

SEQUENCE LISTING

<110> HARPOON THERAPEUTICS, INC.

<120> MESOTHELIN BINDING PROTEINS

<130> 47517-719.601

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<141>

<150> 62/657,417

<151> 2018-04-13

<150> 62/505,719

<151> 2017-05-12

<160> 336

<170> PatentIn version 3.5

<210> 1

<211> 110

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 1

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

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

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

Thr Met Asn Pro Asp Gly Phe Pro Asn Tyr Ala Asp Ala Val Lys Gly
50 55 60

Arg Phe Thr Ile Ser Trp Asp Ile Ala Glu Asn Thr Val Tyr Leu Gln
65 70 75 80

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

Gly Pro Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
100 105 110

<210> 2

<211> 123

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 2

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

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

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

Ala Ala Leu Thr Ser Gly Gly Arg Ala Asn Tyr Ala Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Gly Asp Asn Val Arg Asn Met Val Tyr Leu
65 70 75 80

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

Ala Gly Arg Phe Lys Gly Asp Tyr Ala Gln Arg Ser Gly Met Asp Tyr
100 105 110

Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 3

<211> 116

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic

polypeptide

<400> 3

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

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

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

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

Gly Arg Phe Thr Ile Ser Gly Glu Asn Gly Lys Asn Thr Val Tyr Leu
65 70 75 80

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

Gly Gln Arg Ser Gly Val Arg Ala Phe Trp Gly Gln Gly Thr Gln Val
100 105 110

Thr Val Ser Ser
115

<210> 4

<211> 123

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 4

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

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

Asn Met Arg Trp Tyr Arg Gln Ala Pro Gly Lys Glu Arg Glu Leu Val

35

40

45

Ala Val Ile Thr Arg Gly Gly Tyr Ala Ile Tyr Leu Asp Ala Val Lys
 50 55 60

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

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

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

Phe Gly Gln Gly Thr Gln Val Thr Val Ser Ser
 115 120

<210> 5

<211> 116

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 5

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

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

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

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

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

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

85

90

95

Ala Arg Thr Tyr Thr Arg His Asp Tyr Trp Gly Gln Gly Thr Gln Val
 100 105 110

Thr Val Ser Ser
 115

<210> 6

<211> 122

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
 polypeptide

<400> 6

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

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

Ser Val Arg Trp Tyr Arg Gln Asp Pro Ser Lys Gln Arg Glu Trp Val
 35 40 45

Ala Thr Ile Asp Gln Leu Gly Arg Thr Asn Tyr Ala Asp Ser Val Lys
 50 55 60

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

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

Ala Gly Gly Gly Pro Leu Gly Ser Arg Trp Leu Arg Gly Arg His Trp
 100 105 110

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

<210> 7

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

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

<400> 7
Gln Val Arg Leu Val Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Glu
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Arg Pro Phe Ser Ile Asn
20 25 30

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

Ala Ser Ile Ser Ser Ser Gly Asp Phe Thr Tyr Thr Asp Ser Val Lys
50 55 60

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

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

Ala Arg Arg Thr Tyr Leu Pro Arg Arg Phe Gly Ser Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 8
<211> 117
<212> PRT
<213> Artificial Sequence

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

<400> 8
Gln Val Gln Pro Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Val Val Ser Gly Ser Asp Phe Thr Glu Asp
20 25 30

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

Ala Phe Val Ser Lys Asp Gly Lys Arg Ile Leu Tyr Leu Asp Ser Val
50 55 60

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

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

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

Val Thr Val Ser Ser
115

<210> 9

<211> 117

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 9

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

Ser Leu Arg Leu Ser Cys Val Val Ser Gly Ser Asp Phe Thr Glu Asp
20 25 30

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

Ala Phe Val Ser Lys Asp Gly Lys Arg Ile Leu Tyr Leu Asp Ser Val
50 55 60

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

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

Asn Ser Ala Pro Gly Ala Ala Arg Asn Val Trp Gly Gln Gly Thr Gln
100 105 110

Val Thr Val Ser Ser
115

<210> 10

<211> 115

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 10

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

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

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

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

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

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

Thr Ile Gly Gly Ser Leu Ser Arg Ser Ser Gln Gly Thr Leu Val Thr
100 105 110

Val Ser Ser
115

<210> 11
<211> 124
<212> PRT
<213> Artificial Sequence

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

<400> 11
Gln Val Gln Ile Val Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1 5 10 15

