

SEQUENCE LISTING

<110> Ablynx N.V.

<120> Amino acid sequences directed against growth factor
receptors and
polypeptides comprising the same for the treatment of
diseases
and disorders associated with growth factors and their
receptors.

<130> P07-012 PCT

<160> 365

<170> PatentIn version 3.4

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Gly

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Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ile Pro Phe Ser Xaa
Xaa

20

25

30

Xaa Xaa Xaa Trp Phe Arg Gln Ala Pro Gly Lys Gln Arg Asp Ser
Val

35

40

45

Ala Xaa Xaa Xaa Xaa Xaa Arg Phe Thr Ile Ser Arg Asp Asn Ala
Lys

50

55

60

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

65

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75

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Val Tyr Arg Cys Tyr Phe Xaa Xaa Xaa Xaa Xaa Trp Gly Gln Gly
Thr

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Gly

1 5 10 15

Ser Leu Arg Leu Ser Cys Val Gly Ser Gly Arg Thr Phe Ser Xaa
Xaa

20 25 30

Xaa Xaa Xaa Trp Phe Arg Leu Ala Pro Gly Lys Glu Arg Glu Phe
Val

35 40 45

Ala Xaa Xaa Xaa Xaa Xaa Arg Phe Thr Ile Ser Arg Asp Thr Ala
Ser

50 55 60

Asn Arg Gly Tyr Leu His Met Asn Asn Leu Thr Pro Glu Asp Thr
Ala

65 70 75

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Val Tyr Tyr Cys Ala Ala Xaa Xaa Xaa Xaa Xaa Trp Gly Gln Gly
Thr

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Gln Val Thr Val Ser Ser

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Asp														
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Ser	Leu	Lys	Leu	Ser	Cys	Ala	Leu	Thr	Gly	Gly	Ala	Phe	Thr	Xaa
Xaa														
			20					25					30	

Xaa	Xaa	Xaa	Trp	Phe	Arg	Gln	Thr	Pro	Gly	Arg	Glu	Arg	Glu	Phe
Val														
		35					40					45		

Ala	Xaa	Xaa	Xaa	Xaa	Xaa	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ala
Lys														
	50					55					60			

Asn	Met	Val	Tyr	Leu	Arg	Met	Asn	Ser	Leu	Ile	Pro	Glu	Asp	Ala
Ala														
65					70					75				
80														

Val	Tyr	Ser	Cys	Ala	Ala	Xaa	Xaa	Xaa	Xaa	Xaa	Trp	Gly	Gln	Gly
Thr														
					85					90				95

Leu Val Thr Val Ser Ser
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Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Thr Ala Ser Glu Ser Pro Phe Arg Xaa
Xaa
20 25 30

Xaa Xaa Xaa Trp Phe Arg Gln Thr Ser Gly Gln Glu Arg Glu Phe
Val
35 40 45

Ala Xaa Xaa Xaa Xaa Xaa Arg Phe Thr Ile Ser Arg Asp Asp Ala
Lys
50 55 60

Asn Thr Val Trp Leu His Gly Ser Thr Leu Lys Pro Glu Asp Thr
 Ala
 65 70 75
 80

Val Tyr Tyr Cys Ala Ala Xaa Xaa Xaa Xaa Xaa Trp Gly Gln Gly
 Thr
 85 90 95

Gln Val Thr Val Ser Ser
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Ala Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Gly Gly
 Gly
 1 5 10 15

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Ser Leu Arg Leu Ala Cys Ala Ala Ser Glu Arg Ile Phe Asp Xaa
Xaa

20

25

30

Xaa Xaa Xaa Trp Tyr Arg Gln Gly Pro Gly Asn Glu Arg Glu Leu
Val

35

40

45

Ala Xaa Xaa Xaa Xaa Xaa Arg Phe Thr Ile Ser Met Asp Tyr Thr
Lys

50

55

60

Gln Thr Val Tyr Leu His Met Asn Ser Leu Arg Pro Glu Asp Thr
Gly

65

70

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Leu Tyr Tyr Cys Lys Ile Xaa Xaa Xaa Xaa Xaa Trp Gly Gln Gly
Thr

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Gln Val Thr Val Ser Ser

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Asp Val Lys Phe Val Glu Ser Gly Gly Gly Leu Val Gln Ala Gly
Gly

1 5 10 15

Ser Leu Arg Leu Ser Cys Val Ala Ser Gly Phe Asn Phe Asp Xaa
Xaa

20 25 30

Xaa Xaa Xaa Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Glu
Val

35 40 45

Ala Xaa Xaa Xaa Xaa Xaa Arg Phe Thr Ile Ser Ser Glu Lys Asp
Lys

50 55 60

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

65 70 75

80

Leu Tyr Ile Cys Ala Gly Xaa Xaa Xaa Xaa Xaa Trp Gly Arg Gly
Thr

85 90 95

Gln Val Thr Val Ser Ser

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

Ser Leu Arg Leu Ser Cys Val Ala Ser Gly Ser Thr Tyr Thr Xaa
 Xaa
 20 25 30

Xaa Xaa Xaa Trp Tyr Arg Gln Tyr Pro Gly Lys Gln Arg Ala Leu
 Val
 35 40 45

Ala Xaa Xaa Xaa Xaa Xaa Arg Phe Thr Ile Ala Arg Asp Ser Thr
 Lys
 50 55 60

Asp Thr Phe Cys Leu Gln Met Asn Asn Leu Lys Pro Glu Asp Thr
 Ala
 65 70 75
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Val Tyr Tyr Cys Tyr Ala Xaa Xaa Xaa Xaa Xaa Trp Gly Gln Gly
 Thr
 85 90 95

Gln Val Thr Val Ser Ser
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Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Ala Gly
Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Ser Asp Xaa
Xaa
20 25 30

Xaa Xaa Xaa Trp Phe Arg Gln Ala Pro Gly Lys Pro Arg Glu Gly
Val
35 40 45

Ser Xaa Xaa Xaa Xaa Xaa Arg Phe Thr Ile Ser Thr Asp Asn Ala
Lys
50 55 60

Asn Thr Val His Leu Leu Met Asn Arg Val Asn Ala Glu Asp Thr
 Ala
 65 70 75
 80

Leu Tyr Tyr Cys Ala Val Xaa Xaa Xaa Xaa Xaa Trp Gly Arg Gly
 Thr
 85 90 95

Arg Val Thr Val Ser Ser
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Gln Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly
 Gly
 1 5 10 15

232

Ser Leu Arg Leu Ser Cys Gln Ala Ser Gly Asp Ile Ser Thr Xaa
Xaa

20

25

30

Xaa Xaa Xaa Trp Tyr Arg Gln Val Pro Gly Lys Leu Arg Glu Phe
Val

35

40

45

Ala Xaa Xaa Xaa Xaa Xaa Arg Phe Thr Ile Ser Gly Asp Asn Ala
Lys

50

55

60

Arg Ala Ile Tyr Leu Gln Met Asn Asn Leu Lys Pro Asp Asp Thr
Ala

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Val Tyr Tyr Cys Asn Arg Xaa Xaa Xaa Xaa Xaa Trp Gly Gln Gly
Thr

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Gln Val Thr Val Ser Pro

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Gln Val Pro Val Val Glu Ser Gly Gly Gly Leu Val Gln Ala Gly
 Asp

1 5 10 15

Ser Leu Arg Leu Phe Cys Ala Val Pro Ser Phe Thr Ser Thr Xaa
 Xaa

20 25 30

Xaa Xaa Xaa Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe
 Val

35 40 45

Ala Xaa Xaa Xaa Xaa Xaa Arg Phe Thr Ile Ser Arg Asn Ala Thr
 Lys

50 55 60

Asn Thr Leu Thr Leu Arg Met Asp Ser Leu Lys Pro Glu Asp Thr
 Ala

65 70 75

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Val Tyr Tyr Cys Ala Ala Xaa Xaa Xaa Xaa Xaa Trp Gly Gln Gly
 Thr

85 90 95

Gln Val Thr Val Ser Ser

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

Ser Leu Arg Leu Phe Cys Thr Val Ser Gly Gly Thr Ala Ser Xaa
 Xaa
 20 25 30

Xaa Xaa Xaa Trp Phe Arg Gln Ala Pro Gly Glu Lys Arg Glu Phe
 Val
 35 40 45

Ala Xaa Xaa Xaa Xaa Xaa Arg Phe Thr Ile Ala Arg Glu Asn Ala
 Gly
 50 55 60

Asn Met Val Tyr Leu Gln Met Asn Asn Leu Lys Pro Asp Asp Thr
 Ala
 65 70 75
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Leu Tyr Thr Cys Ala Ala Xaa Xaa Xaa Xaa Xaa Trp Gly Arg Gly
 Thr
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Gln Val Thr Val Ser Ser
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Ala Val Gln Leu Val Glu Ser Gly Gly Asp Ser Val Gln Pro Gly
Asp
1 5 10 15

Ser Gln Thr Leu Ser Cys Ala Ala Ser Gly Arg Thr Asn Ser Xaa
Xaa
20 25 30

Xaa Xaa Xaa Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Val Phe
Leu
35 40 45

Ala Xaa Xaa Xaa Xaa Xaa Arg Phe Thr Ile Ser Arg Asp Ser Ala
Lys
50 55 60

Asn Met Met Tyr Leu Gln Met Asn Asn Leu Lys Pro Gln Asp Thr
 Ala
 65 70 75
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Val Tyr Tyr Cys Ala Ala Xaa Xaa Xaa Xaa Xaa Trp Gly Gln Gly
 Thr
 85 90 95

Gln Val Thr Val Ser Ser
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Ala Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Ala Gly
 Gly
 1 5 10 15

237

Ser Leu Arg Leu Ser Cys Val Val Ser Gly Leu Thr Ser Ser Xaa
Xaa

20

25

30

Xaa Xaa Xaa Trp Phe Arg Gln Thr Pro Trp Gln Glu Arg Asp Phe
Val

35

40

45

Ala Xaa Xaa Xaa Xaa Xaa Arg Phe Thr Ile Ser Arg Asp Asn Tyr
Lys

50

55

60

Asp Thr Val Leu Leu Glu Met Asn Phe Leu Lys Pro Glu Asp Thr
Ala

65

70

75

80

Ile Tyr Tyr Cys Ala Ala Xaa Xaa Xaa Xaa Xaa Trp Gly Gln Gly
Thr

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90

95

Gln Val Thr Val Ser Ser

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Ala Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Ala Gly
Ala

1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Thr Ser Thr Arg Thr Leu Asp Xaa
Xaa

20 25 30

Xaa Xaa Xaa Trp Phe Arg Gln Ala Pro Gly Arg Asp Arg Glu Phe
Val

35 40 45

Ala Xaa Xaa Xaa Xaa Xaa Arg Phe Thr Val Ser Arg Asp Ser Ala
Glu

50 55 60

Asn Thr Val Ala Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr
Ala

65 70 75

80

Val Tyr Tyr Cys Ala Ala Xaa Xaa Xaa Xaa Xaa Trp Gly Gln Gly
Thr

85 90 95

Arg Val Thr Val Ser Ser

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Gly														
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Ser	Leu	Arg	Leu	Ser	Cys	Thr	Val	Ser	Arg	Leu	Thr	Ala	His	Xaa
Xaa														
			20						25				30	

Xaa	Xaa	Xaa	Trp	Phe	Arg	Gln	Ala	Pro	Gly	Lys	Glu	Arg	Glu	Ala
Val														
		35					40					45		

Ser	Xaa	Xaa	Xaa	Xaa	Xaa	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Tyr	Ala
Gly														
	50					55					60			

Asn	Thr	Ala	Phe	Leu	Gln	Met	Asp	Ser	Leu	Lys	Pro	Glu	Asp	Thr
Gly														
65					70					75				
80														

Val	Tyr	Tyr	Cys	Ala	Thr	Xaa	Xaa	Xaa	Xaa	Xaa	Trp	Gly	Gln	Gly
Thr														
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Gln Val Thr Val Ser Ser
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Glu Val Gln Leu Val Glu Ser Gly Gly Glu Leu Val Gln Ala Gly
Gly
1 5 10 15

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

Xaa Xaa Xaa Trp Phe Arg Arg Ala Pro Gly Lys Glu Arg Glu Phe
Val
35 40 45

Ala Xaa Xaa Xaa Xaa Xaa Arg Phe Thr Val Ser Arg Asp Asn Gly
Lys
50 55 60

Asn Thr Ala Tyr Leu Arg Met Asn Ser Leu Lys Pro Glu Asp Thr
 Ala
 65 70 75
 80

Asp Tyr Tyr Cys Ala Val Xaa Xaa Xaa Xaa Xaa Leu Gly Ser Gly
 Thr
 85 90 95

Gln Val Thr Val Ser Ser
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Ala Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly
 Gly
 1 5 10 15

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Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Xaa
Xaa

