leu	Tyr	Asn	Ser	Cys	Gly
			20					25					30		

<210> 92

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 92

Pro	Arg	Ile	Leu	Met	Arg
1				5	

<210> 93

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 93

Lys	Gln	Asp	Ser	Asp
1				5

<210> 94

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 94

Gly	Gln	Ser	Phe	Glu
1				5

<210> 95

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 95

Gly Leu Asp Tyr Asp
1 5

<210> 96

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 96

Gly Pro Asp Leu Gln
1 5

<210> 97

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 97

Gly Arg Asp Phe Glu
1 5

<210> 98

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>

<221> VARIANT

<222> 1

<223> Xaa = K or G or Q or S or N

<220>

<221> VARIANT

<222> 2

<223> Xaa = Q or L or P or A or V or T or R or W or K or G or Y

<220>

146392026840SEQLIST

<221> VARIANT

<222> 3

<223> Xaa = D or S or E or N

<220>

<221> VARIANT

<222> 4

<223> Xaa = S or F or Y or L or F or Q or M

<220>

<221> VARIANT

<222> 5

<223> Xaa = D or E or N or A or L or F or H or Q

<400> 98

Xaa Xaa Xaa Xaa Xaa

1 5

<210> 99

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 99

Gly Cys Asn Ile Met Leu Pro Phe Trp Gly Cys Gly Gln Ser Phe Glu

1 5 10 15

Cys Leu Ala Gly Cys Val Cys Gln Tyr Tyr Gln Ser Cys Gly

20 25 30

<210> 100

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 100

Gly Cys Asn Ile Met Leu Pro Phe Trp Gly Cys Gly Leu Asp Tyr Asp

1 5 10 15

Cys Leu Ala Gly Cys Val Cys Gln Tyr Tyr Gln Ser Cys Gly

20 25 30

<210> 101

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 101

Gly	Cys	Asn	Ile	Met	Leu	Pro	Phe	Trp	Gly	Cys	Gly	Pro	Asp	Leu	Gln
1				5					10					15	
Cys	Leu	Ala	Gly	Cys	Val	Cys	Gln	Tyr	Tyr	Gln	Ser	Cys	Gly		
			20					25					30		

<210> 102

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 102

Gly	Cys	Asn	Ile	Met	Leu	Pro	Phe	Trp	Gly	Cys	Gly	Arg	Asp	Phe	Glu
1				5					10					15	
Cys	Leu	Ala	Gly	Cys	Val	Cys	Gln	Tyr	Tyr	Gln	Ser	Cys	Gly		
			20					25					30		

<210> 103

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 103

Gly	Cys	Asn	Ile	Met	Leu	Pro	Phe	Trp	Gly	Cys	Gly	Arg	Asp	Phe	Glu
1				5					10					15	
Cys	Leu	Gln	Gln	Cys	Ile	Cys	Gln	Tyr	Tyr	Gln	Ser	Cys	Gly		
			20					25					30		

<210> 104

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 104

Gly	Cys	Asn	Ile	Met	Leu	Pro	Phe	Trp	Gly	Cys	Gly	Arg	Asp	Phe	Glu
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

146392026840SEQLIST

1		5		10		15
Cys	Val	Glu	Arg	Cys	Ile	Gln
		20			25	
						30

<210> 105

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 105

Gly	Cys	Asn	Ile	Met	Leu	Pro	Phe	Trp	Gly	Cys	Gly	Arg	Asp	Phe	Glu
1				5				10						15	
Cys	Met	Ser	Asp	Cys	Ile	Cys	Gln	Tyr	Tyr	Gln	Ser	Cys	Gly		
			20					25					30		

<210> 106

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 106

Gly	Cys	Asn	Ile	Met	Leu	Pro	Phe	Trp	Gly	Cys	Gly	Arg	Asp	Phe	Glu
1				5				10						15	
Cys	Met	Asn	Gln	Cys	Ile	Cys	Gln	Tyr	Tyr	Gln	Ser	Cys	Gly		
			20					25					30		

<210> 107

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 107

Gly	Cys	Asn	Ile	Met	Leu	Pro	Phe	Trp	Gly	Cys	Gly	Arg	Asp	Phe	Glu
1				5				10						15	
Cys	Met	Gln	Thr	Cys	Ile	Cys	Gln	Tyr	Tyr	Gln	Ser	Cys	Gly		
			20					25					30		

<210> 108

<211> 30

146392026840SEQLIST

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 108

Gly	Cys	Asn	Ile	Met	Leu	Pro	Phe	Trp	Gly	Cys	Gly	Arg	Asp	Phe	Glu
1				5				10					15		
Cys	Val	Tyr	Gln	Cys	Ile	Cys	Gln	Tyr	Tyr	Gln	Ser	Cys	Gly		
			20					25					30		

<210> 109

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 109

Gly	Cys	Asn	Ile	Met	Leu	Pro	Phe	Trp	Gly	Cys	Gly	Arg	Asp	Phe	Glu
1				5				10					15		
Cys	Phe	Ile	Asn	Cys	Ile	Cys	Gln	Tyr	Tyr	Gln	Ser	Cys	Gly		
			20					25					30		

<210> 110

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 110

Gly	Cys	Asn	Ile	Met	Leu	Pro	Phe	Trp	Gly	Cys	Gly	Arg	Asp	Phe	Glu
1				5				10					15		
Cys	Val	Ser	Gln	Cys	Ile	Cys	Gln	Tyr	Tyr	Gln	Ser	Cys	Gly		
			20					25					30		

<210> 111

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 111

146392026840SEQLIST

Gly	Cys	Asn	Ile	Met	Leu	Pro	Phe	Trp	Gly	Cys	Gly	Arg	Asp	Phe	Glu
1				5				10					15		
Cys	Val	Thr	Glu	Cys	Ile	Cys	Gln	Tyr	Tyr	Gln	Ser	Cys	Gly		
			20				25						30		

<210> 112

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 112

Gly	Cys	Asn	Ile	Met	Leu	Pro	Phe	Trp	Gly	Cys	Gly	Arg	Asp	Phe	Glu
1				5				10					15		
Cys	Phe	Tyr	Glu	Cys	Ile	Cys	Gln	Tyr	Tyr	Gln	Ser	Cys	Gly		
			20				25						30		

<210> 113

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 113

Gly	Cys	Asn	Ile	Met	Leu	Pro	Phe	Trp	Gly	Cys	Gly	Arg	Asp	Phe	Glu
1				5				10					15		
Cys	Met	Glu	Gln	Cys	Ile	Cys	Gln	Tyr	Tyr	Gln	Ser	Cys	Gly		
			20				25						30		

<210> 114

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 114

Gly	Cys	Asn	Ile	Met	Leu	Pro	Phe	Trp	Gly	Cys	Gly	Arg	Asp	Phe	Glu
1				5				10					15		
Cys	Val	Tyr	Arg	Cys	Ile	Cys	Gln	Tyr	Tyr	Gln	Ser	Cys	Gly		
			20				25						30		

<210> 115

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>

<221> VARIANT

<222> 1

<223> Xaa = K or P or Q or R

<220>

<221> VARIANT

<222> 2

<223> Xaa = K or T or L or D

<220>

<221> VARIANT

<222> 3

<223> Xaa = W or T or M or L

<220>

<221> VARIANT

<222> 4

<223> Xaa = Q or R or D

<220>

<221> VARIANT

<222> 5

<223> Xaa = W or F or P or V

<220>

<221> VARIANT

<222> 6

<223> Xaa = W or K or F

<220>

<221> VARIANT

<222> 7

<223> Xaa = Y or Q or W

<220>

<221> VARIANT

<222> 8

<223> Xaa = M or Y or G or D

<400> 115

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

1

5

<210> 116

<400> 116
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<210> 117

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 117

Gly Glu Asn Phe Leu
1 5

<210> 118

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 118

Gly Pro Asp Ile Asp
1 5

<210> 119

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 119

Gly Arg Asp Met Asp
1 5

<210> 120

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

146392026840SEQLIST

<400> 120

Glu Met Asp Phe Asp

1 5

<210> 121

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>

<221> VARIANT

<222> 1

<223> Xaa = K or G or D or A or E

<220>

<221> VARIANT

<222> 2

<223> Xaa = Q or E or R or V or P or D or M or G or N or L or A or F

<220>

<221> VARIANT

<222> 3

<223> Xaa = D or N or Y or S

<220>

<221> VARIANT

<222> 4

<223> Xaa = S or F or L or I or M or Y or V or N or E

<220>

<221> VARIANT

<222> 5

<223> Xaa = D or L or Q or S or E or T or L or A or N

<400> 121

Xaa Xaa Xaa Xaa Xaa

1 5

<210> 122

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

146392026840SEQLIST

<400> 122

Gly	Cys	Asp	Val	Met	Gln	Pro	Tyr	Trp	Gly	Cys	Gly	Glu	Asn	Phe	Leu
1				5				10					15		
Cys	Leu	Ala	Gly	Cys	Val	Cys	His	Trp	Tyr	Asn	Ser	Cys	Gly		
			20					25					30		

<210> 123

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 123

Gly	Cys	Asp	Val	Met	Gln	Pro	Tyr	Trp	Gly	Cys	Gly	Pro	Asp	Ile	Asp
1				5				10					15		
Cys	Leu	Ala	Gly	Cys	Val	Cys	His	Trp	Tyr	Asn	Ser	Cys	Gly		
			20					25					30		

<210> 124

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 124

Gly	Cys	Asp	Val	Met	Gln	Pro	Tyr	Trp	Gly	Cys	Gly	Arg	Asp	Met	Asp
1				5				10					15		
Cys	Leu	Ala	Gly	Cys	Val	Cys	His	Trp	Tyr	Asn	Ser	Cys	Gly		
			20					25					30		

<210> 125

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 125

Gly	Cys	Asp	Val	Met	Gln	Pro	Tyr	Trp	Gly	Cys	Glu	Met	Asp	Phe	Asp
1				5				10					15		
Cys	Leu	Ala	Gly	Cys	Val	Cys	His	Trp	Tyr	Asn	Ser	Cys	Gly		
			20					25					30		

146392026840SEQLIST

<210> 126
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 126
 Gly Cys Asp Val Met Gln Pro Tyr Trp Gly Cys Gly Glu Ser Leu Ser
 1 5 10 15
 Cys Leu Ala Gly Cys Val Cys His Trp Tyr Asn Ser Cys Gly
 20 25 30

<210> 127
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 127
 Asp Val Met Lys Pro Met Trp Gly
 1 5

<210> 128
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 128
 Asp Val Leu Asp Pro Thr Trp Gly
 1 5

<210> 129
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 129
 Asp Val Leu Gln Pro Leu Trp Gly

1

5

<210> 130
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> VARIANT
<222> 3
<223> Xaa = M or L

<220>
<221> VARIANT
<222> 4
<223> Xaa = Q or K or D

<220>
<221> VARIANT
<222> 6
<223> Xaa = Y or M or T or L

<400> 130
Asp Val Xaa Xaa Pro Xaa Trp Gly
1 5

<210> 131
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 131
Gln Trp Tyr Asn Ser
1 5

<210> 132
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

146392026840SEQLIST

<400> 132

Leu Trp Tyr Asn Ser
1 5

<210> 133

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 133

Arg Trp Tyr Asn Ser
1 5

<210> 134

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>

<221> VARIANT

<222> 1

<223> Xaa = H or L or Q or R

<400> 134

Xaa Trp Tyr Asn Ser
1 5

<210> 135

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 135

Gly	Cys	Asp	Val	Met	Lys	Pro	Met	Trp	Gly	Cys	Lys	Gln	Asp	Ser	Asp
1				5				10					15		
Cys	Leu	Ala	Gly	Cys	Val	Cys	Gln	Trp	Tyr	Asn	Ser	Cys	Gly		
			20					25					30		

<210> 136

146392026840SEQLIST

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

<220>
 <223> Synthetic Construct

<400> 136
 Gly Cys Asp Val Leu Asp Pro Thr Trp Gly Cys Lys Gln Asp Ser Asp
 1 5 10 15
 Cys Leu Ala Gly Cys Val Cys Leu Trp Tyr Asn Ser Cys Gly
 20 25 30

<210> 137
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 137
 Gly Cys Asp Val Leu Gln Pro Leu Trp Gly Cys Lys Gln Asp Ser Asp
 1 5 10 15
 Cys Leu Ala Gly Cys Val Cys Arg Trp Tyr Asn Ser Cys Gly
 20 25 30

<210> 138

<400> 138
 000

<210> 139
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 139
 Gly Cys Asp Val Met Gln Pro Tyr Trp Gly Cys Gly Pro Asp Ile Asp
 1 5 10 15
 Cys Phe Val Arg Cys Leu Cys His Trp Tyr Asn Ser Cys Gly
 20 25 30

<210> 140
 <211> 30

146392026840SEQLIST

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 140

Gly	Cys	Asp	Val	Met	Gln	Pro	Tyr	Trp	Gly	Cys	Gly	Pro	Asp	Ile	Asp
1				5				10					15		
Cys	Leu	Ser	Asn	Cys	Ile	Cys	His	Trp	Tyr	Asn	Ser	Cys	Gly		
			20					25					30		

<210> 141

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 141

Asn	Ile	Met	Leu	Pro	Tyr	Trp	Gly
1				5			

<210> 142

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 142

Gly	Cys	Asn	Ile	Met	Leu	Pro	Tyr	Trp	Gly	Cys	Gly	Arg	Asp	Phe	Glu
1				5				10					15		
Cys	Met	Glu	Gln	Cys	Ile	Cys	Gln	Tyr	Tyr	Gln	Ser	Cys	Gly		
			20					25					30		

<210> 143

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>

<221> VARIANT

<222> 3

146392026840SEQLIST

<223> Xaa = norleucine

<400> 143

Asn Ile Xaa Leu Pro Tyr Trp Gly
1 5

<210> 144

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>

<221> VARIANT

<222> 5

<223> Xaa = norleucine

<400> 144

Gly	Cys	Asn	Ile	Xaa	Leu	Pro	Phe	Trp	Gly	Cys	Gly	Arg	Asp	Phe	Glu
1				5					10					15	
Cys	Met	Ser	Asp	Cys	Ile	Cys	Gln	Tyr	Tyr	Gln	Ser	Cys	Gly		
			20					25					30		

<210> 145

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>

<221> VARIANT

<222> 5

<223> Xaa = norleucine

<400> 145

Gly	Cys	Asn	Ile	Xaa	Leu	Pro	Phe	Trp	Gly	Cys	Gly	Arg	Asp	Phe	Glu
1				5					10					15	
Cys	Val	Ser	Gln	Cys	Ile	Cys	Gln	Tyr	Tyr	Gln	Ser	Cys	Gly		
			20					25					30		

<210> 146

<211> 30

<212> PRT

<213> Artificial Sequence

146392026840SEQLIST

<220>

<223> Synthetic Construct

<220>

<221> VARIANT

<222> 5

<223> Xaa = norleucine

<400> 146

Gly	Cys	Asn	Ile	Xaa	Leu	Pro	Tyr	Trp	Gly	Cys	Gly	Arg	Asp	Phe	Glu
1				5					10					15	
Cys	Met	Glu	Gln	Cys	Ile	Cys	Gln	Tyr	Tyr	Gln	Ser	Cys	Gly		
			20					25					30		

<210> 147

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 147

Arg	Thr	Asn	Arg	Val	Lys	Gly	Gly
1				5			

<210> 148

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 148

Val	Asn	Arg	Val	Arg	Gly
1				5	

<210> 149

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 149

Met	Asn	His	Val	Lys	Ala	Arg	Arg
1				5			

<210> 150
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 150
Arg Ser Val Asn Lys Ile
1 5

<210> 151
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 151
Val Asn Lys Ile Lys Gly
1 5

<210> 152
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 152
Arg Asn Ser Ile Lys Arg
1 5

<210> 153
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 153
Val Ser Asn Arg Val Asn Lys Gly
1 5

<210> 154
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 154
Arg Gly Asn Ile Ile Lys
1 5

<210> 155
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 155
Arg Ser Gly Asn Thr Ile Arg Lys Arg Glu
1 5 10

<210> 156
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 156
Ala Ser Ser Asn Ser Ile Arg Gln Gly Trp
1 5 10

<210> 157
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 157
Arg Ser Asn Arg Ile Arg
1 5

<210> 158
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 158
Arg Ser Asn Lys Leu Arg Glu Ala Arg Gly
1 5 10

<210> 159
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 159
Val Asn Ser Val Lys Arg
1 5

<210> 160
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 160
Gly Ser Asn Lys Ile Arg Pro Arg
1 5

<210> 161
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 161
Asn Arg Ile Arg Asn Ser
1 5

<210> 162
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 162
Ser Arg Asn Ser Ile Lys
1 5

<210> 163
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 163
Ser Asn Tyr Val Lys Arg
1 5

<210> 164
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 164
Arg Ala Asn Arg Val Ser Gly Arg
1 5

<210> 165
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 165
Ser Asn Arg Val Lys Val Arg Ala
1 5

<210> 166
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 166
Glu Asn Arg Thr Lys Gly
1 5

<210> 167
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 167
Gly Asn Lys Ile Arg Ala
1 5

<210> 168
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 168
Ala Asn Arg Val Lys Arg Thr Ser
1 5

<210> 169
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 169
Ser Gly Gly Arg Asp
1 5

<210> 170
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 170
Gly Ser Ser Arg Asn
1 5

<210> 171
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 171
Gly Val Glu Gly Arg
1 5

<210> 172
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 172
Ser Val Gly His Gly
1 5

<210> 173
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 173
Asn Glu Ser Arg Gly
1 5

<210> 174
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 174
Gly Gly Pro Gly Gly
1 5

<210> 175
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 175
Gly Pro Lys Ser Asn
1 5

<210> 176
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 176
Tyr Gly His Gly Asp
1 5

<210> 177
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 177
Gly Ser Arg Gln Asp
1 5

<210> 178
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 178
Ser Arg Gly Val Asn
1 5

<210> 179
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 179
Gly Pro Asn Asp Phe
1 5

<210> 180
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 180
Gly Arg Gly Asp Tyr
1 5

<210> 181
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 181
Ala Ser Gly Ser Ser
1 5

