

719408_ST25
SEQUENCE LISTING

<110> AnaptysBio, Inc.
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King, David J.
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<120> ANTIBODIES DIRECTED AGAINST INTERLEUKIN-33 (IL-33)

<130> 719408

<150> US 61/925,946

<151> 2014-01-10

<160> 231

<170> PatentIn version 3.5

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<211> 113

<212> PRT

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Glu	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	Ser	Asn	Tyr
			20					25					30		

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

Ala	Asp	Ile	Arg	Leu	Lys	Ser	Asn	Asn	Tyr	Ala	Thr	His	Tyr	Ala	Glu
	50					55				60					

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

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

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Tyr Cys Val Arg Asp Gly Pro Tyr Trp Gly Gln Gly Thr Leu Val Thr
 100 105 110

Val

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

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

Ala Asn Ile Lys Gln Asp Gly Ser Glu Lys Tyr Tyr Val Asp Ser Val
 50 55 60

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

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

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

Ala Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala
 115 120 125

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<400> 3

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

Gln Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Val Tyr Ser
 20 25 30

Asp Gly Asn Thr Tyr Leu Asn Trp Phe Gln Gln Arg Pro Gly Gln Ser
 35 40 45

Pro Arg Arg Leu Ile Tyr Lys Val Ser Asn Arg Asp Ser Gly Val Pro
 50 55 60

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

Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Phe Gln Gly
 85 90 95

Ser His Val Pro Arg Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
 100 105 110

Arg

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<400> 4

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

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Gln Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Ile Val His Ser
20 25 30

Asn Gly Asn Thr Tyr Leu Glu Trp Phe Gln Gln Arg Pro Gly Gln Ser
35 40 45

Pro Arg Arg Leu Ile Tyr Lys Ile Ser Asn Arg Phe Ser Gly Val Pro
50 55 60

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

Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Phe Gln Gly
85 90 95

Ser His Val Pro Arg Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
100 105 110

Arg

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

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr
20 25 30

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

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Gly Thr Ile Tyr Pro Arg Asn Ser Asp Thr Asp Tyr Asn Gln Lys Phe
 50 55 60

Lys Ala Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val Tyr
 65 70 75 80

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

Ala Arg Pro Leu Tyr Tyr Tyr Val Thr Ser Pro Pro Thr Leu Leu Trp
 100 105 110

Gly Gln Gly Thr Leu Val Thr Val
 115 120

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

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Ile Phe Thr Ser Tyr
 20 25 30

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

Gly Thr Ile Tyr Pro Arg Asn Ser Asp Thr Asp Tyr Asn Gln Lys Phe
 50 55 60

Lys Ala Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val Tyr
 65 70 75 80

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

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Ala Arg Pro Leu Tyr Tyr Tyr Val Thr Ser Pro Pro Thr Leu Leu Trp
100 105 110

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

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

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

Gly Thr Ile Tyr Pro Arg Asn Ser Asp Thr Asp Tyr Asn Gln Lys Phe
50 55 60

Lys Ala Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val Tyr
65 70 75 80

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

Ala Arg Pro Leu Tyr Tyr Tyr Val Thr Ser Pro Pro Thr Leu Leu Trp
100 105 110

Gly Gln Gly Thr Leu Val Thr Val
115 120

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Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
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Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Ser Phe Thr Ser Tyr
 20 25 30

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

Gly Thr Ile Tyr Pro Arg Asn Ser Asp Thr Asp Tyr Asn Gln Lys Phe
 50 55 60

Lys Ala Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val Tyr
 65 70 75 80

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

Ala Arg Pro Leu Tyr Tyr Tyr Val Thr Ser Pro Pro Thr Leu Leu Trp
 100 105 110

Gly Gln Gly Thr Leu Val Thr Val
 115 120

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

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe His Ser Tyr
20 25 30

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

Gly Thr Ile Tyr Pro Arg Asn Ser Asp Thr Asp Tyr Asn Gln Lys Phe
50 55 60

Lys Ala Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val Tyr
65 70 75 80

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

Ala Arg Pro Leu Tyr Tyr Tyr Val Thr Ser Pro Pro Thr Leu Leu Trp
100 105 110

Gly Gln Gly Thr Leu Val Thr Val
115 120

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<400> 10

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

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Ser Ser Tyr
20 25 30

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

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Gly Thr Ile Tyr Pro Arg Asn Ser Asp Thr Asp Tyr Asn Gln Lys Phe
50 55 60

Lys Ala Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val Tyr
65 70 75 80

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

Ala Arg Pro Leu Tyr Tyr Tyr Val Thr Ser Pro Pro Thr Leu Leu Trp
100 105 110

Gly Gln Gly Thr Leu Val Thr Val
115 120

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<400> 11

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

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ala Tyr
20 25 30

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

Gly Thr Ile Tyr Pro Arg Asn Ser Asp Thr Asp Tyr Asn Gln Lys Phe
50 55 60

Lys Ala Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val Tyr
65 70 75 80

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

Ala Arg Pro Leu Tyr Tyr Tyr Val Thr Ser Pro Pro Thr Leu Leu Trp
100 105 110

Gly Gln Gly Thr Leu Val Thr Val
115 120

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<400> 12

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

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Gly Tyr
20 25 30

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

Gly Thr Ile Tyr Pro Arg Asn Ser Asp Thr Asp Tyr Asn Gln Lys Phe
50 55 60

Lys Ala Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val Tyr
65 70 75 80

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

Ala Arg Pro Leu Tyr Tyr Tyr Val Thr Ser Pro Pro Thr Leu Leu Trp
100 105 110

Gly Gln Gly Thr Leu Val Thr Val
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<400> 13

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

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

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

Gly Thr Ile Tyr Pro Arg Asn Ser Asp Thr Asp Tyr Asn Gln Lys Phe
 50 55 60

Lys Ala Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val Tyr
 65 70 75 80

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

Ala Arg Pro Leu Tyr Tyr Tyr Val Thr Ser Pro Pro Thr Leu Leu Trp
 100 105 110

Gly Gln Gly Thr Leu Val Thr Val
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<400> 14

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

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Thr Tyr
 20 25 30

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

Gly Thr Ile Tyr Pro Arg Asn Ser Asp Thr Asp Tyr Asn Gln Lys Phe
 50 55 60

Lys Ala Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val Tyr
 65 70 75 80

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

Ala Arg Pro Leu Tyr Tyr Tyr Val Thr Ser Pro Pro Thr Leu Leu Trp
 100 105 110

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

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Phe
 20 25 30

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

Gly Thr Ile Tyr Pro Arg Asn Ser Asp Thr Asp Tyr Asn Gln Lys Phe
50 55 60

Lys Ala Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val Tyr
65 70 75 80

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

Ala Arg Pro Leu Tyr Tyr Tyr Val Thr Ser Pro Pro Thr Leu Leu Trp
100 105 110

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

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser His
20 25 30

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

Gly Thr Ile Tyr Pro Arg Asn Ser Asp Thr Asp Tyr Asn Gln Lys Phe
50 55 60

Lys Ala Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val Tyr
65 70 75 80

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

Ala Arg Pro Leu Tyr Tyr Tyr Val Thr Ser Pro Pro Thr Leu Leu Trp
100 105 110

Gly Gln Gly Thr Leu Val Thr Val
115 120

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

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr
20 25 30

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

Gly Thr Ile Tyr Pro Arg Asn Ser Asp Thr Asp Tyr Asn Gln Lys Phe
50 55 60

Lys Ala Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val Tyr
65 70 75 80

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

Ala Arg Pro Leu Tyr Tyr Tyr Val Thr Ser Pro Pro Thr Leu Leu Trp
100 105 110

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

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr
 20 25 30

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

Gly Thr Phe Tyr Pro Arg Asn Ser Asp Thr Asp Tyr Asn Gln Lys Phe
 50 55 60

Lys Ala Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val Tyr
 65 70 75 80

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

Ala Arg Pro Leu Tyr Tyr Tyr Val Thr Ser Pro Pro Thr Leu Leu Trp
 100 105 110

Gly Gln Gly Thr Leu Val Thr Val
 115 120

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<400> 19

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

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr
 20 25 30

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

Gly Thr Leu Tyr Pro Arg Asn Ser Asp Thr Asp Tyr Asn Gln Lys Phe
 50 55 60

Lys Ala Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val Tyr
 65 70 75 80

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

Ala Arg Pro Leu Tyr Tyr Tyr Val Thr Ser Pro Pro Thr Leu Leu Trp
 100 105 110

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

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr
 20 25 30

719408_ST25

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

Gly Thr Asn Tyr Pro Arg Asn Ser Asp Thr Asp Tyr Asn Gln Lys Phe
50 55 60

Lys Ala Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val Tyr
65 70 75 80

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

Ala Arg Pro Leu Tyr Tyr Tyr Val Thr Ser Pro Pro Thr Leu Leu Trp
100 105 110

Gly Gln Gly Thr Leu Val Thr Val
115 120

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

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr
20 25 30

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

Gly Thr Val Tyr Pro Arg Asn Ser Asp Thr Asp Tyr Asn Gln Lys Phe
50 55 60

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Lys Ala Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val Tyr
65 70 75 80

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

Ala Arg Pro Leu Tyr Tyr Tyr Val Thr Ser Pro Pro Thr Leu Leu Trp
100 105 110

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

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr
20 25 30

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

Gly Thr Ile Asn Pro Arg Asn Ser Asp Thr Asp Tyr Asn Gln Lys Phe
50 55 60

Lys Ala Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val Tyr
65 70 75 80

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

Ala Arg Pro Leu Tyr Tyr Tyr Val Thr Ser Pro Pro Thr Leu Leu Trp
100 105 110

Gly Gln Gly Thr Leu Val Thr Val
 115 120

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

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr
 20 25 30

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

Gly Thr Ile Thr Pro Arg Asn Ser Asp Thr Asp Tyr Asn Gln Lys Phe
 50 55 60

Lys Ala Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val Tyr
 65 70 75 80

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

Ala Arg Pro Leu Tyr Tyr Tyr Val Thr Ser Pro Pro Thr Leu Leu Trp
 100 105 110

Gly Gln Gly Thr Leu Val Thr Val
 115 120

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<400> 24

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

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr
20 25 30

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

Gly Thr Ile Tyr Pro Arg Asn Ser Asp Ile Asp Tyr Asn Gln Lys Phe
50 55 60

Lys Ala Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val Tyr
65 70 75 80

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

Ala Arg Pro Leu Tyr Tyr Tyr Val Thr Ser Pro Pro Thr Leu Leu Trp
100 105 110

Gly Gln Gly Thr Leu Val Thr Val
115 120

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

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Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr
 20 25 30

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

Gly Thr Ile Tyr Pro Arg Asn Ser Asp Thr Asp Tyr Asn Gln Asn Phe
 50 55 60

Lys Ala Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val Tyr
 65 70 75 80

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

Ala Arg Pro Leu Tyr Tyr Tyr Val Thr Ser Pro Pro Thr Leu Leu Trp
 100 105 110

Gly Gln Gly Thr Leu Val Thr Val
 115 120

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<400> 26

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

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr
 20 25 30

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

Gly Thr Ile Tyr Pro Arg Asn Ser Asp Thr Asp Tyr Asn Gln Arg Phe
 50 55 60

719408_ST25

Lys Ala Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val Tyr
65 70 75 80

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

Ala Arg Pro Leu Tyr Tyr Tyr Val Thr Ser Pro Pro Thr Leu Leu Trp
100 105 110

Gly Gln Gly Thr Leu Val Thr Val
115 120

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<400> 27

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

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr
20 25 30

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

Gly Thr Ile Tyr Pro Arg Asn Ser Asp Thr Asp Tyr Asn Gln Lys Phe
50 55 60

Lys Ala Arg Val Thr Val Thr Arg Asp Thr Ser Thr Ser Thr Val Tyr
65 70 75 80

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

719408_ST25

Ala Arg Pro Leu Tyr Tyr Tyr Val Thr Ser Pro Pro Thr Leu Leu Trp
 100 105 110

Gly Gln Gly Thr Leu Val Thr Val
 115 120

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<400> 28

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

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr
 20 25 30

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

Gly Thr Ile Tyr Pro Arg Asn Ser Asp Thr Asp Tyr Asn Gln Lys Phe
 50 55 60

Lys Ala Arg Val Thr Met Ser Arg Asp Thr Ser Thr Ser Thr Val Tyr
 65 70 75 80

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

Ala Arg Pro Leu Tyr Tyr Tyr Val Thr Ser Pro Pro Thr Leu Leu Trp
 100 105 110

Gly Gln Gly Thr Leu Val Thr Val
 115 120

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<400> 29

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

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr
 20 25 30

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

Gly Thr Ile Tyr Pro Arg Asn Ser Asp Thr Asp Tyr Asn Gln Lys Phe
 50 55 60

Lys Ala Arg Val Thr Met Thr Arg Asp Thr Ser Thr Asn Thr Val Tyr
 65 70 75 80

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

Ala Arg Pro Leu Tyr Tyr Tyr Val Thr Ser Pro Pro Thr Leu Leu Trp
 100 105 110

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

719408_ST25

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr
20 25 30

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

Gly Thr Ile Tyr Pro Arg Asn Ser Asp Thr Asp Tyr Asn Gln Lys Phe
50 55 60

Lys Ala Arg Val Thr Met Thr Arg Asp Thr Ser Thr Thr Thr Val Tyr
65 70 75 80

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

Ala Arg Pro Leu Tyr Tyr Tyr Val Thr Ser Pro Pro Thr Leu Leu Trp
100 105 110

Gly Gln Gly Thr Leu Val Thr Val
115 120

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

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr
20 25 30

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

719408_ST25

Gly Thr Ile Tyr Pro Arg Asn Ser Asp Thr Asp Tyr Asn Gln Lys Phe
 50 55 60

Lys Ala Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val Tyr
 65 70 75 80

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

Ala Arg Pro Leu Tyr Tyr Tyr Val Thr Ser Pro Pro Thr Leu Leu Trp
 100 105 110

Gly Gln Gly Thr Leu Val Thr Val
 115 120

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<400> 32

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

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr
 20 25 30

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

Gly Thr Ile Tyr Pro Arg Asn Ser Asp Thr Asp Tyr Asn Gln Lys Phe
 50 55 60

Lys Ala Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val Tyr
 65 70 75 80

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

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Ala Arg Pro Leu Tyr Tyr Tyr Val Thr Ser Pro Pro Thr Leu Leu Trp
 100 105 110

Gly Gln Gly Thr Leu Val Thr Val
 115 120

<210> 33
 <211> 120
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> synthetic sequence

<400> 33

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

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr
 20 25 30

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

Gly Thr Ile Tyr Pro Arg Asn Ser Asp Thr Asp Tyr Asn Gln Lys Phe
 50 55 60

Lys Ala Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val Tyr
 65 70 75 80

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

Ala Arg Pro Leu Tyr Tyr Tyr Val Thr Ser Pro Pro Thr Leu Leu Trp
 100 105 110

Gly Gln Gly Thr Leu Val Thr Val
 115 120

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<210> 34
 <211> 120
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> synthetic sequence

<400> 34

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

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr
 20 25 30

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

Gly Thr Ile Tyr Pro Arg Asn Ser Asp Thr Asp Tyr Asn Gln Lys Phe
 50 55 60

Lys Ala Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Ala Tyr
 65 70 75 80

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

Ala Arg Pro Leu Tyr Tyr Tyr Val Thr Ser Pro Pro Thr Leu Leu Trp
 100 105 110

Gly Gln Gly Thr Leu Val Thr Val
 115 120

<210> 35
 <211> 120
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> synthetic sequence

<400> 35

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

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr
 20 25 30

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

Gly Thr Ile Tyr Pro Arg Asn Ser Asp Thr Asp Tyr Asn Gln Lys Phe
 50 55 60

Lys Ala Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val Tyr
 65 70 75 80

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

Ala Arg Pro Leu Tyr Tyr Tyr Val Thr Ser Pro Pro Thr Leu Leu Trp
 100 105 110

Gly Gln Gly Thr Leu Val Thr Val
 115 120

<210> 36
 <211> 120
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> synthetic sequence

<400> 36

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

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr
 20 25 30

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

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Gly Thr Ile Tyr Pro Arg Asn Ser Asp Thr Asp Tyr Asn Gln Lys Phe
50 55 60

Lys Ala Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val Tyr
65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Ile Tyr Tyr Cys
85 90 95

Ala Arg Pro Leu Tyr Tyr Tyr Val Thr Ser Pro Pro Thr Leu Leu Trp
100 105 110

Gly Gln Gly Thr Leu Val Thr Val
115 120

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

<220>
<223> synthetic sequence

<400> 37

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

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr
20 25 30

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

Gly Thr Ile Tyr Pro Arg Asn Ser Asp Thr Asp Tyr Asn Gln Lys Phe
50 55 60

Lys Ala Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Ile Val Tyr
65 70 75 80

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

Ala Arg Pro Leu Tyr Tyr Tyr Val Thr Ser Pro Pro Thr Leu Leu Trp
 100 105 110

Gly Gln Gly Thr Leu Val Thr Val
 115 120

<210> 38

<211> 120

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic sequence

<400> 38

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

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr
 20 25 30

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

Gly Thr Ile Tyr Pro Arg Asn Ser Asp Thr Asp Tyr Asn Gln Lys Phe
 50 55 60

Lys Ala Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val Tyr
 65 70 75 80

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

Ala Arg Pro Leu Tyr Tyr Tyr Val Thr Ser Pro Pro Thr Leu Leu Trp
 100 105 110

Gly Gln Gly Thr Leu Val Thr Val
 115 120

<210> 39
 <211> 120
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> synthetic sequence