20

25

30

Xaa Xaa Xaa Trp Val Arg Gln Ala Pro Gly Lys Val Leu Glu Trp
Val

35

40

45

Ser Xaa Xaa Xaa Xaa Xaa Arg Phe Thr Ile Ser Arg Asp Asn Ala
Lys

50

55

60

Asn Thr Leu Tyr Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr
Ala

65

70

75

80

Val Tyr Tyr Cys Val Lys Xaa Xaa Xaa Xaa Xaa Gly Ser Gln Gly
Thr

85

90

95

Gln Val Thr Val Ser Ser

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Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly
Gly

1 5 10 15

Ser Leu Arg Leu Ser Cys Val Cys Val Ser Ser Gly Cys Thr Xaa
Xaa

20 25 30

Xaa Xaa Xaa Trp Val Arg Gln Ala Pro Gly Lys Ala Glu Glu Trp
Val

35 40 45

Ser Xaa Xaa Xaa Xaa Xaa Arg Phe Lys Ile Ser Arg Asp Asn Ala
Lys

50 55 60

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

65 70 75

80

Met Tyr Tyr Cys Gln Arg Xaa Xaa Xaa Xaa Xaa Arg Gly Gln Gly
Thr

85 90 95

Gln Val Thr Val Ser Ser

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Gly														
1				5					10					15

Ser	Leu	Thr	Leu	Ser	Cys	Val	Phe	Ser	Gly	Ser	Thr	Phe	Ser	Xaa
Xaa														
			20						25				30	

Xaa	Xaa	Xaa	Trp	Val	Arg	His	Thr	Pro	Gly	Lys	Ala	Glu	Glu	Trp
Val														
		35					40					45		

Ser	Xaa	Xaa	Xaa	Xaa	Xaa	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ala
Lys														
	50					55					60			

Asn	Thr	Leu	Tyr	Leu	Glu	Met	Asn	Ser	Leu	Ser	Pro	Glu	Asp	Thr
Ala														
65					70					75				
80														

Met	Tyr	Tyr	Cys	Gly	Arg	Xaa	Xaa	Xaa	Xaa	Xaa	Arg	Ser	Lys	Gly
Ile														
					85					90				95

Gln Val Thr Val Ser Ser
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Ala Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Ala Gly
Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Arg Thr Phe Ser Xaa
Xaa
20 25 30

Xaa Xaa Xaa Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe
Val
35 40 45

Ala Xaa Xaa Xaa Xaa Xaa Arg Phe Thr Ile Ser Arg Asp Asn Ala
Lys
50 55 60

Asn Thr Val Tyr Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr
 Ala
 65 70 75
 80

Val Tyr Tyr Cys Ala Ala Xaa Xaa Xaa Xaa Xaa Arg Gly Gln Gly
 Thr
 85 90 95

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

247

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Ser Phe Asp Xaa
Xaa

20

25

30

Xaa Xaa Xaa Trp Leu Arg Gln Thr Pro Gly Lys Gly Leu Glu Trp
Val

35

40

45

Gly Xaa Xaa Xaa Xaa Xaa Arg Phe Thr Ile Ser Arg Asp Asn Ala
Lys

50

55

60

Asn Met Leu Tyr Leu His Leu Asn Asn Leu Lys Ser Glu Asp Thr
Ala

65

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Val Tyr Tyr Cys Arg Arg Xaa Xaa Xaa Xaa Xaa Leu Gly Gln Gly
Thr

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Gln Val Thr Val Ser Ser

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Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly
Gly

1 5 10 15

Ser Leu Arg Leu Ser Cys Val Cys Val Ser Ser Gly Cys Thr Xaa
Xaa

20 25 30

Xaa Xaa Xaa Trp Val Arg Gln Ala Pro Gly Lys Ala Glu Glu Trp
Val

35 40 45

Ser Xaa Xaa Xaa Xaa Xaa Arg Phe Lys Ile Ser Arg Asp Asn Ala
Lys

50 55 60

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

65 70 75

80

Met Tyr Tyr Cys Gln Arg Xaa Xaa Xaa Xaa Xaa Arg Gly Gln Gly
Thr

85 90 95

Gln Val Thr Val Ser Ser

100

<210> 23

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> KERE-class Nanobody FW1 sequence

<400> 23

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Arg Thr Ser Ser
 20 25 30

<210> 24

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> KERE-class Nanobody FW1 sequence

<400> 24

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

Ser Leu Ser Leu Ser Cys Ser Ala Ser Gly Arg Thr Phe Ser
 20 25 30

<210> 25

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> KERE-class Nanobody FW1 sequence

<400> 25

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

Ser Leu Arg Leu Ser Cys Ala Ala Thr Gly Arg Ala Phe Gly
 20 25 30

250

<210> 26
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> KERE-class Nanobody FW1 sequence

<400> 26

Ala Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly
Glu
1 5 10 15

Ser Leu Gly Leu Ser Cys Val Ala Ser Gly Arg Asp Phe Val
20 25 30

<210> 27
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> KERE-class Nanobody FW1 sequence

<400> 27

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Ala Gly
Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Glu Val Leu Gly Arg Thr Ala Gly
20 25 30

<210> 28
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> KERE-class Nanobody FW1 sequence

<400> 28

251

Gln Val Gln Leu Val Glu Ser Gly Gly Gly Trp Val Gln Pro Gly
Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Glu Thr Ile Leu Ser
20 25 30

<210> 29
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> KERE-class Nanobody FW1 sequence

<400> 29

Gln Val Gln Leu Val Glu Ser Gly Gly Gly Thr Val Gln Pro Gly
Gly
1 5 10 15

Ser Leu Asn Leu Ser Cys Val Ala Ser Gly Asn Thr Phe Asn
20 25 30

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

<220>
<223> KERE-class Nanobody FW1 sequence

<400> 30

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Ala Gln Pro Gly
Gly
1 5 10 15

Ser Leu Gln Leu Ser Cys Ser Ala Pro Gly Phe Thr Leu Asp
20 25 30

<210> 31
<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> KERE-class Nanobody FW1 sequence

<400> 31

Ala	Gln	Glu	Leu	Glu	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Ala	Gly
Gly														
1				5				10					15	

Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Arg	Thr	Phe	Asn	
			20					25					30	

<210> 32

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> KERE-class Nanobody FW1 sequence

<400> 32

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

Ser	Cys	Ala	Ala	Ser	Gly									
						20								

<210> 33

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> KERE-class Nanobody FW1 sequence

<400> 33

Val	Asp	Ser	Gly	Gly	Gly	Leu	Val	Gln	Ala	Gly	Asp	Ser	Leu	Lys
Leu														
1				5				10					15	

Ser Cys Ala Leu Thr Gly
20

<210> 34
<211> 22
<212> PRT
<213> Artificial Sequence

<220>
<223> KERE-class Nanobody FW1 sequence

<400> 34

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

Ser Cys Ala Ala Ser Gly
20

<210> 35
<211> 22
<212> PRT
<213> Artificial Sequence

<220>
<223> KERE-class Nanobody FW1 sequence

<400> 35

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

Ser Cys Gln Val Ser Glu
20

<210> 36
<211> 22
<212> PRT
<213> Artificial Sequence

<220>

<223> KERE-class Nanobody FW1 sequence

<400> 36

Gln Asp Ser Gly Gly Gly Ser Val Gln Ala Gly Gly Ser Leu Lys
 Leu
 1 5 10 15

Ser Cys Ala Ala Ser Gly
 20

<210> 37

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> KERE-class Nanobody FW1 sequence

<400> 37

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

Ser Cys Ala Ala Ser Glu
 20

<210> 38

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> KERE-class Nanobody FW1 sequence

<400> 38

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

Ser Cys Ala Ser Ser Thr

20

<210> 39
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> KERE-class Nanobody FW1 sequence

<400> 39

Met Glu Ser Gly Gly Asp Ser Val Gln Ser Gly Gly Ser Leu Thr
 Leu
 1 5 10 15

Ser Cys Val Ala Ser Gly
 20

<210> 40
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> KERE-class Nanobody FW1 sequence

<400> 40

Gln Ala Ser Gly Gly Gly Leu Val Gln Ala Gly Gly Ser Leu Arg
 Leu
 1 5 10 15

Ser Cys Ser Ala Ser Val
 20

<210> 41
 <211> 14
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> KERE-class Nanobody FW2 sequence

<400> 41

Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val Ala
1 5 10

<210> 42

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> KERE-class Nanobody FW2 sequence

<400> 42

Trp Phe Arg Gln Thr Pro Gly Arg Glu Arg Glu Phe Val Ala
1 5 10

<210> 43

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> KERE-class Nanobody FW2 sequence

<400> 43

Trp Tyr Arg Gln Ala Pro Gly Lys Gln Arg Glu Met Val Ala
1 5 10

<210> 44

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> KERE-class Nanobody FW2 sequence

<400> 44

Trp Tyr Arg Gln Gly Pro Gly Lys Gln Arg Glu Leu Val Ala
1 5 10

<210> 45

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

<220>
 <223> KERE-class Nanobody FW2 sequence

<400> 45

Trp Ile Arg Gln Ala Pro Gly Lys Glu Arg Glu Gly Val Ser
 1 5 10

<210> 46
 <211> 14
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> KERE-class Nanobody FW2 sequence

<400> 46

Trp Phe Arg Glu Ala Pro Gly Lys Glu Arg Glu Gly Ile Ser
 1 5 10

<210> 47
 <211> 14
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> KERE-class Nanobody FW2 sequence

<400> 47

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

<210> 48
 <211> 14
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> KERE-class Nanobody FW2 sequence

<400> 48

Trp	Phe	Arg	Gln	Ala	Pro	Gly	Lys	Gln	Arg	Glu	Glu	Val	Ser
1				5				10					

<210> 49

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> KERE-class Nanobody FW2 sequence

<400> 49

Trp	Phe	Arg	Gln	Pro	Pro	Gly	Lys	Val	Arg	Glu	Phe	Val	Gly
1				5				10					

<210> 50

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> KERE-class Nanobody FW3 sequence

<400> 50

Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ala	Lys	Asn	Thr	Val	Tyr	Leu
Gln														
1				5				10					15	

Met	Asn	Ser	Leu	Lys	Pro	Glu	Asp	Thr	Ala	Val	Tyr	Arg	Cys	Tyr
Phe														
			20					25					30	

<210> 51

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> KERE-class Nanobody FW3 sequence

<400> 51

Arg Phe Ala Ile Ser Arg Asp Asn Asn Lys Asn Thr Gly Tyr Leu
Gln

1 5 10 15

Met Asn Ser Leu Glu Pro Glu Asp Thr Ala Val Tyr Tyr Cys Ala
Ala

20 25 30

<210> 52

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> KERE-class Nanobody FW3 sequence

<400> 52

Arg Phe Thr Val Ala Arg Asn Asn Ala Lys Asn Thr Val Asn Leu
Glu

1 5 10 15

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

20 25 30

<210> 53

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> KERE-class Nanobody FW3 sequence

<400> 53

Arg Phe Thr Ile Ser Arg Asp Ile Ala Lys Asn Thr Val Asp Leu
Leu

1 5 10 15

Met Asn Asn Leu Glu Pro Glu Asp Thr Ala Val Tyr Tyr Cys Ala
Ala

20 25 30

<210> 54
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> KERE-class Nanobody FW3 sequence

<400> 54

Arg Leu Thr Ile Ser Arg Asp Asn Ala Val Asp Thr Met Tyr Leu
Gln
1 5 10 15

Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Ala
Ala
20 25 30

<210> 55
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> KERE-class Nanobody FW3 sequence

<400> 55

Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr Leu
Gln
1 5 10 15

Met Asp Asn Val Lys Pro Glu Asp Thr Ala Ile Tyr Tyr Cys Ala
Ala
20 25 30

<210> 56
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> KERE-class Nanobody FW3 sequence

<400> 56

Arg Phe Thr Ile Ser Lys Asp Ser Gly Lys Asn Thr Val Tyr Leu
 Gln
 1 5 10 15

Met Thr Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Ala
 Thr
 20 25 30

<210> 57

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> KERE-class Nanobody FW3 sequence

<400> 57

Arg Phe Thr Ile Ser Arg Asp Ser Ala Lys Asn Met Met Tyr Leu
 Gln
 1 5 10 15

Met Asn Asn Leu Lys Pro Gln Asp Thr Ala Val Tyr Tyr Cys Ala
 Ala
 20 25 30

<210> 58

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> KERE-class Nanobody FW3 sequence

<400> 58

Arg Phe Thr Ile Ser Arg Glu Asn Asp Lys Ser Thr Val Tyr Leu
 Gln
 1 5 10 15

262

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

20

25

30

<210> 59

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> KERE-class Nanobody FW3 sequence

<400> 59

Arg Phe Thr Ile Ser Arg Asp Tyr Ala Gly Asn Thr Ala Tyr Leu
Gln

1

5

10

15

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

20

25

30

<210> 60

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> KERE-class Nanobody FW4 sequence

<400> 60

Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser

1

5

10

<210> 61

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> KERE-class Nanobody FW4 sequence

<400> 61

Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser
 1 5 10

<210> 62
 <211> 11
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> KERE-class Nanobody FW4 sequence

<400> 62

Arg Gly Gln Gly Thr Arg Val Thr Val Ser Ser
 1 5 10

<210> 63
 <211> 11
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> KERE-class Nanobody FW4 sequence