<210> 182
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 182
Ser Pro Gly Gly Arg
1 5

<210> 183
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 183
Gly Phe Arg Gly Thr
1 5

<210> 184
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 184
Arg Asp Arg Val Gly
1 5

<210> 185
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> VARIANT
<222> 1

<223> Xaa = V or R or N or S or E or G

<220>

<221> VARIANT

<222> 2

<223> Xaa = N or S or G or R

<220>

<221> VARIANT

<222> 3

<223> Xaa = R or V or K or S or N or I or Y

<220>

<221> VARIANT

<222> 4

<223> Xaa = V or N or I or R or S or T

<220>

<221> VARIANT

<222> 5

<223> Xaa = R or K or I or N

<220>

<221> VARIANT

<222> 6

<223> Xaa = G or I or R or K or S or A

<400> 185

Xaa Xaa Xaa Xaa Xaa Xaa

1

5

<210> 186

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>

<221> VARIANT

<222> 1

<223> Xaa = A or R or M or V or G or S

<220>

<221> VARIANT

<222> 2

<223> Xaa = N or T or S or A

<220>

<221> VARIANT

<222> 3

<223> Xaa = R or N or H

<220>

<221> VARIANT

<222> 4

<223> Xaa = V or R or K

<220>

<221> VARIANT

<222> 5

<223> Xaa = K or V or I

<220>

<221> VARIANT

<222> 6

<223> Xaa = R or K or A or N or S or V

<220>

<221> VARIANT

<222> 7

<223> Xaa = T or G or R or K or P

<220>

<221> VARIANT

<222> 8

<223> Xaa = S or G or R or A

<400> 186

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

1

5

<210> 187

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>

<221> VARIANT

<222> 1

<223> Xaa = R or A or Q

<220>

<221> VARIANT

<222> 2

<223> Xaa = S or A

<220>

<221> VARIANT

<222> 3

<223> Xaa = G or S or N or I

<220>

<221> VARIANT

<222> 4

<223> Xaa = N or K

<220>

<221> VARIANT

<222> 5

<223> Xaa = T or S or L or R

<220>

<221> VARIANT

<222> 6

<223> Xaa = I or R or V

<220>

<221> VARIANT

<222> 7

<223> Xaa = R or E or K

<220>

<221> VARIANT

<222> 8

<223> Xaa = K or Q or A or R

<220>

<221> VARIANT

<222> 9

<223> Xaa = R or G or Q

<220>

<221> VARIANT

<222> 10

<223> Xaa = E or W or G or R

<400> 187

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

1

5

10

<210> 188

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

146392026840SEQLIST

<220>

<221> VARIANT

<222> 1

<223> Xaa = G or S or N or Y or A or R

<220>

<221> VARIANT

<222> 2

<223> Xaa = P or G or S or V or E or R or F or D

<220>

<221> VARIANT

<222> 3

<223> Xaa = N or G or S or E or P or K or H or R

<220>

<221> VARIANT

<222> 4

<223> Xaa = G or R or H or S or Q or V or D

<220>

<221> VARIANT

<222> 5

<223> Xaa = F or D or N or R or G or Y or S or T

<400> 188

Xaa Xaa Xaa Xaa Xaa

1

5

<210> 189

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 189

Gly Cys Arg Thr Asn Arg Val Lys Gly Gly Cys Lys Gln Asp Ser Asp

1

5

10

15

Cys Leu Ala Gly Cys Val Cys Gly Pro Asn Gly Phe Cys Gly

20

25

30

<210> 190

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

146392026840SEQLIST

<400> 190

Gly	Cys	Val	Asn	Arg	Val	Arg	Gly	Cys	Lys	Gln	Asp	Ser	Asp	Cys	Leu
1				5					10					15	
Ala	Gly	Cys	Val	Cys	Ser	Gly	Gly	Arg	Asp	Cys	Gly				
			20					25							

<210> 191

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 191

Gly	Cys	Met	Asn	His	Val	Lys	Ala	Arg	Arg	Cys	Lys	Gln	Asp	Ser	Asp
1				5					10					15	
Cys	Leu	Ala	Gly	Cys	Val	Cys	Gly	Pro	Asn	Gly	Phe	Cys	Gly		
			20					25					30		

<210> 192

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 192

Gly	Cys	Arg	Ser	Val	Asn	Lys	Ile	Cys	Lys	Gln	Asp	Ser	Asp	Cys	Leu
1				5					10					15	
Ala	Gly	Cys	Val	Cys	Gly	Ser	Ser	Arg	Asn	Cys	Gly				
			20					25							

<210> 193

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 193

Gly	Cys	Val	Asn	Lys	Ile	Lys	Gly	Cys	Lys	Gln	Asp	Ser	Asp	Cys	Leu
1				5					10					15	
Ala	Gly	Cys	Val	Cys	Gly	Val	Glu	Gly	Arg	Cys	Gly				
			20					25							

146392026840SEQLIST

<210> 194
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 194
 Gly Cys Arg Asn Ser Ile Lys Arg Cys Lys Gln Asn Ser Asp Cys Leu
 1 5 10 15
 Ala Gly Cys Val Cys Ser Val Gly His Gly Cys Gly
 20 25

<210> 195
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 195
 Gly Cys Val Ser Asn Arg Val Asn Lys Gly Cys Lys Gln Asp Ser Asp
 1 5 10 15
 Cys Leu Ala Gly Cys Val Cys Gly Pro Asn Gly Phe Cys Gly
 20 25 30

<210> 196
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 196
 Gly Cys Arg Gly Asn Ile Ile Lys Cys Lys Gln Asp Ser Asp Cys Leu
 1 5 10 15
 Ala Gly Cys Val Cys Asn Glu Ser Arg Gly Cys Gly
 20 25

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

<220>

<223> Synthetic Construct

<400> 197

Gly	Cys	Arg	Ser	Gly	Asn	Thr	Ile	Arg	Lys	Arg	Glu	Cys	Lys	Gln	Asp
1				5					10					15	
Ser	Asp	Cys	Leu	Ala	Gly	Cys	Val	Cys	Gly	Gly	Pro	Gly	Gly	Cys	Gly
			20					25					30		

<210> 198

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 198

Gly	Cys	Ala	Ser	Ser	Asn	Ser	Ile	Arg	Gln	Gly	Trp	Cys	Lys	Gln	Asp
1				5					10					15	
Ser	Asp	Cys	Leu	Ala	Gly	Cys	Val	Cys	Gly	Pro	Lys	Ser	Asn	Cys	Gly
			20					25					30		

<210> 199

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 199

Gly	Cys	Arg	Ser	Asn	Arg	Ile	Arg	Cys	Lys	Gln	Asp	Ser	Asp	Cys	Leu
1				5					10					15	
Ala	Gly	Cys	Val	Cys	Tyr	Gly	His	Gly	Asp	Cys	Gly				
			20					25							

<210> 200

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 200

Gly	Cys	Arg	Ser	Asn	Lys	Leu	Arg	Glu	Ala	Arg	Gly	Cys	Lys	Gln	Asp
1				5					10					15	
Ser	Asp	Cys	Leu	Ala	Gly	Cys	Val	Cys	Gly	Ser	Arg	Gln	Asp	Cys	Gly
			20					25					30		

146392026840SEQLIST

<210> 201
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 201
 Gly Cys Val Asn Ser Val Lys Arg Cys Lys Gln Asp Ser Asp Cys Leu
 1 5 10 15
 Ala Gly Cys Val Cys Ser Arg Gly Val Asn Cys Gly
 20 25

<210> 202
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 202
 Gly Cys Gly Ser Asn Lys Ile Arg Pro Arg Cys Lys Gln Asp Ser Asp
 1 5 10 15
 Cys Leu Ala Gly Cys Val Cys Gly Pro Asn Asp Phe Cys Gly
 20 25 30

<210> 203
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 203
 Gly Cys Asn Arg Ile Arg Asn Ser Cys Lys Gln Asp Ser Asp Cys Leu
 1 5 10 15
 Ala Gly Cys Val Cys Gly Arg Gly Asp Tyr Cys Gly
 20 25

<210> 204
 <211> 28
 <212> PRT
 <213> Artificial Sequence

146392026840SEQLIST

<220>

<223> Synthetic Construct

<400> 204

Gly	Cys	Ser	Arg	Asn	Ser	Ile	Lys	Cys	Lys	Gln	Asp	Ser	Asp	Cys	Leu
1				5					10					15	
Ala	Gly	Cys	Val	Cys	Ala	Ser	Gly	Ser	Ser	Cys	Gly				
			20					25							

<210> 205

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 205

Gly	Cys	Ser	Asn	Tyr	Val	Lys	Arg	Cys	Lys	Gln	Asp	Ser	Asp	Cys	Leu
1				5					10					15	
Ala	Gly	Cys	Val	Cys	Ser	Pro	Gly	Gly	Arg	Cys	Gly				
			20					25							

<210> 206

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 206

Gly	Cys	Arg	Ala	Asn	Arg	Val	Ser	Gly	Arg	Cys	Lys	Gln	Asp	Ser	Asp
1				5					10					15	
Cys	Leu	Ala	Gly	Cys	Val	Cys	Gly	Pro	Asn	Gly	Phe	Cys	Gly		
			20					25					30		

<210> 207

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 207

Gly	Cys	Ser	Asn	Arg	Val	Lys	Val	Arg	Ala	Cys	Lys	Gln	Asp	Ser	Asp
1				5					10					15	
Cys	Leu	Ala	Gly	Cys	Val	Cys	Gly	Pro	Asn	Gly	Phe	Cys	Gly		

20

25

30

<210> 208
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 208
 Gly Cys Glu Asn Arg Thr Lys Gly Cys Lys Gln Asp Ser Asp Cys Leu
 1 5 10 15
 Ala Gly Cys Val Cys Gly Phe Arg Gly Thr Cys Gly
 20 25

<210> 209
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 209
 Gly Cys Gly Asn Lys Ile Arg Ala Cys Lys Gln Asp Ser Asp Cys Leu
 1 5 10 15
 Ala Gly Cys Val Cys Arg Asp Arg Val Gly Cys Gly
 20 25

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

<220>
 <223> Synthetic Construct

<400> 210
 Gly Cys Ala Asn Arg Val Lys Arg Thr Ser Cys Lys Gln Asp Ser Asp
 1 5 10 15
 Cys Leu Ala Gly Cys Val Cys Gly Pro Asn Gly Phe Cys Gly
 20 25 30

<210> 211
 <211> 5
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 211

Gly Glu Ser Leu Ser

1

5

<210> 212

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>

<221> VARIANT

<222> 6

<223> Xaa = 3,4-difluoro-L-phenylalanine,
3,4-dichloro-L-phenylalanine, 4-chloro-L-phenylalanine,
3-F,4-Cl-L-phenylalanine, 2-pyridone(NH para)-L-alanine,
pyridone(NH meta)-L-alanine, or sulfotyrosine

<400> 212

Asn Ile Met Leu Pro Xaa Trp Gly

1

5

<210> 213

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>

<221> VARIANT

<222> 7

<223> Xaa = 1-Naphthyl alanine, 2-Naphthyl alanine, or
2-chloroindole

<400> 213

Asn Ile Met Leu Pro Phe Xaa Gly

1

5

<210> 214

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>

<221> VARIANT

<222> 3

<223> Xaa = norleucine

<400> 214

Asp Val Xaa Gln Pro Tyr Trp Gly
1 5

<210> 215

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 215

Gly Cys Asn Ile Met Leu Pro Tyr Trp Gly Cys Gly Gln Ser Phe Glu
1 5 10 15
Cys Leu Ala Gly Cys Val Cys Gln Tyr Tyr Gln Ser Cys Gly
20 25 30

<210> 216

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>

<221> VARIANT

<222> 30

<223> glycine can be capped with C(=O)-oxetane-3yl

<400> 216

Gly Cys Asn Ile Met Leu Pro Tyr Trp Gly Cys Gly Arg Asp Phe Glu
1 5 10 15
Cys Leu Ala Gly Cys Val Cys Gln Tyr Tyr Gln Ser Cys Gly
20 25 30

<210> 217

<211> 28

146392026840SEQLIST

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 217

Cys	Asn	Ile	Met	Leu	Pro	Tyr	Trp	Gly	Cys	Gly	Arg	Asp	Phe	Glu	Cys
1				5				10						15	
Leu	Ala	Gly	Cys	Val	Cys	Gln	Tyr	Tyr	Gln	Ser	Cys				
			20					25							

<210> 218

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>

<221> VARIANT

<222> 5

<223> Xaa = norleucine

<400> 218

Gly	Cys	Asn	Ile	Xaa	Leu	Pro	Phe	Trp	Gly	Cys	Gly	Arg	Asp	Phe	Glu
1				5				10						15	
Cys	Leu	Ala	Gly	Cys	Val	Cys	Gln	Tyr	Tyr	Gln	Ser	Cys	Gly		
			20					25					30		

<210> 219

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>

<221> VARIANT

<222> 9

<223> Xaa = 1-naphthylalanine, or 2-naphthylalanine

<400> 219

Gly	Cys	Asn	Ile	Met	Leu	Pro	Phe	Xaa	Gly	Cys	Gly	Arg	Asp	Phe	Glu
1				5				10						15	
Cys	Leu	Ala	Gly	Cys	Val	Cys	Gln	Tyr	Tyr	Gln	Ser	Cys	Gly		
			20					25					30		

146392026840SEQLIST

<210> 220
 <211> 5
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<220>
 <221> VARIANT
 <222> 3
 <223> Xaa = 3-fluorotyrosine, or 4-fluorophenylalanine

<400> 220
 Gln Tyr Xaa Gln Ser
 1 5

<210> 221
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<220>
 <221> VARIANT
 <222> 1
 <223> Xaa = PEG6-propargylglycine

<400> 221
 Xaa Cys Asn Ile Met Leu Pro Phe Trp Gly Cys Gly Arg Asp Phe Glu
 1 5 10 15
 Cys Leu Ala Gly Cys Val Cys Gln Tyr Tyr Gln Ser Cys Gly
 20 25 30

<210> 222
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 222
 Gly Cys Asn Ile Met Leu Pro Tyr Trp Gly Cys Gly Arg Asp Phe Glu
 1 5 10 15
 Cys Met Asn Gln Cys Ile Cys Gln Tyr Tyr Gln Ser Cys Gly
 20 25 30

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<210> 223
 <211> 30
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<400> 223
 Gly Cys Asn Ile Met Leu Pro Tyr Trp Gly Cys Gly Arg Asp Phe Glu
 1 5 10 15
 Cys Phe Tyr Glu Cys Ile Cys Gln Tyr Tyr Gln Ser Cys Gly
 20 25 30

<210> 224
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<400> 224
 Gly Cys Asp Val Xaa Gln Pro Tyr Trp Gly Cys Gly Pro Asp Ile Asp
 1 5 10 15
 Cys Leu Ser Asn Cys Ile Cys His Trp Tyr Asn Ser Cys Gly
 20 25 30

<210> 225
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<400> 225
 Glu Thr Asp Trp Tyr Pro His Gln Ile Asp
 1 5 10

<210> 226
 <211> 10

<212> PRT

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<223> Synthetic Construct

<400> 226

Gly	Glu	Thr	Val	Phe	Glu	Gln	Phe	Leu	Trp
1				5					10

<210> 227

<211> 6

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<223> Synthetic Construct

<400> 227

His	Met	Met	Tyr	Asp	Tyr
1				5	

<210> 228

<211> 8

<212> PRT

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<400> 228

Lys	Lys	Trp	Gln	Trp	Trp	Tyr	Met
1				5			

<210> 229

<211> 10

<212> PRT

<213> Artificial Sequence

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<223> Synthetic Construct

<400> 229

Pro	Ala	Ile	Gln	Asn	Trp	Lys	Glu	His	Pro
1				5					10

<210> 230

<211> 8

<212> PRT

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<223> Synthetic Construct

<400> 230

Gln Leu Met His Pro Phe Trp Gly

1

5

<210> 231

<211> 6

<212> PRT

<213> Artificial Sequence

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<223> Synthetic Construct

<400> 231

His Met Met Tyr Asp Tyr

1

5

<210> 232

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

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<222> 2

<223> Xaa = T or E or A or D

<220>

<221> VARIANT

<222> 3

<223> Xaa = D or T or I or P

<220>

<221> VARIANT

<222> 4

<223> Xaa = W or V or Q or T or W

<220>

<221> VARIANT

<222> 5

<223> Xaa = Y or F or N or E or P or K

<220>

<221> VARIANT

<222> 6

<223> Xaa = P or E or W or N or P

<220>

<221> VARIANT

<222> 7

<223> Xaa = H or Q or K or W or H

<220>

<221> VARIANT

<222> 8

<223> Xaa = Q or F or E or A or D or W

<220>

<221> VARIANT

<222> 9

<223> Xaa = I or L or H

<220>

<221> VARIANT

<222> 10

<223> Xaa = D or W or P or Y or T or M or N

<400> 232

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

1

5

10

<210> 233

<211> 5

<212> PRT

<213> Artificial Sequence

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<223> Synthetic Construct

<400> 233

Gly Pro Asn Gly Phe

1

5

<210> 234

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 234

Gly Pro Asn Gly Phe

1 5

<210> 235

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 235

Glu Met Tyr Asp Ala

1 5

<210> 236

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 236

Tyr Pro Trp Thr Glu

1 5

<210> 237

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 237

Ser Trp Trp Pro Ser Leu

1 5

<210> 238

<211> 5

<212> PRT

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<223> Synthetic Construct

<400> 238

His Trp Tyr Arg Ser
1 5

<210> 239

<211> 32

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<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 239

Gly Cys Glu Thr Asp Trp Tyr Pro His Gln Ile Asp Cys Lys Gln Asp
1 5 10 15
Ser Asp Cys Leu Ala Gly Cys Val Cys Gly Pro Asn Gly Phe Cys Gly
20 25 30

<210> 240

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 240

Gly Cys Gly Glu Thr Val Phe Glu Gln Phe Leu Trp Cys Lys Gln Asp
1 5 10 15
Ser Asp Cys Leu Ala Gly Cys Val Cys Gly Pro Asn Gly Phe Cys Gly
20 25 30