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

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

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

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

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

Ile Val Arg Gly Trp Leu Asp Glu Arg Pro Gly Pro Gly Pro Ile Val
100 105 110

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

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

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

polypeptide

<400> 12

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

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

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

Ala Ser His Thr Ser Thr Gly Tyr Val Tyr Tyr Arg Asp Ser Val Lys
50 55 60

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

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

Ala Asn Arg Gly Ser Tyr Glu Tyr Trp Gly Gln Gly Thr Gln Val Thr
100 105 110

Val Ser Ser
115

<210> 13

<211> 114

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 13

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

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

Met Ser Trp Tyr Arg Gln Ala Gln Gly Lys Gln Arg Glu Pro Val Ala

35

40

45

Val Ile Thr Asp Arg Gly Ser Thr Ser Tyr Ala Asp Ser Val Lys Gly
 50 55 60

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

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

Ile Ala Asp Trp Arg Gly Tyr Trp Gly Gln Gly Thr Gln Val Thr Val
 100 105 110

Ser Ser

<210> 14

<211> 120

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
 polypeptide

<400> 14

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

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

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

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

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

Leu Gln Met Asn Asn Leu Arg Pro Asp Asp Thr Ala Val Tyr Tyr Cys

85

90

95

Asn Val Arg Arg Arg Gly Trp Gly Arg Thr Leu Glu Tyr Trp Gly Gln
 100 105 110

Gly Thr Gln Val Thr Val Ser Ser
 115 120

<210> 15

<211> 117

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
 polypeptide

<400> 15

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Ile Phe Ser Pro Asn
 20 25 30

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

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

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

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

Tyr Ser Asp Phe Arg Arg Gly Thr Gln Tyr Trp Gly Gln Gly Thr Gln
 100 105 110

Val Thr Val Ser Ser
 115

<210> 16

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

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

<400> 16
Gln Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Pro Ser Gly Gly
1 5 10 15

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

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

Ala Arg Ile Ser Val Arg Glu Asp Lys Glu Asp Tyr Glu Asp Ser Val
50 55 60

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

Leu Gln Met Asn Asn Leu Gln Pro His Asp Thr Ala Ile Tyr Tyr Cys
85 90 95

Gly Ala Gln Arg Trp Gly Arg Gly Pro Gly Thr Thr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 17
<211> 116
<212> PRT
<213> Artificial Sequence