<400> 63

Trp Gly Leu Gly Thr Gln Val Thr Ile Ser Ser
 1 5 10

<210> 64
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> GLEW-class Nanobody FW1 sequence

<400> 64

Gln Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly
 Gly
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser
 20 25 30

<210> 65
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> GLEW-class Nanobody FW1 sequence

<400> 65

Glu Val His Leu Val Glu Ser Gly Gly Gly Leu Val Arg Pro Gly
 Gly
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Phe Gly Phe Ile Phe Lys
 20 25 30

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

<220>
 <223> GLEW-class Nanobody FW1 sequence

<400> 66

Gln Val Lys Leu Glu Glu Ser Gly Gly Gly Leu Ala Gln Pro Gly
 Gly
 1 5 10 15

Ser Leu Arg Leu Ser Cys Val Ala Ser Gly Phe Thr Phe Ser
 20 25 30

<210> 67
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> GLEW-class Nanobody FW1 sequence

<400> 67

265

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly
Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Val Cys Val Ser Ser Gly Cys Thr
20 25 30

<210> 68
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> GLEW-class Nanobody FW1 sequence

<400> 68

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Ala Leu Pro Gly
Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Val Phe Ser Gly Ser Thr Phe Ser
20 25 30

<210> 69
<211> 22
<212> PRT
<213> Artificial Sequence

<220>
<223> GLEW-class Nanobody FW1 sequence

<400> 69

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

Ser Cys Ala Ala Ser Gly
20

<210> 70

<211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> GLEW-class Nanobody FW1 sequence

<400> 70

Glu Glu Ser Gly Gly Gly Leu Ala Gln Pro Gly Gly Ser Leu Arg
 Leu
 1 5 10 15

Ser Cys Val Ala Ser Gly
 20

<210> 71
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> GLEW-class Nanobody FW1 sequence

<400> 71

Val Glu Ser Gly Gly Gly Leu Ala Leu Pro Gly Gly Ser Leu Thr
 Leu
 1 5 10 15

Ser Cys Val Phe Ser Gly
 20

<210> 72
 <211> 14
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> GLEW-class Nanobody FW2 sequence

<400> 72

Trp Val Arg Gln Ala Pro Gly Lys Val Leu Glu Trp Val Ser
 1 5 10

<210> 73
 <211> 14
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> GLEW-class Nanobody FW2 sequence

<400> 73

Trp Val Arg Arg Pro Pro Gly Lys Gly Leu Glu Trp Val Ser
 1 5 10

<210> 74
 <211> 14
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> GLEW-class Nanobody FW2 sequence

<400> 74

Trp Val Arg Gln Ala Pro Gly Met Gly Leu Glu Trp Val Ser
 1 5 10

<210> 75
 <211> 14
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> GLEW-class Nanobody FW2 sequence

<400> 75

Trp Val Arg Gln Ala Pro Gly Lys Glu Pro Glu Trp Val Ser
 1 5 10

<210> 76
 <211> 14
 <212> PRT
 <213> Artificial Sequence

<220>

<223> GLEW-class Nanobody FW2 sequence

<400> 76

Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Asp	Gln	Glu	Trp	Val	Ser
1				5					10				

<210> 77

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> GLEW-class Nanobody FW2 sequence

<400> 77

Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Ala	Glu	Glu	Trp	Val	Ser
1				5					10				

<210> 78

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> GLEW-class Nanobody FW2 sequence

<400> 78

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

<210> 79

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> GLEW-class Nanobody FW2 sequence

<400> 79

Trp	Val	Arg	Gln	Ala	Pro	Gly	Arg	Ala	Thr	Glu	Trp	Val	Ser
1				5					10				

<210> 80
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> GLEW-class Nanobody FW3 sequence

<400> 80

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

Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Val
 Lys
 20 25 30

<210> 81
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> GLEW-class Nanobody FW3 sequence

<400> 81

Arg Phe Thr Ile Ser Arg Asp Asn Ala Arg Asn Thr Leu Tyr Leu
 Gln
 1 5 10 15

Met Asp Ser Leu Ile Pro Glu Asp Thr Ala Leu Tyr Tyr Cys Ala
 Arg
 20 25 30

<210> 82
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> GLEW-class Nanobody FW3 sequence

<400> 82

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

Met Asn Asp Leu Lys Pro Glu Asp Thr Ala Leu Tyr Tyr Cys Ala
 Arg
 20 25 30

<210> 83

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> GLEW-class Nanobody FW3 sequence

<400> 83

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

Met Asn Ser Leu Gly Pro Glu Asp Thr Ala Met Tyr Tyr Cys Gln
 Arg
 20 25 30

<210> 84

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> GLEW-class Nanobody FW3 sequence

<400> 84

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

271

Met Asn Ser Leu Lys Ser Glu Asp Thr Ala Arg Tyr Tyr Cys Ala
Arg

20

25

30

<210> 85

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> GLEW-class Nanobody FW3 sequence

<400> 85

Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Leu Tyr Leu
Gln

1

5

10

15

Met Asp Asp Leu Gln Ser Glu Asp Thr Ala Met Tyr Tyr Cys Gly
Arg

20

25

30

<210> 86

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> GLEW-class Nanobody FW4 sequence

<400> 86

Gly Ser Gln Gly Thr Gln Val Thr Val Ser Ser

1

5

10

<210> 87

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> GLEW-class Nanobody FW4 sequence

<400> 87

Leu Arg Gly Gly Thr Gln Val Thr Val Ser Ser
1 5 10

<210> 88
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> GLEW-class Nanobody FW4 sequence

<400> 88

Arg Gly Gln Gly Thr Leu Val Thr Val Ser Ser
1 5 10

<210> 89
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> GLEW-class Nanobody FW4 sequence

<400> 89

Arg Ser Arg Gly Ile Gln Val Thr Val Ser Ser
1 5 10

<210> 90
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> GLEW-class Nanobody FW4 sequence

<400> 90

Trp Gly Lys Gly Thr Gln Val Thr Val Ser Ser
1 5 10

<210> 91
<211> 11
<212> PRT

<213> Artificial Sequence

<220>

<223> GLEW-class Nanobody FW4 sequence

<400> 91

Trp	Gly	Gln	Gly	Thr	Gln	Val	Thr	Val	Ser	Ser
1				5					10	

<210> 92

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> P,R,S 103-class Nanobody FW1 sequence

<400> 92

Ala	Val	Gln	Leu	Val	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Ala	Gly
Gly														
1				5					10					15

Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Arg	Thr	Phe	Ser
			20					25					30

<210> 93

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> P,R,S 103-class Nanobody FW1 sequence

<400> 93

Gln	Val	Gln	Leu	Gln	Glu	Ser	Gly	Gly	Gly	Met	Val	Gln	Pro	Gly
Gly														
1				5					10					15

Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Asp	Phe	Gly
			20					25					30

<210> 94
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> P,R,S 103-class Nanobody FW1 sequence

<400> 94

Glu Val His Leu Val Glu Ser Gly Gly Gly Leu Val Arg Pro Gly
 Gly
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Phe Gly Phe Ile Phe Lys
 20 25 30

<210> 95
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> P,R,S 103-class Nanobody FW1 sequence

<400> 95

Gln Val Gln Leu Ala Glu Ser Gly Gly Gly Leu Val Gln Pro Gly
 Gly
 1 5 10 15

Ser Leu Lys Leu Ser Cys Ala Ala Ser Arg Thr Ile Val Ser
 20 25 30

<210> 96
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> P,R,S 103-class Nanobody FW1 sequence

<400> 96

275

Gln Glu His Leu Val Glu Ser Gly Gly Gly Leu Val Asp Ile Gly
Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Glu Arg Ile Phe Ser
20 25 30

<210> 97
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> P,R,S 103-class Nanobody FW1 sequence

<400> 97

Gln Val Lys Leu Glu Glu Ser Gly Gly Gly Leu Ala Gln Pro Gly
Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Val Ala Ser Gly Phe Thr Phe Ser
20 25 30

<210> 98
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> P,R,S 103-class Nanobody FW1 sequence

<400> 98

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly
Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Val Cys Val Ser Ser Gly Cys Thr
20 25 30

<210> 99
<211> 30

<212> PRT
 <213> Artificial Sequence

<220>
 <223> P,R,S 103-class Nanobody FW1 sequence

<400> 99

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Ala Leu Pro Gly
 Gly
 1 5 10 15

Ser Leu Thr Leu Ser Cys Val Phe Ser Gly Ser Thr Phe Ser
 20 25 30

<210> 100
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> P,R,S 103-class Nanobody FW1 sequence

<400> 100

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

Ser Cys Ala Ala Ser Gly
 20

<210> 101
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> P,R,S 103-class Nanobody FW1 sequence

<400> 101

Ala Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Lys
 Leu
 1 5 10 15

Ser Cys Ala Ala Ser Arg
20

<210> 102
<211> 14
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<213> Artificial Sequence

<220>
<223> P,R,S 103-class Nanobody FW2 sequence

<400> 102

Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val Ala
1 5 10

<210> 103
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> P,R,S 103-class Nanobody FW2 sequence

<400> 103

Trp Val Arg Gln Ala Pro Gly Lys Val Leu Glu Trp Val Ser
1 5 10

<210> 104
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> P,R,S 103-class Nanobody FW2 sequence

<400> 104

Trp Val Arg Arg Pro Pro Gly Lys Gly Leu Glu Trp Val Ser
1 5 10

<210> 105

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

<220>
 <223> P,R,S 103-class Nanobody FW2 sequence

<400> 105

Trp	Ile	Arg	Gln	Ala	Pro	Gly	Lys	Glu	Arg	Glu	Gly	Val	Ser
1				5					10				

<210> 106
 <211> 14
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> P,R,S 103-class Nanobody FW2 sequence

<400> 106

Trp	Val	Arg	Gln	Tyr	Pro	Gly	Lys	Glu	Pro	Glu	Trp	Val	Ser
1				5					10				

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

<220>
 <223> P,R,S 103-class Nanobody FW2 sequence

<400> 107

Trp	Phe	Arg	Gln	Pro	Pro	Gly	Lys	Glu	His	Glu	Phe	Val	Ala
1				5					10				

<210> 108
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 <212> PRT
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<220>
 <223> P,R,S 103-class Nanobody FW2 sequence

<400> 108

Trp	Tyr	Arg	Gln	Ala	Pro	Gly	Lys	Arg	Thr	Glu	Leu	Val	Ala
1				5					10				

<210> 109

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> P,R,S 103-class Nanobody FW2 sequence

<400> 109

Trp	Leu	Arg	Gln	Ala	Pro	Gly	Gln	Gly	Leu	Glu	Trp	Val	Ser
1				5					10				

<210> 110

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> P,R,S 103-class Nanobody FW2 sequence

<400> 110

Trp	Leu	Arg	Gln	Thr	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Val	Gly
1				5					10				

<210> 111

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> P,R,S 103-class Nanobody FW2 sequence

<400> 111

Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Ala	Glu	Glu	Phe	Val	Ser
1				5					10				

<210> 112

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

<220>
 <223> P,R,S 103-class Nanobody FW3 sequence

<400> 112

Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr Leu
 Gln
 1 5 10 15

Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Ala
 Ala
 20 25 30

<210> 113
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> P,R,S 103-class Nanobody FW3 sequence

<400> 113

Arg Phe Thr Ile Ser Arg Asp Asn Ala Arg Asn Thr Leu Tyr Leu
 Gln
 1 5 10 15

Met Asp Ser Leu Ile Pro Glu Asp Thr Ala Leu Tyr Tyr Cys Ala
 Arg
 20 25 30

<210> 114
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> P,R,S 103-class Nanobody FW3 sequence

<400> 114

281

Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Glu Met Tyr Leu
Gln

1 5 10 15

Met Asn Asn Leu Lys Thr Glu Asp Thr Gly Val Tyr Trp Cys Gly
Ala

20 25 30

<210> 115

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> P,R,S 103-class Nanobody FW3 sequence

<400> 115

Arg Phe Thr Ile Ser Ser Asp Ser Asn Arg Asn Met Ile Tyr Leu
Gln

1 5 10 15

Met Asn Asn Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Ala
Ala

20 25 30

<210> 116

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> P,R,S 103-class Nanobody FW3 sequence

<400> 116

Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Met Leu Tyr Leu
His

1 5 10 15

Leu Asn Asn Leu Lys Ser Glu Asp Thr Ala Val Tyr Tyr Cys Arg
Arg

20 25 30

<210> 117
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> P,R,S 103-class Nanobody FW3 sequence

<400> 117

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

Leu Asn Ser Leu Asn Pro Glu Asp Thr Ala Val Tyr Ser Cys Asn
 Leu
 20 25 30

<210> 118
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> P,R,S 103-class Nanobody FW3 sequence

<400> 118

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

Met Asn Ser Leu Gly Pro Glu Asp Thr Ala Met Tyr Tyr Cys Gln
 Arg
 20 25 30

<210> 119
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> P,R,S 103-class Nanobody FW3 sequence

<400> 119

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

Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Asp Tyr Tyr Cys Ala
Val
20 25 30