<210> 241

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 241

Gly Cys His Met Met Tyr Asp Tyr Cys Lys Gln Asp Ser Asp Cys Leu
1 5 10 15
Ala Gly Cys Val Cys Glu Met Tyr Asp Ala Cys Gly
20 25

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<210> 242
 <211> 30
 <212> PRT
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<220>
 <223> Synthetic Construct

<400> 242
 Gly Cys Lys Lys Trp Gln Trp Trp Tyr Met Cys Lys Gln Asp Ser Asp
 1 5 10 15
 Cys Leu Ala Gly Cys Val Cys Tyr Pro Trp Thr Glu Cys Gly
 20 25 30

<210> 243
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 243
 Gly Cys Pro Ala Ile Gln Asn Trp Lys Glu His Pro Cys Lys Gln Asp
 1 5 10 15
 Ser Asp Cys Leu Ala Gly Cys Val Cys Ser Trp Trp Pro Ser Leu Cys
 20 25 30
 Gly

<210> 244
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 244
 Gly Cys Gln Leu Met His Pro Phe Trp Gly Cys Lys Gln Asp Ser Asp
 1 5 10 15
 Cys Leu Ala Gly Cys Val Cys His Trp Tyr Arg Ser Cys Gly
 20 25 30

<210> 245
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<223> Synthetic Construct

<400> 245

His Leu Phe Glu Pro Leu Trp Gly
1 5

<210> 246

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 246

Gln Val Met Arg Pro Phe Trp Gly
1 5

<210> 247

<211> 8

<212> PRT

<213> Artificial Sequence

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<223> Synthetic Construct

<400> 247

Gln Val Met Gln Pro Ala Trp Gly
1 5

<210> 248

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

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<400> 248

His Arg Leu Gln Pro Leu Trp Gly
1 5

<210> 249

<211> 8

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<213> Artificial Sequence

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<400> 249

Glu Leu Leu Gln Pro Ser Trp Gly
1 5

<210> 250

<211> 8

<212> PRT

<213> Artificial Sequence

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<400> 250

Asn Val Leu Leu Pro Leu Trp Gly
1 5

<210> 251

<211> 8

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<213> Artificial Sequence

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<400> 251

Asp Leu Met Gln Pro Leu Trp Gly
1 5

<210> 252

<211> 8

<212> PRT

<213> Artificial Sequence

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<223> Synthetic Construct

<400> 252

Asn Pro Met Leu Pro Leu Trp Gly
1 5

<210> 253

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 253

Gln Val Leu Gln Pro Ser Trp Gly
1 5

<210> 254

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 254

Gln Leu Leu Glu Pro Met Trp Gly
1 5

<210> 255

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 255

Lys Leu Leu Gln Pro Met Trp Gly
1 5

<210> 256

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 256

Asp Arg Met Gln Pro Tyr Trp Gly
1 5

<210> 257

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 257

Lys Ile Met Gln Pro Leu Trp Gly
1 5

<210> 258

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 258

Asn Leu Met His Pro Phe Trp Gly
1 5

<210> 259

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 259

Ala Leu Leu Gln Pro Leu Trp Gly
1 5

<210> 260

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 260

Arg Leu Leu Glu Pro Ser Trp Gly
1 5

<210> 261

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 261

His Leu Leu Leu Pro Leu Trp Gly
1 5

<210> 262

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 262

Gln Trp Tyr Lys Ser
1 5

<210> 263

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 263

Leu Trp Tyr Asp Ser
1 5

<210> 264

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 264

Gln Trp Tyr Gln Ser
1 5

<210> 265

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 265

Gly	Cys	His	Leu	Phe	Glu	Pro	Leu	Trp	Gly	Cys	Lys	Gln	Asp	Ser	Asp
1				5				10					15		
Cys	Leu	Ala	Gly	Cys	Val	Cys	His	Trp	Tyr	Gln	Ser	Cys	Gly		
			20					25					30		

<210> 266

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 266

Gly	Cys	Gln	Val	Met	Arg	Pro	Phe	Trp	Gly	Cys	Lys	Gln	Asp	Ser	Asp
1				5				10					15		
Cys	Leu	Ala	Gly	Cys	Val	Cys	His	Trp	Tyr	Gln	Ser	Cys	Gly		
			20					25					30		

<210> 267

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 267

Gly	Cys	Gln	Val	Met	Gln	Pro	Ala	Trp	Gly	Cys	Lys	Gln	Asp	Ser	Asp
1				5				10					15		
Cys	Leu	Ala	Gly	Cys	Val	Cys	His	Trp	Tyr	Gln	Ser	Cys	Gly		
			20					25					30		

<210> 268

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 268

Gly	Cys	His	Arg	Leu	Gln	Pro	Leu	Trp	Gly	Cys	Lys	Gln	Asp	Ser	Asp
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

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1		5		10		15
Cys	Leu	Ala	Gly	Cys	Val	Cys
			20			
				25		
						30

<210> 269

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 269

Gly	Cys	Glu	Leu	Leu	Gln	Pro	Ser	Trp	Gly	Cys	Lys	Gln	Asp	Ser	Asp
1				5					10					15	
Cys	Leu	Ala	Gly	Cys	Val	Cys	His	Trp	Tyr	Gln	Ser	Cys	Gly		
			20					25					30		

<210> 270

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 270

Gly	Cys	Asn	Pro	Met	Leu	Pro	Phe	Trp	Gly	Cys	Lys	Gln	Asp	Ser	Asp
1				5					10					15	
Cys	Leu	Ala	Gly	Cys	Val	Cys	His	Trp	Tyr	Gln	Ser	Cys	Gly		
			20					25					30		

<210> 271

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 271

Gly	Cys	Asn	Val	Leu	Leu	Pro	Leu	Trp	Gly	Cys	Lys	Gln	Asp	Ser	Asp
1				5					10					15	
Cys	Leu	Ala	Gly	Cys	Val	Cys	His	Trp	Tyr	Gln	Ser	Cys	Gly		
			20					25					30		

<210> 272

<211> 30

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<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 272

Gly	Cys	Asp	Ile	Met	Gln	Pro	Leu	Trp	Gly	Cys	Lys	Gln	Asp	Ser	Asp
1				5				10					15		
Cys	Leu	Ala	Gly	Cys	Val	Cys	His	Trp	Tyr	Gln	Ser	Cys	Gly		
			20					25					30		

<210> 273

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 273

Gly	Cys	Asp	Leu	Met	Gln	Pro	Leu	Trp	Gly	Cys	Lys	Gln	Asp	Ser	Asp
1				5				10					15		
Cys	Leu	Ala	Gly	Cys	Val	Cys	His	Trp	Tyr	Gln	Ser	Cys	Gly		
			20					25					30		

<210> 274

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 274

Gln	Met	Phe	Asn	Ser
1				5

<210> 275

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 275

Gly	Cys	Gln	Val	Leu	Gln	Pro	Ser	Trp	Gly	Cys	Lys	Gln	Asp	Ser	Asp
1				5				10					15		

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Cys Leu Ala Gly Cys Val Cys His Trp Tyr Gln Ser Cys Gly
 20 25 30

<210> 276

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 276

Gly Cys Gln Leu Met Gln Pro Phe Trp Gly Cys Lys Gln Asp Ser Asp
 1 5 10 15
 Cys Leu Ala Gly Cys Val Cys Arg Trp Tyr Asn Ser Cys Gly
 20 25 30

<210> 277

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>

<221> VARIANT

<222> 3

<223> Xaa = norleucine

<400> 277

Asn Ile Xaa Leu Pro Phe Trp Gly
 1 5

<210> 278

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 278

Gly Cys Gln Leu Met Gln Pro Phe Trp Gly Cys Lys Gln Asp Ser Asp
 1 5 10 15
 Cys Leu Ala Gly Cys Val Cys Arg Trp Tyr His Ser Cys Gly
 20 25 30

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<210> 279

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 279

Gly	Cys	Gln	Leu	Leu	Glu	Pro	Met	Trp	Gly	Cys	Lys	Gln	Asp	Ser	Asp
1				5					10					15	
Cys	Leu	Ala	Gly	Cys	Val	Cys	His	Trp	Tyr	Asn	Ser	Cys	Gly		
			20					25					30		

<210> 280

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 280

Gly	Cys	Lys	Leu	Leu	Gln	Pro	Met	Trp	Gly	Cys	Lys	Gln	Asp	Ser	Asp
1				5					10					15	
Cys	Leu	Ala	Gly	Cys	Val	Cys	Arg	Trp	Tyr	Gln	Ser	Cys	Gly		
			20					25					30		

<210> 281

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 281

Gly	Cys	Asp	Arg	Met	Gln	Pro	Tyr	Trp	Gly	Cys	Lys	Gln	Asp	Ser	Asp
1				5					10					15	
Cys	Leu	Ala	Gly	Cys	Val	Cys	Gln	Trp	Tyr	Lys	Ser	Cys	Gly		
			20					25					30		

<210> 282

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

146392026840SEQLIST

<400> 282

Gly	Cys	Lys	Ile	Met	Gln	Pro	Leu	Trp	Gly	Cys	Lys	Gln	Asp	Ser	Asp
1				5				10					15		
Cys	Leu	Ala	Gly	Cys	Val	Cys	Leu	Trp	Tyr	Asp	Ser	Cys	Gly		
			20					25					30		

<210> 283

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 283

Gly	Cys	Asn	Leu	Met	His	Pro	Phe	Trp	Gly	Cys	Lys	Gln	Asp	Ser	Asp
1				5				10					15		
Cys	Leu	Ala	Gly	Cys	Val	Cys	His	Trp	Tyr	Gln	Ser	Cys	Gly		
			20					25					30		

<210> 284

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 284

Gly	Cys	Ala	Leu	Leu	Gln	Pro	Leu	Trp	Gly	Cys	Lys	Gln	Asp	Ser	Asp
1				5				10					15		
Cys	Leu	Ala	Gly	Cys	Val	Cys	Arg	Trp	Tyr	Asn	Ser	Cys	Gly		
			20					25					30		

<210> 285

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 285

Gly	Cys	Arg	Leu	Leu	Glu	Pro	Ser	Trp	Gly	Cys	Lys	Gln	Asp	Ser	Asp
1				5				10					15		
Cys	Leu	Ala	Gly	Cys	Val	Cys	Gln	Trp	Tyr	Gln	Ser	Cys	Gly		
			20					25					30		

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<210> 286
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 286
 Gly Cys His Leu Leu Leu Pro Leu Trp Gly Cys Lys Gln Asp Ser Asp
 1 5 10 15
 Cys Leu Ala Gly Cys Val Cys Arg Trp Tyr His Ser Cys Gly
 20 25 30

<210> 287
 <211> 10
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 287
 Asp Asp Pro Ser Phe Asp Trp Ser Val Tyr
 1 5 10

<210> 288
 <211> 10
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 288
 Trp Asp Pro Thr Phe Asn Trp Ala Leu Tyr
 1 5 10

<210> 289
 <211> 10
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 289
 Gln Asp Pro Thr Leu Asn Trp Ala Thr Tyr

1 5 10

<210> 290
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 290
Glu Asp Pro Thr Val Asp Trp Ala Gln Tyr
1 5 10

<210> 291
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 291
Lys Asp Thr Thr Phe Asn Trp Gly Leu Phe
1 5 10

<210> 292
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 292
Arg Met Tyr Asp Ser
1 5

<210> 293
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 293
Gly Cys Asp Asp Pro Ser Phe Asp Trp Ser Val Tyr Cys Lys Gln Asp

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1	5	10	15
Ser Asp Cys	Leu Ala Gly Cys Val	Cys Arg Met Tyr Asp	Ser Cys Gly
20	25	30	

<210> 294

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 294

Gly Cys Trp	Asp Pro Thr Phe Asn Trp	Ala Leu Tyr Cys Lys	Gln Asp
1	5	10	15
Ser Asp Cys	Leu Ala Gly Cys Val	Cys Gln Met Tyr Asp	Ser Cys Gly
20	25	30	

<210> 295

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 295

Gly Cys Gln	Asp Pro Thr Leu Asn Trp	Ala Thr Tyr Cys Lys	Gln Asp
1	5	10	15
Ser Asp Cys	Leu Ala Gly Cys Val	Cys Gln Met Tyr Gln	Ser Cys Gly
20	25	30	

<210> 296

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 296

Gly Cys Glu	Asp Pro Thr Val Asp Trp	Ala Gln Tyr Cys Lys	Gln Asp
1	5	10	15
Ser Asp Cys	Leu Ala Gly Cys Val	Cys Gln Met Tyr Gln	Ser Cys Gly
20	25	30	

<210> 297

<211> 32

146392026840SEQLIST

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 297

Gly	Cys	Lys	Asp	Thr	Thr	Phe	Asn	Trp	Gly	Leu	Phe	Cys	Lys	Gln	Asp
1				5				10						15	
Ser	Asp	Cys	Leu	Ala	Gly	Cys	Val	Cys	Gln	Leu	Tyr	Gln	Ser	Cys	Gly
			20					25					30		

<210> 298

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 298

Gly	Pro	Glu	Leu	Asn
1				5

<210> 299

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 299

Gln	Ala	Asp	Tyr	Ala
1				5

<210> 300

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 300

Gly	Val	Asp	Tyr	Leu
1				5

<210> 301
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 301
Gly Thr Asn Phe Leu
1 5

<210> 302
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 302
Ser Arg Asp Phe Asp
1 5

<210> 303
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 303
Asn Arg Asp Phe Leu
1 5

<210> 304
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 304
Gly Trp Asp Gln Phe
1 5

<210> 305
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 305
Gly Lys Asp Phe His
1 5

<210> 306
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 306
Ser Gly Asp Phe Ala
1 5

<210> 307
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 307
Gly Lys Glu Leu Asn
1 5

<210> 308
<211> 5
<212> PRT
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<220>
<223> Synthetic Construct

<400> 308
Gly Trp Ser Met Asp
1 5

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<210> 309
 <211> 5
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 309
 Gly Tyr Asp Leu Gln
 1 5

<210> 310
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 310
 Gly Cys Asn Ile Met Leu Pro Phe Trp Gly Cys Gly Pro Glu Leu Asn
 1 5 10 15
 Cys Leu Ala Gly Cys Val Cys Gln Tyr Tyr Gln Ser Cys Gly
 20 25 30

<210> 311
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 311
 Gly Cys Asn Ile Met Leu Pro Phe Trp Gly Cys Gln Ala Asp Tyr Ala
 1 5 10 15
 Cys Leu Ala Gly Cys Val Cys Gln Tyr Tyr Gln Ser Cys Gly
 20 25 30

<210> 312
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 312

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Gly	Cys	Asn	Ile	Met	Leu	Pro	Phe	Trp	Gly	Cys	Gly	Val	Asp	Tyr	Leu
1				5				10					15		
Cys	Leu	Ala	Gly	Cys	Val	Cys	Gln	Tyr	Tyr	Gln	Ser	Cys	Gly		
			20				25						30		

<210> 313

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 313

Gly	Cys	Asn	Ile	Met	Leu	Pro	Phe	Trp	Gly	Cys	Gly	Thr	Asn	Phe	Leu
1				5				10					15		
Cys	Leu	Ala	Gly	Cys	Val	Cys	Gln	Tyr	Tyr	Gln	Ser	Cys	Gly		
			20				25						30		

<210> 314

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 314

Gly	Cys	Asn	Ile	Met	Leu	Pro	Phe	Trp	Gly	Cys	Ser	Arg	Asp	Phe	Asp
1				5				10					15		
Cys	Leu	Ala	Gly	Cys	Val	Cys	Gln	Tyr	Tyr	Gln	Ser	Cys	Gly		
			20				25						30		

<210> 315

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 315

Gly	Cys	Asn	Ile	Met	Leu	Pro	Phe	Trp	Gly	Cys	Asn	Arg	Asp	Phe	Leu
1				5				10					15		
Cys	Leu	Ala	Gly	Cys	Val	Cys	Gln	Tyr	Tyr	Gln	Ser	Cys	Gly		
			20				25						30		

<210> 316

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

<220>
 <223> Synthetic Construct

<400> 316
 Gly Cys Asn Ile Met Leu Pro Phe Trp Gly Cys Gly Trp Asp Gln Phe
 1 5 10 15
 Cys Leu Ala Gly Cys Val Cys Gln Tyr Tyr Gln Ser Cys Gly
 20 25 30

<210> 317
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 317
 Gly Cys Asn Ile Met Leu Pro Phe Trp Gly Cys Gly Lys Asp Phe His
 1 5 10 15
 Cys Leu Ala Gly Cys Val Cys Gln Tyr Tyr Gln Ser Cys Gly
 20 25 30

<210> 318
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 318
 Gly Cys Asn Ile Met Leu Pro Phe Trp Gly Cys Ser Gly Asp Phe Ala
 1 5 10 15
 Cys Leu Ala Gly Cys Val Cys Gln Tyr Tyr Gln Ser Cys Gly
 20 25 30

<210> 319
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

146392026840SEQLIST

<400> 319

Gly	Cys	Asn	Ile	Met	Leu	Pro	Phe	Trp	Gly	Cys	Gly	Lys	Glu	Leu	Asn
1				5					10					15	
Cys	Leu	Ala	Gly	Cys	Val	Cys	Gln	Tyr	Tyr	Gln	Ser	Cys	Gly		
			20					25					30		

<210> 320

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 320

Gly	Cys	Asn	Ile	Met	Leu	Pro	Phe	Trp	Gly	Cys	Gly	Trp	Ser	Met	Asp
1				5					10					15	
Cys	Leu	Ala	Gly	Cys	Val	Cys	Gln	Tyr	Tyr	Gln	Ser	Cys	Gly		
			20					25					30		

<210> 321

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 321

Gly	Cys	Asn	Ile	Met	Leu	Pro	Phe	Trp	Gly	Cys	Gly	Tyr	Asp	Leu	Gln
1				5					10					15	
Cys	Leu	Ala	Gly	Cys	Val	Cys	Gln	Tyr	Tyr	Gln	Ser	Cys	Gly		
			20					25					30		

<210> 322

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 322

Gly	Arg	Asp	Leu	Gln
1				5

<210> 323

<211> 5

<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 323
Gly Val Asp Leu Ser
1 5