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

<400> 17
Gln Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1 5 10 15

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

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

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

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

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

Asp Asp Ser Gly Ile Ala Arg Asp Tyr Trp Gly Gln Gly Thr Gln Val
100 105 110

Thr Val Ser Ser
115

<210> 18

<211> 118

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 18

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

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

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

Ala Trp Ile Asn Asn Ser Gly Val Gly Asn Thr Ala Glu Ser Val Lys
50 55 60

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

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

Phe Tyr Arg Arg Phe Gly Ile Asn Lys Asn Tyr Trp Gly Gln Gly Thr
100 105 110

Gln Val Thr Val Ser Ser
115

<210> 19

<211> 122

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 19

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

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

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

Ala Val Ile Ser Ser Asp Gly Gly Ser Thr Arg Tyr Ala Ala Leu Val
50 55 60

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

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

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

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

<210> 20

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 20

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

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

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

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

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

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

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

Thr Gln Val Thr Val Ser Ser
115

<210> 21

<211> 115

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic

polypeptide

<400> 21

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

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

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

Ala Thr Ile Ser Asn Arg Gly Thr Ser Asn Tyr Ala Asn Ser Val Lys
50 55 60

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

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

Ala Arg Lys Trp Gly Arg Asn Tyr Trp Gly Gln Gly Thr Gln Val Thr
100 105 110

Val Ser Ser
115

<210> 22

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 22

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

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

Asp Met Ala Trp Tyr Arg Gln Ala Pro Gly Asn Gln Arg Glu Leu Val

35

40

45

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

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

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

Thr Lys Arg Arg Glu Trp Ala Lys Asp Phe Glu Tyr Trp Gly Gln Gly
 100 105 110

Thr Gln Val Thr Val Ser Ser
 115

<210> 23

<211> 114

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
 polypeptide

<400> 23

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

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

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

Val Ile Thr Asp Arg Gly Ser Thr Ser Tyr Ala Asp Ser Val Lys Gly
 50 55 60

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

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

85

90

95

Ile Ala Asp Trp Arg Gly Tyr Trp Gly Gln Gly Thr Gln Val Thr Val
 100 105 110

Ser Ser

<210> 24

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
 polypeptide

<400> 24

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

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

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

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

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

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

Thr Tyr Ile Pro Tyr Gly Gly Thr Leu His Asp Phe Trp Gly Gln Gly
 100 105 110

Thr Gln Val Thr Val Ser Ser
 115

<210> 25

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

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

<400> 25
Gln Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1 5 10 15

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

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

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

Arg Phe Thr Ile Ser Arg Asp Asn Ala Arg Asn Thr Val Tyr Leu Gln
65 70 75 80

Met Asp Ser Leu Lys Pro Glu Asp Thr Ala Ile Tyr Thr Cys His Val
85 90 95

Ile Ala Asp Trp Arg Gly Tyr Trp Gly Gln Gly Thr Gln Val Thr Val
100 105 110

Ser Ser

<210> 26
<211> 116
<212> PRT
<213> Artificial Sequence

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

<400> 26
Gln Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1 5 10 15

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

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

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

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

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

Asp Thr Ile Gly Thr Ala Arg Asp Tyr Trp Gly Gln Gly Thr Gln Val
100 105 110

Thr Val Ser Ser
115

<210> 27

<211> 117

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 27

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

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

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

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

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

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

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

Val Thr Val Ser Ser
115

<210> 28

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 28

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

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

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

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

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

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

Thr Tyr Ile Pro Tyr Gly Gly Thr Leu His Asp Phe Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 29

<211> 111

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 29

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Gly Asp Trp Ser Ala Asn
20 25 30

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

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

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

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

Val Ala Ser Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
100 105 110

<210> 30

<211> 111

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 30

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	Gly	Asp	Trp	Ser	Ala	Asn				
			20				25						30						
Phe	Met	Tyr	Trp	Tyr	Arg	Gln	Ala	Pro	Gly	Lys	Gln	Arg	Glu	Leu	Val				
			35				40						45						
Ala	Arg	Ile	Ser	Gly	Arg	Gly	Val	Val	Asp	Tyr	Val	Glu	Ser	Val	Lys				
			50				55						60						
Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ser	Lys	Asn	Thr	Leu	Tyr	Leu				
65					70						75			80					
Gln	Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys	Ala				
			85						90						95				
Val	Ala	Ser	Tyr	Trp	Gly	Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser					
			100						105						110				

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Gly Asp Trp Ser Ala Asn
20 25 30

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

Ser Arg Ile Ser Gly Arg Gly Val Val Asp Tyr Val Glu Ser Val Lys
50 55 60

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

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

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

<400> 33
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

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

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

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

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

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

Thr Tyr Ile Pro Tyr Gly Gly Thr Leu His Asp Phe Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ser
115

<210> 34
<211> 119
<212> PRT
<213> Artificial Sequence

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

<400> 34
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

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

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

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

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

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

Thr Tyr Ile Pro Tyr Gly Gly Thr Leu His Asp Phe Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ser
115