<400> 39

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

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr
 20 25 30

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

Gly Thr Ile Asp Pro Arg Asn Ser Asp Thr Asp Tyr Asn Gln Lys Phe
 50 55 60

Lys Ala Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val Tyr
 65 70 75 80

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

Ala Arg Pro Leu Tyr Tyr Tyr Val Thr Ser Pro Pro Thr Leu Leu Trp
 100 105 110

Gly Gln Gly Thr Leu Val Thr Val
 115 120

<210> 40
 <211> 120
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> synthetic sequence

719408_ST25

<400> 40

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

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr
 20 25 30

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

Gly Thr Ile Tyr Pro Arg Asn Ser Asp Thr Asp Tyr Asn Gln Lys Phe
 50 55 60

Lys Ala Arg Val Thr Met Thr Arg Asp Thr Ser Thr Arg Thr Val Tyr
 65 70 75 80

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

Ala Arg Pro Leu Tyr Tyr Tyr Val Thr Ser Pro Pro Thr Leu Leu Trp
 100 105 110

Gly Gln Gly Thr Leu Val Thr Val
 115 120

<210> 41

<211> 120

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic sequence

<400> 41

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

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr
 20 25 30

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

Gly Thr Ile Tyr Pro Arg Asn Ser Asp Thr Asp Tyr Asn Gln Lys Phe
50 55 60

Lys Ala Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val Tyr
65 70 75 80

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

Ala Arg Pro Leu Tyr Tyr Tyr Val Thr Ser Pro Pro Thr Leu Leu Trp
100 105 110

Gly Gln Gly Thr Leu Val Thr Val
115 120

<210> 42

<211> 120

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic sequence

<400> 42

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

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asp Tyr
20 25 30

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

Gly Thr Ile Tyr Pro Arg Asn Ser Asp Thr Asp Tyr Asn Gln Lys Phe
50 55 60

Lys Ala Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val Tyr
65 70 75 80

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

Ala Arg Pro Leu Tyr Tyr Tyr Val Thr Ser Pro Pro Thr Leu Leu Trp
100 105 110

Gly Gln Gly Thr Leu Val Thr Val
115 120

<210> 43

<211> 120

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic sequence

<400> 43

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

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr
20 25 30

Trp Ile His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
35 40 45

Gly Thr Ile Tyr Pro Arg Asn Ser Asp Thr Asp Tyr Asn Gln Lys Phe
50 55 60

Lys Ala Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val Tyr
65 70 75 80

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

Ala Arg Pro Leu Tyr Tyr Tyr Val Thr Ser Pro Pro Thr Leu Leu Trp
100 105 110

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Gly Gln Gly Thr Leu Val Thr Val
 115 120

<210> 44
 <211> 120
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> synthetic sequence

<400> 44

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

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr
 20 25 30

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

Gly Thr Ile Tyr Pro Arg Asn Ser Asp Thr Asp Tyr Asn Gln Lys Phe
 50 55 60

Lys Ala Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val Tyr
 65 70 75 80

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

Ala Arg Pro Leu Tyr Tyr Tyr Val Thr Ser Pro Pro Thr Leu Leu Trp
 100 105 110

Gly Gln Gly Thr Leu Val Thr Val
 115 120

<210> 45
 <211> 120
 <212> PRT
 <213> Artificial Sequence

<220>

719408_ST25

<223> synthetic sequence

<400> 45

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

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr
 20 25 30

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

Gly Thr Ile Tyr Pro Arg Asn Ser Asp Thr Asp Tyr Asn Gln Lys Phe
 50 55 60

Lys Ala Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val Tyr
 65 70 75 80

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

Ala Arg Pro Leu Tyr Tyr Tyr Val Thr Ser Pro Pro Thr Leu Leu Trp
 100 105 110

Gly Gln Gly Thr Leu Val Thr Val
 115 120

<210> 46

<211> 120

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic sequence

<400> 46

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

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr
 20 25 30

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

Gly Thr Ile Tyr Pro Arg Asn Ser Asp Thr Asp Phe Asn Gln Lys Phe
50 55 60

Lys Ala Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val Tyr
65 70 75 80

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

Ala Arg Pro Leu Tyr Tyr Tyr Val Thr Ser Pro Pro Thr Leu Leu Trp
100 105 110

Gly Gln Gly Thr Leu Val Thr Val
115 120

<210> 47

<211> 120

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic sequence

<400> 47

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

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr
20 25 30

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

Gly Thr Ile Tyr Pro Arg Asn Ser Asp Thr Asp His Asn Gln Lys Phe
50 55 60

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Lys Ala Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val Tyr
65 70 75 80

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

Ala Arg Pro Leu Tyr Tyr Tyr Val Thr Ser Pro Pro Thr Leu Leu Trp
100 105 110

Gly Gln Gly Thr Leu Val Thr Val
115 120

<210> 48

<211> 120

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic sequence

<400> 48

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

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr
20 25 30

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

Gly Thr Ile Tyr Pro Arg Asn Ser Asp Thr Asp Tyr Asn Gln Lys Phe
50 55 60

Lys Ala Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Thr Tyr
65 70 75 80

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

Ala Arg Pro Leu Tyr Tyr Tyr Val Thr Ser Pro Pro Thr Leu Leu Trp
100 105 110

Gly Gln Gly Thr Leu Val Thr Val
 115 120

<210> 49
 <211> 120
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> synthetic sequence

<400> 49

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

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser His
 20 25 30

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

Gly Thr Ile Tyr Pro Arg Asn Ser Asp Thr Asp Tyr Asn Gln Lys Phe
 50 55 60

Lys Ala Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Ile Val Tyr
 65 70 75 80

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

Ala Arg Pro Leu Tyr Tyr Tyr Val Thr Ser Pro Pro Thr Leu Leu Trp
 100 105 110

Gly Gln Gly Thr Leu Val Thr Val
 115 120

<210> 50
 <211> 122
 <212> PRT
 <213> Artificial Sequence

719408_ST25

<220>

<223> synthetic sequence

<400> 50

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

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr
20 25 30

Tyr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
35 40 45

Gly Ile Ile Asn Pro Ser Gly Gly Ser Thr Ser Tyr Ala Gln Lys Phe
50 55 60

Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val Tyr
65 70 75 80

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

Ala Arg Pro Leu Tyr Tyr Tyr Val Thr Ser Pro Pro Thr Leu Leu Trp
100 105 110

Gly Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 51

<211> 108

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic sequence

<400> 51

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

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Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Asp Val Gly Thr Ala
 20 25 30

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

Tyr Trp Ala Ser Thr Arg His Thr Gly Val Pro Ser Arg Phe Ser Gly
 50 55 60

Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
 65 70 75 80

Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Cys Asn Ser Tyr Pro Phe
 85 90 95

Thr Phe Gly Ser Gly Thr Lys Leu Glu Ile Lys Arg
 100 105

<210> 52

<211> 108

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic sequence

<400> 52

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

Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Asp Val Gly Thr Ala
 20 25 30

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

Tyr Trp Ala Ser Thr Arg His Thr Gly Val Pro Ser Arg Phe Ser Gly
 50 55 60

Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
 65 70 75 80

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Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Val Asn Ser Tyr Pro Phe
85 90 95

Thr Phe Gly Ser Gly Thr Lys Leu Glu Ile Lys Arg
100 105

<210> 53
<211> 108
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic sequence

<400> 53

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

Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Asp Val Gly Thr Ala
20 25 30

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

Tyr Trp Ala Ser Thr Arg His Thr Gly Val Pro Ser Arg Phe Ser Gly
50 55 60

Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
65 70 75 80

Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ile Asn Ser Tyr Pro Phe
85 90 95

Thr Phe Gly Ser Gly Thr Lys Leu Glu Ile Lys Arg
100 105

<210> 54
<211> 108
<212> PRT
<213> Artificial Sequence

<220>

<223> synthetic sequence

<400> 54

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

Asp	Arg	Val	Thr	Ile	Thr	Cys	Lys	Ala	Ser	Gln	Asp	Val	Gly	Thr	Ala
			20					25					30		

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

Tyr	Trp	Ala	Ser	Thr	Arg	His	Thr	Gly	Val	Pro	Ser	Arg	Phe	Ser	Gly
	50					55					60				

Ser	Gly	Ser	Gly	Thr	Glu	Phe	Thr	Leu	Thr	Ile	Ser	Ser	Leu	Gln	Pro
65					70					75				80	

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

Thr	Phe	Gly	Ser	Gly	Thr	Lys	Leu	Glu	Ile	Lys	Arg
			100					105			

<210> 55

<211> 108

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic sequence

<400> 55

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

Asp	Arg	Val	Thr	Ile	Thr	Cys	Lys	Ala	Ser	Gln	Asp	Val	Gly	Thr	Ala
			20					25					30		

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

Tyr Trp Ala Ser Thr Arg His Thr Gly Val Pro Ser Arg Phe Ser Gly
50 55 60

Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
65 70 75 80

Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ala Asn Ser Tyr Pro Phe
85 90 95

Thr Phe Gly Ser Gly Thr Lys Leu Glu Ile Lys Arg
100 105

<210> 56

<211> 108

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic sequence

<400> 56

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

Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Asp Val Gly Thr Ala
20 25 30

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

Tyr Trp Ala Ser Thr Arg His Thr Gly Val Pro Ser Arg Phe Ser Gly
50 55 60

Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
65 70 75 80

Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Asn Ser Tyr Pro Phe
85 90 95

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Thr Phe Gly Ser Gly Thr Lys Leu Glu Ile Lys Arg
100 105

<210> 57
<211> 108
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic sequence

<400> 57

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

Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Asp Val Gly Thr Ala
20 25 30

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

Tyr Trp Ala Ser Thr Arg His Thr Gly Val Pro Ser Arg Phe Ser Gly
50 55 60

Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
65 70 75 80

Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ala Ser Thr Tyr Pro Phe
85 90 95

Thr Phe Gly Ser Gly Thr Lys Leu Glu Ile Lys Arg
100 105

<210> 58
<211> 108
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic sequence

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<400> 58

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

Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Asp Val Gly Thr Ala
 20 25 30

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

Tyr Trp Ala Ser Thr Arg His Thr Gly Val Pro Ser Arg Phe Ser Gly
 50 55 60

Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
 65 70 75 80

Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ala Ser Ala Tyr Pro Phe
 85 90 95

Thr Phe Gly Ser Gly Thr Lys Leu Glu Ile Lys Arg
 100 105

<210> 59

<211> 108

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic sequence

<400> 59

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

Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Asp Val Gly Thr Ala
 20 25 30

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

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Tyr Trp Ala Ser Thr Arg His Thr Gly Val Pro Ser Arg Phe Ser Gly
 50 55 60

Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
 65 70 75 80

Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ala Arg Thr Tyr Pro Phe
 85 90 95

Thr Phe Gly Ser Gly Thr Lys Leu Glu Ile Lys Arg
 100 105

<210> 60

<211> 108

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic sequence

<400> 60

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

Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Asp Val Gly Thr Ala
 20 25 30

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

Tyr Trp Ala Ser Thr Arg His Thr Gly Val Pro Ser Arg Phe Ser Gly
 50 55 60

Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
 65 70 75 80

Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ala Arg Ala Tyr Pro Phe
 85 90 95

Thr Phe Gly Ser Gly Thr Lys Leu Glu Ile Lys Arg
 100 105

<210> 61
 <211> 108
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> synthetic sequence

<400> 61

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

Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Asp Val Gly Thr Ala
 20 25 30

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

Tyr Trp Ala Ser Thr Arg His Thr Gly Val Pro Ser Arg Phe Ser Gly
 50 55 60

Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
 65 70 75 80

Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ala Lys Thr Tyr Pro Phe
 85 90 95

Thr Phe Gly Ser Gly Thr Lys Leu Glu Ile Lys Arg
 100 105

<210> 62
 <211> 108
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> synthetic sequence

<400> 62

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

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Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Asp Val Gly Thr Ala
20 25 30

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

Tyr Trp Ala Ser Thr Arg His Thr Gly Val Pro Ser Arg Phe Ser Gly
50 55 60

Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
65 70 75 80

Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ala Ala Ala Tyr Pro Phe
85 90 95

Thr Phe Gly Ser Gly Thr Lys Leu Glu Ile Lys Arg
100 105

<210> 63

<211> 108

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic sequence

<400> 63

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

Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Asp Val Gly Thr Ala
20 25 30

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

Tyr Trp Ala Ser Thr Arg His Thr Gly Val Pro Ser Arg Phe Ser Gly
50 55 60

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Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
65 70 75 80

Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ala Gln Thr Tyr Pro Phe
85 90 95

Thr Phe Gly Ser Gly Thr Lys Leu Glu Ile Lys Arg
100 105

<210> 64
<211> 108
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic sequence

<400> 64

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

Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Asp Val Gly Thr Ala
20 25 30

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

Tyr Trp Ala Ser Thr Arg His Thr Gly Val Pro Ser Arg Phe Ser Gly
50 55 60

Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
65 70 75 80

Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ala Gln Ala Tyr Pro Phe
85 90 95

Thr Phe Gly Ser Gly Thr Lys Leu Glu Ile Lys Arg
100 105

<210> 65
<211> 108

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<212> PRT
 <213> Artificial Sequence

<220>
 <223> synthetic sequence

<400> 65

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

Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Asp Val Gly Thr Ala
 20 25 30

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

Tyr Trp Ala Ser Thr Arg His Thr Gly Val Pro Ser Arg Phe Ser Gly
 50 55 60

Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
 65 70 75 80

Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ala Tyr Ser Tyr Pro Phe
 85 90 95

Thr Phe Gly Ser Gly Thr Lys Leu Glu Ile Lys Arg
 100 105

<210> 66
 <211> 108
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> synthetic sequence

<400> 66

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

Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Gly Ile Ser Ser Tyr
 20 25 30

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Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile
35 40 45

Tyr Ala Ala Ser Thr Leu Gln Ser Gly Val Pro Ser Arg Phe Ser Gly
50 55 60

Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
65 70 75 80

Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Cys Asn Ser Tyr Pro Phe
85 90 95

Thr Phe Gly Ser Gly Thr Lys Leu Glu Ile Lys Arg
100 105

<210> 67

<211> 139

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic sequence

<400> 67

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

Ala Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly
20 25 30

Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser
35 40 45

Tyr Trp Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp
50 55 60

Met Gly Thr Ile Tyr Pro Arg Asn Ser Asp Thr Asp Tyr Asn Gln Lys
65 70 75 80

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Phe Lys Ala Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val
 85 90 95

Tyr Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr
 100 105 110

Cys Ala Arg Pro Leu Tyr Tyr Tyr Val Thr Ser Pro Pro Thr Leu Leu
 115 120 125

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 130 135

<210> 68

<211> 139

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic sequence

<400> 68

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

Ala Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly
 20 25 30

Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser
 35 40 45

Tyr Trp Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp
 50 55 60

Met Gly Thr Ile Tyr Pro Arg Asn Ser Asp Thr Asp Tyr Asn Gln Lys
 65 70 75 80

Phe Lys Ala Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val
 85 90 95

Tyr Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr
 100 105 110

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Cys Ala Arg Pro Leu Tyr Tyr Tyr Val Thr Ser Pro Pro Thr Leu Leu
 115 120 125

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 130 135

<210> 69
 <211> 139
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> synthetic sequence

<400> 69

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

Ala Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly
 20 25 30

Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser
 35 40 45

Tyr Tyr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp
 50 55 60

Met Gly Ile Ile Asn Pro Ser Gly Gly Ser Thr Ser Tyr Ala Gln Lys
 65 70 75 80

Phe Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val
 85 90 95

Tyr Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr
 100 105 110

Cys Ala Arg Pro Leu Tyr Tyr Tyr Val Thr Ser Pro Pro Thr Leu Leu
 115 120 125

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Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 130 135

<210> 70
 <211> 139
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> synthetic sequence

<400> 70

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

Ala Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly
 20 25 30

Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser
 35 40 45

Tyr Trp Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp
 50 55 60

Met Gly Thr Ile Tyr Pro Arg Asn Ser Asp Thr Asp Tyr Asn Gln Lys
 65 70 75 80

Phe Lys Ala Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Ala
 85 90 95

Tyr Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr
 100 105 110

Cys Ala Arg Pro Leu Tyr Tyr Tyr Val Thr Ser Pro Pro Thr Leu Leu
 115 120 125

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 130 135

<210> 71
 <211> 139

719408_ST25

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic sequence

<400> 71

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

Ala Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly
 20 25 30

Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser
 35 40 45

Tyr Trp Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp
 50 55 60

Met Gly Thr Ile Asp Pro Arg Asn Ser Asp Thr Asp Tyr Asn Gln Lys
 65 70 75 80

Phe Lys Ala Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val
 85 90 95

Tyr Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr
 100 105 110

Cys Ala Arg Pro Leu Tyr Tyr Tyr Val Thr Ser Pro Pro Thr Leu Leu
 115 120 125

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 130 135

<210> 72

<211> 139

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic sequence

719408_ST25

<400> 72

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

Ala Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly
 20 25 30

Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser
 35 40 45

Tyr Trp Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp
 50 55 60

Met Gly Thr Ile Thr Pro Arg Asn Ser Asp Thr Asp Tyr Asn Gln Lys
 65 70 75 80

Phe Lys Ala Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val
 85 90 95

Tyr Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr
 100 105 110

Cys Ala Arg Pro Leu Tyr Tyr Tyr Val Thr Ser Pro Pro Thr Leu Leu
 115 120 125

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 130 135

<210> 73

<211> 139

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic sequence

<400> 73

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

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Ala Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly
 20 25 30

Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser
 35 40 45

Tyr Trp Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp
 50 55 60

Met Gly Thr Ile Asn Pro Arg Asn Ser Asp Thr Asp Tyr Asn Gln Lys
 65 70 75 80

Phe Lys Ala Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val
 85 90 95

Tyr Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr
 100 105 110

Cys Ala Arg Pro Leu Tyr Tyr Tyr Val Thr Ser Pro Pro Thr Leu Leu
 115 120 125

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 130 135

<210> 74
 <211> 139
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> synthetic sequence

<400> 74

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

Ala Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly
 20 25 30

Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser
 35 40 45

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Tyr Trp Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp
50 55 60

Met Gly Thr Ile Tyr Pro Arg Asn Ser Asp Thr Asp Tyr Asn Gln Lys
65 70 75 80

Phe Lys Ala Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val
85 90 95

Tyr Met Asp Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr
100 105 110

Cys Ala Arg Pro Leu Tyr Tyr Tyr Val Thr Ser Pro Pro Thr Leu Leu
115 120 125

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
130 135

<210> 75

<211> 139

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic sequence

<400> 75

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

Ala Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly
20 25 30

Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser
35 40 45

Tyr Trp Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp
50 55 60

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Met Gly Thr Ile Tyr Pro Arg Asn Ser Asp Thr Asp Tyr Asn Gln Lys
65 70 75 80

Phe Lys Ala Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val
85 90 95

Tyr Met Glu Leu Ser Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr
100 105 110

Cys Ala Arg Pro Leu Tyr Tyr Tyr Val Thr Ser Pro Pro Thr Leu Leu
115 120 125

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
130 135

<210> 76

<211> 139

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic sequence

<400> 76

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

Ala Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly
20 25 30

Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser
35 40 45

Tyr Phe Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp
50 55 60

Met Gly Thr Ile Tyr Pro Arg Asn Ser Asp Thr Asp Tyr Asn Gln Lys
65 70 75 80

Phe Lys Ala Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val
85 90 95

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Tyr Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr
100 105 110

Cys Ala Arg Pro Leu Tyr Tyr Tyr Val Thr Ser Pro Pro Thr Leu Leu
115 120 125

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
130 135

<210> 77

<211> 139

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic sequence

<400> 77

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

Ala Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly
20 25 30

Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Gly
35 40 45

Tyr Trp Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp
50 55 60

Met Gly Thr Ile Tyr Pro Arg Asn Ser Asp Thr Asp Tyr Asn Gln Lys
65 70 75 80

Phe Lys Ala Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val
85 90 95

Tyr Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr
100 105 110

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Cys Ala Arg Pro Leu Tyr Tyr Tyr Val Thr Ser Pro Pro Thr Leu Leu
 115 120 125

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 130 135

<210> 78

<211> 139

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic sequence

<400> 78

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

Ala Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly
 20 25 30

Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ala
 35 40 45

Tyr Trp Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp
 50 55 60

Met Gly Thr Ile Tyr Pro Arg Asn Ser Asp Thr Asp Tyr Asn Gln Lys
 65 70 75 80

Phe Lys Ala Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val
 85 90 95

Tyr Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr
 100 105 110

Cys Ala Arg Pro Leu Tyr Tyr Tyr Val Thr Ser Pro Pro Thr Leu Leu
 115 120 125

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 130 135

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<210> 79
 <211> 139
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> synthetic sequence

<400> 79

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

Ala Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly
 20 25 30

Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asn
 35 40 45

Tyr Trp Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp
 50 55 60

Met Gly Thr Ile Tyr Pro Arg Asn Ser Asp Thr Asp Tyr Asn Gln Lys
 65 70 75 80

Phe Lys Ala Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val
 85 90 95

Tyr Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr
 100 105 110

Cys Ala Arg Pro Leu Tyr Tyr Tyr Val Thr Ser Pro Pro Thr Leu Leu
 115 120 125

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 130 135

<210> 80
 <211> 139
 <212> PRT
 <213> Artificial Sequence

719408_ST25

<220>

<223> synthetic sequence

<400> 80

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

Ala Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly
20 25 30

Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Thr
35 40 45

Tyr Trp Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp
50 55 60

Met Gly Thr Ile Tyr Pro Arg Asn Ser Asp Thr Asp Tyr Asn Gln Lys
65 70 75 80

Phe Lys Ala Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val
85 90 95

Tyr Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr
100 105 110

Cys Ala Arg Pro Leu Tyr Tyr Tyr Val Thr Ser Pro Pro Thr Leu Leu
115 120 125

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
130 135

<210> 81

<211> 139

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic sequence

<400> 81

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

Ala Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly
 20 25 30

Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser
 35 40 45

His Trp Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp
 50 55 60

Met Gly Thr Ile Tyr Pro Arg Asn Ser Asp Thr Asp Tyr Asn Gln Lys
 65 70 75 80

Phe Lys Ala Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val
 85 90 95

Tyr Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr
 100 105 110

Cys Ala Arg Pro Leu Tyr Tyr Tyr Val Thr Ser Pro Pro Thr Leu Leu
 115 120 125

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 130 135

<210> 82

<211> 139

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic sequence

<400> 82

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

Ala Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly
 20 25 30

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Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser
35 40 45

Tyr Trp Met His Trp Val Arg Gln Ala Pro Gly Gln His Leu Glu Trp
50 55 60

Met Gly Thr Ile Tyr Pro Arg Asn Ser Asp Thr Asp Tyr Asn Gln Lys
65 70 75 80

Phe Lys Ala Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val
85 90 95

Tyr Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr
100 105 110

Cys Ala Arg Pro Leu Tyr Tyr Tyr Val Thr Ser Pro Pro Thr Leu Leu
115 120 125

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
130 135

<210> 83

<211> 139

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic sequence

<400> 83

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

Ala Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly
20 25 30

Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser
35 40 45

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Tyr Trp Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp
50 55 60

Met Gly Thr Ile Tyr Pro Arg Asn Ser Asp Thr Asp Tyr Asn Gln Lys
65 70 75 80

Phe Lys Ala Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val
85 90 95

Tyr Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Ile Tyr Tyr
100 105 110

Cys Ala Arg Pro Leu Tyr Tyr Tyr Val Thr Ser Pro Pro Thr Leu Leu
115 120 125

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
130 135

<210> 84
<211> 139
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic sequence

<400> 84

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

Ala Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly
20 25 30

Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser
35 40 45

Tyr Trp Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp
50 55 60

Met Gly Thr Ile Tyr Pro Arg Asn Ser Asp Thr Asp Tyr Asn Gln Lys
65 70 75 80

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Phe Lys Ala Arg Val Thr Met Thr Arg Asp Thr Ser Thr Asn Thr Val
85 90 95

Tyr Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr
100 105 110

Cys Ala Arg Pro Leu Tyr Tyr Tyr Val Thr Ser Pro Pro Thr Leu Leu
115 120 125

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
130 135

<210> 85

<211> 139

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic sequence

<400> 85

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

Ala Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly
20 25 30

Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser
35 40 45

Tyr Trp Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp
50 55 60

Met Gly Thr Ile Tyr Pro Arg Asn Ser Asp Thr Asp Tyr Asn Gln Lys
65 70 75 80

Phe Lys Ala Arg Val Thr Met Thr Arg Asp Thr Ser Thr Thr Thr Val
85 90 95

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Tyr Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr
100 105 110

Cys Ala Arg Pro Leu Tyr Tyr Tyr Val Thr Ser Pro Pro Thr Leu Leu
115 120 125

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
130 135

<210> 86

<211> 139

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic sequence

<400> 86

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

Ala Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly
20 25 30

Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser
35 40 45

Tyr Trp Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp
50 55 60

Met Gly Thr Ile Tyr Pro Arg Asn Ser Asp Thr Asp Tyr Asn Gln Lys
65 70 75 80

Phe Lys Ala Arg Val Thr Met Thr Arg Asp Thr Ser Thr Arg Thr Val
85 90 95

Tyr Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr
100 105 110

Cys Ala Arg Pro Leu Tyr Tyr Tyr Val Thr Ser Pro Pro Thr Leu Leu
115 120 125

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 130 135

<210> 87
 <211> 139
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> synthetic sequence

<400> 87

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

Ala Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly
 20 25 30

Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Ser Ser
 35 40 45

Tyr Trp Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp
 50 55 60

Met Gly Thr Ile Tyr Pro Arg Asn Ser Asp Thr Asp Tyr Asn Gln Lys
 65 70 75 80

Phe Lys Ala Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val
 85 90 95

Tyr Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr
 100 105 110

Cys Ala Arg Pro Leu Tyr Tyr Tyr Val Thr Ser Pro Pro Thr Leu Leu
 115 120 125

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 130 135

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<210> 88
 <211> 139
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> synthetic sequence

<400> 88

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

Ala Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly
 20 25 30

Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe His Ser
 35 40 45

Tyr Trp Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp
 50 55 60

Met Gly Thr Ile Tyr Pro Arg Asn Ser Asp Thr Asp Tyr Asn Gln Lys
 65 70 75 80

Phe Lys Ala Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val
 85 90 95

Tyr Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr
 100 105 110

Cys Ala Arg Pro Leu Tyr Tyr Tyr Val Thr Ser Pro Pro Thr Leu Leu
 115 120 125

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 130 135

<210> 89
 <211> 139
 <212> PRT
 <213> Artificial Sequence

<220>

719408_ST25

<223> synthetic sequence

<400> 89

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

Ala Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly
 20 25 30

Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser
 35 40 45

Tyr Trp Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp
 50 55 60

Met Gly Thr Ile Tyr Pro Arg Asn Ser Asp Thr Asp Tyr Asn Gln Lys
 65 70 75 80

Phe Lys Ala Arg Val Thr Met Ser Arg Asp Thr Ser Thr Ser Thr Val
 85 90 95

Tyr Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr
 100 105 110

Cys Ala Arg Pro Leu Tyr Tyr Tyr Val Thr Ser Pro Pro Thr Leu Leu
 115 120 125

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 130 135

<210> 90

<211> 139

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic sequence

<400> 90

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

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Ala Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly
20 25 30

Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser
35 40 45

Tyr Trp Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp
50 55 60

Met Gly Thr Ile Tyr Pro Arg Asn Ser Asp Thr Asp Tyr Asn Gln Lys
65 70 75 80

Phe Lys Ala Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val
85 90 95

Tyr Met Glu Leu Ser Ser Leu Thr Ser Glu Asp Thr Ala Val Tyr Tyr
100 105 110

Cys Ala Arg Pro Leu Tyr Tyr Tyr Val Thr Ser Pro Pro Thr Leu Leu
115 120 125

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
130 135

<210> 91
<211> 139
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic sequence

<400> 91

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

Ala Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly
20 25 30

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Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser
 35 40 45

Tyr Trp Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp
 50 55 60

Met Gly Thr Ile Tyr Pro Arg Asn Ser Asp Thr Asp Tyr Asn Gln Lys
 65 70 75 80

Phe Lys Ala Arg Val Thr Val Thr Arg Asp Thr Ser Thr Ser Thr Val
 85 90 95

Tyr Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr
 100 105 110

Cys Ala Arg Pro Leu Tyr Tyr Tyr Val Thr Ser Pro Pro Thr Leu Leu
 115 120 125

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 130 135

<210> 92

<211> 139

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic sequence

<400> 92

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

Ala Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly
 20 25 30

Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Asn Phe Thr Ser
 35 40 45

Tyr Trp Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp
 50 55 60

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Met Gly Thr Ile Tyr Pro Arg Asn Ser Asp Thr Asp Tyr Asn Gln Lys
65 70 75 80

Phe Lys Ala Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val
85 90 95

Tyr Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr
100 105 110

Cys Ala Arg Pro Leu Tyr Tyr Tyr Val Thr Ser Pro Pro Thr Leu Leu
115 120 125

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
130 135

<210> 93
<211> 139
<212> PRT
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<220>
<223> synthetic sequence

<400> 93

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

Ala Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly
20 25 30

Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Ile Phe Thr Ser
35 40 45

Tyr Trp Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp
50 55 60

Met Gly Thr Ile Tyr Pro Arg Asn Ser Asp Thr Asp Tyr Asn Gln Lys
65 70 75 80

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Phe Lys Ala Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val
85 90 95

Tyr Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr
100 105 110

Cys Ala Arg Pro Leu Tyr Tyr Tyr Val Thr Ser Pro Pro Thr Leu Leu
115 120 125

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
130 135

<210> 94

<211> 139

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic sequence

<400> 94

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

Ala Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly
20 25 30

Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Ser Phe Thr Ser
35 40 45

Tyr Trp Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp
50 55 60

Met Gly Thr Ile Tyr Pro Arg Asn Ser Asp Thr Asp Tyr Asn Gln Lys
65 70 75 80

Phe Lys Ala Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val
85 90 95

Tyr Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr
100 105 110

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Cys Ala Arg Pro Leu Tyr Tyr Tyr Val Thr Ser Pro Pro Thr Leu Leu
115 120 125

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
130 135

<210> 95
<211> 139
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic sequence

<400> 95

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

Ala Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly
20 25 30

Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser
35 40 45

Phe Trp Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp
50 55 60

Met Gly Thr Ile Tyr Pro Arg Asn Ser Asp Thr Asp Tyr Asn Gln Lys
65 70 75 80

Phe Lys Ala Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val
85 90 95

Tyr Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr
100 105 110

Cys Ala Arg Pro Leu Tyr Tyr Tyr Val Thr Ser Pro Pro Thr Leu Leu
115 120 125

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Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 130 135

<210> 96
 <211> 139
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> synthetic sequence

<400> 96

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

Ala Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly
 20 25 30

Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser
 35 40 45

Tyr Trp Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp
 50 55 60

Met Gly Thr Asn Tyr Pro Arg Asn Ser Asp Thr Asp Tyr Asn Gln Lys
 65 70 75 80

Phe Lys Ala Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val
 85 90 95

Tyr Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr
 100 105 110

Cys Ala Arg Pro Leu Tyr Tyr Tyr Val Thr Ser Pro Pro Thr Leu Leu
 115 120 125

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 130 135

<210> 97
 <211> 139

719408_ST25

<212> PRT
 <213> Artificial Sequence

<220>
 <223> synthetic sequence

<400> 97

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

Ala Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly
 20 25 30

Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser
 35 40 45

Tyr Trp Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp
 50 55 60

Met Gly Thr Leu Tyr Pro Arg Asn Ser Asp Thr Asp Tyr Asn Gln Lys
 65 70 75 80

Phe Lys Ala Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val
 85 90 95

Tyr Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr
 100 105 110

Cys Ala Arg Pro Leu Tyr Tyr Tyr Val Thr Ser Pro Pro Thr Leu Leu
 115 120 125

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 130 135

<210> 98
 <211> 139
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> synthetic sequence

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<400> 98

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

Ala Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly
 20 25 30

Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser
 35 40 45

Tyr Trp Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp
 50 55 60

Met Gly Thr Val Tyr Pro Arg Asn Ser Asp Thr Asp Tyr Asn Gln Lys
 65 70 75 80

Phe Lys Ala Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val
 85 90 95

Tyr Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr
 100 105 110

Cys Ala Arg Pro Leu Tyr Tyr Tyr Val Thr Ser Pro Pro Thr Leu Leu
 115 120 125

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 130 135

<210> 99

<211> 139

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic sequence

<400> 99

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

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Ala Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly
20 25 30

Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser
35 40 45

Tyr Trp Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp
50 55 60

Met Gly Thr Phe Tyr Pro Arg Asn Ser Asp Thr Asp Tyr Asn Gln Lys
65 70 75 80

Phe Lys Ala Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val
85 90 95

Tyr Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr
100 105 110

Cys Ala Arg Pro Leu Tyr Tyr Tyr Val Thr Ser Pro Pro Thr Leu Leu
115 120 125

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
130 135

<210> 100
<211> 139
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic sequence

<400> 100

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

Ala Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly
20 25 30

Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser
35 40 45

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Tyr Trp Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp
50 55 60

Met Gly Thr Ile Tyr Pro Arg Asn Ser Asp Ile Asp Tyr Asn Gln Lys
65 70 75 80

Phe Lys Ala Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val
85 90 95

Tyr Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr
100 105 110

Cys Ala Arg Pro Leu Tyr Tyr Tyr Val Thr Ser Pro Pro Thr Leu Leu
115 120 125

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
130 135

<210> 101
<211> 139
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic sequence

<400> 101

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

Ala Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly
20 25 30

Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser
35 40 45

Tyr Trp Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp
50 55 60

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Met Gly Thr Ile Tyr Pro Arg Asn Ser Asp Thr Asp Tyr Asn Gln Arg
65 70 75 80