<210> 324
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 324
Gly Asp Asp Leu Glu
1 5

<210> 325
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 325
Gly Val Asp Met Thr
1 5

<210> 326
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 326
Gly Met Asp Ile Glu
1 5

<210> 327
<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 327

Asp Gly Asp Tyr Gln
1 5

<210> 328

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 328

Gly Asn Asp Val Ser
1 5

<210> 329

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 329

Ala Gly Asp Glu Leu
1 5

<210> 330

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 330

Gly Leu Asp Glu Glu
1 5

<210> 331

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 331

Asp Gly Asp Phe Asp
1 5

<210> 332

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 332

Ala Gly Asp Phe Glu
1 5

<210> 333

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 333

Gly Asn Ser Phe Glu
1 5

<210> 334

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 334

Gly Gln Asp Leu Thr
1 5

<210> 335

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 335

Gly Glu Asn Leu Ala
1 5

<210> 336

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 336

Gly Gln Asp Tyr Asn
1 5

<210> 337

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 337

Gly Ala Asp Leu Ser
1 5

<210> 338

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 338

Gly Phe Asp Met Asp
1 5

<210> 339

<211> 5

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<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 339

Asp Leu Asn Tyr Glu
1 5

<210> 340

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 340

Gly Cys Asp Val Met Gln Pro Tyr Trp Gly Cys Gly Arg Asp Leu Gln
1 5 10 15
Cys Leu Ala Gly Cys Val Cys His Trp Tyr Asn Ser Cys Gly
20 25 30

<210> 341

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 341

Gly Cys Asp Val Met Gln Pro Tyr Trp Gly Cys Gly Val Asp Leu Ser
1 5 10 15
Cys Leu Ala Gly Cys Val Cys His Trp Tyr Asn Ser Cys Gly
20 25 30

<210> 342

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 342

Gly Cys Asp Val Met Gln Pro Tyr Trp Gly Cys Gly Asp Asp Leu Glu
1 5 10 15

146392026840SEQLIST

Cys Leu Ala Gly Cys Val Cys His Trp Tyr Asn Ser Cys Gly
 20 25 30

<210> 343

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 343

Gly Cys Asp Val Met Gln Pro Tyr Trp Gly Cys Gly Val Asp Met Thr
 1 5 10 15
 Cys Leu Ala Gly Cys Val Cys His Trp Tyr Asn Ser Cys Gly
 20 25 30

<210> 344

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 344

Gly Cys Asp Val Met Gln Pro Tyr Trp Gly Cys Gly Met Asp Ile Glu
 1 5 10 15
 Cys Leu Ala Gly Cys Val Cys His Trp Tyr Asn Ser Cys Gly
 20 25 30

<210> 345

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 345

Gly Cys Asp Val Met Gln Pro Tyr Trp Gly Cys Asp Gly Asp Tyr Gln
 1 5 10 15
 Cys Leu Ala Gly Cys Val Cys His Trp Tyr Asn Ser Cys Gly
 20 25 30

<210> 346

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 346

Gly	Cys	Asp	Val	Met	Gln	Pro	Tyr	Trp	Gly	Cys	Gly	Asn	Asp	Val	Ser
1				5					10					15	
Cys	Leu	Ala	Gly	Cys	Val	Cys	His	Trp	Tyr	Asn	Ser	Cys	Gly		
			20					25					30		

<210> 347

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 347

Gly	Cys	Asp	Val	Met	Gln	Pro	Tyr	Trp	Gly	Cys	Ala	Gly	Asp	Glu	Leu
1				5					10					15	
Cys	Leu	Ala	Gly	Cys	Val	Cys	His	Trp	Tyr	Asn	Ser	Cys	Gly		
			20					25					30		

<210> 348

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 348

Gly	Cys	Asp	Val	Met	Gln	Pro	Tyr	Trp	Gly	Cys	Gly	Leu	Asp	Glu	Glu
1				5					10					15	
Cys	Leu	Ala	Gly	Cys	Val	Cys	His	Trp	Tyr	Asn	Ser	Cys	Gly		
			20					25					30		

<210> 349

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 349

Gly	Cys	Asp	Val	Met	Gln	Pro	Tyr	Trp	Gly	Cys	Asp	Gly	Asp	Phe	Asp
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

146392026840SEQLIST

1		5		10		15
Cys	Leu	Ala	Gly	Cys	Val	Cys
			20			
				25		
						30

<210> 350

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 350

Gly	Cys	Asp	Val	Met	Gln	Pro	Tyr	Trp	Gly	Cys	Ala	Gly	Asp	Phe	Glu
1				5				10						15	
Cys	Leu	Ala	Gly	Cys	Val	Cys	His	Trp	Tyr	Asn	Ser	Cys	Gly		
			20					25					30		

<210> 351

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 351

Gly	Cys	Asp	Val	Met	Gln	Pro	Tyr	Trp	Gly	Cys	Gly	Asn	Ser	Phe	Glu
1				5				10						15	
Cys	Leu	Ala	Gly	Cys	Val	Cys	His	Trp	Tyr	Asn	Ser	Cys	Gly		
			20					25					30		

<210> 352

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 352

Gly	Cys	Asp	Val	Met	Gln	Pro	Tyr	Trp	Gly	Cys	Gly	Gln	Asp	Leu	Thr
1				5				10						15	
Cys	Leu	Ala	Gly	Cys	Val	Cys	His	Trp	Tyr	Asn	Ser	Cys	Gly		
			20					25					30		

<210> 353

<211> 30

146392026840SEQLIST

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 353

Gly	Cys	Asp	Val	Met	Gln	Pro	Tyr	Trp	Gly	Cys	Gly	Glu	Asn	Leu	Ala
1				5				10					15		
Cys	Leu	Ala	Gly	Cys	Val	Cys	His	Trp	Tyr	Asn	Ser	Cys	Gly		
			20					25					30		

<210> 354

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 354

Gly	Cys	Asp	Val	Met	Gln	Pro	Tyr	Trp	Gly	Cys	Gly	Gln	Asp	Tyr	Asn
1				5				10					15		
Cys	Leu	Ala	Gly	Cys	Val	Cys	His	Trp	Tyr	Asn	Ser	Cys	Gly		
			20					25					30		

<210> 355

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 355

Gly	Cys	Asp	Val	Met	Gln	Pro	Tyr	Trp	Gly	Cys	Gly	Ala	Asp	Leu	Ser
1				5				10					15		
Cys	Leu	Ala	Gly	Cys	Val	Cys	His	Trp	Tyr	Asn	Ser	Cys	Gly		
			20					25					30		

<210> 356

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 356

146392026840SEQLIST

Gly	Cys	Asp	Val	Met	Gln	Pro	Tyr	Trp	Gly	Cys	Gly	Phe	Asp	Met	Asp
1				5				10					15		
Cys	Leu	Ala	Gly	Cys	Val	Cys	His	Trp	Tyr	Asn	Ser	Cys	Gly		
			20					25					30		

<210> 357
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

Gly	Cys	Asp	Val	Met	Gln	Pro	Tyr	Trp	Gly	Cys	Asp	Leu	Asn	Tyr	Glu
1				5				10					15		
Cys	Leu	Ala	Gly	Cys	Val	Cys	His	Trp	Tyr	Asn	Ser	Cys	Gly		
			20					25					30		

<210> 358
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<220>
 <221> VARIANT
 <222> 1
 <223> Xaa = Q or H or E or N or D

<220>
 <221> VARIANT
 <222> 2
 <223> Xaa = L or V or R or P or I

<220>
 <221> VARIANT
 <222> 3
 <223> Xaa = M or F or L

<220>
 <221> VARIANT
 <222> 4
 <223> Xaa = Q or E or R or L

<220>
 <221> VARIANT
 <222> 6

<223> Xaa = F or A or L or S

<400> 358

Xaa Xaa Xaa Xaa Pro Xaa Trp Gly
1 5

<210> 359

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>

<221> VARIANT

<222> 1

<223> Xaa = R or H

<220>

<221> VARIANT

<222> 4

<223> Xaa = N or Q or H

<400> 359

Xaa Trp Tyr Xaa Ser
1 5

<210> 360

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>

<221> VARIANT

<222> 1

<223> Xaa = H or L or R or Q

<220>

<221> VARIANT

<222> 2

<223> Xaa = W or F or Y

<220>

<221> VARIANT

<222> 4

<223> Xaa = Q or N or K or H or D or E

146392026840SEQLIST

<400> 360

Xaa Xaa Tyr Xaa Ser
 1 5

<210> 361

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>

<221> VARIANT

<222> 1

<223> Xaa = acetylglycine

<400> 361

Xaa Cys Asn Ile Met Leu Pro Tyr Trp Gly Cys Gly Arg Asp Phe Glu
 1 5 10 15
 Cys Leu Ala Gly Cys Val Cys Gln Tyr Tyr Gln Ser Cys Gly
 20 25 30

<210> 362

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>

<221> VARIANT

<222> 8

<223> Xaa = sulfotyrosine, 3,4-difluoro-L-phenylalanine,
 3,4-dichloro-L-phenylalanine, 4-chloro-L-phenylalanine,
 3-F,4-Cl-L-phenylalanine, 2-pyridone(NH para)-L-alanine,
 or pyridone(NH meta)-L-alanine

<400> 362

Gly Cys Asn Ile Met Leu Pro Xaa Trp Gly Cys Gly Arg Asp Phe Glu
 1 5 10 15
 Cys Leu Ala Gly Cys Val Cys Gln Tyr Tyr Gln Ser Cys Gly
 20 25 30

<210> 363

<211> 30

146392026840SEQLIST

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 363

Gly	Cys	Asn	Ile	Met	Leu	Pro	Tyr	Trp	Gly	Cys	Gly	Arg	Asp	Phe	Glu
1				5					10					15	
Cys	Met	Ser	Asp	Cys	Ile	Cys	Gln	Tyr	Tyr	Gln	Ser	Cys	Gly		
			20					25					30		

<210> 364

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 364

Gly	Cys	Asn	Ile	Met	Leu	Pro	Tyr	Trp	Gly	Cys	Gly	Arg	Asp	Phe	Glu
1				5					10					15	
Cys	Met	Ser	Asp	Cys	Ile	Cys	Gln	Tyr	Tyr	Gln	Ser	Cys	Gly		
			20					25					30		

<210> 365

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>

<221> VARIANT

<222> 5

<223> Xaa = norleucine

<400> 365

Gly	Cys	Asn	Ile	Xaa	Leu	Pro	Tyr	Trp	Gly	Cys	Gly	Arg	Asp	Phe	Glu
1				5					10					15	
Cys	Met	Ser	Asp	Cys	Ile	Cys	Gln	Tyr	Tyr	Gln	Ser	Cys	Gly		
			20					25					30		

<210> 366

<211> 32

<212> PRT

<213> Artificial Sequence

146392026840SEQLIST

<220>

<223> Synthetic Construct

<400> 366

Gly	Cys	Gln	Ala	Ile	Asn	Arg	Val	Lys	Arg	Gln	Arg	Cys	Lys	Gln	Asp
1				5				10					15		
Ser	Asp	Cys	Leu	Ala	Gly	Cys	Val	Cys	Gly	Pro	Asn	Gly	Phe	Cys	Gly
			20					25					30		

<210> 367

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 367

Gln	Ala	Ile	Asn	Arg	Val	Lys	Arg	Gln	Arg
1				5				10	

<210> 368

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 368

Asn	Pro	Met	Leu	Pro	Phe	Trp	Gly
1			5				

<210> 369

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 369

Gly	Cys	Asn	Ile	Met	Leu	Pro	Phe	Trp	Gly	Cys	Gly	Arg	Asp	Phe	Glu
1				5				10					15		
Cys	Leu	Ala	Gly	Cys	Val	Cys	Gln	Tyr	Tyr	Gln	Ser	Cys	Gly	Pro	Leu
			20					25					30		

Ile

146392026840SEQLIST

<210> 370
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 370
 Gly Cys Asn Ile Met Leu Pro Phe Trp Gly Cys Gly Arg Asp Phe Glu
 1 5 10 15
 Cys Leu Ala Gly Cys Val Cys Gln Tyr Tyr Gln Ser Cys Gly Asn Tyr
 20 25 30
 Gln

<210> 371
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 371
 Gly Cys Asn Ile Met Leu Pro Phe Trp Gly Cys Gly Arg Asp Phe Glu
 1 5 10 15
 Cys Leu Ala Gly Cys Val Cys Gln Tyr Tyr Gln Ser Cys Gly Pro Leu
 20 25 30
 Gln

<210> 372
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 372
 Gly Cys Asn Ile Met Leu Pro Phe Trp Gly Cys Gly Arg Asp Phe Glu
 1 5 10 15
 Cys Leu Ala Gly Cys Val Cys Gln Tyr Tyr Gln Ser Cys Gly Thr Phe
 20 25 30
 Gln

146392026840SEQLIST

<210> 373
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 373
 Gly Cys Asn Ile Met Leu Pro Phe Trp Gly Cys Gly Arg Asp Phe Glu
 1 5 10 15
 Cys Leu Ala Gly Cys Val Cys Gln Tyr Tyr Gln Ser Cys Gly Asp Leu
 20 25 30
 Val

<210> 374
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 374
 Gly Cys Asn Ile Met Leu Pro Phe Trp Gly Cys Gly Arg Asp Phe Glu
 1 5 10 15
 Cys Leu Ala Gly Cys Val Cys Gln Tyr Tyr Gln Ser Cys Gly Glu His
 20 25 30
 Lys

<210> 375
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 375
 Gly Cys Asn Ile Met Leu Pro Phe Trp Gly Cys Gly Arg Asp Phe Glu
 1 5 10 15
 Cys Leu Ala Gly Cys Val Cys Gln Tyr Tyr Gln Ser Cys Gly Tyr Leu
 20 25 30
 Ser

146392026840SEQLIST

<210> 376

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 376

Gly	Cys	Asn	Ile	Met	Leu	Pro	Phe	Trp	Gly	Cys	Gly	Arg	Asp	Phe	Glu
1				5					10					15	
Cys	Leu	Ala	Gly	Cys	Val	Cys	Gln	Tyr	Tyr	Gln	Ser	Cys	Gly	Trp	Asp
			20					25					30		
Tyr															

<210> 377

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 377

Gly	Cys	Asn	Ile	Met	Leu	Pro	Phe	Trp	Gly	Cys	Gly	Arg	Asp	Phe	Glu
1				5					10					15	
Cys	Leu	Ala	Gly	Cys	Val	Cys	Gln	Tyr	Tyr	Gln	Ser	Cys	Gly	Trp	Pro
			20					25					30		
His															

<210> 378

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 378

Gly	Cys	Asn	Ile	Met	Leu	Pro	Phe	Trp	Gly	Cys	Gly	Arg	Asp	Phe	Glu
1				5					10					15	
Cys	Leu	Ala	Gly	Cys	Val	Cys	Gln	Tyr	Tyr	Gln	Ser	Cys	Gly	Pro	His
			20					25					30		
Gln															

<210> 379

146392026840SEQLIST

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

<220>
 <223> Synthetic Construct

<400> 379

Gly	Cys	Asn	Ile	Met	Leu	Pro	Phe	Trp	Gly	Cys	Gly	Arg	Asp	Phe	Glu
1				5				10					15		
Cys	Leu	Ala	Gly	Cys	Val	Cys	Gln	Tyr	Tyr	Gln	Ser	Cys	Gly	Phe	His
			20					25					30		

<210> 380
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 380

Gly	Cys	Asn	Ile	Met	Leu	Pro	Phe	Trp	Gly	Cys	Gly	Arg	Asp	Phe	Glu
1				5				10					15		
Cys	Leu	Ala	Gly	Cys	Val	Cys	Gln	Tyr	Tyr	Gln	Ser	Cys	Gly	Ile	Ala
			20					25					30		

<210> 381
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 381

Gly	Cys	Asn	Ile	Met	Leu	Pro	Phe	Trp	Gly	Cys	Gly	Arg	Asp	Phe	Glu
1				5				10					15		
Cys	Leu	Ala	Gly	Cys	Val	Cys	Gln	Tyr	Tyr	Gln	Ser	Cys	Gly	Gly	Ser
			20					25					30		

<210> 382
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

146392026840SEQLIST

<400> 382

Gly	Cys	Asn	Ile	Met	Leu	Pro	Phe	Trp	Gly	Cys	Gly	Arg	Asp	Phe	Glu
1				5				10					15		
Cys	Leu	Ala	Gly	Cys	Val	Cys	Gln	Tyr	Tyr	Gln	Ser	Cys	Gly	Thr	Arg
			20					25					30		

<210> 383

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 383

Gly	Cys	Asn	Ile	Met	Leu	Pro	Phe	Trp	Gly	Cys	Gly	Arg	Asp	Phe	Glu
1				5				10					15		
Cys	Leu	Ala	Gly	Cys	Val	Cys	Gln	Tyr	Tyr	Gln	Ser	Cys	Gly	Val	His
			20					25					30		

<210> 384

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 384

Gly	Cys	Asn	Ile	Met	Leu	Pro	Phe	Trp	Gly	Cys	Gly	Arg	Asp	Phe	Glu
1				5				10					15		
Cys	Leu	Ala	Gly	Cys	Val	Cys	Gln	Tyr	Tyr	Gln	Ser	Cys	Gly	Leu	Ser
			20					25					30		

<210> 385

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 385

Asp	Val	Leu	Gln	Pro	Tyr	Trp	Gly
1			5				

<210> 386

<211> 30

146392026840SEQLIST

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 386

Gly	Cys	Asp	Val	Leu	Gln	Pro	Tyr	Trp	Gly	Cys	Gly	Pro	Asp	Ile	Asp
1				5				10					15		
Cys	Leu	Ser	Asn	Cys	Ile	Cys	His	Trp	Tyr	Asn	Ser	Cys	Gly		
			20					25					30		

<210> 387

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 387

Gly	Cys	Asp	Val	Leu	Gln	Pro	Tyr	Trp	Gly	Cys	Gly	Pro	Asp	Ile	Asp
1				5				10					15		
Cys	Leu	Ser	Asn	Cys	Ile	Cys	His	Trp	Tyr	Asn	Ser	Cys	Gly	Arg	Thr
			20					25					30		