<210> 35

<211> 116

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 35

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

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

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

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

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

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

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

Thr Val Ser Ser
115

<210> 36

<211> 118

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 36

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

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

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

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

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

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

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

Thr Val Ser Ser Gly Gly
115

<210> 37

<211> 118

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 37

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

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

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

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

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

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

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

Thr Val Ser Ser Gly Gly
115

<210> 38

<211> 118

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic

polypeptide

<400> 38

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

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

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

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

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

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

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

Val Thr Val Ser Gly Gly
115

<210> 39

<211> 117

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 39

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 Arg Thr Ser Thr Ile Asp
20 25 30

Thr Met Tyr Trp His Arg Gln Ala Pro Gly Lys Glu Arg Glu Leu Val

35

40

45

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

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

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

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

Val Thr Val Ser Ser
 115

<210> 40

<211> 117

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
 polypeptide

<400> 40

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 Arg Thr Ser Thr Ile Asp
 20 25 30

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

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

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

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

85

90

95

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

Val Thr Val Ser Ser
 115

<210> 41
 <211> 7
 <212> PRT
 <213> Artificial Sequence

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

<400> 41
 Glu Ser Gly Gly Gly Leu Val
 1 5

<210> 42
 <211> 3
 <212> PRT
 <213> Artificial Sequence

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

<400> 42
 Leu Ser Cys
 1

<210> 43
 <211> 3
 <212> PRT
 <213> Artificial Sequence

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

<400> 43
 Gly Arg Phe
 1

<210> 44

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

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

 <400> 44
 Val Thr Val Ser Ser
 1 5

 <210> 45
 <211> 8
 <212> PRT
 <213> Artificial Sequence

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

 <400> 45
 Gln Leu Val Glu Ser Gly Gly Gly
 1 5

 <210> 46
 <211> 12
 <212> PRT
 <213> Artificial Sequence

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

 <400> 46
 Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly
 1 5 10

 <210> 47
 <211> 3
 <212> PRT
 <213> Artificial Sequence

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

 <400> 47
 Ala Ser Gly
 1

<210> 48
<211> 5
<212> PRT
<213> Artificial Sequence

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

<400> 48
Arg Gln Ala Pro Gly
1 5

<210> 49
<211> 33
<212> PRT
<213> Artificial Sequence

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

<400> 49
Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu
1 5 10 15

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

Cys

<210> 50
<211> 11
<212> PRT
<213> Artificial Sequence

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

<400> 50
Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
1 5 10

<210> 51
<211> 10
<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 51

Gly Arg Thr Phe Ser Val Arg Gly Met Ala
1 5 10

<210> 52

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 52

Ile Asn Ser Ser Gly Ser Thr Asn Tyr Gly
1 5 10

<210> 53

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 53

Asn Ala Gly Gly Gly Pro Leu Gly Ser Arg
1 5 10

<210> 54

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 54

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

<210> 55

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

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

<400> 55
Ile Ser Ser Gly Gly Ser Thr Asn Val Arg
1 5 10

<210> 56
<211> 10
<212> PRT
<213> Artificial Sequence

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

<400> 56
Asn Ala Asp Thr Ile Gly Thr Ala Arg Asp
1 5 10

<210> 57
<211> 630
<212> PRT
<213> Homo sapiens

<400> 57
Met Ala Leu Pro Thr Ala Arg Pro Leu Leu Gly Ser Cys Gly Thr Pro
1 5 10 15