<210> 120

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> P,R,S 103-class Nanobody FW4 sequence

<400> 120

Arg Gly Gln Gly Thr Gln Val Thr Val Ser Ser
1 5 10

<210> 121

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> P,R,S 103-class Nanobody FW4 sequence

<400> 121

Leu Arg Gly Gly Thr Gln Val Thr Val Ser Ser
1 5 10

<210> 122

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> P,R,S 103-class Nanobody FW4 sequence

<400> 122

Gly Asn Lys Gly Thr Leu Val Thr Val Ser Ser
1 5 10

<210> 123

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> P,R,S 103-class Nanobody FW4 sequence

<400> 123

Ser Ser Pro Gly Thr Gln Val Thr Val Ser Ser
1 5 10

<210> 124

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> P,R,S 103-class Nanobody FW4 sequence

<400> 124

Ser Ser Gln Gly Thr Leu Val Thr Val Ser Ser
1 5 10

<210> 125

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> P,R,S 103-class Nanobody FW4 sequence

<400> 125

Arg Ser Arg Gly Ile Gln Val Thr Val Ser Ser
1 5 10

<210> 126

<211> 30

285

<212> PRT

<213> -

<400> 126

Glu	Val	Gln	Leu	Val	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly
Gly														
1				5					10					15

Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Thr	Phe	Ser	
			20					25					30	

<210> 127

<211> 30

<212> PRT

<213> -

<400> 127

Glu	Val	Gln	Leu	Val	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly
Gly														
1				5					10					15

Ser	Leu	Thr	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Thr	Phe	Ser	
			20					25					30	

<210> 128

<211> 30

<212> PRT

<213> -

<400> 128

Glu	Val	Gln	Leu	Val	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Ala	Gly
Gly														
1				5					10					15

Ser	Leu	Arg	Leu	Thr	Cys	Val	Val	Ser	Gly	Arg	Thr	Tyr	Asn	
			20					25					30	

<210> 129

<211> 30

<212> PRT

286

<213> -

<400> 129

Glu	Val	Gln	Leu	Val	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Ala	Gly
Gly														
1				5					10					15

Ser	Leu	Arg	Leu	Thr	Cys	Val	Val	Ser	Gly	Arg	Thr	Tyr	Asn	
			20					25					30	

<210> 130

<211> 30

<212> PRT

<213> -

<400> 130

Glu	Val	Gln	Leu	Val	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Ala	Gly
Gly														
1				5					10					15

Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Arg	Arg	Thr	Phe	Ser	
			20					25					30	

<210> 131

<211> 30

<212> PRT

<213> -

<400> 131

Glu	Val	Gln	Leu	Val	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Ala	Gly
Gly														
1				5					10					15

Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Arg	Arg	Thr	Phe	Ser	
			20					25					30	

<210> 132

<211> 30

<212> PRT

<213> -

<400> 132

Glu	Val	Gln	Leu	Val	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Ala	Gly
Gly														
1				5					10					15

Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Leu	Phe	Phe	Ser
			20					25					30

<210> 133

<211> 30

<212> PRT

<213> -

<400> 133

Glu	Val	Gln	Leu	Val	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Ala	Gly
Gly														
1				5					10					15

Ser	Leu	Arg	Leu	Asp	Cys	Ala	Ala	Ser	Gly	Arg	Thr	Ser	Tyr
			20					25					30

<210> 134

<211> 30

<212> PRT

<213> -

<400> 134

Glu	Val	Gln	Leu	Val	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Ala	Gly
Gly														
1				5					10					15

Ser	Leu	Arg	Leu	Asp	Cys	Ala	Ala	Ser	Gly	Arg	Thr	Ser	Tyr
			20					25					30

<210> 135

<211> 30

<212> PRT

<213> -

<400> 135

Lys	Val	Gln	Leu	Val	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Ala	Gly
Gly														
1				5					10					15

Ser	Leu	Arg	Leu	Asp	Cys	Ala	Ala	Ser	Gly	Arg	Thr	Ser	Tyr
			20					25					30

<210> 136

<211> 30

<212> PRT

<213> -

<400> 136

Lys	Val	Gln	Leu	Val	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Ala	Gly
Gly														
1				5					10					15

Ser	Leu	Arg	Leu	Asp	Cys	Ala	Ala	Ser	Gly	Arg	Thr	Ser	Tyr
			20					25					30

<210> 137

<211> 30

<212> PRT

<213> -

<400> 137

Glu	Val	Gln	Leu	Val	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Ala	Gly
Gly														
1				5					10					15

Ser	Leu	Arg	Leu	Asp	Cys	Ala	Ala	Ser	Gly	Arg	Thr	Ser	Tyr
			20					25					30

<210> 138

<211> 30

<212> PRT

<213> -

<400> 138

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Ala Gly
 Gly
 1 5 10 15

Ser Leu Arg Leu Asp Cys Ala Ala Ser Gly Arg Thr Ser Tyr
 20 25 30

<210> 139

<211> 30

<212> PRT

<213> -

<400> 139

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Ala Gly
 Gly
 1 5 10 15

Ser Leu Arg Leu Asp Cys Ala Ala Ser Gly Arg Thr Ser Tyr
 20 25 30

<210> 140

<211> 30

<212> PRT

<213> -

<400> 140

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Ala Gly
 Gly
 1 5 10 15

Ser Leu Arg Leu Asp Cys Ala Ala Ser Gly Arg Thr Ser Tyr
 20 25 30

<210> 141

<211> 30

<212> PRT

<213> -

<400> 141

290

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Ile Gly
Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Arg Thr Phe Ser
20 25 30

<210> 142

<211> 30

<212> PRT

<213> -

<400> 142

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Glu Ala Gly
Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Thr Ala Ser Gly Gly Thr Phe Ser
20 25 30

<210> 143

<211> 30

<212> PRT

<213> -

<400> 143

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly
Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Leu Asp
20 25 30

<210> 144

<211> 30

<212> PRT

<213> -

<400> 144

291

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly
Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Pro Gly Ser Ile Val Ser
20 25 30

<210> 145

<211> 30

<212> PRT

<213> -

<400> 145

Ala Ala Gln Pro Ala Met Ala Glu Val Gln Leu Val Glu Ser Gly
Gly
1 5 10 15

Ser Arg Arg Leu Ser Cys Ala Thr Ser Ala Ser Ile Thr Ser
20 25 30

<210> 146

<211> 30

<212> PRT

<213> -

<400> 146

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly
Gly
1 5 10 15

Ser Arg Arg Leu Ser Cys Ala Thr Ser Ala Ser Ile Thr Ser
20 25 30

<210> 147

<211> 30

<212> PRT

<213> -

<400> 147

292

Glu Val Gln Leu Val Glu Ser Gly Gly Ala Leu Val Gln Pro Gly
Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Ile Val Ser
20 25 30

<210> 148

<211> 30

<212> PRT

<213> -

<400> 148

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly
Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Ile Val Arg
20 25 30

<210> 149

<211> 30

<212> PRT

<213> -

<400> 149

Glu Val Gln Leu Val Glu Ser Gly Gly Ala Leu Val Gln Pro Gly
Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Arg
20 25 30

<210> 150

<211> 30

<212> PRT

<213> -

<400> 150

293

Glu	Val	Gln	Leu	Val	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly
Gly														
1			5					10					15	

Ser	Leu	Lys	Leu	Ser	Cys	Ala	Ala	Ala	Gly	Phe	Thr	Phe	Arg	
			20					25					30	

<210> 151
<211> 30
<212> PRT
<213> -

<400> 151

Glu	Val	Gln	Leu	Val	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly
Glu														
1			5					10					15	

Ser	Leu	Ser	Leu	Ser	Cys	Thr	Ala	Ser	Gly	Ser	Ala	Phe	Gly	
			20					25					30	

<210> 152
<211> 30
<212> PRT
<213> -

<400> 152

Glu	Val	Gln	Leu	Val	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Ala	Gly
Gly														
1			5					10					15	

Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Ser	Thr	Phe	Thr	
			20					25					30	

<210> 153
<211> 30
<212> PRT
<213> -

<400> 153

294

Gln Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly
Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Gly
20 25 30

<210> 154
<211> 30
<212> PRT
<213> -

<400> 154

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly
Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Gly
20 25 30

<210> 155
<211> 30
<212> PRT
<213> -

<400> 155

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly
Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Thr Ala Ser Thr Ser Ile Phe Ser
20 25 30

<210> 156
<211> 5
<212> PRT
<213> -

<400> 156

Ser Tyr Ala Met Ser

1 5

<210> 157
<211> 5
<212> PRT
<213> -

<400> 157

Ser Tyr Ala Met Ser
1 5

<210> 158
<211> 5
<212> PRT
<213> -

<400> 158

Asn Tyr Val Met Gly
1 5

<210> 159
<211> 5
<212> PRT
<213> -

<400> 159

Asn Tyr Val Met Gly
1 5

<210> 160
<211> 5
<212> PRT
<213> -

<400> 160

Ser Tyr Ala Met Gly
1 5

<210> 161
<211> 5

<212> PRT

<213> -

<400> 161

Ser Tyr Ala Met Gly
1 5

<210> 162

<211> 5

<212> PRT

<213> -

<400> 162

Phe Tyr Asn Met Gly
1 5

<210> 163

<211> 3

<212> PRT

<213> -

<400> 163

Ala Met Gly
1

<210> 164

<211> 3

<212> PRT

<213> -

<400> 164

Ala Met Gly
1

<210> 165

<211> 3

<212> PRT

<213> -

<400> 165

Ala Met Gly
1

<210> 166
<211> 3
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<213> -

<400> 166

Ala Met Gly
1

<210> 167
<211> 3
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Ala Met Gly
1