<210> 388

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 388

Gly	Cys	Asp	Val	Leu	Gln	Pro	Tyr	Trp	Gly	Cys	Gly	Pro	Asp	Ile	Asp
1				5				10					15		
Cys	Leu	Ser	Asn	Cys	Ile	Cys	His	Trp	Tyr	Asn	Ser	Cys	Gly	Trp	Lys
			20					25					30		

<210> 389

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 389

146392026840SEQLIST

Gly	Cys	Asp	Val	Leu	Gln	Pro	Tyr	Trp	Gly	Cys	Gly	Pro	Asp	Ile	Asp
1				5					10					15	
Cys	Leu	Ser	Asn	Cys	Ile	Cys	His	Trp	Tyr	Asn	Ser	Cys	Gly	Pro	Leu
			20					25					30		

<210> 390

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 390

Gly	Cys	Asp	Val	Leu	Gln	Pro	Tyr	Trp	Gly	Cys	Gly	Pro	Asp	Ile	Asp
1				5					10					15	
Cys	Leu	Ser	Asn	Cys	Ile	Cys	His	Trp	Tyr	Asn	Ser	Cys	Gly	Asp	Glu
			20					25					30		

<210> 391

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 391

Gly	Cys	Asp	Val	Leu	Gln	Pro	Tyr	Trp	Gly	Cys	Gly	Pro	Asp	Ile	Asp
1				5					10					15	
Cys	Leu	Ser	Asn	Cys	Ile	Cys	His	Trp	Tyr	Asn	Ser	Cys	Gly	Gln	Phe
			20					25					30		

<210> 392

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 392

Gly	Cys	Asp	Val	Leu	Gln	Pro	Tyr	Trp	Gly	Cys	Gly	Pro	Asp	Ile	Asp
1				5					10					15	
Cys	Leu	Ser	Asn	Cys	Ile	Cys	His	Trp	Tyr	Asn	Ser	Cys	Gly	Glu	Gln
			20					25					30		

<210> 393

146392026840SEQLIST

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

<220>
 <223> Synthetic Construct

<400> 393
 Gly Cys Asp Val Leu Gln Pro Tyr Trp Gly Cys Gly Pro Asp Ile Asp
 1 5 10 15
 Cys Leu Ser Asn Cys Ile Cys His Trp Tyr Asn Ser Cys Gly Pro Thr
 20 25 30

<210> 394
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 394
 Gly Cys Asp Val Leu Gln Pro Tyr Trp Gly Cys Gly Pro Asp Ile Asp
 1 5 10 15
 Cys Leu Ser Asn Cys Ile Cys His Trp Tyr Asn Ser Cys Gly Arg Leu
 20 25 30

<210> 395
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 395
 Gly Cys Asp Val Leu Gln Pro Tyr Trp Gly Cys Gly Pro Asp Ile Asp
 1 5 10 15
 Cys Leu Ser Asn Cys Ile Cys His Trp Tyr Asn Ser Cys Gly Ser Leu
 20 25 30

<210> 396
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 396

Asn Ile Leu Leu Pro Phe Trp Gly
1 5

<210> 397

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 397

Asn Ile Leu Leu Pro Tyr Trp Gly
1 5

<210> 398

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 398

Asn Ile Met Ser Pro Phe Trp Gly
1 5

<210> 399

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 399

Asn Ile Met Thr Pro Phe Trp Gly
1 5

<210> 400

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 400

Asn Ile Met Gln Pro Phe Trp Gly
1 5

<210> 401

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 401

Asn Ile Met Asn Pro Phe Trp Gly
1 5

<210> 402

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 402

Asn Ile Met Glu Pro Phe Trp Gly
1 5

<210> 403

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 403

Asn Ile Met Asp Pro Phe Trp Gly
1 5

<210> 404

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

146392026840SEQLIST

<220>

<221> VARIANT

<222> 5

<223> Xaa = benzyl-L-proline, 4-fluoro-benzyl-L-proline,
3-OH-L-proline, 3-fluoro-L-proline, or
trifluoromethyl-benzyl-L-proline

<400> 404

Asn Ile Met Leu Xaa Phe Trp Gly

1

5

<210> 405

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 405

Gly Cys Asn Ile Leu Leu Pro Phe Trp Gly Cys Gly Arg Asp Phe Glu

1

5

10

15

Cys Leu Ala Gly Cys Val Cys Gln Tyr Tyr Gln Ser Cys Gly

20

25

30

<210> 406

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 406

Gly Cys Asn Ile Leu Leu Pro Tyr Trp Gly Cys Gly Arg Asp Phe Glu

1

5

10

15

Cys Leu Ala Gly Cys Val Cys Gln Tyr Tyr Gln Ser Cys Gly

20

25

30

<210> 407

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 407

Gly Cys Asn Ile Met Ser Pro Phe Trp Gly Cys Gly Arg Asp Phe Glu

146392026840SEQLIST

1		5		10		15
Cys	Leu	Ala	Gly	Cys	Val	Cys
			20			
				25		
						30

<210> 408

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 408

Gly	Cys	Asn	Ile	Met	Thr	Pro	Phe	Trp	Gly	Cys	Gly	Arg	Asp	Phe	Glu
1				5					10					15	
Cys	Leu	Ala	Gly	Cys	Val	Cys	Gln	Tyr	Tyr	Gln	Ser	Cys	Gly		
			20					25					30		

<210> 409

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 409

Gly	Cys	Asn	Ile	Met	Gln	Pro	Phe	Trp	Gly	Cys	Gly	Arg	Asp	Phe	Glu
1				5					10					15	
Cys	Leu	Ala	Gly	Cys	Val	Cys	Gln	Tyr	Tyr	Gln	Ser	Cys	Gly		
			20					25					30		

<210> 410

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 410

Gly	Cys	Asn	Ile	Met	Asn	Pro	Phe	Trp	Gly	Cys	Gly	Arg	Asp	Phe	Glu
1				5					10					15	
Cys	Leu	Ala	Gly	Cys	Val	Cys	Gln	Tyr	Tyr	Gln	Ser	Cys	Gly		
			20					25					30		

<210> 411

<211> 30

146392026840SEQLIST

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 411

Gly	Cys	Asn	Ile	Met	Glu	Pro	Phe	Trp	Gly	Cys	Gly	Arg	Asp	Phe	Glu
1				5				10					15		
Cys	Leu	Ala	Gly	Cys	Val	Cys	Gln	Tyr	Tyr	Gln	Ser	Cys	Gly		
			20				25						30		

<210> 412

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 412

Gly	Cys	Asn	Ile	Met	Asp	Pro	Phe	Trp	Gly	Cys	Gly	Arg	Asp	Phe	Glu
1				5				10					15		
Cys	Leu	Ala	Gly	Cys	Val	Cys	Gln	Tyr	Tyr	Gln	Ser	Cys	Gly		
			20				25						30		

<210> 413

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>

<221> VARIANT

<222> 7

<223> Xaa = benzyl-L-proline, 4-fluoro-benzyl-L-proline,
3-OH-L-proline, 3-fluoro-L-proline, or trifluoromethyl-benzyl-L-proline

<400> 413

Gly	Cys	Asn	Ile	Met	Leu	Xaa	Phe	Trp	Gly	Cys	Gly	Arg	Asp	Phe	Glu
1				5				10					15		
Cys	Leu	Ala	Gly	Cys	Val	Cys	Gln	Tyr	Tyr	Gln	Ser	Cys	Gly		
			20				25						30		

<210> 414

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 414

Asn Ile Met Leu Pro Ser Trp Gly
1 5

<210> 415

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 415

Gly Cys Asn Ile Met Leu Pro Ser Trp Gly Cys Gly Arg Asp Phe Glu
1 5 10 15
Cys Leu Ala Gly Cys Val Cys Gln Tyr Tyr Gln Ser Cys Gly
20 25 30

<210> 416

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>

<221> VARIANT

<222> 7

<223> Xaa = N-methyl indole, N-ethyl indole,
N-isopropyl indole, or 5-aza-indole

<400> 416

Asn Ile Met Leu Pro Tyr Xaa Gly
1 5

<210> 417

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

146392026840SEQLIST

<220>

<221> VARIANT

<222> 9

<223> Xaa = N-methyl indole, N-ethyl indole, N-isopropyl indole, or 5-aza-indole

<400> 417

Gly	Cys	Asn	Ile	Met	Leu	Pro	Tyr	Xaa	Gly	Cys	Gly	Arg	Asp	Phe	Glu
1				5				10						15	
Cys	Leu	Ala	Gly	Cys	Val	Cys	Gln	Tyr	Tyr	Gln	Ser	Cys	Gly		
			20				25						30		

<210> 418

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>

<221> VARIANT

<222> 4

<223> Xaa = 4-methyl-L-phenylalanine, 2-naphthyl-L-alanine, 2-quinolyl-Alanine, 4-biphenyl-L-alanine

<220>

<221> VARIANT

<222> 4

<223> Xaa = 3-(3-quinolinyl)-L-alanine, 3-(2-quinolinyl)-L-alanine, 3-(2-quinoxaliny)-L-alanine, 4-methyl-2-pyridyl-alanine

<220>

<221> VARIANT

<222> 4

<223> Xaa = 4-ethyl-2-pyridyl-L-alanine, benzothiazole-L-alanine, or benzothiophene-L-alanine, 3-isoquinolinyl-L-alanine

<400> 418

Gly	Arg	Asp	Xaa	Glu
1			5	

<210> 419

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>

<221> VARIANT

<222> 15

<223> Xaa = 4-methyl-L-phenylalanine, 2-naphthyl-L-alanine, 2-quinolyl-Alanine, 4-biphenyl-L-alanine

<220>

<221> VARIANT

<222> 15

<223> Xaa = 3-(3-quinolinyl)-L-alanine, 3-(2-quinolinyl)-L-alanine, 3-(2-quinoxaliny)-L-alanine, 4-methyl-2-pyridyl-alanine

<220>

<221> VARIANT

<222> 15

<223> Xaa = 4-ethyl-2-pyridyl-L-alanine, benzothiazole-L-alanine, benzothiophene-L-alanine, or 3-isoquinolinyl-L-alanine

<400> 419

Gly	Cys	Asn	Ile	Met	Leu	Pro	Tyr	Trp	Gly	Cys	Gly	Arg	Asp	Xaa	Glu
1				5				10						15	
Cys	Leu	Ala	Gly	Cys	Val	Cys	Gln	Tyr	Tyr	Gln	Ser	Cys	Gly		
			20				25						30		

<210> 420

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>

<221> VARIANT

<222> 18

<223> Xaa = t-butyl-L-alanine, cyclobutyl-L-alanine, cyclopentyl-L-alanine, or 5,5,5-Trifluoro-L-leucine

<400> 420

Gly	Cys	Asn	Ile	Met	Leu	Pro	Tyr	Trp	Gly	Cys	Gly	Arg	Asp	Phe	Glu
1				5				10						15	
Cys	Xaa	Ala	Gly	Cys	Val	Cys	Gln	Tyr	Tyr	Gln	Ser	Cys	Gly		
			20				25						30		

<210> 421

<211> 30

<212> PRT

<213> Artificial Sequence

146392026840SEQLIST

<220>

<223> Synthetic Construct

<400> 421

Gly	Cys	Asn	Ile	Met	Leu	Pro	Phe	Trp	Gly	Cys	Gly	Arg	Asp	Phe	Glu
1				5					10					15	
Cys	Leu	Ser	Gly	Cys	Val	Cys	Gln	Tyr	Tyr	Gln	Ser	Cys	Gly		
			20					25					30		

<210> 422

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 422

Gly	Cys	Asn	Ile	Met	Leu	Pro	Phe	Trp	Gly	Cys	Gly	Arg	Asp	Phe	Glu
1				5					10					15	
Cys	Leu	Thr	Gly	Cys	Val	Cys	Gln	Tyr	Tyr	Gln	Ser	Cys	Gly		
			20					25					30		

<210> 423

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 423

Gly	Cys	Asn	Ile	Met	Leu	Pro	Phe	Trp	Gly	Cys	Gly	Arg	Asp	Phe	Glu
1				5					10					15	
Cys	Leu	Glu	Gly	Cys	Val	Cys	Gln	Tyr	Tyr	Gln	Ser	Cys	Gly		
			20					25					30		

<210> 424

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 424

Gly	Cys	Asn	Ile	Met	Leu	Pro	Tyr	Trp	Gly	Cys	Gly	Arg	Asp	Phe	Glu
1				5					10					15	

146392026840SEQLIST

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

<210> 425

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 425

Gly Cys Asn Ile Met Leu Pro Tyr Trp Gly Cys Gly Arg Asp Phe Glu
 1 5 10 15
 Cys Leu Ala Gly Cys Ile Cys Gln Tyr Tyr Gln Ser Cys Gly
 20 25 30

<210> 426

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>

<221> VARIANT

<222> 22

<223> Xaa = t-butyl-L-glycine (also known as L-tert-Leucine),
 t-butyl-L-alanine, L-cyclopentylglycine, cyclopentyl-L-alanine

<220>

<221> VARIANT

<222> 22

<223> Xaa = L-cyclobutyl-L-glycine, cyclobutyl-L-alanine, or
 5,5,5-Trifluoro-L-leucine

<400> 426

Gly Cys Asn Ile Met Leu Pro Tyr Trp Gly Cys Gly Arg Asp Phe Glu
 1 5 10 15
 Cys Leu Ala Gly Cys Xaa Cys Gln Tyr Tyr Gln Ser Cys Gly
 20 25 30

<210> 427

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>

<221> VARIANT

<222> 2

<223> Xaa = 2-pyridone, 3,4-hydroxy phenylalanine,
3,4-fluoro phenylalanine, or 3-Fluoro,4-OH phenylalanine

<400> 427

Gln Xaa Tyr Gln Ser
1 5

<210> 428

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>

<221> VARIANT

<222> 25

<223> Xaa = 2-pyridone, 3,4-hydroxy phenylalanine,
3,4-fluoro phenylalanine, or 3-Fluoro,4-OH phenylalanine

<400> 428

Gly	Cys	Asn	Ile	Met	Leu	Pro	Tyr	Trp	Gly	Cys	Gly	Arg	Asp	Phe	Glu
1				5				10						15	
Cys	Leu	Ala	Gly	Cys	Val	Cys	Gln	Xaa	Tyr	Gln	Ser	Cys	Gly		
			20				25						30		

<210> 429

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>

<221> VARIANT

<222> 3

<223> Xaa = 2-Chloro Tyrosine, 2-Methyl Tyrosine,
2-Ethyl Tyrosine, or 1-naphthol alanine

<400> 429

Gln Tyr Xaa Gln Ser
1 5

146392026840SEQLIST

<210> 430
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<220>
 <221> VARIANT
 <222> 26
 <223> Xaa = 2-Chloro Tyrosine, 2-Methyl Tyrosine,
 2-Ethyl Tyrosine, or 1-naphthol alanine

<400> 430
 Gly Cys Asn Ile Met Leu Pro Tyr Trp Gly Cys Gly Arg Asp Phe Glu
 1 5 10 15
 Cys Leu Ala Gly Cys Val Cys Gln Tyr Xaa Gln Ser Cys Gly
 20 25 30

<210> 431
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 431
 Gly Cys Asn Ile Met Leu Pro Tyr Trp Gly Cys Gly Arg Asp Phe Glu
 1 5 10 15
 Cys Leu Ala Gly Cys Val Cys Gln Tyr Tyr Gln Ser Cys Ser
 20 25 30

<210> 432
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<220>
 <221> VARIANT
 <222> 30
 <223> Xaa = D-serine, L-beta-homoserine, L-beta-alanine,
 N-alpha-methyl Glycine, glycine amide, glycine ester of glycerol

<220>

146392026840SEQLIST

<221> VARIANT

<222> 30

<223> Xaa = glycine ester of glycol, glycine ester of oxetane-3-yl alcohol, glycine morpholine amide

<400> 432

Gly	Cys	Asn	Ile	Met	Leu	Pro	Tyr	Trp	Gly	Cys	Gly	Arg	Asp	Phe	Glu
1				5				10					15		
Cys	Leu	Ala	Gly	Cys	Val	Cys	Gln	Tyr	Tyr	Gln	Ser	Cys	Xaa		
			20				25						30		

<210> 433

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>

<221> VARIANT

<222> 3

<223> Xaa = norleucine

<400> 433

Asn	Ile	Xaa	Gln	Pro	Tyr	Trp	Gly
1			5				

<210> 434

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 434

Asn	Ile	Leu	Gln	Pro	Tyr	Trp	Gly
1			5				

<210> 435

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 435

146392026840SEQLIST

Gly Cys Asn Ile Leu Leu Pro Tyr Trp Gly Cys Gly Arg Asp Phe Glu
 1 5 10 15
 Cys Met Glu Gln Cys Ile Cys Gln Tyr Tyr Gln Ser Cys Gly
 20 25 30

<210> 436

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>

<221> VARIANT

<222> 5

<223> Xaa = norleucine

<400> 436

Gly Cys Asn Ile Xaa Gln Pro Tyr Trp Gly Cys Gly Arg Asp Phe Glu
 1 5 10 15
 Cys Met Glu Gln Cys Ile Cys Gln Tyr Tyr Gln Ser Cys Gly
 20 25 30

<210> 437

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>

<221> VARIANT

<222> 5

<223> Xaa = norleucine

<220>

<221> VARIANT

<222> 18

<223> Xaa = norleucine or cyclobutyl-L-alanine

<400> 437

Gly Cys Asn Ile Xaa Leu Pro Tyr Trp Gly Cys Gly Arg Asp Phe Glu
 1 5 10 15
 Cys Xaa Glu Gln Cys Ile Cys Gln Tyr Tyr Gln Ser Cys Gly
 20 25 30

<210> 438

146392026840SEQLIST

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

<220>
 <223> Synthetic Construct

<220>
 <221> VARIANT
 <222> 5
 <223> Xaa = norleucine

<400> 438
 Gly Cys Asn Ile Xaa Leu Pro Tyr Trp Gly Cys Gly Arg Asp Phe Glu
 1 5 10 15
 Cys Leu Glu Gln Cys Ile Cys Gln Tyr Tyr Gln Ser Cys Gly
 20 25 30