Ala Leu Gly Ser Leu Leu Phe Leu Leu Phe Ser Leu Gly Trp Val Gln
20 25 30

Pro Ser Arg Thr Leu Ala Gly Glu Thr Gly Gln Glu Ala Ala Pro Leu
35 40 45

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

Gln Leu Leu Gly Phe Pro Cys Ala Glu Val Ser Gly Leu Ser Thr Glu
65 70 75 80

Arg Val Arg Glu Leu Ala Val Ala Leu Ala Gln Lys Asn Val Lys Leu

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

Gly Lys Lys Ala Arg Glu Ile Asp Glu Ser Leu Ile Phe Tyr Lys Lys
 305 310 315 320

Trp Glu Leu Glu Ala Cys Val Asp Ala Ala Leu Leu Ala Thr Gln Met
 325 330 335

Asp Arg Val Asn Ala Ile Pro Phe Thr Tyr Glu Gln Leu Asp Val Leu
 340 345 350

Lys His Lys Leu Asp Glu Leu Tyr Pro Gln Gly Tyr Pro Glu Ser Val
 355 360 365

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

Arg Lys Trp Asn Val Thr Ser Leu Glu Thr Leu Lys Ala Leu Leu Glu
 385 390 395 400

Val Asn Lys Gly His Glu Met Ser Pro Gln Ala Pro Arg Arg Pro Leu
 405 410 415

Pro Gln Val Ala Thr Leu Ile Asp Arg Phe Val Lys Gly Arg Gly Gln
 420 425 430

Leu Asp Lys Asp Thr Leu Asp Thr Leu Thr Ala Phe Tyr Pro Gly Tyr
 435 440 445

Leu Cys Ser Leu Ser Pro Glu Glu Leu Ser Ser Val Pro Pro Ser Ser
 450 455 460

Ile Trp Ala Val Arg Pro Gln Asp Leu Asp Thr Cys Asp Pro Arg Gln
 465 470 475 480

Leu Asp Val Leu Tyr Pro Lys Ala Arg Leu Ala Phe Gln Asn Met Asn
 485 490 495

Gly Ser Glu Tyr Phe Val Lys Ile Gln Ser Phe Leu Gly Gly Ala Pro
 500 505 510

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

515

520

525

Ala Thr Phe Met Lys Leu Arg Thr Asp Ala Val Leu Pro Leu Thr Val
 530 535 540

Ala Glu Val Gln Lys Leu Leu Gly Pro His Val Glu Gly Leu Lys Ala
 545 550 555 560

Glu Glu Arg His Arg Pro Val Arg Asp Trp Ile Leu Arg Gln Arg Gln
 565 570 575

Asp Asp Leu Asp Thr Leu Gly Leu Gly Leu Gln Gly Gly Ile Pro Asn
 580 585 590

Gly Tyr Leu Val Leu Asp Leu Ser Met Gln Glu Ala Leu Ser Gly Thr
 595 600 605

Pro Cys Leu Leu Gly Pro Gly Pro Val Leu Thr Val Leu Ala Leu Leu
 610 615 620

Leu Ala Ser Thr Leu Ala
 625 630

<210> 58

<211> 116

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
 polypeptide

<400> 58

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

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

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

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

50

55

60

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

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

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

Thr Val Ser Ser
115

<210> 59

<211> 503

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 59

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Pro Val Asn Arg Tyr
20 25 30

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

Ala Gly Met Ser Ser Ala Gly Asp Arg Ser Ser Tyr Glu Asp Ser Val
50 55 60

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

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

Asn Val Asn Val Gly Phe Glu Tyr Trp Gly Gln Gly Thr Gln Val Thr

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

Ser Arg Asp Asp Ser Lys Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu
325 330 335

Lys Thr Glu Asp Thr Ala Val Tyr Tyr Cys Val Arg His Ala Asn Phe
340 345 350

Gly Asn Ser Tyr Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu
355 360 365

Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Gly
370 375 380

Gly Gly Gly Ser Gln Thr Val Val Thr Gln Glu Pro Ser Leu Thr Val
385 390 395 400

Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Ala Ser Ser Thr Gly Ala
405 410 415

Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln Gln Lys Pro Gly Gln
420 425 430

Ala Pro Arg Gly Leu Ile Gly Gly Thr Lys Phe Leu Val Pro Gly Thr
435 440 445

Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly Lys Ala Ala Leu Thr
450 455 460

Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu Tyr Tyr Cys Thr Leu
465 470 475 480

Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val
485 490 495

Leu His His His His His His
500

<210> 60

<211> 116

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 60

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

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

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

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

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

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

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

Thr Val Ser Ser
115

<210> 61

<211> 116

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 61

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

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

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

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

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

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

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

Thr Val Ser Ser
115

<210> 62

<211> 116

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 62

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

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

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

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

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

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

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

Thr Val Ser Ser
115

<210> 63
<211> 10
<212> PRT
<213> Artificial Sequence

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

<400> 63
Gly Arg Thr Phe Ser Val Arg Gly Met Ala
1 5 10

<210> 64
<211> 10
<212> PRT
<213> Artificial Sequence

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

<400> 64
Gly Ser Ile Pro Ser Ile Glu Gln Met Gly
1 5 10

<210> 65
<211> 10
<212> PRT
<213> Artificial Sequence

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

<400> 65
Gly Thr Thr Tyr Thr Phe Asp Leu Met Ser
1 5 10

<210> 66
<211> 10
<212> PRT
<213> Artificial Sequence

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

<400> 66
Gly Ser Thr Ser Asn Ile Asn Asn Met Arg
1 5 10

<210> 67
<211> 10
<212> PRT
<213> Artificial Sequence

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

<400> 67
Gly Ser Thr Phe Gly Ile Asn Ala Met Gly
1 5 10

<210> 68
<211> 10
<212> PRT
<213> Artificial Sequence

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

<400> 68
Ile Ser Ala Phe Arg Leu Met Ser Val Arg
1 5 10

<210> 69
<211> 10
<212> PRT
<213> Artificial Sequence

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

<400> 69
Gly Arg Pro Phe Ser Ile Asn Thr Met Gly

1 5 10

<210> 70
<211> 10
<212> PRT
<213> Artificial Sequence

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

<400> 70
Gly Ser Asp Phe Thr Glu Asp Ala Met Ala
1 5 10

<210> 71
<211> 10
<212> PRT
<213> Artificial Sequence

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

<400> 71
Gly Ser Asp Phe Thr Glu Asp Ala Met Ala
1 5 10

<210> 72
<211> 10
<212> PRT
<213> Artificial Sequence

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

<400> 72
Gly Phe Thr Phe Ser Ser Phe Gly Met Ser
1 5 10

<210> 73
<211> 10
<212> PRT
<213> Artificial Sequence

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

<400> 73
Gly Leu Thr Tyr Ser Ile Val Ala Val Gly
1 5 10

<210> 74
<211> 10
<212> PRT
<213> Artificial Sequence

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

<400> 74
Gly Leu Thr Phe Gly Val Tyr Gly Met Glu
1 5 10

<210> 75
<211> 9
<212> PRT
<213> Artificial Sequence

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

<400> 75
Thr Thr Ser Ser Ile Asn Ser Met Ser
1 5

<210> 76
<211> 10
<212> PRT
<213> Artificial Sequence

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

<400> 76
Gly Arg Thr Leu Ser Arg Tyr Ala Met Gly
1 5 10

<210> 77
<211> 10
<212> PRT
<213> Artificial Sequence

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

peptide

<400> 77

Gly Ser Ile Phe Ser Pro Asn Ala Met Ile
1 5 10

<210> 78

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 78

Gly Ala Thr Ser Ala Ile Thr Asn Leu Gly
1 5 10

<210> 79

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 79

Gly Ser Thr Phe Arg Ile Arg Val Met Arg
1 5 10

<210> 80