Phe Lys Ala Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val
85 90 95

Tyr Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr
100 105 110

Cys Ala Arg Pro Leu Tyr Tyr Tyr Val Thr Ser Pro Pro Thr Leu Leu
115 120 125

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
130 135

<210> 102
<211> 139
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic sequence

<400> 102

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

Ala Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly
20 25 30

Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser
35 40 45

Tyr Trp Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp
50 55 60

Met Gly Thr Ile Tyr Pro Arg Asn Ser Asp Thr Asp Tyr Asn Gln Asn
65 70 75 80

Phe Lys Ala Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val
85 90 95

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Tyr Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr
 100 105 110

Cys Ala Arg Pro Leu Tyr Tyr Tyr Val Thr Ser Pro Pro Thr Leu Leu
 115 120 125

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 130 135

<210> 103
 <211> 139
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> synthetic sequence

<400> 103

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

Ala Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly
 20 25 30

Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser
 35 40 45

Tyr Trp Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp
 50 55 60

Met Gly Thr Ile Tyr Pro Arg Asn Ser Asp Thr Asp Tyr Asn Gln Lys
 65 70 75 80

Phe Lys Ala Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val
 85 90 95

Tyr Met Glu Leu Arg Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr
 100 105 110

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Cys Ala Arg Pro Leu Tyr Tyr Tyr Val Thr Ser Pro Pro Thr Leu Leu
 115 120 125

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 130 135

<210> 104

<211> 139

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic sequence

<400> 104

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

Ala Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly
 20 25 30

Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser
 35 40 45

Tyr Trp Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp
 50 55 60

Met Gly Thr Ile Tyr Pro Arg Asn Ser Asp Thr Asp Tyr Asn Gln Lys
 65 70 75 80

Phe Lys Ala Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Thr
 85 90 95

Tyr Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr
 100 105 110

Cys Ala Arg Pro Leu Tyr Tyr Tyr Val Thr Ser Pro Pro Thr Leu Leu
 115 120 125

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 130 135

<210> 105
 <211> 139
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> synthetic sequence

<400> 105

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

Ala Gln Val Gln Leu Val Glu Ser Gly Ala Glu Val Lys Lys Pro Gly
 20 25 30

Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser
 35 40 45

Tyr Trp Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp
 50 55 60

Met Gly Thr Ile Tyr Pro Arg Asn Ser Asp Thr Asp Tyr Asn Gln Lys
 65 70 75 80

Phe Lys Ala Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val
 85 90 95

Tyr Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr
 100 105 110

Cys Ala Arg Pro Leu Tyr Tyr Tyr Val Thr Ser Pro Pro Thr Leu Leu
 115 120 125

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 130 135

<210> 106
 <211> 139
 <212> PRT
 <213> Artificial Sequence

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<220>

<223> synthetic sequence

<400> 106

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

Ala Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly
20 25 30

Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asp
35 40 45

Tyr Trp Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp
50 55 60

Met Gly Thr Ile Tyr Pro Arg Asn Ser Asp Thr Asp Tyr Asn Gln Lys
65 70 75 80

Phe Lys Ala Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val
85 90 95

Tyr Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr
100 105 110

Cys Ala Arg Pro Leu Tyr Tyr Tyr Val Thr Ser Pro Pro Thr Leu Leu
115 120 125

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
130 135

<210> 107

<211> 139

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic sequence

<400> 107

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

Ala Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly
 20 25 30

Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser
 35 40 45

Tyr Trp Ile His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp
 50 55 60

Met Gly Thr Ile Tyr Pro Arg Asn Ser Asp Thr Asp Tyr Asn Gln Lys
 65 70 75 80

Phe Lys Ala Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val
 85 90 95

Tyr Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr
 100 105 110

Cys Ala Arg Pro Leu Tyr Tyr Tyr Val Thr Ser Pro Pro Thr Leu Leu
 115 120 125

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 130 135

<210> 108
 <211> 139
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> synthetic sequence

<400> 108

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

Ala Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly
 20 25 30

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Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser
35 40 45

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

Met Gly Thr Ile Tyr Pro Arg Asn Ser Asp Thr Asp Tyr Asn Gln Lys
65 70 75 80

Phe Lys Ala Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val
85 90 95

Tyr Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr
100 105 110

Cys Ala Arg Pro Leu Tyr Tyr Tyr Val Thr Ser Pro Pro Thr Leu Leu
115 120 125

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
130 135

<210> 109
<211> 139
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic sequence

<400> 109

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

Ala Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly
20 25 30

Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser
35 40 45

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Tyr Trp Met Asn Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp
 50 55 60

Met Gly Thr Ile Tyr Pro Arg Asn Ser Asp Thr Asp Tyr Asn Gln Lys
 65 70 75 80

Phe Lys Ala Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val
 85 90 95

Tyr Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr
 100 105 110

Cys Ala Arg Pro Leu Tyr Tyr Tyr Val Thr Ser Pro Pro Thr Leu Leu
 115 120 125

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 130 135

<210> 110
 <211> 139
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> synthetic sequence

<400> 110

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

Ala Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly
 20 25 30

Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser
 35 40 45

Tyr Trp Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp
 50 55 60

Met Gly Thr Ile Tyr Pro Arg Asn Ser Asp Thr Asp His Asn Gln Lys
 65 70 75 80

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Phe Lys Ala Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val
85 90 95

Tyr Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr
100 105 110

Cys Ala Arg Pro Leu Tyr Tyr Tyr Val Thr Ser Pro Pro Thr Leu Leu
115 120 125

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
130 135

<210> 111
<211> 139
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic sequence

<400> 111

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

Ala Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly
20 25 30

Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser
35 40 45

Tyr Trp Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp
50 55 60

Met Gly Thr Ile Tyr Pro Arg Asn Ser Asp Thr Asp Phe Asn Gln Lys
65 70 75 80

Phe Lys Ala Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val
85 90 95

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Tyr Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr
 100 105 110

Cys Ala Arg Pro Leu Tyr Tyr Tyr Val Thr Ser Pro Pro Thr Leu Leu
 115 120 125

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 130 135

<210> 112

<211> 139

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic sequence

<400> 112

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

Ala Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly
 20 25 30

Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser
 35 40 45

Tyr Trp Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp
 50 55 60

Met Gly Thr Ile Tyr Pro Arg Asn Ser Asp Thr Asp Tyr Asn Gln Lys
 65 70 75 80

Phe Lys Ala Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Ile Val
 85 90 95

Tyr Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr
 100 105 110

Cys Ala Arg Pro Leu Tyr Tyr Tyr Val Thr Ser Pro Pro Thr Leu Leu
 115 120 125

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Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
130 135

<210> 113
<211> 139
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic sequence

<400> 113

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

Ala Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly
20 25 30

Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser
35 40 45

His Trp Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp
50 55 60

Met Gly Thr Ile Tyr Pro Arg Asn Ser Asp Thr Asp Tyr Asn Gln Lys
65 70 75 80

Phe Lys Ala Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Ile Val
85 90 95

Tyr Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr
100 105 110

Cys Ala Arg Pro Leu Tyr Tyr Tyr Val Thr Ser Pro Pro Thr Leu Leu
115 120 125

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
130 135

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<210> 114
 <211> 139
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> synthetic sequence

<400> 114

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

Ala Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly
 20 25 30

Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser
 35 40 45

Tyr Trp Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp
 50 55 60

Met Gly Thr Ile Tyr Pro Arg Asn Ser Asp Thr Asp Tyr Asn Gln Lys
 65 70 75 80

Phe Lys Ala Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val
 85 90 95

Tyr Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr
 100 105 110

Cys Ala Arg Pro Leu Tyr Tyr Tyr Ile Thr Ser Pro Pro Thr Leu Leu
 115 120 125

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 130 135

<210> 115
 <211> 139
 <212> PRT
 <213> Artificial Sequence

<220>

719408_ST25

<223> synthetic sequence

<400> 115

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

Ala Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly
 20 25 30

Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser
 35 40 45

Tyr Trp Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp
 50 55 60

Met Gly Thr Ile Tyr Pro Arg Asn Ser Asp Thr Asp Tyr Asn Gln Lys
 65 70 75 80

Phe Lys Ala Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val
 85 90 95

Tyr Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr
 100 105 110

Cys Ala Arg Pro Leu Tyr Tyr Tyr Leu Thr Ser Pro Pro Thr Leu Leu
 115 120 125

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 130 135

<210> 116

<211> 139

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic sequence

<400> 116

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

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Ala Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly
20 25 30

Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser
35 40 45

Tyr Trp Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp
50 55 60

Met Gly Thr Ile Tyr Pro Arg Asn Ser Asp Thr Asp Tyr Asn Gln Lys
65 70 75 80

Phe Lys Ala Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val
85 90 95

Tyr Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr
100 105 110

Cys Ala Arg Pro Leu Tyr Tyr Tyr Leu Thr Ser Pro Pro Thr Leu Leu
115 120 125

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
130 135

<210> 117
<211> 139
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic sequence

<400> 117

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

Ala Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly
20 25 30

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Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser
35 40 45

Tyr Trp Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp
50 55 60

Met Gly Thr Ile Tyr Pro Arg Asn Ser Asp Thr Asp Tyr Asn Gln Lys
65 70 75 80

Phe Lys Ala Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val
85 90 95

Tyr Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr
100 105 110

Cys Ala Arg Pro Leu Tyr Tyr Tyr Asp Thr Ser Pro Pro Thr Leu Leu
115 120 125

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
130 135

<210> 118
<211> 139
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic sequence

<400> 118

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

Ala Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly
20 25 30

Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser
35 40 45

Tyr Trp Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp
50 55 60

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Met Gly Thr Ile Tyr Pro Arg Asn Ser Asp Thr Asp Tyr Asn Gln Lys
65 70 75 80

Phe Lys Ala Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val
85 90 95

Tyr Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr
100 105 110

Cys Ala Arg Pro Leu Tyr Tyr Tyr Phe Thr Ser Pro Pro Thr Leu Leu
115 120 125

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
130 135

<210> 119
<211> 139
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic sequence

<400> 119

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

Ala Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly
20 25 30

Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser
35 40 45

Tyr Trp Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp
50 55 60

Met Gly Thr Ile Tyr Pro Arg Asn Ser Asp Thr Asp Tyr Asn Gln Lys
65 70 75 80

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Phe Lys Ala Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val
 85 90 95

Tyr Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr
 100 105 110

Cys Ala Arg Pro Leu Tyr Tyr Tyr Ala Thr Ser Pro Pro Thr Leu Leu
 115 120 125

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 130 135

<210> 120
 <211> 139
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> synthetic sequence

<400> 120

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

Ala Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly
 20 25 30

Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser
 35 40 45

Tyr Trp Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp
 50 55 60

Met Gly Thr Ile Tyr Pro Arg Asn Ser Asp Thr Asp Tyr Asn Gln Lys
 65 70 75 80

Phe Lys Ala Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val
 85 90 95

Tyr Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr
 100 105 110

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Cys Ala Arg Pro Leu Tyr Tyr Tyr Gly Thr Ser Pro Pro Thr Leu Leu
 115 120 125

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 130 135

<210> 121
 <211> 139
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> synthetic sequence

<400> 121

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

Ala Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly
 20 25 30

Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser
 35 40 45

Tyr Trp Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp
 50 55 60

Met Gly Thr Ile Tyr Pro Arg Asn Ser Asp Thr Asp Tyr Asn Gln Lys
 65 70 75 80

Phe Lys Ala Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val
 85 90 95

Tyr Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr
 100 105 110

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

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Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 130 135

<210> 122
 <211> 139
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> synthetic sequence

<400> 122

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

Ala Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly
 20 25 30

Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser
 35 40 45

Tyr Trp Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp
 50 55 60

Met Gly Thr Ile Tyr Pro Arg Asn Ser Asp Thr Asp Tyr Asn Gln Lys
 65 70 75 80

Phe Lys Ala Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val
 85 90 95

Tyr Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr
 100 105 110

Cys Ala Arg Pro Leu Tyr Tyr Tyr Val Thr Ser Pro Pro Thr Leu Val
 115 120 125

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 130 135

<210> 123
 <211> 139

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<212> PRT
 <213> Artificial Sequence

<220>
 <223> synthetic sequence

<400> 123

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

Ala Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly
 20 25 30

Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser
 35 40 45

Tyr Trp Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp
 50 55 60

Met Gly Thr Ile Tyr Pro Arg Asn Ser Asp Thr Asp Tyr Asn Gln Lys
 65 70 75 80

Phe Lys Ala Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val
 85 90 95

Tyr Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr
 100 105 110

Cys Ala Arg Pro Leu Tyr Tyr Tyr Val Thr Ser Pro Pro Thr Leu Pro
 115 120 125

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 130 135

<210> 124
 <211> 139
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> synthetic sequence

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<400> 124

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

Ala Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly
 20 25 30

Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser
 35 40 45

Tyr Trp Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp
 50 55 60

Met Gly Thr Ile Tyr Pro Arg Asn Ser Asp Thr Asp Tyr Asn Gln Lys
 65 70 75 80

Phe Lys Ala Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val
 85 90 95

Tyr Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr
 100 105 110

Cys Ala Arg Pro Leu Tyr Tyr Tyr Leu Thr Ser Pro Pro Thr Leu Phe
 115 120 125

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 130 135

<210> 125

<211> 139

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic sequence

<400> 125

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

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Ala Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly
20 25 30

Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser
35 40 45

Tyr Trp Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp
50 55 60

Met Gly Thr Ile Tyr Pro Arg Asn Ser Asn Thr Asp Tyr Asn Gln Lys
65 70 75 80

Phe Lys Ala Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val
85 90 95

Tyr Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr
100 105 110

Cys Ala Arg Pro Leu Tyr Tyr Tyr Val Thr Ser Pro Pro Thr Leu Leu
115 120 125

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
130 135

<210> 126
<211> 139
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic sequence

<400> 126

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

Ala Gln Val Gln Leu Met Gln Ser Gly Ala Glu Val Lys Lys Pro Gly
20 25 30

Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser
35 40 45

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Tyr Trp Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp
50 55 60

Met Gly Thr Ile Tyr Pro Arg Asn Ser Asp Thr Asp Tyr Asn Gln Lys
65 70 75 80

Phe Lys Ala Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val
85 90 95

Tyr Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr
100 105 110

Cys Ala Arg Pro Leu Tyr Tyr Tyr Val Thr Ser Pro Pro Thr Leu Leu
115 120 125

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
130 135

<210> 127
<211> 139
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic sequence

<400> 127

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

Ala Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly
20 25 30

Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser
35 40 45

Tyr Trp Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp
50 55 60

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Met Gly Thr Ile Tyr Pro Arg Asn Ser Asp Thr Asp Tyr Asn Gln Lys
65 70 75 80

Phe Lys Ala Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val
85 90 95

Tyr Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr
100 105 110

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

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
130 135

<210> 128

<211> 139

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic sequence

<400> 128

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

Ala Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly
20 25 30

Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser
35 40 45

Tyr Trp Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp
50 55 60

Met Gly Ile Ile Tyr Pro Arg Asn Ser Asp Thr Asp Tyr Asn Gln Lys
65 70 75 80

Phe Lys Ala Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val
85 90 95

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Tyr Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr
100 105 110

Cys Ala Arg Pro Leu Tyr Tyr Tyr Val Thr Ser Pro Pro Thr Leu Leu
115 120 125

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
130 135

<210> 129
<211> 139
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic sequence

<400> 129

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

Ala Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly
20 25 30

Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser
35 40 45

Tyr Trp Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp
50 55 60

Met Gly Thr Ile Tyr Pro Arg Asn Ser Asp Thr Asp Tyr Asn Gln Lys
65 70 75 80

Phe Lys Ala Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val
85 90 95

Tyr Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr
100 105 110

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Cys Ala Arg Pro Leu Tyr Tyr Tyr Val Ile Ser Pro Pro Thr Leu Leu
 115 120 125

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 130 135

<210> 130

<211> 139

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic sequence

<400> 130

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

Ala Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly
 20 25 30

Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser
 35 40 45

Tyr Trp Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp
 50 55 60

Met Gly Thr Ile Tyr Pro Arg Asn Ser Asp Thr Asp Tyr Asn Gln Lys
 65 70 75 80

Phe Lys Ala Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val
 85 90 95

Tyr Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr
 100 105 110

Cys Ala Arg Pro Leu Tyr Tyr Tyr Val Thr Ser Pro Pro Thr Leu Leu
 115 120 125

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 130 135

<210> 131
 <211> 139
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> synthetic sequence

<400> 131

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

Ala Gln Val Gln Leu Met Gln Ser Gly Ala Glu Val Lys Lys Pro Gly
 20 25 30

Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser
 35 40 45

Tyr Trp Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp
 50 55 60

Met Gly Thr Ile Tyr Pro Arg Asn Ser Asn Thr Asp Tyr Asn Gln Lys
 65 70 75 80

Phe Lys Ala Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val
 85 90 95

Tyr Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr
 100 105 110

Cys Ala Arg Pro Leu Tyr Tyr Tyr Leu Thr Ser Pro Pro Thr Leu Phe
 115 120 125

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 130 135

<210> 132
 <211> 139
 <212> PRT
 <213> Artificial Sequence

<220>

<223> synthetic sequence

<400> 132

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

Ala Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly
 20 25 30

Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser
 35 40 45

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

Met Gly Thr Ile Tyr Pro Arg Asn Ser Asp Thr Asp Tyr Asn Gln Lys
 65 70 75 80

Phe Lys Ala Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val
 85 90 95

Tyr Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr
 100 105 110

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

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 130 135

<210> 133

<211> 139

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic sequence

<400> 133

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

Ala Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly
 20 25 30

Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser
 35 40 45

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

Met Gly Thr Ile Tyr Pro Arg Asn Ser Asp Thr Asp Tyr Asn Gln Lys
 65 70 75 80

Phe Lys Ala Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val
 85 90 95

Tyr Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr
 100 105 110

Cys Ala Arg Pro Leu Tyr Tyr Tyr Val Thr Ser Pro Pro Thr Leu Leu
 115 120 125

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 130 135

<210> 134
 <211> 139
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> synthetic sequence