<210> 439
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<220>
 <221> VARIANT
 <222> 5
 <223> Xaa = norleucine

<220>
 <221> VARIANT
 <222> 18
 <223> Xaa = cyclobutyl-L-alanine

<220>
 <221> VARIANT
 <222> 22
 <223> Xaa = cyclobutyl-L-glycine, cyclobutyl-L-alanine
 or norleucine

<400> 439
 Gly Cys Asn Ile Xaa Leu Pro Tyr Trp Gly Cys Gly Arg Asp Phe Glu
 1 5 10 15
 Cys Xaa Glu Gln Cys Xaa Cys Gln Tyr Tyr Gln Ser Cys Gly
 20 25 30

<210> 440
 <211> 30

146392026840SEQLIST

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>

<221> VARIANT

<222> 5

<223> Xaa = norleucine

<220>

<221> VARIANT

<222> 18

<223> Xaa = cyclobutyl-L-alanine

<220>

<221> VARIANT

<222> 22

<223> Xaa = cyclobutyl-L-glycine or cyclobutyl-L-alanine

<400> 440

Gly	Cys	Asn	Ile	Xaa	Gln	Pro	Tyr	Trp	Gly	Cys	Gly	Arg	Asp	Phe	Glu
1				5					10					15	
Cys	Xaa	Glu	Gln	Cys	Xaa	Cys	Gln	Tyr	Tyr	Gln	Ser	Cys	Gly		
			20					25					30		

<210> 441

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>

<221> VARIANT

<222> 18

<223> Xaa = cyclobutyl-L-alanine or t-butyl-L-alanine

<400> 441

Gly	Cys	Asn	Ile	Leu	Leu	Pro	Tyr	Trp	Gly	Cys	Gly	Arg	Asp	Phe	Glu
1				5					10					15	
Cys	Xaa	Glu	Gln	Cys	Ile	Cys	Gln	Tyr	Tyr	Gln	Ser	Cys	Gly		
			20					25					30		

<210> 442

<211> 30

<212> PRT

<213> Artificial Sequence

146392026840SEQLIST

<220>

<223> Synthetic Construct

<220>

<221> VARIANT

<222> 22

<223> Xaa = cyclobutyl-L-glycine or cyclobutyl-L-alanine

<400> 442

Gly	Cys	Asn	Ile	Leu	Leu	Pro	Tyr	Trp	Gly	Cys	Gly	Arg	Asp	Phe	Glu
1				5				10						15	
Cys	Met	Glu	Gln	Cys	Xaa	Cys	Gln	Tyr	Tyr	Gln	Ser	Cys	Gly		
			20				25						30		

<210> 443

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>

<221> VARIANT

<222> 1

<223> Xaa = acetylglycine

<220>

<221> VARIANT

<222> 5

<223> Xaa = norleucine

<220>

<221> VARIANT

<222> 30

<223> Xaa = glycine amide

<400> 443

Xaa	Cys	Asn	Ile	Xaa	Leu	Pro	Tyr	Trp	Gly	Cys	Gly	Arg	Asp	Phe	Glu
1				5				10						15	
Cys	Met	Glu	Gln	Cys	Ile	Cys	Gln	Tyr	Tyr	Gln	Ser	Cys	Xaa		
			20				25						30		

<210> 444

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>

<221> VARIANT

<222> 1

<223> Xaa = acetylglycine

<220>

<221> VARIANT

<222> 30

<223> Xaa = glycine amide

<400> 444

Xaa	Cys	Asn	Ile	Leu	Leu	Pro	Tyr	Trp	Gly	Cys	Gly	Arg	Asp	Phe	Glu
1				5					10					15	
Cys	Met	Glu	Gln	Cys	Ile	Cys	Gln	Tyr	Tyr	Gln	Ser	Cys	Xaa		
			20					25					30		

<210> 445

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>

<221> VARIANT

<222> 1

<223> Xaa = acetylglycine

<220>

<221> VARIANT

<222> 30

<223> Xaa = glycine amide

<400> 445

Xaa	Cys	Asn	Ile	Leu	Gln	Pro	Tyr	Trp	Gly	Cys	Gly	Arg	Asp	Phe	Glu
1				5					10					15	
Cys	Met	Glu	Gln	Cys	Ile	Cys	Gln	Tyr	Tyr	Gln	Ser	Cys	Xaa		
			20					25					30		

<210> 446

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

146392026840SEQLIST

<220>

<221> VARIANT

<222> 1

<223> Xaa = acetylglycine

<220>

<221> VARIANT

<222> 30

<223> Xaa = glycine amide

<400> 446

Xaa	Cys	Asn	Ile	Leu	Gln	Pro	Tyr	Trp	Gly	Cys	Gly	Arg	Asp	Phe	Glu
1				5					10					15	
Cys	Leu	Glu	Gln	Cys	Ile	Cys	Gln	Tyr	Tyr	Gln	Ser	Cys	Xaa		
			20					25					30		

<210> 447

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>

<221> VARIANT

<222> 18

<223> Xaa = cyclobutyl-L-alanine or t-butyl-L-alanine

<400> 447

Gly	Cys	Asp	Val	Leu	Gln	Pro	Tyr	Trp	Gly	Cys	Gly	Pro	Asp	Ile	Asp
1				5					10					15	
Cys	Xaa	Ser	Asn	Cys	Ile	Cys	His	Trp	Tyr	Asn	Ser	Cys	Gly		
			20					25					30		

<210> 448

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>

<221> VARIANT

<222> 22

<223> Xaa = cyclobutyl-L-glycine

<400> 448

Gly	Cys	Asp	Val	Leu	Gln	Pro	Tyr	Trp	Gly	Cys	Gly	Pro	Asp	Ile	Asp
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

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1		5		10		15
Cys	Leu	Ser	Asn	Cys	Xaa	Cys
			20			
					25	
						30

<210> 449
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<220>
 <221> VARIANT
 <222> 5
 <223> Xaa = norleucine

<220>
 <221> VARIANT
 <222> 18
 <223> Xaa = cyclobutyl-L-alanine

<220>
 <221> VARIANT
 <222> 22
 <223> Xaa = cyclobutyl-L-glycine or cyclobutyl-L-alanine

<400> 449
Gly Cys Asp Val Xaa Gln Pro Tyr Trp Gly Cys Gly Pro Asp Ile Asp
1 5 10 15
Cys Xaa Ser Asn Cys Xaa Cys His Trp Tyr Asn Ser Cys Gly
20 25 30

<210> 450
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<220>
 <221> VARIANT
 <222> 18
 <223> Xaa = cyclobutyl-L-alanine

<220>
 <221> VARIANT
 <222> 22
 <223> Xaa = cyclobutyl-L-glycine or cyclobutyl-L-alanine

146392026840SEQLIST

<400> 450

Gly	Cys	Asp	Val	Leu	Gln	Pro	Tyr	Trp	Gly	Cys	Gly	Pro	Asp	Ile	Asp
1				5				10					15		
Cys	Xaa	Ser	Asn	Cys	Xaa	Cys	His	Trp	Tyr	Asn	Ser	Cys	Gly		
			20					25					30		

<210> 451

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>

<221> VARIANT

<222> 1

<223> Xaa = acetylglycine

<220>

<221> VARIANT

<222> 18

<223> Xaa = cyclobutyl-L-alanine

<220>

<221> VARIANT

<222> 22

<223> Xaa = cyclobutyl-L-glycine or cyclobutyl-L-alanine

<220>

<221> VARIANT

<222> 30

<223> Xaa = glycine amide

<400> 451

Xaa	Cys	Asp	Val	Leu	Gln	Pro	Tyr	Trp	Gly	Cys	Gly	Pro	Asp	Ile	Asp
1				5				10					15		
Cys	Xaa	Ser	Asn	Cys	Xaa	Cys	His	Trp	Tyr	Asn	Ser	Cys	Xaa		
			20					25					30		

<210> 452

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>

146392026840SEQLIST

<221> VARIANT

<222> 1

<223> Xaa = acetylglycine

<220>

<221> VARIANT

<222> 5

<223> Xaa = norleucine

<220>

<221> VARIANT

<222> 30

<223> Xaa = glycine amide

<400> 452

Xaa	Cys	Asp	Val	Xaa	Gln	Pro	Tyr	Trp	Gly	Cys	Gly	Pro	Asp	Ile	Asp
1				5					10					15	
Cys	Leu	Ser	Asn	Cys	Ile	Cys	His	Trp	Tyr	Asn	Ser	Cys	Xaa		
			20					25					30		

<210> 453

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>

<221> VARIANT

<222> 1

<223> Xaa = acetylglycine

<220>

<221> VARIANT

<222> 30

<223> Xaa = glycine amide

<400> 453

Xaa	Cys	Asp	Val	Leu	Gln	Pro	Tyr	Trp	Gly	Cys	Gly	Pro	Asp	Ile	Asp
1				5					10					15	
Cys	Leu	Ser	Asn	Cys	Ile	Cys	His	Trp	Tyr	Asn	Ser	Cys	Xaa		
			20					25					30		

<210> 454

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>

<221> VARIANT

<222> 3

<223> Xaa = M or L

<220>

<221> VARIANT

<222> 4

<223> Xaa = L or S or T or Q or N or E or D

<220>

<221> VARIANT

<222> 6

<223> Xaa = F or Y or S

<400> 454

Asn Ile Xaa Xaa Pro Xaa Trp Gly

1

5

<210> 455

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 455

Gly Cys Asn Ile Met Leu Pro Phe Trp Gly Cys Lys Gln Asp Phe Asp

1

5

10

15

Cys Leu Ala Gly Cys Ile Cys Gln Tyr Tyr Gln Ser Cys Gly Phe His

20

25

30

<210> 456

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 456

Gly Cys Asp Val Met Gln Pro Tyr Trp Gly Cys Glu Met Asp Phe Asp

1

5

10

15

Cys Leu Ala Gly Cys Val Cys His Trp Tyr Asn Ser Cys Gly Ser Leu

20

25

30

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<210> 457
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 457
 Gly Cys Asn Ile Met Leu Pro Phe Trp Gly Cys Lys Gln Asp Phe Asp
 1 5 10 15
 Cys Leu Ala Gly Cys Ile Cys Gln Tyr Tyr Gln Ser Cys Gly Gly Glu
 20 25 30

<210> 458
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 458
 Gly Cys Asn Ile Met Leu Pro Phe Trp Gly Cys Lys Gln Asp Ser Asp
 1 5 10 15
 Cys Leu Val Gly Cys Ile Cys Gln Tyr Tyr Gln Ser Cys Gly Ser Ile
 20 25 30

<210> 459
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 459
 Gly Cys Asn Ile Met Leu Pro Phe Trp Gly Cys Lys Gln Asp Phe Asp
 1 5 10 15
 Cys Leu Ala Gly Cys Val Cys Gln Tyr Tyr Gln Ser Cys Gly Gly Arg
 20 25 30

<210> 460
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

146392026840SEQLIST

<400> 460

Gly	Cys	Asn	Ile	Met	Leu	Pro	Phe	Trp	Gly	Cys	Lys	Gln	Asp	Phe	Asp
1				5				10					15		
Cys	Leu	Ala	Gly	Cys	Val	Cys	Gln	Tyr	Tyr	Gln	Ser	Cys	Gly	Arg	Pro
			20					25					30		

<210> 461

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 461

Gly	Cys	Asn	Ile	Met	Leu	Pro	Phe	Trp	Gly	Cys	Lys	Gln	Asp	Phe	Asp
1				5				10					15		
Cys	Leu	Ala	Gly	Cys	Val	Cys	Gln	Tyr	Tyr	Gln	Ser	Cys	Gly	Gln	Tyr
			20					25					30		

<210> 462

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 462

Gly	Cys	Asn	Ile	Met	Leu	Pro	Phe	Trp	Gly	Cys	Lys	Gln	Asp	Ser	Asp
1				5				10					15		
Cys	Leu	Ala	Gly	Cys	Val	Cys	Gln	Tyr	Tyr	Gln	Ser	Cys	Gly	Glu	Asn
			20					25					30		

<210> 463

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 463

Gly	Cys	Asn	Ile	Met	Leu	Pro	Phe	Trp	Gly	Cys	Lys	Gln	Asp	Phe	Asp
1				5				10					15		
Cys	Leu	Ala	Gly	Cys	Val	Cys	Gln	Tyr	Tyr	Gln	Ser	Cys	Gly	Asp	Thr
			20					25					30		

146392026840SEQLIST

<210> 464
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 464
Gly Cys Asn Ile Met Leu Pro Phe Trp Gly Cys Lys Gln Asp Phe Asp
1 5 10 15
Cys Leu Ala Gly Cys Val Cys Gln Tyr Tyr Gln Ser Cys Gly Gln His
20 25 30

<210> 465
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 465
Gly Cys Asn Ile Met Leu Pro Phe Trp Gly Cys Lys Gln Asp Ser Asp
1 5 10 15
Cys Leu Ala Gly Cys Ile Cys Gln Tyr Tyr Gln Ser Cys Gly Gln Asn
20 25 30

<210> 466
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 466
Gly Cys Asn Ile Met Leu Pro Phe Trp Gly Cys Lys Gln Asp Ser Asp
1 5 10 15
Cys Leu Ala Gly Cys Val Cys Gln Tyr Tyr Gln Ser Cys Gly Glu Glu
20 25 30

<210> 467
<211> 32
<212> PRT
<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 467

Gly	Cys	Asn	Ile	Met	Leu	Pro	Phe	Trp	Gly	Cys	Lys	Gln	Asp	Ser	Asp
1				5				10					15		
Cys	Leu	Ala	Gly	Cys	Val	Cys	Gln	Tyr	Tyr	Gln	Ser	Cys	Gly	Asp	Asp
			20					25					30		

<210> 468

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 468

Gly	Cys	Asn	Ile	Met	Leu	Pro	Phe	Trp	Gly	Cys	Lys	Gln	Asp	Ser	Asp
1				5				10					15		
Cys	Leu	Ala	Gly	Cys	Val	Cys	Gln	Tyr	Tyr	Gln	Ser	Cys	Gly	Asp	Gly
			20					25					30		

<210> 469

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 469

Gly	Cys	Asn	Ile	Met	Leu	Pro	Phe	Trp	Gly	Cys	Lys	Gln	Asp	Phe	Asp
1				5				10					15		
Cys	Leu	Ala	Gly	Cys	Val	Cys	Gln	Tyr	Tyr	Gln	Ser	Cys	Gly	Leu	Glu
			20					25					30		

<210> 470

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 470

Gly	Cys	Asn	Ile	Met	Leu	Pro	Phe	Trp	Gly	Cys	Lys	Gln	Asp	Ser	Asp
1				5				10					15		
Cys	Leu	Ala	Gly	Cys	Val	Cys	Gln	Tyr	Tyr	Gln	Ser	Cys	Gly	Thr	Asp
			20					25					30		

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<210> 471
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 471
 Gly Cys Asn Ile Met Leu Pro Phe Trp Gly Cys Lys Gln Asp Ser Asp
 1 5 10 15
 Cys Leu Ala Gly Cys Val Cys Gln Tyr Tyr Gln Ser Cys Gly Ser Glu
 20 25 30

<210> 472
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 472
 Gly Cys Asn Ile Met Leu Pro Phe Trp Gly Cys Lys Gln Asp Ser Asp
 1 5 10 15
 Cys Leu Ala Gly Cys Val Cys Gln Tyr Tyr Gln Ser Cys Gly Pro Glu
 20 25 30

<210> 473
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 473
 Gly Cys Asn Ile Met Leu Pro Phe Trp Gly Cys Lys Gln Asp Ser Asp
 1 5 10 15
 Cys Leu Ala Gly Cys Val Cys Gln Tyr Tyr Gln Ser Cys Gly Thr Asn
 20 25 30

<210> 474
 <211> 32
 <212> PRT
 <213> Artificial Sequence

146392026840SEQLIST

<220>

<223> Synthetic Construct

<400> 474

Gly	Cys	Asn	Ile	Met	Leu	Pro	Phe	Trp	Gly	Cys	Lys	Gln	Asp	Ser	Asp
1				5				10					15		
Cys	Leu	Ala	Gly	Cys	Val	Cys	Gln	Tyr	Tyr	Gln	Ser	Cys	Gly	Pro	His
			20					25					30		

<210> 475

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 475

Gly	Cys	Asn	Ile	Met	Leu	Pro	Phe	Trp	Gly	Cys	Lys	Gln	Asp	Ser	Asp
1				5				10					15		
Cys	Leu	Ala	Gly	Cys	Val	Cys	Gln	Tyr	Tyr	Gln	Ser	Cys	Gly	Met	Asp
			20					25					30		

<210> 476

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 476

Gly	Cys	Asn	Ile	Met	Leu	Pro	Phe	Trp	Gly	Cys	Lys	Gln	Asp	Ser	Asp
1				5				10					15		
Cys	Leu	Ala	Gly	Cys	Val	Cys	Gln	Tyr	Tyr	Gln	Ser	Cys	Gly	Ser	Asp
			20					25					30		

<210> 477

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 477

Gly	Cys	Asn	Ile	Met	Leu	Pro	Phe	Trp	Gly	Cys	Gly	Gln	Ser	Phe	Glu
1				5				10					15		
Cys	Leu	Ala	Gly	Cys	Ile	Cys	Gln	Tyr	Tyr	Gln	Ser	Cys	Gly	Ile	Ala

20

25

30

<210> 478
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 478
 Gly Cys Asn Ile Met Leu Pro Phe Trp Gly Cys Gly Gln Ser Phe Glu
 1 5 10 15
 Cys Leu Ala Gly Cys Ile Cys Gln Tyr Tyr Gln Ser Cys Gly Gly Ser
 20 25 30

<210> 479
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 479
 Gly Cys Asn Ile Met Leu Pro Phe Trp Gly Cys Gly Gln Ser Phe Glu
 1 5 10 15
 Cys Leu Ala Gly Cys Ile Cys Gln Tyr Tyr Gln Ser Cys Gly Thr Arg
 20 25 30