<210> 168
<211> 3
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<213> -

<400> 168

Ala Met Gly
1

<210> 169
<211> 3
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<213> -

<400> 169

Ala Met Gly
1

<210> 170

<211> 3
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<213> -

<400> 170

Ala Met Gly
1

<210> 171
<211> 5
<212> PRT
<213> -

<400> 171

Ser Tyr Ala Met Gly
1 5

<210> 172
<211> 5
<212> PRT
<213> -

<400> 172

Thr Tyr Ala Met Gly
1 5

<210> 173
<211> 5
<212> PRT
<213> -

<400> 173

Tyr Tyr Tyr Ile Gly
1 5

<210> 174
<211> 5
<212> PRT
<213> -

<400> 174

Ile Asn Asn Met Gly
1 5

<210> 175
<211> 5
<212> PRT
<213> -

<400> 175

Ile Ser Phe Met Gly
1 5

<210> 176
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<400> 176

Ile Ser Phe Met Gly
1 5

<210> 177
<211> 5
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<213> -

<400> 177

Ile Asp Phe Met Gly
1 5

<210> 178
<211> 5
<212> PRT
<213> -

<400> 178

Val Asp Phe Met Gly
1 5

300

<210> 179
<211> 5
<212> PRT
<213> -

<400> 179

Asn Tyr Asp Met Ser
1 5

<210> 180
<211> 5
<212> PRT
<213> -

<400> 180

Pro Tyr Ala Met Gly
1 5

<210> 181
<211> 5
<212> PRT
<213> -

<400> 181

Ile Asn Ser Met Gly
1 5

<210> 182
<211> 10
<212> PRT
<213> -

<400> 182

Glu Thr Pro Phe Thr Met His Ala Leu Ser
1 5 10

<210> 183
<211> 5
<212> PRT
<213> -

<400> 183

Ser Tyr Asp Met Ser
1 5

<210> 184

<211> 5

<212> PRT

<213> -

<400> 184

Ser Tyr Asp Met Ser
1 5

<210> 185

<211> 5

<212> PRT

<213> -

<400> 185

Leu Tyr Asp Met Gly
1 5

<210> 186

<211> 14

<212> PRT

<213> -

<400> 186

Trp Val Arg Gln Ala Pro Gly Lys Glu Leu Glu Trp Val Ser
1 5 10

<210> 187

<211> 14

<212> PRT

<213> -

<400> 187

Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Leu Val Ser
1 5 10

<210> 188
 <211> 14
 <212> PRT
 <213> -

<400> 188

Trp	Phe	Arg	Gln	Ala	Pro	Gly	Lys	Glu	Arg	Glu	Phe	Val	Ala
1				5					10				

<210> 189
 <211> 14
 <212> PRT
 <213> -

<400> 189

Trp	Phe	Arg	Gln	Ala	Pro	Gly	Lys	Glu	Arg	Glu	Phe	Val	Ala
1				5					10				

<210> 190
 <211> 14
 <212> PRT
 <213> -

<400> 190

Trp	Phe	Arg	Gln	Ala	Pro	Gly	Lys	Glu	Arg	Glu	Ile	Val	Ala
1				5					10				

<210> 191
 <211> 14
 <212> PRT
 <213> -

<400> 191

Trp	Phe	Arg	Gln	Ala	Pro	Gly	Lys	Glu	Arg	Glu	Val	Val	Ala
1				5					10				

<210> 192
 <211> 14
 <212> PRT
 <213> -

<400> 192

Trp	Phe	Arg	Gln	Ala	Pro	Gly	Lys	Glu	Arg	Glu	Phe	Val	Ala
1				5					10				

<210> 193

<211> 14

<212> PRT

<213> -

<400> 193

Trp	Phe	Arg	Gln	Gly	Thr	Gly	Lys	Glu	Arg	Glu	Phe	Val	Ala
1				5					10				

<210> 194

<211> 14

<212> PRT

<213> -

<400> 194

Trp	Phe	Arg	Gln	Gly	Thr	Gly	Gln	Glu	Arg	Glu	Phe	Val	Ala
1				5					10				

<210> 195

<211> 14

<212> PRT

<213> -

<400> 195

Trp	Phe	Arg	Gln	Gly	Thr	Gly	Lys	Glu	Arg	Glu	Phe	Val	Ala
1				5					10				

<210> 196

<211> 14

<212> PRT

<213> -

<400> 196

Trp	Phe	Arg	Gln	Gly	Thr	Gly	Lys	Glu	Arg	Glu	Phe	Val	Ser
1				5					10				

<210> 197
 <211> 14
 <212> PRT
 <213> -

<400> 197

Trp	Phe	Arg	Gln	Gly	Thr	Gly	Lys	Glu	Arg	Glu	Phe	Val	Ala
1				5					10				

<210> 198
 <211> 14
 <212> PRT
 <213> -

<400> 198

Trp	Phe	Arg	Gln	Gly	Thr	Gly	Lys	Glu	Arg	Glu	Phe	Val	Ala
1				5					10				

<210> 199
 <211> 14
 <212> PRT
 <213> -

<400> 199

Trp	Phe	Arg	Gln	Gly	Thr	Gly	Lys	Glu	Arg	Glu	Phe	Val	Ala
1				5					10				

<210> 200
 <211> 14
 <212> PRT
 <213> -

<400> 200

Trp	Phe	Arg	Gln	Gly	Thr	Gly	Lys	Glu	Arg	Glu	Phe	Val	Ala
1				5					10				

<210> 201
 <211> 14
 <212> PRT

305

<213> -

<400> 201

Trp	Phe	Arg	Gln	Thr	Pro	Gly	Lys	Glu	Arg	Glu	Phe	Val	Ala
1				5					10				

<210> 202

<211> 14

<212> PRT

<213> -

<400> 202

Trp	Phe	Arg	Gln	Ala	Pro	Gly	Lys	Glu	Arg	Glu	Phe	Ala	Ala
1				5					10				

<210> 203

<211> 14

<212> PRT

<213> -

<400> 203

Trp	Phe	Arg	Gln	Ala	Pro	Gly	Lys	Glu	Arg	Glu	Gly	Val	Ser
1				5					10				

<210> 204

<211> 14

<212> PRT

<213> -

<400> 204

Trp	Tyr	Arg	Gln	Ala	Pro	Gly	Lys	Gln	Arg	Glu	Leu	Val	Ala
1				5					10				

<210> 205

<211> 14

<212> PRT

<213> -

<400> 205

Trp	Tyr	Arg	Gln	Val	Pro	Gly	Lys	Gln	Arg	Glu	Leu	Val	Ala
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

306

1 5 10

<210> 206
<211> 14
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<400> 206

Trp Tyr Arg Gln Ala Pro Gly Lys Gln Arg Glu Leu Val Ala
1 5 10

<210> 207
<211> 14
<212> PRT
<213> -

<400> 207

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

<210> 208
<211> 14
<212> PRT
<213> -

<400> 208

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

<210> 209
<211> 14
<212> PRT
<213> -

<400> 209

Trp Val Arg Gln Ala Pro Gly Lys Gly Pro Glu Trp Val Ser
1 5 10

<210> 210
<211> 14

<212> PRT

<213> -

<400> 210

Trp	Phe	Arg	Gln	Ala	Pro	Gly	Lys	Glu	Arg	Glu	Phe	Val	Ala
1				5					10				

<210> 211

<211> 14

<212> PRT

<213> -

<400> 211

Trp	Tyr	Arg	Gln	Ala	Pro	Gly	Lys	Glu	Arg	Glu	Leu	Val	Ala
1				5					10				

<210> 212

<211> 14

<212> PRT

<213> -

<400> 212

Trp	Tyr	Arg	Gln	Ser	Glu	Gly	Lys	Glu	Arg	Glu	Leu	Val	Ala
1				5					10				

<210> 213

<211> 14

<212> PRT

<213> -

<400> 213

Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Pro	Glu	Trp	Val	Ser
1				5					10				

<210> 214

<211> 14

<212> PRT

<213> -

<400> 214

308

Trp Val Arg Gln Ala Pro Gly Lys Gly Pro Glu Trp Val Ser
1 5 10

<210> 215
<211> 14
<212> PRT
<213> -

<400> 215

Trp Tyr Arg Gln Ala Pro Gly Lys Glu Arg Glu Leu Val Ala
1 5 10

<210> 216
<211> 17
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<213> -

<400> 216

Gly Ile Asn Ser Gly Gly Asp Arg Thr Val Asn Ala Asp Ser Val
Lys
1 5 10 15

Gly

<210> 217
<211> 17
<212> PRT
<213> -

<400> 217

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

Gly

<210> 218
<211> 20

309

<212> PRT

<213> -

<400> 218

Gly Ile Asp Trp Ser Ser Ser Trp Thr Ser Thr Thr Leu Tyr Ala
Asp

1 5 10 15

Ser Val Lys Gly

20

<210> 219

<211> 19

<212> PRT

<213> -

<400> 219

Gly Ile Asp Trp Ser Ser Ser Trp Ser Ser Thr Leu Tyr Ala Asp
Ser

1 5 10 15

Val Lys Gly

<210> 220

<211> 17

<212> PRT

<213> -

<400> 220

Asp Ile Ser Trp Asn Gly Ser Arg Thr Tyr Tyr Ala Asp Ser Ala
Lys

1 5 10 15

Gly

<210> 221

<211> 17

<212> PRT

310

<213> -

<400> 221

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

Gly

<210> 222

<211> 17

<212> PRT

<213> -

<400> 222

Ile Ile Arg Lys Thr Gly Gly Ser Thr Tyr Tyr Ala Asp Ser Val
Lys
1 5 10 15

Gly

<210> 223

<211> 17

<212> PRT

<213> -

<400> 223

Ala Ile Ser Pro Ser Gly Tyr Tyr Thr Tyr Tyr Glu Asp Ser Val
Lys
1 5 10 15

Gly

<210> 224

<211> 17

<212> PRT

<213> -

<400> 224

Ala Ile Ser Pro Ser Gly Tyr Tyr Thr Tyr Tyr Glu Asp Ser Val
Lys
1 5 10 15

Gly

<210> 225

<211> 17

<212> PRT

<213> -

<400> 225

Ala Ile Ser Pro Ser Gly Tyr Tyr Thr Tyr Tyr Glu Asp Ser Val
Lys
1 5 10 15

Gly

<210> 226

<211> 17

<212> PRT

<213> -

<400> 226

Ala Ile Ser Pro Ser Gly Tyr Tyr Thr Tyr Tyr Glu Asp Ser Val
Lys
1 5 10 15

Gly

<210> 227

<211> 17

<212> PRT

<213> -

<400> 227

Ala Ile Ser Pro Ser Gly Tyr Tyr Thr Tyr Tyr Glu Asp Ser Val
Lys
1 5 10 15

Gly

<210> 228

<211> 17

<212> PRT

<213> -

<400> 228

Ala Ile Ser Pro Ser Gly Tyr Tyr Thr Tyr Tyr Glu Asp Ser Val
Lys
1 5 10 15

Gly

<210> 229

<211> 17

<212> PRT

<213> -

<400> 229

Ala Ile Ser Pro Ser Gly Tyr Tyr Thr Tyr Tyr Glu Asp Ser Val
Lys
1 5 10 15

Gly

<210> 230

<211> 17

<212> PRT

<213> -

<400> 230

Ala Leu Ser Pro Ser Gly Tyr Tyr Thr Tyr Tyr Glu Asp Ser Val

Lys

1 5 10 15

Gly

<210> 231

<211> 17

<212> PRT

<213> -

<400> 231

Ala Ile Gly Arg Asn Gly Gly Ser Ile Gly Tyr Ala Asp Ser Val

Lys

1 5 10 15

Gly

<210> 232

<211> 17

<212> PRT

<213> -

<400> 232

Ala Ile Ser Arg Asn Gly Gly Ser Lys Gly Tyr Lys Glu Ser Val

Lys

1 5 10 15

Gly

<210> 233

<211> 17

<212> PRT

<213> -

<400> 233

314

Cys Ile Ser Ser Ser Asp Gly Ser Thr Tyr Tyr Ala Asp Ser Val
Lys
1 5 10 15

Gly

<210> 234
<211> 16
<212> PRT
<213> -

<400> 234

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

<210> 235
<211> 16
<212> PRT
<213> -

<400> 235

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

<210> 236
<211> 16
<212> PRT
<213> -

<400> 236

Phe Ile Pro Ser Ser Gly Val Pro Asn Tyr Val Gly Phe Ala Glu
Gly
1 5 10 15

<210> 237
<211> 16
<212> PRT
<213> -

<400> 237

Phe Ile Thr Ser Gly Gly Ser Pro Asn Tyr Val Asp Ser Val Glu
 Gly
 1 5 10 15

<210> 238

<211> 16

<212> PRT

<213> -

<400> 238

Phe Ile Thr Ser Gly Gly Ser Pro Asn Tyr Val Asp Ser Val Thr
 Gly
 1 5 10 15

<210> 239

<211> 17

<212> PRT

<213> -

<400> 239

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

Gly

<210> 240

<211> 17

<212> PRT

<213> -

<400> 240

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

Gly

<210> 241
 <211> 16
 <212> PRT
 <213> -

<400> 241

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

<210> 242
 <211> 16
 <212> PRT
 <213> -

<400> 242

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

<210> 243
 <211> 17
 <212> PRT
 <213> -

<400> 243

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

Gly

<210> 244
 <211> 17
 <212> PRT
 <213> -

<400> 244

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

Gly

<210> 245
 <211> 16
 <212> PRT
 <213> -

<400> 245

Arg Ile Thr Ser Gly Arg Ser Ile Asn Tyr Ala Asp Ser Val Lys
 Gly
 1 5 10 15

<210> 246
 <211> 32
 <212> PRT
 <213> -

<400> 246

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

Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Leu Tyr Tyr Cys Ala
 Lys
 20 25 30

<210> 247
 <211> 32
 <212> PRT
 <213> -

<400> 247

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

Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Lys
 Thr
 20 25 30

<210> 248
 <211> 32
 <212> PRT
 <213> -

<400> 248

Arg Phe Thr Ile Ser Arg Asn Asn Ala Lys Lys Thr Val Ser Leu
 Gln
 1 5 10 15

Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Ala
 Ala
 20 25 30

<210> 249
 <211> 32
 <212> PRT
 <213> -

<400> 249

Arg Phe Thr Ile Ser Arg Asn Asn Ala Lys Lys Thr Val Ser Leu
 Gln
 1 5 10 15

Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Ala
 Ala
 20 25 30

<210> 250
 <211> 32
 <212> PRT
 <213> -

<400> 250

319

Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr Leu
Gln
1 5 10 15

Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Ala
Ala
20 25 30

<210> 251

<211> 32

<212> PRT

<213> -

<400> 251

Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr Leu
Gln
1 5 10 15

Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Ala
Ala
20 25 30

<210> 252

<211> 32

<212> PRT

<213> -

<400> 252

Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr Leu
Gln
1 5 10 15

Met Asp Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Ala
Ala
20 25 30

<210> 253

<211> 32

<212> PRT

<213> -

320

<400> 253

Arg Phe Ser Ile His Arg Asp Asn Ala Lys Asn Met Val Tyr Leu
Gln
1 5 10 15

Met Asn Ser Leu Thr Pro Glu Asp Thr Ala Val Tyr Tyr Cys Ala
Ala
20 25 30

<210> 254

<211> 32

<212> PRT

<213> -

<400> 254

Arg Phe Asn Ile His Arg Asp Asn Thr Lys Asn Met Val Tyr Leu
Gln
1 5 10 15

Met Asn Ser Leu Thr Pro Glu Asp Thr Ala Val Tyr Tyr Cys Ala
Ala
20 25 30

<210> 255

<211> 32

<212> PRT

<213> -

<400> 255

Arg Phe Phe Ile His Arg Asp Asn Ala Lys Asn Met Val Tyr Leu
Gln
1 5 10 15

Met Asn Ser Leu Thr Pro Glu Asp Thr Ala Val Tyr Tyr Cys Ala
Ala
20 25 30

<210> 256

<211> 32

<212> PRT

321

<213> -

<400> 256

Arg	Phe	Ser	Ile	His	Arg	Asp	Asn	Ala	Lys	Asn	Met	Val	Tyr	Leu
Gln														
1				5					10					15

Met	Asn	Ser	Leu	Thr	Pro	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys	Ala
Ala														
			20					25					30	