<400> 134

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

Ala Gln Val Gln Leu Met Gln Ser Gly Ala Glu Val Lys Lys Pro Gly
 20 25 30

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Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser
35 40 45

Tyr Trp Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp
50 55 60

Met Gly Thr Ile Tyr Pro Arg Asn Ser Asn Thr Asp Tyr Asn Gln Lys
65 70 75 80

Phe Lys Ala Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val
85 90 95

Tyr Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr
100 105 110

Cys Ala Arg Pro Leu Tyr Tyr Tyr Leu Thr Ser Pro Pro Thr Leu Leu
115 120 125

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
130 135

<210> 135
<211> 139
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic sequence

<400> 135

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

Ala Gln Val Gln Leu Met Gln Ser Gly Ala Glu Val Lys Lys Pro Gly
20 25 30

Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser
35 40 45

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Tyr Trp Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp
 50 55 60

Met Gly Thr Ile Tyr Pro Arg Asn Ser Asn Thr Asp Tyr Asn Gln Lys
 65 70 75 80

Phe Lys Ala Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val
 85 90 95

Tyr Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr
 100 105 110

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

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 130 135

<210> 136
 <211> 139
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> synthetic sequence

<400> 136

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

Ala Gln Val Gln Leu Met Gln Ser Gly Ala Glu Val Lys Lys Pro Gly
 20 25 30

Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser
 35 40 45

Tyr Trp Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp
 50 55 60

Met Gly Thr Ile Tyr Pro Arg Asn Ser Asn Thr Asp Tyr Asn Gln Lys
 65 70 75 80

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Phe Lys Ala Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val
85 90 95

Tyr Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr
100 105 110

Cys Ala Arg Pro Leu Tyr Tyr Tyr Leu Thr Ser Pro Pro Thr Leu Phe
115 120 125

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
130 135

<210> 137
<211> 139
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic sequence

<400> 137

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

Ala Gln Val Gln Leu Met Gln Ser Gly Ala Glu Val Lys Lys Pro Gly
20 25 30

Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser
35 40 45

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

Met Gly Thr Ile Tyr Pro Arg Asn Ser Asn Thr Asp Tyr Asn Gln Lys
65 70 75 80

Phe Lys Ala Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val
85 90 95

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Tyr Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr
 100 105 110

Cys Ala Arg Pro Leu Tyr Tyr Tyr Leu Thr Ser Pro Pro Thr Leu Phe
 115 120 125

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 130 135

<210> 138

<211> 139

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic sequence

<400> 138

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

Ala Gln Val Gln Leu Met Gln Ser Gly Ala Glu Val Lys Lys Pro Gly
 20 25 30

Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser
 35 40 45

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

Met Gly Thr Ile Tyr Pro Arg Asn Ser Asn Thr Asp Tyr Asn Gln Lys
 65 70 75 80

Phe Lys Ala Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val
 85 90 95

Tyr Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr
 100 105 110

Cys Ala Arg Pro Leu Tyr Tyr Tyr Leu Thr Ser Pro Pro Thr Leu Leu
 115 120 125

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 130 135

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

<220>
 <223> synthetic sequence

<400> 139

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

Ala Gln Val Gln Leu Met Gln Ser Gly Ala Glu Val Lys Lys Pro Gly
 20 25 30

Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser
 35 40 45

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

Met Gly Thr Ile Tyr Pro Arg Asn Ser Asn Thr Asp Tyr Asn Gln Lys
 65 70 75 80

Phe Lys Ala Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val
 85 90 95

Tyr Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr
 100 105 110

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

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 130 135

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<210> 140
 <211> 139
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> synthetic sequence

<400> 140

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

Ala Gln Val Gln Leu Met Gln Ser Gly Ala Glu Val Lys Lys Pro Gly
 20 25 30

Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser
 35 40 45

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

Met Gly Thr Ile Tyr Pro Arg Asn Ser Asn Thr Asp Tyr Asn Gln Lys
 65 70 75 80

Phe Lys Ala Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val
 85 90 95

Tyr Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr
 100 105 110

Cys Ala Arg Pro Leu Tyr Tyr Tyr Leu Thr Ser Pro Pro Thr Leu Phe
 115 120 125

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 130 135

<210> 141
 <211> 125
 <212> PRT
 <213> Artificial Sequence

<220>

<223> synthetic sequence

<400> 141

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

Ala Asp Ile Gln Leu Thr Gln Ser Pro Ser Phe Leu Ser Ala Ser Val
 20 25 30

Gly Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Asp Val Gly Thr
 35 40 45

Ala Val Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu
 50 55 60

Ile Tyr Trp Ala Ser Thr Arg His Thr Gly Val Pro Ser Arg Phe Ser
 65 70 75 80

Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln
 85 90 95

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Cys Asn Ser Tyr Pro
 100 105 110

Phe Thr Phe Gly Ser Gly Thr Lys Leu Glu Ile Lys Arg
 115 120 125

<210> 142

<211> 125

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic sequence

<400> 142

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

Ala Asp Ile Gln Leu Thr Gln Ser Pro Ser Phe Leu Ser Ala Ser Val
 20 25 30

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Gly Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Asp Val Gly Thr
35 40 45

Ala Val Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu
50 55 60

Ile Tyr Trp Ala Ser Thr Arg His Thr Gly Val Pro Ser Arg Phe Ser
65 70 75 80

Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln
85 90 95

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ala Gln Ser Tyr Pro
100 105 110

Phe Thr Phe Gly Ser Gly Thr Lys Leu Glu Ile Lys Arg
115 120 125

<210> 143
<211> 125
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic sequence

<400> 143

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

Ala Asp Ile Gln Leu Thr Gln Ser Pro Ser Phe Leu Ser Ala Ser Val
20 25 30

Gly Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Asp Val Gly Thr
35 40 45

Ala Val Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu
50 55 60

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Ile Tyr Trp Ala Ser Thr Arg His Thr Gly Val Pro Ser Arg Phe Ser
65 70 75 80

Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln
85 90 95

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ala Asn Ser Tyr Pro
100 105 110

Phe Thr Phe Gly Ser Gly Thr Lys Leu Glu Ile Lys Arg
115 120 125

<210> 144
<211> 125
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic sequence

<400> 144

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

Ala Asp Ile Gln Leu Thr Gln Ser Pro Ser Phe Leu Ser Ala Ser Val
20 25 30

Gly Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Asp Val Gly Thr
35 40 45

Ala Val Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu
50 55 60

Ile Tyr Trp Ala Ser Thr Arg His Thr Gly Val Pro Ser Arg Phe Ser
65 70 75 80

Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln
85 90 95

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ala Asn Ser Tyr Pro
100 105 110

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Phe Thr Phe Gly Ser Gly Thr Lys Leu Glu Ile Lys Arg
 115 120 125

<210> 145
 <211> 125
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> synthetic sequence

<400> 145

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

Ala Asp Ile Gln Leu Thr Gln Ser Pro Ser Phe Leu Ser Ala Ser Val
 20 25 30

Gly Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Asp Val Gly Thr
 35 40 45

Ala Val Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu
 50 55 60

Ile Tyr Trp Ala Ser Thr Arg His Thr Gly Val Pro Ser Arg Phe Ser
 65 70 75 80

Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln
 85 90 95

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Val Asn Ser Tyr Pro
 100 105 110

Phe Thr Phe Gly Ser Gly Thr Lys Leu Glu Ile Lys Arg
 115 120 125

<210> 146
 <211> 125
 <212> PRT
 <213> Artificial Sequence

719408_ST25

<220>

<223> synthetic sequence

<400> 146

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

Ala Asp Ile Gln Leu Thr Gln Ser Pro Ser Phe Leu Ser Ala Ser Val
 20 25 30

Gly Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Asp Val Gly Thr
 35 40 45

Ala Val Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu
 50 55 60

Ile Tyr Trp Ala Ser Thr Arg His Thr Gly Val Pro Ser Arg Phe Ser
 65 70 75 80

Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln
 85 90 95

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ile Asn Ser Tyr Pro
 100 105 110

Phe Thr Phe Gly Ser Gly Thr Lys Leu Glu Ile Lys Arg
 115 120 125

<210> 147

<211> 125

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic sequence

<400> 147

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

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Ala Asp Ile Gln Leu Thr Gln Ser Pro Ser Phe Leu Ser Ala Ser Val
 20 25 30

Gly Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Asp Val Gly Thr
 35 40 45

Ala Val Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu
 50 55 60

Ile Tyr Trp Ala Ser Thr Arg His Thr Gly Val Pro Ser Arg Phe Ser
 65 70 75 80

Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln
 85 90 95

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Leu Asn Ser Tyr Pro
 100 105 110

Phe Thr Phe Gly Ser Gly Thr Lys Leu Glu Ile Lys Arg
 115 120 125

<210> 148
 <211> 125
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> synthetic sequence

<400> 148

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

Ala Asp Ile Gln Leu Thr Gln Ser Pro Ser Phe Leu Ser Ala Ser Val
 20 25 30

Gly Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Asp Val Gly Thr
 35 40 45

Ala Val Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu
 50 55 60

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Ile Tyr Trp Ala Ser Thr Arg His Thr Gly Val Pro Ser Arg Phe Ser
65 70 75 80

Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln
85 90 95

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ala Asn Ser Tyr Pro
100 105 110

Phe Thr Phe Gly Ser Gly Thr Lys Leu Glu Ile Lys Arg
115 120 125

<210> 149
<211> 125
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic sequence

<400> 149

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

Ala Asp Ile Gln Leu Thr Gln Ser Pro Ser Phe Leu Ser Ala Ser Val
20 25 30

Gly Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Asp Val Gly Thr
35 40 45

Ala Val Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu
50 55 60

Ile Tyr Trp Ala Ser Thr Arg His Thr Gly Val Pro Ser Arg Phe Ser
65 70 75 80

Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln
85 90 95

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Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Asn Ser Tyr Pro
 100 105 110

Phe Thr Phe Gly Ser Gly Thr Lys Leu Glu Ile Lys Arg
 115 120 125

<210> 150

<211> 125

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic sequence

<400> 150

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

Ala Asp Ile Gln Leu Thr Gln Ser Pro Ser Phe Leu Ser Ala Ser Val
 20 25 30

Gly Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Asp Val Gly Thr
 35 40 45

Ala Val Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu
 50 55 60

Ile Tyr Trp Ala Ser Thr Arg His Thr Gly Val Pro Ser Arg Phe Ser
 65 70 75 80

Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln
 85 90 95

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ala Ser Thr Tyr Pro
 100 105 110

Phe Thr Phe Gly Ser Gly Thr Lys Leu Glu Ile Lys Arg
 115 120 125

<210> 151

<211> 125

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<212> PRT
 <213> Artificial Sequence

<220>
 <223> synthetic sequence

<400> 151

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

Ala Asp Ile Gln Leu Thr Gln Ser Pro Ser Phe Leu Ser Ala Ser Val
 20 25 30

Gly Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Asp Val Gly Thr
 35 40 45

Ala Val Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu
 50 55 60

Ile Tyr Trp Ala Ser Thr Arg His Thr Gly Val Pro Ser Arg Phe Ser
 65 70 75 80

Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln
 85 90 95

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ala Ser Ala Tyr Pro
 100 105 110

Phe Thr Phe Gly Ser Gly Thr Lys Leu Glu Ile Lys Arg
 115 120 125

<210> 152
 <211> 125
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> synthetic sequence

<400> 152

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

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Ala Asp Ile Gln Leu Thr Gln Ser Pro Ser Phe Leu Ser Ala Ser Val
20 25 30

Gly Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Asp Val Gly Thr
35 40 45

Ala Val Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu
50 55 60

Ile Tyr Trp Ala Ser Thr Arg His Thr Gly Val Pro Ser Arg Phe Ser
65 70 75 80

Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln
85 90 95

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ala Arg Thr Tyr Pro
100 105 110

Phe Thr Phe Gly Ser Gly Thr Lys Leu Glu Ile Lys Arg
115 120 125

<210> 153
<211> 125
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic sequence

<400> 153

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

Ala Asp Ile Gln Leu Thr Gln Ser Pro Ser Phe Leu Ser Ala Ser Val
20 25 30

Gly Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Asp Val Gly Thr
35 40 45

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Ala Val Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu
 50 55 60

Ile Tyr Trp Ala Ser Thr Arg His Thr Gly Val Pro Ser Arg Phe Ser
 65 70 75 80

Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln
 85 90 95

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ala Arg Ala Tyr Pro
 100 105 110

Phe Thr Phe Gly Ser Gly Thr Lys Leu Glu Ile Lys Arg
 115 120 125

<210> 154
 <211> 125
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> synthetic sequence

<400> 154

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

Ala Asp Ile Gln Leu Thr Gln Ser Pro Ser Phe Leu Ser Ala Ser Val
 20 25 30

Gly Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Asp Val Gly Thr
 35 40 45

Ala Val Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu
 50 55 60

Ile Tyr Trp Ala Ser Thr Arg His Thr Gly Val Pro Ser Arg Phe Ser
 65 70 75 80

Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln
 85 90 95

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Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ala Lys Thr Tyr Pro
 100 105 110

Phe Thr Phe Gly Ser Gly Thr Lys Leu Glu Ile Lys Arg
 115 120 125

<210> 155
 <211> 125
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> synthetic sequence

<400> 155

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

Ala Asp Ile Gln Leu Thr Gln Ser Pro Ser Phe Leu Ser Ala Ser Val
 20 25 30

Gly Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Asp Val Gly Thr
 35 40 45

Ala Val Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu
 50 55 60

Ile Tyr Trp Ala Ser Thr Arg His Thr Gly Val Pro Ser Arg Phe Ser
 65 70 75 80

Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln
 85 90 95

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ala Lys Ala Tyr Pro
 100 105 110

Phe Thr Phe Gly Ser Gly Thr Lys Leu Glu Ile Lys Arg
 115 120 125

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<210> 156
 <211> 125
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> synthetic sequence

<400> 156

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

Ala Asp Ile Gln Leu Thr Gln Ser Pro Ser Phe Leu Ser Ala Ser Val
 20 25 30

Gly Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Asp Val Gly Thr
 35 40 45

Ala Val Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu
 50 55 60

Ile Tyr Trp Ala Ser Thr Arg His Thr Gly Val Pro Ser Arg Phe Ser
 65 70 75 80

Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln
 85 90 95

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ala Gln Thr Tyr Pro
 100 105 110

Phe Thr Phe Gly Ser Gly Thr Lys Leu Glu Ile Lys Arg
 115 120 125

<210> 157
 <211> 125
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> synthetic sequence

<400> 157

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

Ala Asp Ile Gln Leu Thr Gln Ser Pro Ser Phe Leu Ser Ala Ser Val
 20 25 30

Gly Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Asp Val Gly Thr
 35 40 45

Ala Val Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu
 50 55 60

Ile Tyr Trp Ala Ser Thr Arg His Thr Gly Val Pro Ser Arg Phe Ser
 65 70 75 80

Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln
 85 90 95

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ala Gln Ala Tyr Pro
 100 105 110

Phe Thr Phe Gly Ser Gly Thr Lys Leu Glu Ile Lys Arg
 115 120 125

<210> 158
 <211> 125
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> synthetic sequence

<400> 158

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

Ala Asp Ile Gln Leu Thr Gln Ser Pro Ser Phe Leu Ser Ala Ser Val
 20 25 30

Gly Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Asp Val Gly Thr
 35 40 45

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Ala Val Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu
50 55 60

Ile Tyr Trp Ala Ser Thr Arg His Thr Gly Val Pro Ser Arg Phe Ser
65 70 75 80

Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln
85 90 95

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Tyr Ser Ser Tyr Pro
100 105 110

Phe Thr Phe Gly Ser Gly Thr Lys Leu Glu Ile Lys Arg
115 120 125

<210> 159
<211> 125
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic sequence

<400> 159

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

Ala Asp Ile Gln Leu Thr Gln Ser Pro Ser Phe Leu Ser Ala Ser Val
20 25 30

Gly Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Asp Val Gly Thr
35 40 45

Ala Val Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu
50 55 60

Ile Tyr Trp Ala Ser Thr Arg His Thr Gly Val Pro Ser Arg Phe Ser
65 70 75 80

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Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln
 85 90 95

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ala Asn Thr Tyr Pro
 100 105 110

Phe Thr Phe Gly Ser Gly Thr Lys Leu Glu Ile Lys Arg
 115 120 125

<210> 160
 <211> 125
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> synthetic sequence

<400> 160

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

Ala Asp Ile Gln Leu Thr Gln Ser Pro Ser Phe Leu Ser Ala Ser Val
 20 25 30

Gly Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Asp Val Gly Thr
 35 40 45