<210> 480
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 480
 Gly Cys Asn Ile Met Leu Pro Phe Trp Gly Cys Gly Gln Ser Phe Glu
 1 5 10 15
 Cys Leu Ala Gly Cys Ile Cys Gln Tyr Tyr Gln Ser Cys Gly Val His
 20 25 30

<210> 481
 <211> 32
 <212> PRT
 <213> Artificial Sequence

146392026840SEQLIST

<220>

<223> Synthetic Construct

<400> 481

Gly	Cys	Asp	Val	Met	Gln	Pro	Tyr	Trp	Gly	Cys	Lys	Gln	Asp	Phe	Asp
1				5					10					15	
Cys	Leu	Ala	Gly	Cys	Val	Cys	His	Trp	Tyr	Asn	Ser	Cys	Gly	Pro	Ser
			20					25					30		

<210> 482

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 482

Gly	Cys	Asp	Val	Met	Gln	Pro	Tyr	Trp	Gly	Cys	Glu	Met	Asp	Phe	Asp
1				5					10					15	
Cys	Leu	Ala	Gly	Cys	Ile	Cys	His	Trp	Tyr	Asn	Ser	Cys	Gly	Phe	Ser
			20					25					30		

<210> 483

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 483

Gly	Cys	Asp	Val	Met	Gln	Pro	Tyr	Trp	Gly	Cys	Glu	Met	Asp	Phe	Asp
1				5					10					15	
Cys	Leu	Ala	Gly	Cys	Val	Cys	His	Trp	Tyr	Asn	Ser	Cys	Gly	Gly	Lys
			20					25					30		

<210> 484

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 484

Gly	Cys	Asp	Val	Met	Gln	Pro	Tyr	Trp	Gly	Cys	Lys	Gln	Asp	Phe	Asp
1				5					10					15	

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Cys Leu Ala Gly Cys Ile Cys His Trp Tyr Asn Ser Cys Gly Tyr Leu
 20 25 30

<210> 485

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 485

Gly Cys Asp Val Met Gln Pro Tyr Trp Gly Cys Glu Met Asp Phe Asp
 1 5 10 15
 Cys Leu Ala Gly Cys Val Cys His Trp Tyr Asn Ser Cys Gly Asp Leu
 20 25 30

<210> 486

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 486

Gly Cys Asp Val Met Gln Pro Tyr Trp Gly Cys Glu Met Asp Phe Asp
 1 5 10 15
 Cys Leu Ala Gly Cys Val Cys His Trp Tyr Asn Ser Cys Gly Glu Lys
 20 25 30

<210> 487

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 487

Gly Cys Asp Val Met Gln Pro Tyr Trp Gly Cys Lys Gln Asp Ser Asp
 1 5 10 15
 Cys Leu Ala Gly Cys Ile Cys His Trp Tyr Asn Ser Cys Gly Thr Asp
 20 25 30

<210> 488

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 488

Gly	Cys	Asp	Val	Met	Gln	Pro	Tyr	Trp	Gly	Cys	Glu	Met	Asp	Phe	Asp
1				5					10					15	
Cys	Leu	Ala	Gly	Cys	Ile	Cys	His	Trp	Tyr	Asn	Ser	Cys	Gly	Gln	Val
			20					25					30		

<210> 489

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 489

Gly	Cys	Asp	Val	Met	Gln	Pro	Tyr	Trp	Gly	Cys	Glu	Met	Asp	Phe	Asp
1				5					10					15	
Cys	Leu	Ala	Gly	Cys	Val	Cys	His	Trp	Tyr	Asn	Ser	Cys	Gly	Arg	Leu
			20					25					30		

<210> 490

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 490

Gly	Cys	Asp	Val	Met	Gln	Pro	Tyr	Trp	Gly	Cys	Glu	Met	Asp	Phe	Asp
1				5					10					15	
Cys	Leu	Ala	Gly	Cys	Ile	Cys	His	Trp	Tyr	Asn	Ser	Cys	Gly	Tyr	Ala
			20					25					30		

<210> 491

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 491

Gly	Cys	Asp	Val	Met	Gln	Pro	Tyr	Trp	Gly	Cys	Glu	Met	Asp	Phe	Asp
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

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1		5		10		15									
Cys	Leu	Ala	Gly	Cys	Ile	Cys	His	Trp	Tyr	Asn	Ser	Cys	Gly	Ala	Ser
			20					25					30		

<210> 492

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 492

Gly	Cys	Asp	Val	Met	Gln	Pro	Tyr	Trp	Gly	Cys	Glu	Met	Asp	Phe	Asp
1				5				10					15		
Cys	Leu	Ala	Gly	Cys	Ile	Cys	His	Trp	Tyr	Asn	Ser	Cys	Gly	Ser	Arg
			20					25					30		

<210> 493

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 493

Gly	Cys	Asp	Val	Met	Gln	Pro	Tyr	Trp	Gly	Cys	Glu	Met	Asp	Phe	Asp
1				5				10					15		
Cys	Leu	Ala	Gly	Cys	Ile	Cys	His	Trp	Tyr	Asn	Ser	Cys	Gly	Pro	Thr
			20					25					30		

<210> 494

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 494

Gly	Cys	Asp	Val	Met	Gln	Pro	Tyr	Trp	Gly	Cys	Glu	Met	Asp	Phe	Asp
1				5				10					15		
Cys	Leu	Ala	Gly	Cys	Val	Cys	His	Trp	Tyr	Asn	Ser	Cys	Gly	Trp	Asp
			20					25					30		

<210> 495

<211> 32

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<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 495

Gly	Cys	Asp	Val	Met	Gln	Pro	Tyr	Trp	Gly	Cys	Glu	Met	Asp	Phe	Asp
1				5					10					15	
Cys	Leu	Ala	Gly	Cys	Val	Cys	His	Trp	Tyr	Asn	Ser	Cys	Gly	Ser	Met
			20					25					30		

<210> 496

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 496

Gly	Cys	Asp	Val	Met	Gln	Pro	Tyr	Trp	Gly	Cys	Glu	Met	Asp	Phe	Asp
1				5					10					15	
Cys	Leu	Ala	Gly	Cys	Ile	Cys	His	Trp	Tyr	Asn	Ser	Cys	Gly	Thr	Arg
			20					25					30		

<210> 497

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 497

Gly	Cys	Asp	Val	Met	Gln	Pro	Tyr	Trp	Gly	Cys	Lys	Gln	Asp	Ser	Asp
1				5					10					15	
Cys	Leu	Ala	Gly	Cys	Val	Cys	His	Trp	Tyr	Asn	Ser	Cys	Gly	Glu	Asn
			20					25					30		

<210> 498

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 498

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Gly	Cys	Asp	Val	Met	Gln	Pro	Tyr	Trp	Gly	Cys	Glu	Met	Asp	Phe	Asp
1				5					10					15	
Cys	Leu	Ala	Gly	Cys	Val	Cys	His	Trp	Tyr	Asn	Ser	Cys	Gly	Asn	Asn
			20					25					30		

<210> 499

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 499

Gly	Cys	Asp	Val	Met	Gln	Pro	Tyr	Trp	Gly	Cys	Glu	Met	Asp	Phe	Asp
1				5					10					15	
Cys	Leu	Ala	Gly	Cys	Ile	Cys	His	Trp	Tyr	Asn	Ser	Cys	Gly	Pro	Glu
			20					25					30		

<210> 500

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 500

Gly	Cys	Asp	Val	Met	Gln	Pro	Tyr	Trp	Gly	Cys	Glu	Met	Asp	Phe	Asp
1				5					10					15	
Cys	Leu	Ala	Gly	Cys	Val	Cys	His	Trp	Tyr	Asn	Ser	Cys	Gly	Gly	Ile
			20					25					30		

<210> 501

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 501

Gly	Cys	Asp	Val	Met	Gln	Pro	Tyr	Trp	Gly	Cys	Glu	Met	Asp	Phe	Asp
1				5					10					15	
Cys	Leu	Ala	Gly	Cys	Val	Cys	His	Trp	Tyr	Asn	Ser	Cys	Gly	Val	Glu
			20					25					30		

<210> 502

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

<220>
 <223> Synthetic Construct

<400> 502
 Gly Cys Asp Val Met Gln Pro Tyr Trp Gly Cys Glu Met Asp Phe Asp
 1 5 10 15
 Cys Leu Ala Gly Cys Val Cys His Trp Tyr Asn Ser Cys Gly Pro Leu
 20 25 30

<210> 503
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 503
 Gly Cys Asp Val Met Gln Pro Tyr Trp Gly Cys Glu Met Asp Phe Asp
 1 5 10 15
 Cys Leu Ala Gly Cys Val Cys His Trp Tyr Asn Ser Cys Gly Pro Leu
 20 25 30

<210> 504
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 504
 Gly Cys Asp Val Met Gln Pro Tyr Trp Gly Cys Glu Met Asp Phe Asp
 1 5 10 15
 Cys Leu Ala Gly Cys Ile Cys His Trp Tyr Asn Ser Cys Gly Arg Pro
 20 25 30

<210> 505
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

146392026840SEQLIST

<400> 505

Gly	Cys	Asp	Val	Met	Gln	Pro	Tyr	Trp	Gly	Cys	Glu	Met	Asp	Phe	Asp
1				5				10					15		
Cys	Leu	Ala	Gly	Cys	Val	Cys	His	Trp	Tyr	Asn	Ser	Cys	Gly	Asn	Asp
			20					25					30		

<210> 506

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 506

Gly	Cys	Asp	Val	Met	Gln	Pro	Tyr	Trp	Gly	Cys	Glu	Met	Asp	Phe	Asp
1				5				10					15		
Cys	Leu	Ala	Gly	Cys	Ile	Cys	His	Trp	Tyr	Asn	Ser	Cys	Gly	Leu	Gln
			20					25					30		

<210> 507

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 507

Gly	Cys	Asp	Val	Met	Gln	Pro	Tyr	Trp	Gly	Cys	Glu	Met	Asp	Phe	Asp
1				5				10					15		
Cys	Leu	Ala	Gly	Cys	Ile	Cys	His	Trp	Tyr	Asn	Ser	Cys	Gly	Asp	Glu
			20					25					30		

<210> 508

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 508

Gly	Cys	Asp	Val	Met	Gln	Pro	Tyr	Trp	Gly	Cys	Glu	Met	Asp	Phe	Asp
1				5				10					15		
Cys	Leu	Ala	Gly	Cys	Ile	Cys	His	Trp	Tyr	Asn	Ser	Cys	Gly	Arg	Thr
			20					25					30		

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<210> 509
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 509
 Gly Cys Asp Val Met Gln Pro Tyr Trp Gly Cys Glu Ile Asp Phe Asp
 1 5 10 15
 Cys Leu Ala Gly Cys Val Cys His Trp Tyr Asn Ser Cys Gly Gln Val
 20 25 30

<210> 510
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 510
 Gly Cys Asp Val Met Gln Pro Tyr Trp Gly Cys Glu Met Asp Phe Asp
 1 5 10 15
 Cys Leu Ala Gly Cys Val Cys His Trp Tyr Asn Ser Cys Gly Gly Ile
 20 25 30

<210> 511
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 511
 Gly Cys Asp Val Met Gln Pro Tyr Trp Gly Cys Glu Met Asp Phe Asp
 1 5 10 15
 Cys Leu Ala Gly Cys Val Cys His Trp Tyr Asn Ser Cys Gly Tyr Met
 20 25 30

<210> 512
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

146392026840SEQLIST

<400> 512

Gly	Cys	Asp	Val	Met	Gln	Pro	Tyr	Trp	Gly	Cys	Glu	Met	Asp	Phe	Asp
1				5				10					15		
Cys	Leu	Ala	Gly	Cys	Val	Cys	His	Trp	Tyr	Asn	Ser	Cys	Gly	Gly	Gln
			20					25					30		

<210> 513

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 513

Gly	Cys	Asp	Val	Met	Gln	Pro	Tyr	Trp	Gly	Cys	Glu	Met	Asp	Phe	Asp
1				5				10					15		
Cys	Leu	Ala	Gly	Cys	Val	Cys	His	Trp	Tyr	Asn	Ser	Cys	Gly	Thr	Pro
			20					25					30		

<210> 514

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 514

Gly	Cys	Asp	Val	Met	Gln	Pro	Tyr	Trp	Gly	Cys	Glu	Met	Asp	Phe	Asp
1				5				10					15		
Cys	Leu	Ala	Gly	Cys	Val	Cys	His	Trp	Tyr	Asn	Ser	Cys	Gly	Val	Asn
			20					25					30		

<210> 515

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 515

Gly	Cys	Asp	Val	Met	Gln	Pro	Tyr	Trp	Gly	Cys	Glu	Met	Asp	Phe	Asp
1				5				10					15		
Cys	Leu	Ala	Gly	Cys	Val	Cys	His	Trp	Tyr	Asn	Ser	Cys	Gly	Phe	Asn
			20					25					30		

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<210> 516
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 516
 Gly Cys Asp Val Met Gln Pro Tyr Trp Gly Cys Glu Met Asp Phe Asp
 1 5 10 15
 Cys Leu Ala Gly Cys Val Cys His Trp Tyr Asn Ser Cys Gly Glu Pro
 20 25 30

<210> 517
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 517
 Gly Cys Asp Val Met Gln Pro Tyr Trp Gly Cys Glu Met Asp Phe Asp
 1 5 10 15
 Cys Leu Ala Gly Cys Val Cys His Trp Tyr Asn Ser Cys Gly Asn Ser
 20 25 30

<210> 518
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 518
 Gly Cys Asp Val Met Gln Pro Tyr Trp Gly Cys Glu Met Asp Phe Asp
 1 5 10 15
 Cys Leu Ala Gly Cys Val Cys His Trp Tyr Asn Ser Cys Gly Ser Thr
 20 25 30

<210> 519
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>

146392026840SEQLIST

<223> Synthetic Construct

<400> 519

Gly	Cys	Asp	Val	Met	Gln	Pro	Tyr	Trp	Gly	Cys	Glu	Met	Asp	Phe	Asp
1				5				10						15	
Cys	Leu	Ala	Gly	Cys	Val	Cys	His	Trp	Tyr	Asn	Ser	Cys	Gly	Arg	Tyr
			20					25					30		

<210> 520

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 520

Gly	Cys	Asp	Val	Met	Gln	Pro	Tyr	Trp	Gly	Cys	Glu	Met	Asp	Phe	Asp
1				5				10						15	
Cys	Leu	Ala	Gly	Cys	Ile	Cys	His	Trp	Tyr	Asn	Ser	Cys	Gly	Phe	Ser
			20					25					30		

<210> 521

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 521

Gly	Cys	Asp	Val	Met	Gln	Pro	Tyr	Trp	Gly	Cys	Glu	Met	Asp	Phe	Asp
1				5				10						15	
Cys	Leu	Ala	Gly	Cys	Ile	Cys	His	Trp	Tyr	Asn	Ser	Cys	Gly	Gln	Val
			20					25					30		

<210> 522

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 522

Gly	Cys	Asp	Val	Met	Gln	Pro	Tyr	Trp	Gly	Cys	Glu	Met	Asp	Phe	Asp
1				5				10						15	
Cys	Leu	Ala	Gly	Cys	Ile	Cys	His	Trp	Tyr	Asn	Ser	Cys	Gly	Tyr	Ala
			20					25					30		

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<210> 523
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 523
 Gly Cys Asp Val Met Gln Pro Tyr Trp Gly Cys Glu Met Asp Phe Asp
 1 5 10 15
 Cys Leu Ala Gly Cys Ile Cys His Trp Tyr Asn Ser Cys Gly Ser Arg
 20 25 30

<210> 524
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 524
 Gly Cys Asp Val Met Gln Pro Tyr Trp Gly Cys Glu Met Asp Phe Asp
 1 5 10 15
 Cys Leu Ala Gly Cys Ile Cys His Trp Tyr Asn Ser Cys Gly Pro Thr
 20 25 30

<210> 525
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 525
 Gly Cys Asp Val Met Gln Pro Tyr Trp Gly Cys Glu Met Asp Phe Asp
 1 5 10 15
 Cys Leu Ala Gly Cys Val Cys His Trp Tyr Asn Ser Cys Gly Ser Met
 20 25 30

<210> 526
 <211> 32
 <212> PRT
 <213> Artificial Sequence

146392026840SEQLIST

<220>

<223> Synthetic Construct

<400> 526

Gly	Cys	Asp	Val	Met	Gln	Pro	Tyr	Trp	Gly	Cys	Glu	Met	Asp	Phe	Asp
1				5				10					15		
Cys	Leu	Ala	Gly	Cys	Val	Cys	His	Trp	Tyr	Asn	Ser	Cys	Gly	Gly	Ile
			20					25					30		

<210> 527

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 527

Gly	Cys	Asp	Val	Met	Gln	Pro	Tyr	Trp	Gly	Cys	Glu	Met	Asp	Phe	Asp
1				5				10					15		
Cys	Leu	Ala	Gly	Cys	Ile	Cys	His	Trp	Tyr	Asn	Ser	Cys	Gly	Thr	Ser
			20					25					30		

<210> 528

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 528

Gly	Cys	Asp	Val	Met	Gln	Pro	Tyr	Trp	Gly	Cys	Glu	Met	Asp	Phe	Asp
1				5				10					15		
Cys	Leu	Ala	Gly	Cys	Ile	Cys	His	Trp	Tyr	Asn	Ser	Cys	Gly	Leu	Gln
			20					25					30		

<210> 529

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 529

Gly	Cys	Asp	Val	Met	Gln	Pro	Tyr	Trp	Gly	Cys	Glu	Met	Asp	Phe	Asp
1				5				10					15		
Cys	Leu	Val	Gly	Cys	Val	Cys	His	Trp	Tyr	Asn	Ser	Cys	Gly	Asp	Glu

20

25

30

<210> 530
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 530
 Gly Cys Asp Val Met Gln Pro Tyr Trp Gly Cys Glu Met Asp Phe Asp
 1 5 10 15
 Cys Leu Ala Gly Cys Val Cys His Trp Tyr Asn Ser Cys Gly Asp Leu
 20 25 30

<210> 531
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 531
 Gly Cys Asp Val Met Gln Pro Tyr Trp Gly Cys Glu Met Asp Phe Asp
 1 5 10 15
 Cys Leu Ala Gly Cys Val Cys His Trp Tyr Asn Ser Cys Gly Gln Phe
 20 25 30