<210> 257

<211> 32

<212> PRT

<213> -

<400> 257

Arg	Phe	Phe	Met	His	Arg	Asp	Asn	Ala	Lys	Asn	Met	Val	Tyr	Leu
Gln														
1				5					10					15

Met	Asn	Ser	Leu	Thr	Pro	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys	Ala
Ala														
			20					25					30	

<210> 258

<211> 32

<212> PRT

<213> -

<400> 258

Arg	Phe	Phe	Ile	His	Arg	Asp	Asn	Ala	Lys	Asn	Met	Val	Tyr	Leu
Gln														
1				5					10					15

Met	Asn	Ser	Leu	Thr	Pro	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys	Ala
Ala														
			20					25					30	

<210> 259

322

<211> 32
<212> PRT
<213> -

<400> 259

Arg Phe Phe Ile His Arg Asp Asn Ala Lys Asn Met Val Tyr Leu
Gln
1 5 10 15

Met Asn Ser Leu Thr Pro Glu Asp Thr Ala Val Tyr Tyr Cys Ala
Ala
20 25 30

<210> 260
<211> 32
<212> PRT
<213> -

<400> 260

Arg Phe Ser Ile His Arg Asp Asn Ala Lys Asn Met Val Tyr Leu
Gln
1 5 10 15

Met Asn Ser Leu Thr Pro Glu Asp Thr Ala Val Tyr Tyr Cys Ala
Ala
20 25 30

<210> 261
<211> 32
<212> PRT
<213> -

<400> 261

Arg Ser Thr Ile Ser Arg Asp Asn Ala Lys Asn Met Val Tyr Leu
Gln
1 5 10 15

Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Ala
Ala
20 25 30

<210> 262
 <211> 32
 <212> PRT
 <213> -

<400> 262

Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr Leu
 Gln
 1 5 10 15

Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Ala
 Ala
 20 25 30

<210> 263
 <211> 32
 <212> PRT
 <213> -

<400> 263

Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr Leu
 Gln
 1 5 10 15

Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Ala
 Ala
 20 25 30

<210> 264
 <211> 32
 <212> PRT
 <213> -

<400> 264

Arg Phe Thr Ile Ser Gly Asp Asn Ala Lys Lys Met Val Tyr Leu
 Gln
 1 5 10 15

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

324

20

25

30

<210> 265

<211> 32

<212> PRT

<213> -

<400> 265

Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr Leu
Gln
1 5 10 15

Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
Leu
20 25 30

<210> 266

<211> 32

<212> PRT

<213> -

<400> 266

Arg Phe Thr Ile Ser Arg Asp Asp Ala Lys Asn Thr Val Tyr Leu
Gln
1 5 10 15

Met Asn Gly Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
Leu
20 25 30

<210> 267

<211> 32

<212> PRT

<213> -

<400> 267

Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Met Tyr Leu
Gln
1 5 10 15

325

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

20

25

30

<210> 268

<211> 32

<212> PRT

<213> -

<400> 268

Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Met Tyr Leu
Gln

1

5

10

15

Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Tyr
Ile

20

25

30

<210> 269

<211> 32

<212> PRT

<213> -

<400> 269

Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Leu Tyr Leu
Gln

1

5

10

15

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

20

25

30

<210> 270

<211> 32

<212> PRT

<213> -

<400> 270

Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr Leu
Gln

1

5

10

15

Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Val Tyr Tyr Cys Asn
 Thr
 20 25 30

<210> 271
 <211> 32
 <212> PRT
 <213> -

<400> 271

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

Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Phe Cys His
 Cys
 20 25 30

<210> 272
 <211> 32
 <212> PRT
 <213> -

<400> 272

Arg Phe Thr Ile Ser Arg Asp Asn Gly Lys Lys Ala Val Tyr Leu
 Gln
 1 5 10 15

Met Asn Ser Leu Lys Ala Glu Asp Thr Ala Val Tyr Tyr Cys Asn
 Val
 20 25 30

<210> 273
 <211> 32
 <212> PRT
 <213> -

<400> 273

327

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

Met Asn Ser Leu Lys Pro Asp Asp Thr Ala Val Tyr Tyr Cys Ala
Thr
20 25 30

<210> 274

<211> 32

<212> PRT

<213> -

<400> 274

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

Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Ala
Thr
20 25 30

<210> 275

<211> 32

<212> PRT

<213> -

<400> 275

Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr Leu
Gln
1 5 10 15

Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Ala Tyr Tyr Cys Asn
Ala
20 25 30

<210> 276

<211> 10

<212> PRT

<213> -

<400> 276

Ser	Ile	Pro	Pro	Thr	Asp	Asp	Arg	Asn	Tyr
1				5					10

<210> 277

<211> 10

<212> PRT

<213> -

<400> 277

Asp	Thr	Leu	Val	Ala	Gly	Thr	Asp	Asp	Tyr
1				5					10

<210> 278

<211> 18

<212> PRT

<213> -

<400> 278

Asn	Leu	Gly	Ser	Lys	Asn	Pro	Ser	Leu	Arg	Pro	Gly	Arg	Glu	Thr
Tyr														
1				5					10				15	

Asn Tyr

<210> 279

<211> 18

<212> PRT

<213> -

<400> 279

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

Asn Tyr

<210> 280
 <211> 17
 <212> PRT
 <213> -

<400> 280

Ala Leu Phe Gly Gly Leu Gly Arg Ala Pro Ser Thr His Glu Tyr
 Ala

1 5 10 15

Tyr

<210> 281
 <211> 17
 <212> PRT
 <213> -

<400> 281

Ala Leu Phe Gly Gly Leu Gly Arg Ala Pro Ser Thr His Glu Tyr
 Ala

1 5 10 15

Tyr

<210> 282
 <211> 19
 <212> PRT
 <213> -

<400> 282

Ala Ser Ser Tyr Tyr Ser Asp Ser Tyr Tyr Tyr Thr Arg Ser Asp
 Lys

1 5 10 15

Tyr Asn Tyr

<210> 283

330

<211> 13
<212> PRT
<213> -

<400> 283

Gly	Arg	His	Gln	Thr	Val	Ser	Gly	Ile	Leu	Pro	Asp	Tyr
1				5					10			

<210> 284
<211> 13
<212> PRT
<213> -

<400> 284

Gly	Arg	His	Lys	Thr	Val	Ser	Gly	Ile	Leu	Pro	Asp	Tyr
1				5					10			

<210> 285
<211> 13
<212> PRT
<213> -

<400> 285

Gly	Arg	His	Lys	Thr	Val	Ser	Gly	Ile	Leu	Pro	Asp	Tyr
1				5					10			

<210> 286
<211> 13
<212> PRT
<213> -

<400> 286

Gly	Arg	His	Gln	Thr	Val	Ser	Gly	Ile	Leu	Pro	Asp	Tyr
1				5					10			

<210> 287
<211> 13
<212> PRT
<213> -

<400> 287

Gly	Arg	His	Asn	Thr	Val	Ser	Gly	Ile	Leu	Pro	Asp	Tyr
1				5					10			

<210> 288

<211> 13

<212> PRT

<213> -

<400> 288

Gly	Arg	His	Lys	Thr	Val	Ser	Gly	Ile	Leu	Pro	Asp	Tyr
1				5					10			

<210> 289

<211> 13

<212> PRT

<213> -

<400> 289

Gly	Arg	His	Gln	Thr	Val	Ser	Gly	Ile	Leu	Pro	Asp	Tyr
1				5					10			

<210> 290

<211> 13

<212> PRT

<213> -

<400> 290

Gly	Arg	His	Glu	Thr	Ala	Ser	Gly	Ile	Leu	Pro	Asn	Tyr
1				5					10			

<210> 291

<211> 15

<212> PRT

<213> -

<400> 291

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

332

<210> 292
<211> 15
<212> PRT
<213> -

<400> 292

Ser	Arg	Thr	Tyr	Thr	Tyr	Ser	Thr	Ala	Met	Lys	Asp	Tyr	Asn	Tyr
1				5					10					15

<210> 293
<211> 16
<212> PRT
<213> -

<400> 293

Asp	Arg	Asp	Thr	Thr	Gly	Trp	Gly	Cys	Gly	Leu	Tyr	Glu	Tyr	Asp
Tyr														
1				5					10					15

<210> 294
<211> 12
<212> PRT
<213> -

<400> 294

Val	Phe	Thr	Thr	Asp	Thr	Arg	Asn	Trp	Tyr	Asp	Tyr
1				5					10		

<210> 295
<211> 8
<212> PRT
<213> -

<400> 295

Gln	Pro	Leu	Gly	Gly	Ser	Gly	Ser
1				5			

<210> 296
<211> 8
<212> PRT
<213> -

<400> 296

Gln Pro Leu Gly Gly Ser Gly Ser
1 5

<210> 297

<211> 7

<212> PRT

<213> -

<400> 297

Gln Ser Gly Thr Ala Gly Ser
1 5

<210> 298

<211> 7

<212> PRT

<213> -

<400> 298

Gln Ser Gly Thr Ala Gly Ser
1 5

<210> 299

<211> 15

<212> PRT

<213> -

<400> 299

Gly Leu Ile Thr Thr Ala Gln Ala Met Leu Glu Glu Tyr Asp Tyr
1 5 10 15

<210> 300

<211> 10

<212> PRT

<213> -

<400> 300

Lys Leu Tyr Ser Gly Ile Phe Arg Glu Tyr
1 5 10

<210> 301
 <211> 14
 <212> PRT
 <213> -

<400> 301

Glu	Ala	Ile	Arg	Glu	Pro	Gly	Asp	Tyr	Tyr	Gly	Trp	His	Tyr
1				5					10				

<210> 302
 <211> 12
 <212> PRT
 <213> -

<400> 302

Gly	Ser	Trp	Phe	Gln	Gly	Tyr	Tyr	Ala	Met	Asp	Tyr
1				5					10		

<210> 303
 <211> 15
 <212> PRT
 <213> -

<400> 303

Gly	Arg	Pro	Leu	Trp	Asp	Tyr	Ser	Asp	Tyr	Ala	Asp	Phe	Gly	Ser
1				5					10					15

<210> 304
 <211> 15
 <212> PRT
 <213> -

<400> 304

Gly	Arg	Pro	Leu	Trp	Asp	Tyr	Ser	Asp	Tyr	Ala	Asp	Phe	Gly	Ser
1				5					10					15

<210> 305
 <211> 11
 <212> PRT

<213> -

<400> 305

Asn	His	His	Asp	Trp	Gly	Thr	Asn	Trp	Asp	Phe
1				5					10	

<210> 306

<211> 11

<212> PRT

<213> -

<400> 306

Trp	Gly	Gln	Gly	Thr	Gln	Val	Thr	Val	Ser	Ser
1				5					10	

<210> 307

<211> 11

<212> PRT

<213> -

<400> 307

Trp	Gly	Gln	Gly	Thr	Arg	Val	Thr	Val	Ser	Ser
1				5					10	

<210> 308

<211> 11

<212> PRT

<213> -

<400> 308

Trp	Gly	Gln	Gly	Ala	Gln	Val	Thr	Val	Ser	Ser
1				5					10	

<210> 309

<211> 11

<212> PRT

<213> -

<400> 309

Trp	Gly	Gln	Gly	Thr	Gln	Val	Thr	Val	Ser	Ser
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

$\langle 400 \rangle$ 310

$\langle 210 \rangle$	311
$\langle 211 \rangle$	11
$\langle 212 \rangle$	PRT
$\langle 213 \rangle$	-

<400> 311

$\langle 210 \rangle$	312
$\langle 211 \rangle$	11
$\langle 212 \rangle$	PRT
$\langle 213 \rangle$	-

 $\langle 400 \rangle$ 312

$\langle 210 \rangle$	313
$\langle 211 \rangle$	11
$\langle 212 \rangle$	PRT
$\langle 213 \rangle$	-