Ala Val Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu
 50 55 60

Ile Tyr Trp Ala Phe Thr Arg His Thr Gly Val Pro Ser Arg Phe Ser
 65 70 75 80

Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln
 85 90 95

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ala Gln Ser Tyr Pro
 100 105 110

Phe Thr Phe Gly Ser Gly Thr Lys Leu Glu Ile Lys Arg
 115 120 125

<210> 161
 <211> 125
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> synthetic sequence

<400> 161

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

Ala Asp Ile Gln Leu Thr Gln Ser Pro Ser Phe Leu Ser Ala Ser Val
 20 25 30

Gly Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Asp Val Gly Thr
 35 40 45

Ala Val Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu
 50 55 60

Ile Tyr Trp Ala Ala Thr Arg His Thr Gly Val Pro Ser Arg Phe Ser
 65 70 75 80

Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln
 85 90 95

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ala Gln Ser Tyr Pro
 100 105 110

Phe Thr Phe Gly Ser Gly Thr Lys Leu Glu Ile Lys Arg
 115 120 125

<210> 162
 <211> 125
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> synthetic sequence

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<400> 162

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

Ala Asp Ile Gln Leu Thr Gln Ser Pro Ser Phe Leu Ser Ala Ser Val
 20 25 30

Gly Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Asp Val Gly Thr
 35 40 45

Ala Val Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu
 50 55 60

Ile Tyr Trp Ala Pro Thr Arg His Thr Gly Val Pro Ser Arg Phe Ser
 65 70 75 80

Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln
 85 90 95

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ala Gln Ser Tyr Pro
 100 105 110

Phe Thr Phe Gly Ser Gly Thr Lys Leu Glu Ile Lys Arg
 115 120 125

<210> 163

<211> 125

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic sequence

<400> 163

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

Ala Asp Ile Gln Leu Thr Gln Ser Pro Ser Phe Leu Ser Ala Ser Val
 20 25 30

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Gly Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Asp Val Gly Thr
 35 40 45

Ala Val Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu
 50 55 60

Ile Tyr Trp Ala Thr Thr Arg His Thr Gly Val Pro Ser Arg Phe Ser
 65 70 75 80

Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln
 85 90 95

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ala Gln Ser Tyr Pro
 100 105 110

Phe Thr Phe Gly Ser Gly Thr Lys Leu Glu Ile Lys Arg
 115 120 125

<210> 164
 <211> 125
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> synthetic sequence

<400> 164

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

Ala Asp Ile Gln Leu Thr Gln Ser Pro Ser Phe Leu Ser Ala Ser Val
 20 25 30

Gly Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Asp Val Gly Thr
 35 40 45

Ala Val Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu
 50 55 60

Ile Tyr Trp Ala His Thr Arg His Thr Gly Val Pro Ser Arg Phe Ser
 65 70 75 80

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Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln
85 90 95

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ala Gln Ser Tyr Pro
100 105 110

Phe Thr Phe Gly Ser Gly Thr Lys Leu Glu Ile Lys Arg
115 120 125

<210> 165

<211> 125

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic sequence

<400> 165

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

Ala Asp Ile Gln Leu Thr Gln Ser Pro Ser Phe Leu Ser Ala Ser Val
20 25 30

Gly Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Asp Val Gly Thr
35 40 45

Ala Val Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu
50 55 60

Ile Tyr Trp Ala Asn Thr Arg His Thr Gly Val Pro Ser Arg Phe Ser
65 70 75 80

Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln
85 90 95

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ala Gln Ser Tyr Pro
100 105 110

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Phe Thr Phe Gly Ser Gly Thr Lys Leu Glu Ile Lys Arg
 115 120 125

<210> 166
 <211> 125
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> synthetic sequence

<400> 166

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

Ala Asp Ile Gln Leu Thr Gln Ser Pro Ser Phe Leu Ser Ala Ser Val
 20 25 30

Gly Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Asp Val Gly Thr
 35 40 45

Ala Val Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu
 50 55 60

Ile Tyr Trp Ala Tyr Thr Arg His Thr Gly Val Pro Ser Arg Phe Ser
 65 70 75 80

Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln
 85 90 95

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ala Gln Ser Tyr Pro
 100 105 110

Phe Thr Phe Gly Ser Gly Thr Lys Leu Glu Ile Lys Arg
 115 120 125

<210> 167
 <211> 125
 <212> PRT
 <213> Artificial Sequence

<220>

<223> synthetic sequence

<400> 167

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

Ala Asp Ile Gln Leu Thr Gln Ser Pro Ser Phe Leu Ser Ala Ser Val
 20 25 30

Gly Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Asp Val Arg Thr
 35 40 45

Ala Val Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu
 50 55 60

Ile Tyr Trp Ala Ser Thr Arg His Thr Gly Val Pro Ser Arg Phe Ser
 65 70 75 80

Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln
 85 90 95

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ala Gln Ser Tyr Pro
 100 105 110

Phe Thr Phe Gly Ser Gly Thr Lys Leu Glu Ile Lys Arg
 115 120 125

<210> 168

<211> 125

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic sequence

<400> 168

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

Ala Asp Ile Gln Leu Thr Gln Ser Pro Ser Phe Leu Ser Ala Ser Val
 20 25 30

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Gly Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Asp Val Gly Thr
35 40 45

Ala Val Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu
50 55 60

Ile Tyr Val Ala Ser Thr Arg His Thr Gly Val Pro Ser Arg Phe Ser
65 70 75 80

Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln
85 90 95

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ala Gln Ser Tyr Pro
100 105 110

Phe Thr Phe Gly Ser Gly Thr Lys Leu Glu Ile Lys Arg
115 120 125

<210> 169
<211> 125
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic sequence

<400> 169

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

Ala Asp Ile Gln Leu Thr Gln Ser Pro Ser Phe Leu Ser Ala Ser Val
20 25 30

Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Gly Ile Arg Ser
35 40 45

Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu
50 55 60

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Ile Tyr Val Ala Ser Thr Leu Gln Ser Gly Val Pro Ser Arg Phe Ser
65 70 75 80

Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln
85 90 95

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Cys Asn Ser Tyr Pro
100 105 110

Phe Thr Phe Gly Ser Gly Thr Lys Leu Glu Ile Lys Arg
115 120 125

<210> 170
<211> 125
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic sequence

<400> 170

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

Ala Asp Ile Gln Leu Thr Gln Ser Pro Ser Phe Leu Ser Ala Ser Val
20 25 30

Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Gly Ile Arg Ser
35 40 45

Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu
50 55 60

Ile Tyr Val Ala Ser Thr Leu Gln Ser Gly Val Pro Ser Arg Phe Ser
65 70 75 80

Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln
85 90 95

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Cys Asn Asn Tyr Pro
100 105 110

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Phe Thr Phe Gly Ser Gly Thr Lys Leu Glu Ile Lys Arg
 115 120 125

<210> 171
 <211> 125
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> synthetic sequence

<400> 171

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

Ala Asp Ile Gln Leu Thr Gln Ser Pro Ser Phe Leu Ser Ala Ser Val
 20 25 30

Gly Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Asp Val Gly Thr
 35 40 45

Ala Val Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu
 50 55 60

Ile Tyr Trp Ala Ser Thr Arg His Thr Gly Val Pro Ser Arg Phe Ser
 65 70 75 80

Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln
 85 90 95

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ala Lys Thr Tyr Pro
 100 105 110

Phe Thr Phe Gly Ser Gly Thr Lys Leu Glu Ile Lys Arg
 115 120 125

<210> 172
 <211> 125
 <212> PRT
 <213> Artificial Sequence

719408_ST25

<220>

<223> synthetic sequence

<400> 172

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

Ala Asp Ile Gln Leu Thr Gln Ser Pro Ser Phe Leu Ser Ala Ser Val
20 25 30

Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Gly Ile Arg Ser
35 40 45

Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu
50 55 60

Ile Tyr Val Ala Ser Thr Leu Gln Ser Gly Val Pro Ser Arg Phe Ser
65 70 75 80

Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln
85 90 95

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ala Asn Asn Tyr Pro
100 105 110

Phe Thr Phe Gly Ser Gly Thr Lys Leu Glu Ile Lys Arg
115 120 125

<210> 173

<211> 125

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic sequence

<400> 173

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

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Ala Asp Ile Gln Leu Thr Gln Ser Pro Ser Phe Leu Ser Ala Ser Val
 20 25 30

Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Gly Ile Arg Ser
 35 40 45

Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu
 50 55 60

Ile Tyr Val Ala Ser Thr Leu Gln Ser Gly Val Pro Ser Arg Phe Ser
 65 70 75 80

Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln
 85 90 95

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ala Gln Ser Tyr Pro
 100 105 110

Phe Thr Phe Gly Ser Gly Thr Lys Leu Glu Ile Lys Arg
 115 120 125

<210> 174
 <211> 125
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> synthetic sequence

<400> 174

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

Ala Asp Ile Gln Leu Thr Gln Ser Pro Ser Phe Leu Ser Ala Ser Val
 20 25 30

Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Gly Ile Arg Ser
 35 40 45

Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu
 50 55 60

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Ile Tyr Val Ala Phe Thr Leu Gln Ser Gly Val Pro Ser Arg Phe Ser
65 70 75 80

Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln
85 90 95

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Cys Asn Ser Tyr Pro
100 105 110

Phe Thr Phe Gly Ser Gly Thr Lys Leu Glu Ile Lys Arg
115 120 125

<210> 175
<211> 125
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic sequence

<400> 175

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

Ala Asp Ile Gln Leu Thr Gln Ser Pro Ser Phe Leu Ser Ala Ser Val
20 25 30

Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Gly Ile Arg Ser
35 40 45

Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu
50 55 60

Ile Tyr Val Ala Phe Thr Leu Gln Ser Gly Val Pro Ser Arg Phe Ser
65 70 75 80

Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln
85 90 95

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Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Cys Asn Asn Tyr Pro
 100 105 110

Phe Thr Phe Gly Ser Gly Thr Lys Leu Glu Ile Lys Arg
 115 120 125

<210> 176

<211> 139

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic sequence

<400> 176

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

Ala Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly
 20 25 30

Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser
 35 40 45

Tyr Tyr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp
 50 55 60

Met Gly Thr Ile Tyr Pro Arg Asn Ser Asp Thr Asp Tyr Asn Gln Lys
 65 70 75 80

Phe Lys Ala Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val
 85 90 95

Tyr Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr
 100 105 110

Cys Ala Arg Pro Leu Tyr Tyr Tyr Val Thr Ser Pro Pro Thr Leu Leu
 115 120 125

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 130 135

<210> 177
 <211> 139
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> synthetic sequence

<400> 177

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

Ala Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly
 20 25 30

Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser
 35 40 45

Tyr Trp Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp
 50 55 60

Met Gly Ile Ile Asn Pro Ser Gly Gly Ser Thr Ser Tyr Ala Gln Lys
 65 70 75 80

Phe Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val
 85 90 95

Tyr Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr
 100 105 110

Cys Ala Arg Pro Leu Tyr Tyr Tyr Val Thr Ser Pro Pro Thr Leu Leu
 115 120 125

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 130 135

<210> 178
 <211> 144
 <212> PRT
 <213> Artificial Sequence

719408_ST25

<220>

<223> synthetic sequence

<400> 178

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

Ala Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly
20 25 30

Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Asn
35 40 45

Tyr Trp Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp
50 55 60

Val Ala Asp Ile Arg Leu Lys Ser Asn Asn Tyr Ala Thr His Tyr Ala
65 70 75 80

Glu Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn
85 90 95

Ser Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val
100 105 110

Tyr Tyr Cys Val Arg Asp Gly Pro Tyr Trp Gly Gln Gly Thr Leu Val
115 120 125

Thr Val Ser Ala Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala
130 135 140

<210> 179

<211> 144

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic sequence

<400> 179

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

Ala Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly
 20 25 30

Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Asn
 35 40 45

Tyr Trp Met Asn Trp Val Arg Gln Ala Pro Glu Lys Gly Leu Glu Trp
 50 55 60

Val Ala Asp Ile Arg Leu Lys Ser Asn Asn Tyr Ala Thr His Tyr Ala
 65 70 75 80

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

Ser Leu Tyr Leu Gln Met Asn Asn Leu Arg Ala Glu Asp Thr Ala Val
 100 105 110

Tyr Tyr Cys Val Arg Asp Gly Pro Tyr Trp Gly Gln Gly Thr Leu Val
 115 120 125

Thr Val Ser Ala Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala
 130 135 140

<210> 180
 <211> 144
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> synthetic sequence

<400> 180

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

Ala Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly
 20 25 30

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Gly Ser Leu Arg Leu Ser Cys Val Ala Ser Gly Phe Thr Phe Ser Asn
35 40 45

Tyr Trp Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp
50 55 60

Val Ala Asp Ile Arg Leu Lys Ser Asn Asn Tyr Ala Thr His Tyr Ala
65 70 75 80

Glu Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asp Ala Lys Asn
85 90 95

Ser Val Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val
100 105 110

Tyr Tyr Cys Val Arg Asp Gly Pro Tyr Trp Gly Gln Gly Thr Leu Val
115 120 125

Thr Val Ser Ala Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala
130 135 140

<210> 181
<211> 144
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic sequence

<400> 181

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

Ala Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly
20 25 30

Gly Ser Leu Arg Leu Ser Cys Val Ala Ser Gly Phe Thr Phe Ser Asn
35 40 45

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Tyr Trp Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp
 50 55 60

Val Ala Asp Ile Arg Leu Lys Ser Asn Asn Tyr Ala Thr His Tyr Ala
 65 70 75 80

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

Ser Val Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val
 100 105 110

Tyr Tyr Cys Val Arg Asp Gly Pro Tyr Trp Gly Gln Gly Thr Leu Val
 115 120 125

Thr Val Ser Ala Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala
 130 135 140

<210> 182

<211> 144

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic sequence

<400> 182

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

Ala Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly
 20 25 30

Gly Ser Leu Arg Leu Ser Cys Val Ala Ser Gly Phe Thr Phe Ser Asn
 35 40 45

Tyr Trp Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp
 50 55 60

Val Ala Asp Ile Arg Leu Lys Ser Asn Asn Tyr Ala Thr His Tyr Ala
 65 70 75 80

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Glu Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asp Ala Lys Asn
85 90 95

Ser Val Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val
100 105 110

Tyr Tyr Cys Val Arg Asp Ala Pro Tyr Trp Gly Gln Gly Thr Leu Val
115 120 125

Thr Val Ser Ala Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala
130 135 140

<210> 183
<211> 144
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic sequence

<400> 183

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

Ala Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly
20 25 30

Gly Ser Leu Arg Leu Ser Cys Val Ala Ser Gly Phe Thr Phe Ser Asn
35 40 45

Tyr Trp Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp
50 55 60

Val Ala Asp Ile Arg Leu Lys Ser Asn Asn Tyr Ala Thr His Tyr Ala
65 70 75 80

Glu Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asp Ala Lys Asn
85 90 95

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Ser Val Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val
 100 105 110

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

Thr Val Ser Ala Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala
 130 135 140

<210> 184

<211> 144

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic sequence

<400> 184

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

Ala Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly
 20 25 30

Gly Ser Leu Arg Leu Ser Cys Val Ala Ser Gly Phe Thr Phe Ser Asn
 35 40 45

Tyr Trp Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp
 50 55 60

Val Ala Asp Ile Arg Leu Lys Ser Asn Asn Tyr Ala Thr His Tyr Ala
 65 70 75 80

Glu Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asp Ala Lys Asn
 85 90 95

Ser Val Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val
 100 105 110

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

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Thr Val Ser Ala Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala
130 135 140

<210> 185
<211> 144
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic sequence

<400> 185

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

Ala Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly
20 25 30

Gly Ser Leu Arg Leu Ser Cys Val Ala Ser Gly Phe Thr Phe Ser Asn
35 40 45

Tyr Trp Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp
50 55 60

Val Ala Asp Ile Arg Leu Lys Ser Asn Asn Tyr Ala Thr His Tyr Ala
65 70 75 80

Glu Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asp Ala Lys Asn
85 90 95

Ser Val Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val
100 105 110

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

Thr Val Ser Ala Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala
130 135 140

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<210> 186
 <211> 144
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> synthetic sequence

<400> 186

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

Ala Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly
 20 25 30

Gly Ser Leu Arg Leu Ser Cys Val Ala Ser Gly Phe Thr Phe Ser Asn
 35 40 45

Tyr Trp Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp
 50 55 60

Val Ala Asp Ile Arg Leu Lys Ser Asn Asn Tyr Ala Thr His Tyr Ala
 65 70 75 80

Glu Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asp Ala Lys Asn
 85 90 95

Ser Val Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val
 100 105 110

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

Thr Val Ser Ala Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala
 130 135 140

<210> 187
 <211> 144
 <212> PRT
 <213> Artificial Sequence

<220>

719408_ST25

<223> synthetic sequence

<400> 187

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

Ala Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly
 20 25 30

Gly Ser Leu Arg Leu Ser Cys Val Ala Ser Gly Phe Thr Phe Ser Asn
 35 40 45

Tyr Trp Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp
 50 55 60

Val Ala Asp Ile Arg Leu Lys Ser Asn Asn Tyr Ala Thr His Tyr Ala
 65 70 75 80

Glu Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asp Ala Lys Asn
 85 90 95