<210> 532
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 532
 Gly Cys Asp Val Met Gln Pro Tyr Trp Gly Cys Glu Met Asp Phe Asp
 1 5 10 15
 Cys Leu Ala Gly Cys Ile Cys His Trp Tyr Asn Ser Cys Gly Trp Lys
 20 25 30

<210> 533
 <211> 32
 <212> PRT
 <213> Artificial Sequence

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<220>

<223> Synthetic Construct

<400> 533

Gly	Cys	Asn	Ile	Met	Leu	Pro	Phe	Trp	Gly	Cys	Gly	Gln	Ser	Phe	Glu
1				5				10					15		
Cys	Leu	Ala	Gly	Cys	Ile	Cys	Gln	Tyr	Tyr	Gln	Ser	Cys	Gly	Leu	Ser
			20				25						30		

<210> 534

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>

<221> VARIANT

<222> 5

<223> Xaa = norleucine

<220>

<221> VARIANT

<222> 16

<223> Xaa = D or E

<220>

<221> VARIANT

<222> 20

<223> Xaa = N, K, or ornithine

<400> 534

Gly	Cys	Asp	Val	Xaa	Gln	Pro	Tyr	Trp	Gly	Cys	Gly	Pro	Asp	Ile	Xaa
1				5				10					15		
Cys	Leu	Ser	Xaa	Cys	Ile	Cys	His	Trp	Tyr	Asn	Ser	Cys	Gly		
			20				25						30		

<210> 535

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>

<221> VARIANT

<222> 5

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<223> Xaa = norleucine

<220>

<221> VARIANT

<222> 16

<223> Xaa = N, K, or ornithine

<220>

<221> VARIANT

<222> 20

<223> Xaa = D or E

<400> 535

Gly	Cys	Asp	Val	Xaa	Gln	Pro	Tyr	Trp	Gly	Cys	Gly	Pro	Asp	Ile	Xaa
1				5				10						15	
Cys	Leu	Ser	Xaa	Cys	Ile	Cys	His	Trp	Tyr	Asn	Ser	Cys	Gly		
			20					25					30		

<210> 536

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>

<221> VARIANT

<222> 5

<223> Xaa = norleucine

<400> 536

Gly	Cys	Asp	Val	Xaa	Gln	Pro	Tyr	Trp	Gly	Cys	Gly	Pro	Asp	Ile	Asp
1				5				10						15	
Cys	Leu	Ser	Lys	Cys	Ile	Cys	His	Trp	Tyr	Asn	Ser	Cys	Gly		
			20					25					30		

<210> 537

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>

<221> VARIANT

<222> 5

<223> Xaa = norleucine

146392026840SEQLIST

<220>

<221> VARIANT

<222> 20

<223> Xaa = ornithine

<400> 537

Gly	Cys	Asp	Val	Xaa	Gln	Pro	Tyr	Trp	Gly	Cys	Gly	Pro	Asp	Ile	Asp
1				5					10					15	
Cys	Leu	Ser	Xaa	Cys	Ile	Cys	His	Trp	Tyr	Asn	Ser	Cys	Gly		
			20					25					30		

<210> 538

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>

<221> VARIANT

<222> 5

<223> Xaa = norleucine

<220>

<221> VARIANT

<222> 16

<223> Xaa = D or E

<220>

<221> VARIANT

<222> 20

<223> Xaa = N, K, or ornithine

<400> 538

Gly	Cys	Asn	Ile	Xaa	Leu	Pro	Tyr	Trp	Gly	Cys	Gly	Arg	Asp	Phe	Xaa
1				5					10					15	
Cys	Met	Glu	Xaa	Cys	Ile	Cys	Gln	Tyr	Tyr	Gln	Ser	Cys	Gly		
			20					25					30		

<210> 539

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>

<221> VARIANT

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<222> 5

<223> Xaa = norleucine

<220>

<221> VARIANT

<222> 16

<223> Xaa = N or K or ornithine

<220>

<221> VARIANT

<222> 20

<223> Xaa = D or E

<400> 539

Gly	Cys	Asn	Ile	Xaa	Leu	Pro	Tyr	Trp	Gly	Cys	Gly	Arg	Asp	Phe	Xaa
1				5					10					15	
Cys	Met	Glu	Xaa	Cys	Ile	Cys	Gln	Tyr	Tyr	Gln	Ser	Cys	Gly		
			20					25					30		

<210> 540

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>

<221> VARIANT

<222> 5

<223> Xaa = norleucine

<220>

<221> VARIANT

<222> 16

<223> Xaa = D or E

<220>

<221> VARIANT

<222> 20

<223> Xaa = N or K or ornithine

<400> 540

Gly	Cys	Asn	Ile	Xaa	Leu	Pro	Phe	Trp	Gly	Cys	Gly	Arg	Asp	Phe	Xaa
1				5					10					15	
Cys	Val	Ser	Xaa	Cys	Ile	Cys	Gln	Tyr	Tyr	Gln	Ser	Cys	Gly		
			20					25					30		

<210> 541

<211> 30

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<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> VARIANT
<222> 5
<223> Xaa = norleucine

<220>
<221> VARIANT
<222> 16
<223> Xaa = N or K or ornithine

<220>
<221> VARIANT
<222> 20
<223> Xaa = D or E

<400> 541
Gly Cys Asn Ile Xaa Leu Pro Phe Trp Gly Cys Gly Arg Asp Phe Xaa
1 5 10 15
Cys Val Ser Xaa Cys Ile Cys Gln Tyr Tyr Gln Ser Cys Gly
20 25 30

<210> 542
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 542
Gly Cys Asn Ile Met Leu Pro Tyr Trp Gly Cys Gly Arg Asp Phe Glu
1 5 10 15
Cys Leu Ala Lys Cys Val Cys Gln Tyr Tyr Gln Ser Cys Gly
20 25 30

<210> 543
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>

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<221> VARIANT

<222> 5

<223> Xaa = norleucine

<400> 543

Gly	Cys	Asn	Ile	Xaa	Leu	Pro	Tyr	Trp	Gly	Cys	Gly	Arg	Asp	Phe	Glu
1				5					10					15	
Cys	Met	Glu	Lys	Cys	Ile	Cys	Gln	Tyr	Tyr	Gln	Ser	Cys	Gly		
			20					25					30		

<210> 544

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>

<221> VARIANT

<222> 5

<223> Xaa = norleucine

<220>

<221> VARIANT

<222> 20

<223> Xaa = ornithine

<400> 544

Gly	Cys	Asn	Ile	Xaa	Leu	Pro	Tyr	Trp	Gly	Cys	Gly	Arg	Asp	Phe	Glu
1				5					10					15	
Cys	Met	Glu	Xaa	Cys	Ile	Cys	Gln	Tyr	Tyr	Gln	Ser	Cys	Gly		
			20					25					30		

<210> 545

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>

<221> VARIANT

<222> 5

<223> Xaa = norleucine

<400> 545

Gly	Cys	Asn	Ile	Xaa	Leu	Pro	Phe	Trp	Gly	Cys	Gly	Arg	Asp	Phe	Glu
1				5					10					15	

146392026840SEQLIST

Cys Val Ser Lys Cys Ile Cys Gln Tyr Tyr Gln Ser Cys Gly
 20 25 30

<210> 546
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<220>
 <221> VARIANT
 <222> 5
 <223> Xaa = norleucine

<220>
 <221> VARIANT
 <222> 20
 <223> Xaa = ornithine

<400> 546
 Gly Cys Asn Ile Xaa Leu Pro Phe Trp Gly Cys Gly Arg Asp Phe Glu
 1 5 10 15
 Cys Val Ser Xaa Cys Ile Cys Gln Tyr Tyr Gln Ser Cys Gly
 20 25 30

<210> 547
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 547
 Gly Cys Asn Ile Leu Leu Pro Phe Trp Gly Cys Gly Arg Asp Phe Glu
 1 5 10 15
 Cys Val Ser Gln Cys Ile Cys Gln Tyr Tyr Gln Ser Cys Gly
 20 25 30

<210> 548
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

146392026840SEQLIST

<400> 548

Gly	Cys	Asn	Ile	Leu	Gln	Pro	Phe	Trp	Gly	Cys	Gly	Arg	Asp	Phe	Glu
1				5				10						15	
Cys	Val	Ser	Gln	Cys	Ile	Cys	Gln	Tyr	Tyr	Gln	Ser	Cys	Gly		
			20					25					30		

<210> 549

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>

<221> VARIANT

<222> 5

<223> Xaa = norleucine

<220>

<221> VARIANT

<222> 20

<223> Xaa = D or E

<400> 549

Gly	Cys	Asp	Val	Xaa	Gln	Pro	Tyr	Trp	Gly	Cys	Gly	Pro	Asp	Ile	Lys
1				5				10						15	
Cys	Leu	Ser	Xaa	Cys	Ile	Cys	His	Trp	Tyr	Asn	Ser	Cys	Gly		
			20					25					30		

<210> 550

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>

<221> VARIANT

<222> 5

<223> Xaa = norleucine

<400> 550

Gly	Cys	Asp	Val	Xaa	Gln	Pro	Tyr	Trp	Gly	Cys	Gly	Pro	Asp	Ile	Lys
1				5				10						15	
Cys	Leu	Ser	Asp	Cys	Ile	Cys	His	Trp	Tyr	Asn	Ser	Cys	Gly		
			20					25					30		

146392026840SEQLIST

<210> 551
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<220>
 <221> VARIANT
 <222> 5
 <223> Xaa = norleucine

<400> 551
 Gly Cys Asp Val Xaa Gln Pro Tyr Trp Gly Cys Gly Pro Asp Ile Lys
 1 5 10 15
 Cys Leu Ser Glu Cys Ile Cys His Trp Tyr Asn Ser Cys Gly
 20 25 30

<210> 552
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<220>
 <221> VARIANT
 <222> 5
 <223> Xaa = norleucine

<220>
 <221> VARIANT
 <222> 16
 <223> Xaa = ornithine

<220>
 <221> VARIANT
 <222> 20
 <223> Xaa = D or E

<400> 552
 Gly Cys Asp Val Xaa Gln Pro Tyr Trp Gly Cys Gly Pro Asp Ile Xaa
 1 5 10 15
 Cys Leu Ser Xaa Cys Ile Cys His Trp Tyr Asn Ser Cys Gly
 20 25 30

<210> 553
 <211> 30

146392026840SEQLIST

<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> VARIANT
<222> 5
<223> Xaa = norleucine

<220>
<221> VARIANT
<222> 16
<223> Xaa = ornithine

<400> 553
Gly Cys Asp Val Xaa Gln Pro Tyr Trp Gly Cys Gly Pro Asp Ile Xaa
1 5 10 15
Cys Leu Ser Asp Cys Ile Cys His Trp Tyr Asn Ser Cys Gly
20 25 30

<210> 554
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> VARIANT
<222> 5
<223> Xaa = norleucine

<220>
<221> VARIANT
<222> 16
<223> Xaa = ornithine

<400> 554
Gly Cys Asp Val Xaa Gln Pro Tyr Trp Gly Cys Gly Pro Asp Ile Xaa
1 5 10 15
Cys Leu Ser Glu Cys Ile Cys His Trp Tyr Asn Ser Cys Gly
20 25 30

<210> 555
<211> 30
<212> PRT
<213> Artificial Sequence

146392026840SEQLIST

<220>

<223> Synthetic Construct

<220>

<221> VARIANT

<222> 5

<223> Xaa = norleucine

<220>

<221> VARIANT

<222> 20

<223> Xaa = D or E

<400> 555

Gly	Cys	Asn	Ile	Xaa	Leu	Pro	Tyr	Trp	Gly	Cys	Gly	Arg	Asp	Phe	Lys
1				5				10						15	
Cys	Met	Glu	Xaa	Cys	Ile	Cys	Gln	Tyr	Tyr	Gln	Ser	Cys	Gly		
			20				25						30		

<210> 556

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>

<221> VARIANT

<222> 5

<223> Xaa = norleucine

<400> 556

Gly	Cys	Asn	Ile	Xaa	Leu	Pro	Tyr	Trp	Gly	Cys	Gly	Arg	Asp	Phe	Lys
1				5				10						15	
Cys	Met	Glu	Asp	Cys	Ile	Cys	Gln	Tyr	Tyr	Gln	Ser	Cys	Gly		
			20				25						30		

<210> 557

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>

<221> VARIANT

<222> 5

146392026840SEQLIST

<223> Xaa = norleucine

<400> 557

Gly	Cys	Asn	Ile	Xaa	Leu	Pro	Tyr	Trp	Gly	Cys	Gly	Arg	Asp	Phe	Lys
1				5				10						15	
Cys	Met	Glu	Glu	Cys	Ile	Cys	Gln	Tyr	Tyr	Gln	Ser	Cys	Gly		
		20					25						30		

<210> 558

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>

<221> VARIANT

<222> 5

<223> Xaa = norleucine

<220>

<221> VARIANT

<222> 16

<223> Xaa = ornithine

<220>

<221> VARIANT

<222> 20

<223> Xaa = D or E

<400> 558

Gly	Cys	Asn	Ile	Xaa	Leu	Pro	Tyr	Trp	Gly	Cys	Gly	Arg	Asp	Phe	Xaa
1				5				10						15	
Cys	Met	Glu	Xaa	Cys	Ile	Cys	Gln	Tyr	Tyr	Gln	Ser	Cys	Gly		
		20					25						30		

<210> 559

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>

<221> VARIANT

<222> 5

<223> Xaa = norleucine

146392026840SEQLIST

<220>

<221> VARIANT

<222> 16

<223> Xaa = ornithine

<400> 559

Gly	Cys	Asn	Ile	Xaa	Leu	Pro	Tyr	Trp	Gly	Cys	Gly	Arg	Asp	Phe	Xaa
1				5					10					15	
Cys	Met	Glu	Asp	Cys	Ile	Cys	Gln	Tyr	Tyr	Gln	Ser	Cys	Gly		
			20					25					30		

<210> 560

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>

<221> VARIANT

<222> 5, 16

<223> Xaa = norleucine

<220>

<221> VARIANT

<222> 16

<223> Xaa = ornithine

<400> 560

Gly	Cys	Asn	Ile	Xaa	Leu	Pro	Tyr	Trp	Gly	Cys	Gly	Arg	Asp	Phe	Xaa
1				5					10					15	
Cys	Met	Glu	Glu	Cys	Ile	Cys	Gln	Tyr	Tyr	Gln	Ser	Cys	Gly		
			20					25					30		

<210> 561

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>

<221> VARIANT

<222> 5

<223> Xaa = norleucine

<220>

<221> VARIANT

146392026840SEQLIST

<222> 20

<223> Xaa = D or E

<400> 561

Gly	Cys	Asn	Ile	Xaa	Leu	Pro	Phe	Trp	Gly	Cys	Gly	Arg	Asp	Phe	Lys
1				5					10					15	
Cys	Val	Ser	Xaa	Cys	Ile	Cys	Gln	Tyr	Tyr	Gln	Ser	Cys	Gly		
			20					25					30		

<210> 562

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>

<221> VARIANT

<222> 4

<223> Xaa = norleucine

<400> 562

Cys	Asn	Ile	Xaa	Leu	Pro	Phe	Trp	Gly	Cys	Gly	Arg	Asp	Phe	Lys	Cys
1				5				10						15	
Val	Ser	Asp	Cys	Ile	Cys	Gln	Tyr	Tyr	Gln	Ser	Cys	Gly			
			20					25							

<210> 563

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>

<221> VARIANT

<222> 4

<223> Xaa = norleucine

<400> 563

Cys	Asn	Ile	Xaa	Leu	Pro	Phe	Trp	Gly	Cys	Gly	Arg	Asp	Phe	Lys	Cys
1				5				10						15	
Val	Ser	Glu	Cys	Ile	Cys	Gln	Tyr	Tyr	Gln	Ser	Cys	Gly			
			20					25							

<210> 564

146392026840SEQLIST

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

<220>
 <223> Synthetic Construct

<220>
 <221> VARIANT
 <222> 5
 <223> Xaa = norleucine

<220>
 <221> VARIANT
 <222> 16
 <223> Xaa = ornithine

<220>
 <221> VARIANT
 <222> 20
 <223> Xaa = D or E

<400> 564
 Gly Cys Asn Ile Xaa Leu Pro Phe Trp Gly Cys Gly Arg Asp Phe Xaa
 1 5 10 15
 Cys Val Ser Xaa Cys Ile Cys Gln Tyr Tyr Gln Ser Cys Gly
 20 25 30

<210> 565
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<220>
 <221> VARIANT
 <222> 5
 <223> Xaa = norleucine

<220>
 <221> VARIANT
 <222> 16
 <223> Xaa = ornithine

<400> 565
 Gly Cys Asn Ile Xaa Leu Pro Phe Trp Gly Cys Gly Arg Asp Phe Xaa
 1 5 10 15
 Cys Val Ser Asp Cys Ile Cys Gln Tyr Tyr Gln Ser Cys Gly
 20 25 30

146392026840SEQLIST

<210> 566
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<220>
 <221> VARIANT
 <222> 5
 <223> Xaa = norleucine

<220>
 <221> VARIANT
 <222> 516
 <223> Xaa = ornithine

<400> 566
 Gly Cys Asn Ile Xaa Leu Pro Phe Trp Gly Cys Gly Arg Asp Phe Xaa
 1 5 10 15
 Cys Val Ser Glu Cys Ile Cys Gln Tyr Tyr Gln Ser Cys Gly
 20 25 30

<210> 567
 <211> 5
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 567
 Arg Trp Tyr Glu Ser
 1 5

<210> 568
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<220>
 <221> VARIANT
 <222> 20
 <223> Xaa = ornithine

146392026840SEQLIST

<400> 568

Gly	Cys	Asn	Ile	Met	Leu	Pro	Tyr	Trp	Gly	Cys	Gly	Arg	Asp	Phe	Glu
1				5					10					15	
Cys	Leu	Ala	Xaa	Cys	Val	Cys	Gln	Tyr	Tyr	Gln	Ser	Cys	Gly		
			20					25					30		