<400> 313

$\langle 210 \rangle$	314
$\langle 211 \rangle$	11

337

<212> PRT

<213> -

<400> 314

Trp	Gly	Gln	Gly	Ile	Gln	Val	Thr	Val	Ser	Ser
1				5					10	

<210> 315

<211> 11

<212> PRT

<213> -

<400> 315

Trp	Gly	Gln	Gly	Ile	Gln	Val	Thr	Val	Ser	Ser
1				5					10	

<210> 316

<211> 11

<212> PRT

<213> -

<400> 316

Trp	Gly	Gln	Gly	Ile	Gln	Val	Thr	Val	Ser	Ser
1				5					10	

<210> 317

<211> 11

<212> PRT

<213> -

<400> 317

Trp	Gly	Arg	Gly	Ile	Gln	Val	Thr	Val	Ser	Ser
1				5					10	

<210> 318

<211> 11

<212> PRT

<213> -

<400> 318

338

Trp	Gly	Gln	Gly	Ile	Gln	Val	Thr	Val	Ser	Ser
1				5					10	

<210> 319
<211> 11
<212> PRT
<213> -

<400> 319

Trp	Gly	Gln	Gly	Ile	Gln	Val	Thr	Val	Ser	Ser
1				5					10	

<210> 320
<211> 11
<212> PRT
<213> -

<400> 320

Trp	Gly	Gln	Gly	Ile	Gln	Val	Thr	Val	Ser	Ser
1				5					10	

<210> 321
<211> 11
<212> PRT
<213> -

<400> 321

Trp	Gly	Gln	Gly	Thr	Gln	Val	Thr	Val	Ser	Ser
1				5					10	

<210> 322
<211> 11
<212> PRT
<213> -

<400> 322

Trp	Gly	Gln	Gly	Thr	Gln	Val	Thr	Val	Ser	Ser
1				5					10	

<210> 323

<211> 11
 <212> PRT
 <213> -

<400> 323

Trp	Gly	Gln	Gly	Thr	Gln	Val	Thr	Val	Ser	Ser
1				5					10	

<210> 324
 <211> 11
 <212> PRT
 <213> -

<400> 324

Trp	Gly	Gln	Gly	Thr	Gln	Val	Thr	Val	Ser	Ser
1				5					10	

<210> 325
 <211> 11
 <212> PRT
 <213> -

<400> 325

Trp	Gly	Gln	Gly	Thr	Gln	Val	Thr	Val	Ser	Ser
1				5					10	

<210> 326
 <211> 11
 <212> PRT
 <213> -

<400> 326

Trp	Gly	Gln	Gly	Thr	Gln	Val	Thr	Val	Ser	Ser
1				5					10	

<210> 327
 <211> 11
 <212> PRT
 <213> -

<400> 327

Trp	Gly	Gln	Gly	Thr	Gln	Val	Thr	Val	Ser	Ser
1				5					10	

<210> 328

<211> 11

<212> PRT

<213> -

<400> 328

Trp	Gly	Gln	Gly	Thr	Gln	Val	Thr	Val	Ser	Ser
1				5					10	

<210> 329

<211> 11

<212> PRT

<213> -

<400> 329

Trp	Gly	Gln	Gly	Thr	Gln	Val	Thr	Val	Ser	Ser
1				5					10	

<210> 330

<211> 11

<212> PRT

<213> -

<400> 330

Trp	Gly	Gln	Gly	Thr	Gln	Val	Thr	Val	Ser	Ser
1				5					10	

<210> 331

<211> 11

<212> PRT

<213> -

<400> 331

Trp	Gly	Lys	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser
1				5					10	

341

<210> 332
<211> 11
<212> PRT
<213> -

<400> 332

Trp	Gly	Glu	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser
1				5					10	

<210> 333
<211> 11
<212> PRT
<213> -

<400> 333

Trp	Gly	Gln	Gly	Thr	Gln	Val	Thr	Val	Ser	Ser
1				5					10	

<210> 334
<211> 11
<212> PRT
<213> -

<400> 334

Trp	Gly	Gln	Gly	Thr	Gln	Val	Thr	Val	Ser	Ser
1				5					10	

<210> 335
<211> 11
<212> PRT
<213> -

<400> 335

Trp	Gly	Gln	Gly	Thr	Gln	Val	Thr	Val	Ser	Ser
1				5					10	

<210> 336
<211> 119
<212> PRT
<213> -

342

<400> 336

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly
Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser
Tyr
20 25 30

Ala Met Ser Trp Val Arg Gln Ala Pro Gly Lys Glu Leu Glu Trp
Val
35 40 45

Ser Gly Ile Asn Ser Gly Gly Asp Arg Thr Val Asn Ala Asp Ser
Val
50 55 60

Lys Gly Arg Phe Thr Val Ser Arg Asp Asn Ala Lys Asn Thr Leu
Tyr
65 70 75
80

Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Leu Tyr Tyr
Cys
85 90 95

Ala Lys Ser Ile Pro Pro Thr Asp Asp Arg Asn Tyr Trp Gly Gln
Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 337

<211> 119

<212> PRT

<213> -

<400> 337

343

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly
Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser
Tyr
20 25 30

Ala Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Leu
Val
35 40 45

Ser Asp Ile Asn Ser Gly Gly Ile Ser Thr Tyr Tyr Ala Asp Ser
Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Leu
Tyr
65 70 75
80

Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr
Cys
85 90 95

Lys Thr Asp Thr Leu Val Ala Gly Thr Asp Asp Tyr Trp Gly Gln
Gly
100 105 110

Thr Arg Val Thr Val Ser Ser
115

<210> 338
<211> 130
<212> PRT
<213> -

<400> 338

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Ala Gly
Gly

[illegible]

345

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Ala Gly
Gly
1 5 10 15

Ser Leu Arg Leu Thr Cys Val Val Ser Gly Arg Thr Tyr Asn Asn
Tyr
20 25 30

Val Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe
Val
35 40 45

Ala Gly Ile Asp Trp Ser Ser Ser Trp Ser Ser Thr Leu Tyr Ala
Asp
50 55 60

Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asn Asn Ala Lys Lys
Thr
65 70 75
80

Val Ser Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val
Tyr
85 90 95

Tyr Cys Ala Ala Asn Leu Gly Ser Lys Asn Pro Ser Leu Arg Pro
Gly
100 105 110

Arg Glu Ala Tyr Asn Tyr Trp Gly Gln Gly Thr Gln Val Thr Val
Ser
115 120 125

Ser

<210> 340
<211> 126
<212> PRT

346

<213> -

<400> 340

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Ala Gly
Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Arg Arg Thr Phe Ser Ser
Tyr
20 25 30

Ala Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Ile
Val
35 40 45

Ala Asp Ile Ser Trp Asn Gly Ser Arg Thr Tyr Tyr Ala Asp Ser
Ala
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val
Tyr
65 70 75
80

Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr
Cys
85 90 95

Ala Ala Ala Leu Phe Gly Gly Leu Gly Arg Ala Pro Ser Thr His
Glu
100 105 110

Tyr Ala Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
115 120 125

<210> 341

<211> 126

<212> PRT

<213> -

347

<400> 341

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Ala Gly
Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Arg Arg Thr Phe Ser Ser
Tyr
20 25 30

Ala Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Val
Val
35 40 45

Ala Asp Ile Ser Trp Asn Gly Ser Arg Thr Tyr Tyr Ala Asp Ser
Ala
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val
Tyr
65 70 75
80

Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr
Cys
85 90 95

Ala Ala Ala Leu Phe Gly Gly Leu Gly Arg Ala Pro Ser Thr His
Glu
100 105 110

Tyr Ala Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
115 120 125

<210> 342

<211> 128

<212> PRT

<213> -

<400> 342

348

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Ala Gly
Gly

1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Leu Phe Phe Ser Phe
Tyr

20 25 30

Asn Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe
Val

35 40 45

Ala Ile Ile Arg Lys Thr Gly Gly Ser Thr Tyr Tyr Ala Asp Ser
Val

50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val
Tyr

65 70 75

80

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

85 90 95

Ala Ala Ala Ser Ser Tyr Tyr Ser Asp Ser Tyr Tyr Tyr Thr Arg
Ser

100 105 110

Asp Lys Tyr Asn Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser
Ser

115 120 125

<210> 343

<211> 120

<212> PRT

<213> -

<400> 343

349

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Ala Gly
Gly
1 5 10 15

Ser Leu Arg Leu Asp Cys Ala Ala Ser Gly Arg Thr Ser Tyr Ala
Met
20 25 30

Gly Trp Phe Arg Gln Gly Thr Gly Lys Glu Arg Glu Phe Val Ala
Ala
35 40 45

Ile Ser Pro Ser Gly Tyr Tyr Thr Tyr Tyr Glu Asp Ser Val Lys
Gly
50 55 60

Arg Phe Ser Ile His Arg Asp Asn Ala Lys Asn Met Val Tyr Leu
Gln
65 70 75
80

Met Asn Ser Leu Thr Pro Glu Asp Thr Ala Val Tyr Tyr Cys Ala
Ala
85 90 95

Gly Arg His Gln Thr Val Ser Gly Ile Leu Pro Asp Tyr Trp Gly
Gln
100 105 110

Gly Ile Gln Val Thr Val Ser Ser
115 120

<210> 344
<211> 120
<212> PRT
<213> -

<400> 344

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Ala Gly
Gly

350

1 5 10 15

Ser Leu Arg Leu Asp Cys Ala Ala Ser Gly Arg Thr Ser Tyr Ala
Met

20 25 30

Gly Trp Phe Arg Gln Gly Thr Gly Gln Glu Arg Glu Phe Val Ala
Ala

35 40 45

Ile Ser Pro Ser Gly Tyr Tyr Thr Tyr Tyr Glu Asp Ser Val Lys
Gly

50 55 60

Arg Phe Asn Ile His Arg Asp Asn Thr Lys Asn Met Val Tyr Leu
Gln

65 70 75
80

Met Asn Ser Leu Thr Pro Glu Asp Thr Ala Val Tyr Tyr Cys Ala
Ala

85 90 95

Gly Arg His Lys Thr Val Ser Gly Ile Leu Pro Asp Tyr Trp Gly
Gln

100 105 110

Gly Ile Gln Val Thr Val Ser Ser

115 120

<210> 345
<211> 120
<212> PRT
<213> -

<400> 345

Lys Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Ala Gly
Gly

1 5 10 15

351

Ser Leu Arg Leu Asp Cys Ala Ala Ser Gly Arg Thr Ser Tyr Ala
Met

20

25

30

Gly Trp Phe Arg Gln Gly Thr Gly Lys Glu Arg Glu Phe Val Ala
Ala

35

40

45

Ile Ser Pro Ser Gly Tyr Tyr Thr Tyr Tyr Glu Asp Ser Val Lys
Gly

50

55

60

Arg Phe Phe Ile His Arg Asp Asn Ala Lys Asn Met Val Tyr Leu
Gln

65

70

75

80

Met Asn Ser Leu Thr Pro Glu Asp Thr Ala Val Tyr Tyr Cys Ala
Ala

85

90

95

Gly Arg His Lys Thr Val Ser Gly Ile Leu Pro Asp Tyr Trp Gly
Gln

100

105

110

Gly Ile Gln Val Thr Val Ser Ser

115

120

<210> 346

<211> 120

<212> PRT

<213> -

<400> 346

Lys Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Ala Gly
Gly

1

5

10

15

352

Ser Leu Arg Leu Asp Cys Ala Ala Ser Gly Arg Thr Ser Tyr Ala
Met

20

25

30

Gly Trp Phe Arg Gln Gly Thr Gly Lys Glu Arg Glu Phe Val Ser
Ala

35

40

45

Ile Ser Pro Ser Gly Tyr Tyr Thr Tyr Tyr Glu Asp Ser Val Lys
Gly

50

55

60

Arg Phe Ser Ile His Arg Asp Asn Ala Lys Asn Met Val Tyr Leu
Gln

65

70

75

80

Met Asn Ser Leu Thr Pro Glu Asp Thr Ala Val Tyr Tyr Cys Ala
Ala

85

90

95

Gly Arg His Gln Thr Val Ser Gly Ile Leu Pro Asp Tyr Trp Gly
Gln

100

105

110

Gly Ile Gln Val Thr Val Ser Ser

115

120

<210> 347

<211> 120

<212> PRT

<213> -

<400> 347

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Ala Gly
Gly

1

5

10

15

Ser Leu Arg Leu Asp Cys Ala Ala Ser Gly Arg Thr Ser Tyr Ala
Met

353
 20 25 30
 Gly Trp Phe Arg Gln Gly Thr Gly Lys Glu Arg Glu Phe Val Ala
 Ala 35 40 45
 Ile Ser Pro Ser Gly Tyr Tyr Thr Tyr Tyr Glu Asp Ser Val Lys
 Gly 50 55 60
 Arg Phe Phe Met His Arg Asp Asn Ala Lys Asn Met Val Tyr Leu
 Gln 65 70 75
 80
 Met Asn Ser Leu Thr Pro Glu Asp Thr Ala Val Tyr Tyr Cys Ala
 Ala 85 90 95
 Gly Arg His Asn Thr Val Ser Gly Ile Leu Pro Asp Tyr Trp Gly
 Arg 100 105 110
 Gly Ile Gln Val Thr Val Ser Ser
 115 120
 <210> 348
 <211> 120
 <212> PRT
 <213> -
 <400> 348
 Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Ala Gly
 Gly 1 5 10 15
 Ser Leu Arg Leu Asp Cys Ala Ala Ser Gly Arg Thr Ser Tyr Ala
 Met 20 25 30