Ser Val Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val
 100 105 110

Tyr Tyr Cys Val Arg Met Gly Pro Tyr Trp Gly Gln Gly Thr Leu Val
 115 120 125

Thr Val Ser Ala Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala
 130 135 140

<210> 188

<211> 125

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic sequence

<400> 188

Glu 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 Ser Tyr
20 25 30

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

Ala Asn Ile Lys Gln Asp Gly Ser Glu Lys Tyr Tyr Val Asp Ser Val
50 55 60

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

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

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

Ala Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala
115 120 125

<210> 189
<211> 113
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic sequence

<400> 189

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

Gln Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Ile Val His Ser
20 25 30

Asn Gly Asn Thr Tyr Leu Glu Trp Phe Gln Gln Arg Pro Gly Gln Ser
35 40 45

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Pro Arg Arg Leu Ile Tyr Lys Ile Ser Asn Arg Phe Ser Gly Val Pro
 50 55 60

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

Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Phe Gln Gly
 85 90 95

Ser His Val Pro Arg Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
 100 105 110

Arg

<210> 190
 <211> 130
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> synthetic sequence

<400> 190

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

Ala Asp Val Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Leu
 20 25 30

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

Ser Asp Gly Asn Thr Tyr Leu Asn Trp Phe Gln Gln Arg Pro Gly Gln
 50 55 60

Ser Pro Arg Arg Leu Ile Tyr Lys Val Ser Asn Arg Asp Ser Gly Val
 65 70 75 80

Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys
 85 90 95

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Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Phe Gln
100 105 110

Gly Ser His Val Pro Arg Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile
115 120 125

Lys Arg
130

<210> 191
<211> 130
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic sequence

<400> 191

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

Ala Asp Val Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Leu
20 25 30

Gly Gln Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Ile Val His
35 40 45

Ser Asn Gly Asn Thr Tyr Leu Glu Trp Tyr Leu Gln Arg Pro Gly Gln
50 55 60

Ser Pro Arg Leu Leu Ile Tyr Lys Ile Ser Asn Arg Phe Ser Gly Val
65 70 75 80

Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys
85 90 95

Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Phe Gln
100 105 110

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Gly Ser His Val Pro Arg Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile
 115 120 125

Lys Arg
 130

<210> 192
 <211> 130
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> synthetic sequence

<400> 192

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

Ala Asp Val Leu Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Leu
 20 25 30

Gly Gln Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Ile Val His
 35 40 45

Ser Asn Gly Asn Thr Tyr Leu Glu Trp Tyr Gln Gln Arg Pro Gly Gln
 50 55 60

Ser Pro Arg Leu Leu Ile Tyr Lys Ile Ser Asn Arg Phe Ser Gly Val
 65 70 75 80

Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys
 85 90 95

Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Phe Gln
 100 105 110

Gly Ser His Val Pro Arg Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile
 115 120 125

Lys Arg
 130

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<210> 193
 <211> 130
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> synthetic sequence

<400> 193

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

Ala Asp Val Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Leu
 20 25 30

Gly Gln Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Ile Val His
 35 40 45

Ser Asn Gly Asn Thr Tyr Leu Glu Trp Tyr Gln Gln Arg Pro Gly Gln
 50 55 60

Ser Pro Arg Leu Leu Ile Tyr Lys Ile Ser Asn Arg Phe Ser Gly Val
 65 70 75 80

Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys
 85 90 95

Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Phe Gln
 100 105 110

Gly Ser His Val Pro Arg Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile
 115 120 125

Lys Arg
 130

<210> 194
 <211> 130
 <212> PRT
 <213> Artificial Sequence

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<220>

<223> synthetic sequence

<400> 194

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

Ala Asp Val Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Leu
20 25 30

Gly Gln Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Ile Val His
35 40 45

Ser Gln Gly Asn Thr Tyr Leu Glu Trp Tyr Gln Gln Arg Pro Gly Gln
50 55 60

Ser Pro Arg Leu Leu Ile Tyr Lys Ile Ser Asn Arg Phe Ser Gly Val
65 70 75 80

Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys
85 90 95

Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Phe Gln
100 105 110

Gly Ser His Val Pro Arg Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile
115 120 125

Lys Arg
130

<210> 195

<211> 130

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic sequence

<400> 195

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

Ala Asp Val Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Leu
20 25 30

Gly Gln Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Ile Val His
35 40 45

Ser Leu Gly Asn Thr Tyr Leu Glu Trp Tyr Gln Gln Arg Pro Gly Gln
50 55 60

Ser Pro Arg Leu Leu Ile Tyr Lys Ile Ser Asn Arg Phe Ser Gly Val
65 70 75 80

Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys
85 90 95

Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Phe Gln
100 105 110

Gly Ser His Val Pro Arg Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile
115 120 125

Lys Arg
130

<210> 196
<211> 130
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic sequence

<400> 196

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

Ala Asp Val Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Leu
20 25 30

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Gly Gln Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Ile Val His
35 40 45

Ser Ala Gly Asn Thr Tyr Leu Glu Trp Tyr Gln Gln Arg Pro Gly Gln
50 55 60

Ser Pro Arg Leu Leu Ile Tyr Lys Ile Ser Asn Arg Phe Ser Gly Val
65 70 75 80

Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys
85 90 95

Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Phe Gln
100 105 110

Gly Ser His Val Pro Arg Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile
115 120 125

Lys Arg
130

<210> 197
<211> 130
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic sequence

<400> 197

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

Ala Asp Val Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Leu
20 25 30

Gly Gln Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Ile Val His
35 40 45

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Ser Ser Gly Asn Thr Tyr Leu Glu Trp Tyr Gln Gln Arg Pro Gly Gln
 50 55 60

Ser Pro Arg Leu Leu Ile Tyr Lys Ile Ser Asn Arg Phe Ser Gly Val
 65 70 75 80

Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys
 85 90 95

Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Phe Gln
 100 105 110

Gly Ser His Val Pro Arg Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile
 115 120 125

Lys Arg
 130

<210> 198
 <211> 130
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> synthetic sequence

<400> 198

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

Ala Asp Val Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Leu
 20 25 30

Gly Gln Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Ile Val His
 35 40 45

Ser Glu Gly Asn Thr Tyr Leu Glu Trp Tyr Gln Gln Arg Pro Gly Gln
 50 55 60

Ser Pro Arg Leu Leu Ile Tyr Lys Ile Ser Asn Arg Phe Ser Gly Val
 65 70 75 80

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Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys
85 90 95

Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Phe Gln
100 105 110

Gly Ser His Val Pro Arg Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile
115 120 125

Lys Arg
130

<210> 199
<211> 130
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic sequence

<400> 199

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

Ala Asp Val Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Leu
20 25 30

Gly Gln Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Ile Val His
35 40 45

Ser Thr Gly Asn Thr Tyr Leu Glu Trp Tyr Gln Gln Arg Pro Gly Gln
50 55 60

Ser Pro Arg Leu Leu Ile Tyr Lys Ile Ser Asn Arg Phe Ser Gly Val
65 70 75 80

Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys
85 90 95

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Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Phe Gln
 100 105 110

Gly Ser His Val Pro Arg Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile
 115 120 125

Lys Arg
 130

<210> 200
 <211> 130
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> synthetic sequence

<400> 200

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

Ala Asp Val Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Leu
 20 25 30

Gly Gln Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Ile Val His
 35 40 45

Ser Asn Ala Asn Thr Tyr Leu Glu Trp Tyr Gln Gln Arg Pro Gly Gln
 50 55 60

Ser Pro Arg Leu Leu Ile Tyr Lys Ile Ser Asn Arg Phe Ser Gly Val
 65 70 75 80

Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys
 85 90 95

Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Phe Gln
 100 105 110

Gly Ser His Val Pro Arg Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile
 115 120 125

Lys Arg
130

<210> 201
<211> 130
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic sequence

<400> 201

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

Ala Asp Val Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Leu
20 25 30

Gly Gln Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Ile Val His
35 40 45

Ser Asn Asp Asn Thr Tyr Leu Glu Trp Tyr Gln Gln Arg Pro Gly Gln
50 55 60

Ser Pro Arg Leu Leu Ile Tyr Lys Ile Ser Asn Arg Phe Ser Gly Val
65 70 75 80

Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys
85 90 95

Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Phe Gln
100 105 110

Gly Ser His Val Pro Arg Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile
115 120 125

Lys Arg
130

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<210> 202
 <211> 130
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> synthetic sequence

<400> 202

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

Ala Asp Val Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Leu
 20 25 30

Gly Gln Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Ile Val His
 35 40 45

Ser Phe Gly Asn Thr Tyr Leu Glu Trp Tyr Gln Gln Arg Pro Gly Gln
 50 55 60

Ser Pro Arg Leu Leu Ile Tyr Lys Ile Ser Asn Arg Phe Ser Gly Val
 65 70 75 80

Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys
 85 90 95

Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Phe Gln
 100 105 110

Gly Ser His Val Pro Arg Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile
 115 120 125

Lys Arg
 130

<210> 203
 <211> 130
 <212> PRT
 <213> Artificial Sequence

<220>

719408_ST25

<223> synthetic sequence

<400> 203

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

Ala Asp Val Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Leu
 20 25 30

Gly Gln Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Ile Val His
 35 40 45

Ser Asn Val Asn Thr Tyr Leu Glu Trp Tyr Gln Gln Arg Pro Gly Gln
 50 55 60

Ser Pro Arg Leu Leu Ile Tyr Lys Ile Ser Asn Arg Phe Ser Gly Val
 65 70 75 80

Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys
 85 90 95

Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Phe Gln
 100 105 110

Gly Ser His Val Pro Arg Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile
 115 120 125

Lys Arg
 130

<210> 204

<211> 130

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic sequence

<400> 204

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

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Ala Asp Val Leu Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Leu
20 25 30

Gly Gln Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Ile Val His
35 40 45

Ser Asn Gly Asn Thr Tyr Leu Glu Trp Tyr Gln Gln Arg Pro Gly Gln
50 55 60

Ser Pro Arg Leu Leu Ile Tyr Lys Ile Ser Asn Arg Phe Ser Gly Val
65 70 75 80

Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys
85 90 95

Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Phe Gln
100 105 110

Gly Ser His Val Pro Arg Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile
115 120 125

Lys Arg
130

<210> 205
<211> 130
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic sequence

<400> 205

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

Ala Asp Val Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Leu
20 25 30

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Gly Gln Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Ile Val His
35 40 45

Ser Asn Gly Asn Thr Tyr Leu Glu Trp Tyr Gln Gln Arg Pro Gly Gln
50 55 60

Ser Pro Arg Leu Leu Ile Tyr Lys Ile Ser Asn Arg Phe Ser Gly Val
65 70 75 80

Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys
85 90 95

Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Phe Gln
100 105 110

Gly Ser His Val Pro Arg Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile
115 120 125

Lys Arg
130

<210> 206
<211> 153
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic sequence

<400> 206

Met Glu Phe Gly Leu Ser Trp Val Phe Leu Val Ala Leu Leu Arg Gly
1 5 10 15

Val Gln Cys Gln Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln
20 25 30

Pro Gly Arg Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe
35 40 45

Ser Ser Tyr Ala Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
50 55 60

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Glu Trp Val Ala Val Ile Ser Tyr Asp Gly Ser Asn Lys Tyr Tyr Ala
65 70 75 80

Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn
85 90 95

Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Asp Asp Thr Ala Val
100 105 110

Tyr Tyr Cys Ala Lys Ala Pro Gly Pro Met Val Arg Gly Val Ile Pro
115 120 125

Asp Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Ser Ala
130 135 140

Ser Ala Pro Thr Leu Phe Pro Leu Ala
145 150

<210> 207
<211> 153
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic sequence

<400> 207

Met Glu Phe Gly Leu Ser Trp Val Phe Leu Val Ala Leu Leu Arg Gly
1 5 10 15

Val Gln Cys Gln Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln
20 25 30

Pro Gly Arg Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe
35 40 45

Ser Asn Tyr Ala Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
50 55 60

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Glu Trp Val Ala Val Ile Ser Tyr Asp Gly Asn Asn Lys Tyr Tyr Ala
65 70 75 80

Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Phe Lys Asn
85 90 95

Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Asp Asp Thr Ala Val
100 105 110

Tyr Tyr Cys Ala Lys Ala Pro Gly Ser Met Val Arg Gly Val Ile Pro
115 120 125

Asp Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Ser Ala
130 135 140

Ser Ala Pro Thr Leu Phe Pro Leu Ala
145 150

<210> 208
<211> 153
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic sequence

<400> 208

Met Glu Phe Gly Leu Ser Trp Val Phe Leu Val Ala Leu Leu Arg Gly
1 5 10 15

Val Gln Cys Gln Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln
20 25 30

Pro Gly Arg Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe
35 40 45

Ser Ser Tyr Val Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
50 55 60

Glu Trp Val Ala Val Ile Ser Tyr Asp Gly Ser Asn Lys Tyr Tyr Ala
65 70 75 80

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Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Asn Asn
85 90 95

Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Asp Asp Thr Ala Val
100 105 110

Tyr Tyr Cys Ala Lys Ala Pro Gly Pro Met Val Arg Gly Val Ile Pro
115 120 125

Asp Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Ser Ala
130 135 140

Ser Ala Pro Thr Leu Phe Pro Leu Ala
145 150

<210> 209
<211> 153
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic sequence

<400> 209

Met Glu Phe Gly Leu Ser Trp Val Phe Leu Val Ala Leu Leu Arg Gly
1 5 10 15

Val Gln Cys Gln Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln
20 25 30

Pro Gly Arg Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe
35 40 45

Ser Asn Tyr Val Met His Trp Val Arg Gln Thr Pro Gly Lys Gly Leu
50 55 60

Glu Trp Val Ala Val Ile Ser Tyr Asp Gly Arg Asn Lys Tyr Tyr Ala
65 70 75 80

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Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Phe Asn Asn
85 90 95

Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Asp Asp Thr Ala Val
100 105 110

Tyr Tyr Cys Ala Lys Ala Pro Gly Pro Met Val Arg Gly Val Ile Pro
115 120 125

Asp Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Ser Ala
130 135 140

Ser Ala Pro Thr Leu Phe Pro Leu Ala
145 150

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

<220>
<223> synthetic sequence

<400> 210

Met Glu Phe Gly Leu Ser Trp Val Phe Leu Val Ala Leu Leu Arg Gly
1 5 10 15

Val Gln Cys Gln Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln
20 25 30

Pro Gly Arg Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe
35 40 45

Ser Asn Tyr Val Met His Trp Val Arg Gln Thr Pro Gly Lys Gly Leu
50 55 60

Glu Trp Val Ala Val Ile Ser Tyr Asp Gly Arg Asn Lys Tyr Tyr Ala
65 70 75 80

Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Phe Asn Asn
85 90 95

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Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Asp Asp Thr Ala Val
100 105 110

Tyr Tyr Cys Ala Lys Ala Pro Gly Ser Met Val Arg Gly Val Ile Pro
115 120 125

Asp Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Ser Ala
130 135 140

Ser Ala Pro Thr Leu Phe Pro Leu Ala
145 150

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

<220>
<223> synthetic sequence

<400> 211

Met Glu Phe Gly Leu Ser Trp Val Phe Leu Val Ala Leu Leu Arg Gly
1 5 10 15

Val Gln Cys Gln Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln
20 25 30

Pro Gly Arg Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe
35 40 45

Ser Asn Tyr Val Met His Trp Val Arg Gln Thr Pro Gly Lys Gly Leu
50 55 60

Glu Trp Val Ala Val Ile Ser Tyr Asp Gly Arg Asn Lys Tyr Tyr Ala
65 70 75 80

Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Asn Asn
85 90 95

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Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val
 100 105 110

Tyr Tyr Cys Ala Lys Ala Pro Gly Pro Met Val Arg Gly Val Ile Pro
 115 120 125

Asp Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Ser Ala
 130 135 140

Ser Ala Pro Thr Leu Phe Pro Leu Ala
 145 150

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

<220>
 <223> synthetic sequence

<400> 212

Met Glu Phe Gly Leu Ser Trp Val Phe Leu Val Ala Leu Leu Arg Gly
 1 5 10 15

Val Gln Cys Gln Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln
 20 25 30

Pro Gly Arg Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe
 35 40 45

Ser Asn Tyr Val Met His Trp Val Arg Gln Thr Pro Gly Lys Gly Leu
 50 55 60

Glu Trp Val Ala Val Ile Ser Tyr Asp Gly Arg Asn Lys Tyr Tyr Ala
 65 70 75 80

Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Asn Asn
 85 90 95

Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Asp Asp Thr Ala Val
 100 105 110

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Tyr Tyr Cys Ala Lys Ala Pro Gly Ser Met Val Arg Gly Val Ile Pro
115 120 125

Asp Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Ser Ala
130 135 140

Ser Ala Pro Thr Leu Phe Pro Leu Ala
145 150

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

<220>
<223> synthetic sequence

<400> 213

Met Glu Phe Gly Leu Ser Trp Val Phe Leu Val Ala Leu Leu Arg Gly
1 5 10 15

Val Gln Cys Gln Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln
20 25 30

Pro Gly Arg Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe
35 40 45

Ser Asn Tyr Val Met His Trp Val Arg Gln Thr Pro Gly Lys Gly Leu
50 55 60

Glu Trp Val Ala Val Ile Ser Tyr Asp Gly Arg Asn Lys Tyr Tyr Ala
65 70 75 80

Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Phe Lys Asn
85 90 95

Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Asp Asp Thr Ala Val
100 105 110

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Tyr Tyr Cys Ala Lys Ala Pro Gly Ser Met Val Arg Gly Val Ile Pro
 115 120 125

Asp Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Ser Ala
 130 135 140

Ser Ala Pro Thr Leu Phe Pro Leu Ala
 145 150

<210> 214
 <211> 153
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> synthetic sequence

<400> 214

Met Glu Phe Gly Leu Ser Trp Val Phe Leu Val Ala Leu Leu Arg Gly
 1 5 10 15

Val Gln Cys Gln Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln
 20 25 30

Pro Gly Arg Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe
 35 40 45

Ser Asn Tyr Val Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
 50 55 60

Glu Trp Val Ala Val Ile Ser Tyr Asp Gly Ser Asn Lys Tyr Tyr Ala
 65 70 75 80

Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Asn Asn
 85 90 95

Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Asp Asp Thr Ala Val
 100 105 110

Tyr Tyr Cys Ala Lys Ala Pro Gly Pro Met Val Arg Gly Val Ile Pro
 115 120 125

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Asp Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Ser Ala
130 135 140

Ser Ala Pro Thr Leu Phe Pro Leu Ala
145 150

<210> 215
<211> 153
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic sequence

<400> 215

Met Glu Phe Gly Leu Ser Trp Val Phe Leu Val Ala Leu Leu Arg Gly
1 5 10 15

Val Gln Cys Gln Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln
20 25 30

Pro Gly Arg Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe
35 40 45

Ser Asn Tyr Val Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
50 55 60

Glu Trp Val Ala Val Ile Ser Tyr Asp Gly Ser Asn Lys Tyr Tyr Ala
65 70 75 80

Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Asn Asn
85 90 95

Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Asp Asp Thr Ala Val
100 105 110

Tyr Tyr Cys Ala Lys Ala Pro Gly Pro Met Val Arg Gly Val Ile Pro
115 120 125

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Asp Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Ser Ala
 130 135 140

Ser Ala Pro Thr Leu Phe Pro Leu Ala
 145 150

<210> 216
 <211> 153
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> synthetic sequence

<400> 216

Met Glu Phe Gly Leu Ser Trp Val Phe Leu Val Ala Leu Leu Arg Gly
 1 5 10 15

Val Gln Cys Gln Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln
 20 25 30

Pro Gly Arg Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe
 35 40 45

Ser Asn Tyr Val Met His Trp Val Arg Gln Thr Pro Gly Lys Gly Leu
 50 55 60

Glu Trp Val Ala Val Ile Ser Tyr Asp Gly Arg Asn Lys Tyr Tyr Ala
 65 70 75 80

Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Asn Asn
 85 90 95

Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Asp Asp Thr Ala Val
 100 105 110

Tyr Tyr Cys Ala Lys Ala Pro Gly Pro Met Val Arg Gly Val Ile Pro
 115 120 125

Asp Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Ser Ala
 130 135 140

Ser Ala Pro Thr Leu Phe Pro Leu Ala
 145 150

<210> 217
 <211> 153
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> synthetic sequence

<400> 217

Met Glu Phe Gly Leu Ser Trp Val Phe Leu Val Ala Leu Leu Arg Gly
 1 5 10 15

Val Gln Cys Gln Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln
 20 25 30

Pro Gly Arg Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe
 35 40 45

Ser Asn Tyr Val Met His Trp Val Arg Gln Thr Pro Gly Lys Gly Leu
 50 55 60

Glu Trp Val Ala Val Ile Ser Tyr Asp Gly Arg Asn Lys Tyr Tyr Ala
 65 70 75 80

Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Asn Asn
 85 90 95

Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Asp Asp Thr Ala Val
 100 105 110

Tyr Tyr Cys Ala Lys Ala Pro Gly Pro Met Val Arg Gly Val Ile Pro
 115 120 125

Asp Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Ser Ala
 130 135 140

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Ser Ala Pro Thr Leu Phe Pro Leu Ala
 145 150

<210> 218
 <211> 130
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> synthetic sequence

<400> 218

Met Glu Thr Pro Ala Gln Leu Leu Phe Leu Leu Leu Leu Trp Leu Pro
 1 5 10 15

Asp Thr Thr Gly Glu Ile Val Leu Thr Gln Ser Pro Gly Thr Leu Ser
 20 25 30

Leu Ser Pro Gly Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser
 35 40 45

Val Ser Ser Ser Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala
 50 55 60

Pro Arg Leu Leu Ile Tyr Gly Ala Ser Ser Arg Ala Thr Gly Ile Pro
 65 70 75 80

Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile
 85 90 95

Ser Arg Leu Glu Pro Glu Asp Phe Ala Val Tyr Tyr Cys Met Gln Gly
 100 105 110

Thr His Trp Pro Pro Tyr Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile
 115 120 125

Lys Arg
 130

<210> 219
 <211> 130

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<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic sequence

<400> 219

Met Glu Thr Pro Ala Gln Leu Leu Phe Leu Leu Leu Trp Leu Pro
 1 5 10 15

Asp Thr Thr Gly Glu Ile Val Leu Thr Gln Ser Pro Gly Thr Leu Ser
 20 25 30

Leu Ser Pro Gly Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser
 35 40 45

Val Ile Ser Ser Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala
 50 55 60

Pro Arg Leu Leu Ile Tyr Gly Thr Ser Ser Arg Ala Thr Gly Ile Pro
 65 70 75 80

Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile
 85 90 95

Ser Arg Leu Glu Pro Glu Asp Phe Ala Val Tyr Tyr Cys Met Gln Gly
 100 105 110

Thr His Trp Leu Pro Tyr Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile
 115 120 125

Lys Arg
 130

<210> 220

<211> 130

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic sequence

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<400> 220

Met Glu Thr Pro Ala Gln Leu Leu Phe Leu Leu Leu Leu Trp Leu Pro
 1 5 10 15

Asp Thr Thr Gly Glu Ile Val Leu Thr Gln Ser Pro Gly Thr Leu Ser
 20 25 30

Leu Ser Pro Gly Glu Arg Ala Thr Leu Ser Cys Arg Thr Ser Gln Ser
 35 40 45

Val Arg Ser Ser Tyr Leu Gly Trp Tyr Gln Gln Lys Pro Gly Gln Val
 50 55 60

Pro Arg Leu Leu Ile Tyr Gly Ala Ser Ser Arg Ala Thr Gly Ile Pro
 65 70 75 80

Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile
 85 90 95

Ser Arg Leu Glu Pro Glu Asp Phe Ala Val Tyr Tyr Cys Met Gln Ala
 100 105 110

Thr His Trp Pro Pro Tyr Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile
 115 120 125

Lys Arg
 130

<210> 221

<211> 130

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic sequence

<400> 221

Met Glu Thr Pro Ala Gln Leu Leu Phe Leu Leu Leu Leu Trp Leu Pro
 1 5 10 15

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Asp Thr Thr Gly Glu Ile Val Leu Thr Gln Ser Pro Gly Thr Leu Ser
 20 25 30

Leu Ser Pro Gly Glu Arg Ala Thr Leu Ser Cys Arg Thr Ser Gln Ser
 35 40 45

Val Arg Ser Ser Tyr Leu Gly Trp Tyr Gln Gln Lys Pro Gly Gln Val
 50 55 60

Pro Arg Leu Leu Ile Tyr Gly Thr Ser Ile Arg Ala Thr Gly Ile Pro
 65 70 75 80

Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile
 85 90 95

Ser Arg Leu Glu Pro Glu Asp Phe Ala Val Tyr Tyr Cys Met Gln Ala
 100 105 110

Thr His Trp Pro Pro Tyr Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile
 115 120 125

Lys Arg
 130

<210> 222
 <211> 147
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> synthetic sequence

<400> 222

Met Glu Thr Pro Ala Gln Leu Leu Phe Leu Leu Leu Leu Trp Leu Pro
 1 5 10 15

Asp Thr Thr Gly Glu Ile Val Leu Thr Gln Ser Pro Gly Thr Leu Ser
 20 25 30

Leu Ser Pro Gly Glu Arg Ala Thr Leu Ser Cys Arg Thr Ser Gln Ser
 35 40 45

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Val Arg Ser Ser Tyr Leu Gly Trp Tyr Gln Gln Lys Pro Gly Gln Val
50 55 60

Pro Arg Leu Leu Ile Tyr Gly Thr Ser Ile Arg Ala Thr Gly Ile Pro
65 70 75 80

Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile
85 90 95

Ser Arg Leu Glu Pro Glu Asp Phe Ala Val Tyr Tyr Cys Met Gln Ala
100 105 110

Thr His Trp Pro Pro Tyr Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile
115 120 125

Lys Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp
130 135 140

Glu Gln Leu
145

<210> 223
<211> 130
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic sequence

<400> 223

Met Glu Thr Pro Ala Gln Leu Leu Phe Leu Leu Leu Leu Trp Leu Pro
1 5 10 15

Asp Thr Thr Gly Glu Ile Val Leu Thr Gln Ser Pro Gly Thr Leu Ser
20 25 30

Leu Ser Pro Gly Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser
35 40 45

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Val Ile Ser Ser Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Thr
 50 55 60

Pro Arg Leu Leu Ile Tyr Gly Thr Ser Ser Arg Ala Thr Gly Ile Pro
 65 70 75 80

Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile
 85 90 95

Ser Arg Leu Glu Pro Glu Asp Phe Ala Val Tyr Tyr Cys Met Gln Gly
 100 105 110

Thr His Trp Leu Pro Tyr Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile
 115 120 125

Lys Arg
 130

<210> 224
 <211> 130
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> synthetic sequence

<400> 224

Met Glu Thr Pro Ala Gln Leu Leu Phe Leu Leu Leu Leu Trp Leu Pro
 1 5 10 15

Asp Thr Thr Gly Glu Ile Val Leu Thr Gln Ser Pro Gly Thr Leu Ser
 20 25 30

Leu Ser Pro Gly Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser
 35 40 45

Val Ile Ser Ser Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala
 50 55 60

Pro Arg Leu Leu Ile Tyr Gly Thr Ser Ile Arg Ala Thr Gly Ile Pro
 65 70 75 80

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Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile
85 90 95

Ser Arg Leu Glu Pro Glu Asp Phe Ala Val Tyr Tyr Cys Met Gln Gly
100 105 110

Thr His Trp Leu Pro Tyr Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile
115 120 125

Lys Arg
130

<210> 225
<211> 130
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic sequence

<400> 225

Met Glu Thr Pro Ala Gln Leu Leu Phe Leu Leu Leu Leu Trp Leu Pro
1 5 10 15

Asp Thr Thr Gly Glu Ile Val Leu Thr Gln Ser Pro Gly Thr Leu Ser
20 25 30

Leu Ser Pro Gly Glu Arg Ala Thr Leu Ser Cys Arg Thr Ser Gln Ser
35 40 45

Val Arg Ser Ser Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala
50 55 60

Pro Arg Leu Leu Ile Tyr Gly Ala Ser Ser Arg Ala Thr Gly Ile Pro
65 70 75 80

Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile
85 90 95

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Ser Arg Leu Glu Pro Glu Asp Phe Ala Val Tyr Tyr Cys Met Gln Ala
 100 105 110

Thr His Trp Pro Pro Tyr Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile
 115 120 125

Lys Arg
 130

<210> 226
 <211> 130
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> synthetic sequence

<400> 226

Met Glu Thr Pro Ala Gln Leu Leu Phe Leu Leu Leu Trp Leu Pro
 1 5 10 15

Asp Thr Thr Gly Glu Ile Val Leu Thr Gln Ser Pro Gly Thr Leu Ser
 20 25 30

Leu Ser Pro Gly Glu Arg Ala Thr Leu Ser Cys Arg Thr Ser Gln Ser
 35 40 45

Val Arg Ser Ser Tyr Leu Gly Trp Tyr Gln Gln Lys Pro Gly Gln Ala
 50 55 60

Pro Arg Leu Leu Ile Tyr Gly Ala Ser Ser Arg Ala Thr Gly Ile Pro
 65 70 75 80

Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile
 85 90 95

Ser Arg Leu Glu Pro Glu Asp Phe Ala Val Tyr Tyr Cys Met Gln Ala
 100 105 110

Thr His Trp Pro Pro Tyr Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile
 115 120 125

Lys Arg
130

<210> 227
<211> 130
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic sequence

<400> 227

Met Glu Thr Pro Ala Gln Leu Leu Phe Leu Leu Leu Leu Trp Leu Pro
1 5 10 15

Asp Thr Thr Gly Glu Ile Val Leu Thr Gln Ser Pro Gly Thr Leu Ser
20 25 30

Leu Ser Pro Gly Glu Arg Ala Thr Leu Ser Cys Arg Thr Ser Gln Ser
35 40 45

Val Ser Ser Ser Tyr Leu Gly Trp Tyr Gln Gln Lys Pro Gly Gln Ala
50 55 60

Pro Arg Leu Leu Ile Tyr Gly Ala Ser Ser Arg Ala Thr Gly Ile Pro
65 70 75 80

Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile
85 90 95

Ser Arg Leu Glu Pro Glu Asp Phe Ala Val Tyr Tyr Cys Met Gln Ala
100 105 110

Thr His Trp Pro Pro Tyr Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile
115 120 125

Lys Arg
130

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<210> 228
 <211> 130
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> synthetic sequence

<400> 228

Met Glu Thr Pro Ala Gln Leu Leu Phe Leu Leu Leu Leu Trp Leu Pro
 1 5 10 15

Asp Thr Thr Gly Glu Ile Val Leu Thr Gln Ser Pro Gly Thr Leu Ser
 20 25 30

Leu Ser Pro Gly Glu Arg Ala Thr Leu Ser Cys Arg Thr Ser Gln Ser
 35 40 45

Val Ser Ser Ser Tyr Leu Gly Trp Tyr Gln Gln Lys Pro Gly Gln Val
 50 55 60

Pro Arg Leu Leu Ile Tyr Gly Ala Ser Ser Arg Ala Thr Gly Ile Pro
 65 70 75 80

Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile
 85 90 95

Ser Arg Leu Glu Pro Glu Asp Phe Ala Val Tyr Tyr Cys Met Gln Ala
 100 105 110

Thr His Trp Pro Pro Tyr Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile
 115 120 125

Lys Arg
 130

<210> 229
 <211> 130
 <212> PRT
 <213> Artificial Sequence

<220>

719408_ST25

<223> synthetic sequence

<400> 229

Met Glu Thr Pro Ala Gln Leu Leu Phe Leu Leu Leu Leu Trp Leu Pro
 1 5 10 15

Asp Thr Thr Gly Glu Ile Val Leu Thr Gln Ser Pro Gly Thr Leu Ser
 20 25 30

Leu Ser Pro Gly Glu Arg Ala Thr Leu Ser Cys Arg Thr Ser Gln Ser
 35 40 45

Val Ser Ser Ser Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Val
 50 55 60

Pro Arg Leu Leu Ile Tyr Gly Ala Ser Ser Arg Ala Thr Gly Ile Pro
 65 70 75 80

Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile
 85 90 95

Ser Arg Leu Glu Pro Glu Asp Phe Ala Val Tyr Tyr Cys Met Gln Ala
 100 105 110

Thr His Trp Pro Pro Tyr Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile
 115 120 125

Lys Arg
 130

<210> 230

<211> 130

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic sequence

<400> 230

Met Glu Thr Pro Ala Gln Leu Leu Phe Leu Leu Leu Leu Trp Leu Pro
 1 5 10 15

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Asp Thr Thr Gly Glu Ile Val Leu Thr Gln Ser Pro Gly Thr Leu Ser
20 25 30

Leu Ser Pro Gly Glu Arg Ala Thr Leu Ser Cys Arg Thr Ser Gln Ser
35 40 45

Val Ser Ser Ser Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala
50 55 60

Pro Arg Leu Leu Ile Tyr Gly Ala Ser Ser Arg Ala Thr Gly Ile Pro
65 70 75 80

Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile
85 90 95

Ser Arg Leu Glu Pro Glu Asp Phe Ala Val Tyr Tyr Cys Met Gln Ala
100 105 110

Thr His Trp Pro Pro Tyr Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile
115 120 125

Lys Arg
130

<210> 231
<211> 130
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic sequence

<400> 231

Met Glu Thr Pro Ala Gln Leu Leu Phe Leu Leu Leu Leu Trp Leu Pro
1 5 10 15

Asp Thr Thr Gly Glu Ile Val Leu Thr Gln Ser Pro Gly Thr Leu Ser
20 25 30

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Leu Ser Pro Gly Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser
 35 40 45

Val Ser Ser Ser Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala
 50 55 60

Pro Arg Leu Leu Ile Tyr Gly Ala Ser Ser Arg Ala Thr Gly Ile Pro
 65 70 75 80

Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile
 85 90 95

Ser Arg Leu Glu Pro Glu Asp Phe Ala Val Tyr Tyr Cys Met Gln Ala
 100 105 110

Thr His Trp Pro Pro Tyr Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile
 115 120 125

Lys Arg
 130