354

Gly Trp Phe Arg Gln Gly Thr Gly Lys Glu Arg Glu Phe Val Ala
Ala

35

40

45

Ile Ser Pro Ser Gly Tyr Tyr Thr Tyr Tyr Glu Asp Ser Val Lys
Gly

50

55

60

Arg Phe Phe Ile His Arg Asp Asn Ala Lys Asn Met Val Tyr Leu
Gln

65

70

75

80

Met Asn Ser Leu Thr Pro Glu Asp Thr Ala Val Tyr Tyr Cys Ala
Ala

85

90

95

Gly Arg His Lys Thr Val Ser Gly Ile Leu Pro Asp Tyr Trp Gly
Gln

100

105

110

Gly Ile Gln Val Thr Val Ser Ser
115 120

<210> 349

<211> 120

<212> PRT

<213> -

<400> 349

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Ala Gly
Gly

1

5

10

15

Ser Leu Arg Leu Asp Cys Ala Ala Ser Gly Arg Thr Ser Tyr Ala
Met

20

25

30

355

Gly Trp Phe Arg Gln Gly Thr Gly Lys Glu Arg Glu Phe Val Ala
Ala

35

40

45

Ile Ser Pro Ser Gly Tyr Tyr Thr Tyr Tyr Glu Asp Ser Val Lys
Gly

50

55

60

Arg Phe Phe Ile His Arg Asp Asn Ala Lys Asn Met Val Tyr Leu
Gln

65

70

75

80

Met Asn Ser Leu Thr Pro Glu Asp Thr Ala Val Tyr Tyr Cys Ala
Ala

85

90

95

Gly Arg His Gln Thr Val Ser Gly Ile Leu Pro Asp Tyr Trp Gly
Gln

100

105

110

Gly Ile Gln Val Thr Val Ser Ser

115

120

<210> 350

<211> 120

<212> PRT

<213> -

<400> 350

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Ala Gly
Gly

1

5

10

15

Ser Leu Arg Leu Asp Cys Ala Ala Ser Gly Arg Thr Ser Tyr Ala
Met

20

25

30

Gly Trp Phe Arg Gln Gly Thr Gly Lys Glu Arg Glu Phe Val Ala
Ala

356
 35 40 45
 Leu Ser Pro Ser Gly Tyr Tyr Thr Tyr Tyr Glu Asp Ser Val Lys
 Gly
 50 55 60
 Arg Phe Ser Ile His Arg Asp Asn Ala Lys Asn Met Val Tyr Leu
 Gln
 65 70 75
 80
 Met Asn Ser Leu Thr Pro Glu Asp Thr Ala Val Tyr Tyr Cys Ala
 Ala
 85 90 95
 Gly Arg His Glu Thr Ala Ser Gly Ile Leu Pro Asn Tyr Trp Gly
 Gln
 100 105 110
 Gly Ile Gln Val Thr Val Ser Ser
 115 120
 <210> 351
 <211> 124
 <212> PRT
 <213> -
 <400> 351
 Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Ile Gly
 Gly
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Arg Thr Phe Ser Ser
 Tyr
 20 25 30
 Ala Met Gly Trp Phe Arg Gln Thr Pro Gly Lys Glu Arg Glu Phe
 Val
 35 40 45

357

Ala Ala Ile Gly Arg Asn Gly Gly Ser Ile Gly Tyr Ala Asp Ser
Val

50

55

60

Lys Gly Arg Ser Thr Ile Ser Arg Asp Asn Ala Lys Asn Met Val
Tyr

65

70

75

80

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

85

90

95

Ala Ala Thr Asn Lys Phe Ser Tyr Ser Thr Leu Arg Asn Asp Tyr
Asn

100

105

110

Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
115 120

<210> 352

<211> 124

<212> PRT

<213> -

<400> 352

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Glu Ala Gly
Gly

1

5

10

15

Ser Leu Arg Leu Ser Cys Thr Ala Ser Gly Gly Thr Phe Ser Thr
Tyr

20

25

30

Ala Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe
Ala

35

40

45

358

Ala Ala Ile Ser Arg Asn Gly Gly Ser Lys Gly Tyr Lys Glu Ser
Val

50

55

60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val
Tyr

65

70

75

80

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

85

90

95

Ala Ala Ser Arg Thr Tyr Thr Tyr Ser Thr Ala Met Lys Asp Tyr
Asn

100

105

110

Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
115 120

<210> 353

<211> 125

<212> PRT

<213> -

<400> 353

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly
Gly

1

5

10

15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Leu Asp Tyr
Tyr

20

25

30

Tyr Ile Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Gly
Val

35

40

45

Ser Cys Ile Ser Ser Ser Asp Gly Ser Thr Tyr Tyr Ala Asp Ser
Val

359

50

55

60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val
Tyr
65 70 75
80

Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr
Cys
85 90 95

Ala Ala Asp Arg Asp Thr Thr Gly Trp Gly Cys Gly Leu Tyr Glu
Tyr
100 105 110

Asp Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
115 120 125

<210> 354
<211> 120
<212> PRT
<213> -

<400> 354

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly
Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Pro Gly Ser Ile Val Ser Ile
Asn
20 25 30

Asn Met Gly Trp Tyr Arg Gln Ala Pro Gly Lys Gln Arg Glu Leu
Val
35 40 45

Ala Leu Ile Thr Ser Gly Gly Thr Thr Thr Tyr Ala Asp Ser Val
Lys
50 55 60

360

Gly Arg Phe Thr Ile Ser Gly Asp Asn Ala Lys Lys Met Val Tyr
Leu
65 70 75
80

Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys
Asn
85 90 95

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

Gly Thr Gln Val Thr Val Ser Ser
115 120

<210> 355
<211> 116
<212> PRT
<213> -

<400> 355

Ala Ala Gln Pro Ala Met Ala Glu Val Gln Leu Val Glu Ser Gly
Gly
1 5 10 15

Ser Arg Arg Leu Ser Cys Ala Thr Ser Ala Ser Ile Thr Ser Ile
Ser
20 25 30

Phe Met Gly Trp Tyr Arg Gln Val Pro Gly Lys Gln Arg Glu Leu
Val
35 40 45

Ala Phe Ile Thr Ser Ser Gly Ser Pro Asn Tyr Val Gly Phe Ala
Glu
50 55 60

361

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr
Leu
65 70 75
80

Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys
Tyr
85 90 95

Leu Gln Pro Leu Gly Gly Ser Gly Ser Trp Gly Gln Gly Thr Gln
Val
100 105 110

Thr Val Ser Ser
115

<210> 356
<211> 116
<212> PRT
<213> -

<400> 356

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly
Gly
1 5 10 15

Ser Arg Arg Leu Ser Cys Ala Thr Ser Ala Ser Ile Thr Ser Ile
Ser
20 25 30

Phe Met Gly Trp Tyr Arg Gln Ala Pro Gly Lys Gln Arg Glu Leu
Val
35 40 45

Ala Phe Ile Pro Ser Ser Gly Val Pro Asn Tyr Val Gly Phe Ala
Glu
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asp Ala Lys Asn Thr Val Tyr
Leu

362

65
80

70

75

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

85

90

95

Leu Gln Pro Leu Gly Gly Ser Gly Ser Trp Gly Gln Gly Thr Gln
Val

100

105

110

Thr Val Ser Ser
115

<210> 357
<211> 115
<212> PRT
<213> -

<400> 357

Glu Val Gln Leu Val Glu Ser Gly Gly Ala Leu Val Gln Pro Gly
Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Ile Val Ser Ile
Asp
20 25 30

Phe Met Gly Trp Tyr Arg Gln Ala Pro Gly Lys Gln Arg Glu Val
Val
35 40 45

Thr Phe Ile Thr Ser Gly Gly Ser Pro Asn Tyr Val Asp Ser Val
Glu
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Met Tyr
Leu
65 70 75
80

Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys
 Tyr
 85 90 95

Met Gln Ser Gly Thr Ala Gly Ser Trp Gly Gln Gly Thr Gln Val
 Thr
 100 105 110

Val Ser Ser
 115

<210> 358
 <211> 115
 <212> PRT
 <213> -

<400> 358

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly
 Gly
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Ile Val Arg Val
 Asp
 20 25 30

Phe Met Gly Trp Tyr Arg Gln Ala Pro Gly Lys Gln Arg Glu Val
 Val
 35 40 45

Thr Phe Ile Thr Ser Gly Gly Ser Pro Asn Tyr Val Asp Ser Val
 Thr
 50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Met Tyr
 Leu
 65 70 75
 80

364

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

85

90

95

Ile Gln Ser Gly Thr Ala Gly Ser Trp Gly Gln Gly Thr Gln Val
Thr

100

105

110

Val Ser Ser
115

<210> 359

<211> 124

<212> PRT

<213> -

<400> 359

Glu Val Gln Leu Val Glu Ser Gly Gly Ala Leu Val Gln Pro Gly
Gly

1

5

10

15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Arg Asn
Tyr

20

25

30

Asp Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Pro Glu Trp
Val

35

40

45

Ser Ser Ile Asn Ser Gly Gly Gly Ser Thr Tyr Tyr Ala Asp Ser
Val

50

55

60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Leu
Tyr

65

70

75

80

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

365
 85 90 95
 Ala Thr Gly Leu Ile Thr Thr Ala Gln Ala Met Leu Glu Glu Tyr
 Asp
 100 105 110
 Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
 115 120
 <210> 360
 <211> 119
 <212> PRT
 <213> -
 <400> 360
 Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly
 Gly
 1 5 10 15
 Ser Leu Lys Leu Ser Cys Ala Ala Ala Gly Phe Thr Phe Arg Pro
 Tyr
 20 25 30
 Ala Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe
 Val
 35 40 45
 Ala Ala Val Ala Thr Asn Val Gly Thr Thr Phe Tyr Gln Asp Ser
 Val
 50 55 60
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val
 Tyr
 65 70 75
 80
 Leu Gln Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Val Tyr Tyr
 Cys
 85 90 95

366

Asn Thr Lys Leu Tyr Ser Gly Ile Phe Arg Glu Tyr Trp Gly Gln
Gly

100

105

110

Thr Gln Val Thr Val Ser Ser
115

<210> 361

<211> 122

<212> PRT

<213> -

<400> 361

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly
Glu
1 5 10 15

Ser Leu Ser Leu Ser Cys Thr Ala Ser Gly Ser Ala Phe Gly Ile
Asn
20 25 30

Ser Met Gly Trp Tyr Arg Gln Ala Pro Gly Lys Glu Arg Glu Leu
Val
35 40 45

Ala Val Met Tyr Ser Asp Ser Asn Thr Thr Tyr Thr Asp Ser Val
Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Tyr Ala Lys Asn Thr Val Tyr
Leu
65 70 75
80

Arg Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Phe Cys
His
85 90 95

367

Cys Glu Ala Ile Arg Glu Pro Gly Asp Tyr Tyr Gly Trp His Tyr
Trp

100

105

110

Gly Lys Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 362

<211> 125

<212> PRT

<213> -

<400> 362

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Ala Gly
Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Thr Phe Thr Glu
Thr
20 25 30

Pro Phe Thr Met His Ala Leu Ser Trp Tyr Arg Gln Ser Glu Gly
Lys
35 40 45

Glu Arg Glu Leu Val Ala Ala Ile Ser Leu Ala Gly Thr Thr Asn
Tyr
50 55 60

Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Gly
Lys
65 70 75
80

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

Val Tyr Tyr Cys Asn Val Gly Ser Trp Phe Gln Gly Tyr Tyr Ala
Met

368														
100					105					110				
Asp	Tyr	Trp	Gly	Glu	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser		
		115					120					125		
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Gln	Val	Gln	Leu	Val	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly
Gly														
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Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Thr	Phe	Gly	Ser
Tyr														
			20					25					30	
Asp	Met	Ser	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Pro	Glu	Trp
Val														
		35					40					45		
Ser	Ala	Ile	Asn	Ser	Gly	Gly	Gly	Ser	Thr	Tyr	Tyr	Ala	Asp	Ser
Val														
	50						55					60		
Lys	Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ala	Lys	Asn	Thr	Leu
Tyr														
65					70					75				
80														
Leu	Gln	Met	Asn	Ser	Leu	Lys	Pro	Asp	Asp	Thr	Ala	Val	Tyr	Tyr
Cys														
				85					90					95
Ala	Thr	Gly	Arg	Pro	Leu	Trp	Asp	Tyr	Ser	Asp	Tyr	Ala	Asp	Phe
Gly														
			100					105						110

369

Ser Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
115 120

<210> 364

<211> 124

<212> PRT

<213> -

<400> 364

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly
Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Gly Ser
Tyr
20 25 30

Asp Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Pro Glu Trp
Val
35 40 45

Ser Ala Ile Asn Ser Gly Gly Gly Thr Thr Tyr Tyr Ala Asp Ser
Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Leu
Tyr
65 70 75
80

Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr
Cys
85 90 95

Ala Thr Gly Arg Pro Leu Trp Asp Tyr Ser Asp Tyr Ala Asp Phe
Gly
100 105 110

Ser Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser

370
 115 120
 <210> 365
 <211> 119
 <212> PRT
 <213> -
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 Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly
 Gly
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Thr Ala Ser Thr Ser Ile Phe Ser Leu
 Tyr
 20 25 30
 Asp Met Gly Trp Tyr Arg Gln Ala Pro Gly Lys Glu Arg Glu Leu
 Val
 35 40 45
 Ala Arg Ile Thr Ser Gly Arg Ser Ile Asn Tyr Ala Asp Ser Val
 Lys
 50 55 60
 Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr
 Leu
 65 70 75
 80
 Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Ala Tyr Tyr Cys
 Asn
 85 90 95
 Ala Asn His His Asp Trp Gly Thr Asn Trp Asp Phe Trp Gly Gln
 Gly
 100 105 110
 Thr Gln Val Thr Val Ser Ser
 115