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 80

Gly Asp Thr Ser Lys Phe Lys Ala Val Gly
1 5 10

<210> 81

<211> 10

<212> PRT

<213> Artificial Sequence

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

<400> 81
Gly Ser Thr Phe Gly Asn Lys Pro Met Gly
1 5 10

<210> 82
<211> 10
<212> PRT
<213> Artificial Sequence

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

<400> 82
Gly Ser Thr Ser Ser Ile Asn Thr Met Tyr
1 5 10

<210> 83
<211> 10
<212> PRT
<213> Artificial Sequence

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

<400> 83
Gly Arg Thr Asp Arg Ile Thr Thr Met Gly
1 5 10

<210> 84
<211> 10
<212> PRT
<213> Artificial Sequence

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

<400> 84
Gly Arg Thr Ile Gly Ile Asn Asp Met Ala
1 5 10

<210> 85
<211> 9
<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 85

Ala Ile Gly Ser Ile Asn Ser Met Ser
1 5

<210> 86

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 86

Gly Ser Thr Ser Ser Ile Asn Thr Met Tyr
1 5 10

<210> 87

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 87

Thr Thr Phe Ser Ile Asn Ser Met Ser
1 5

<210> 88

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 88

Gly Ser Thr Phe Ser Ile Arg Ala Met Arg
1 5 10

<210> 89

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

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

 <400> 89
 Gly Arg Thr Ser Thr Ile Asp Thr Met Tyr
 1 5 10

 <210> 90
 <211> 10
 <212> PRT
 <213> Artificial Sequence

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

 <400> 90
 Gly Ser Thr Ser Ser Ile Asn Thr Met Tyr
 1 5 10

 <210> 91
 <211> 10
 <212> PRT
 <213> Artificial Sequence

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

 <400> 91
 Gly Gly Asp Trp Ser Ala Asn Phe Met Tyr
 1 5 10

 <210> 92
 <211> 10
 <212> PRT
 <213> Artificial Sequence

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

 <400> 92
 Gly Gly Asp Trp Ser Ala Asn Phe Met Tyr
 1 5 10

<210> 93
<211> 10
<212> PRT
<213> Artificial Sequence

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

<400> 93
Gly Ser Thr Ser Ser Ile Asn Thr Met Tyr
1 5 10

<210> 94
<211> 10
<212> PRT
<213> Artificial Sequence

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

<400> 94
Gly Ser Thr Ser Ser Ile Asn Thr Met Tyr
1 5 10

<210> 95
<211> 10
<212> PRT
<213> Artificial Sequence

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

<400> 95
Gly Ser Thr Ser Ser Ile Asn Thr Met Tyr
1 5 10

<210> 96
<211> 10
<212> PRT
<213> Artificial Sequence

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

<400> 96
Gly Ser Thr Phe Ser Ile Arg Ala Met Arg

1 5 10

<210> 97
<211> 10
<212> PRT
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<220>
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peptide

<400> 97
Gly Ser Thr Phe Ser Ile Arg Ala Met Arg
1 5 10

<210> 98
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
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peptide

<400> 98
Gly Ser Thr Phe Ser Ile Arg Ala Met Arg
1 5 10

<210> 99
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
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peptide

<400> 99
Gly Arg Thr Ser Thr Ile Asp Thr Met Tyr
1 5 10

<210> 100
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
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peptide

<400> 100
Gly Arg Thr Ser Thr Ile Asp Thr Met Tyr
1 5 10

<210> 101
<211> 10
<212> PRT
<213> Artificial Sequence

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

<400> 101
Gly Arg Thr Ser Thr Ile Asp Thr Met Tyr
1 5 10

<210> 102
<211> 19
<212> PRT
<213> Artificial Sequence

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

<400> 102
Thr Met Asn Pro Asp Gly Phe Pro Asn Tyr Ala Asp Ala Val Lys Gly
1 5 10 15

Arg Phe Thr

<210> 103
<211> 19
<212> PRT
<213> Artificial Sequence

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

<400> 103
Ala Leu Thr Ser Gly Gly Arg Ala Asn Tyr Ala Asp Ser Val Lys Gly
1 5 10 15

Arg Phe Thr

<210> 104
<211> 19
<212> PRT
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<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 104
Ser Ile Ser Ser Asp Gly Arg Thr Ser Tyr Ala Asp Ser Val Arg Gly
1 5 10 15

Arg Phe Thr

<210> 105
<211> 19
<212> PRT
<213> Artificial Sequence

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

<400> 105
Val Ile Thr Arg Gly Gly Tyr Ala Ile Tyr Leu Asp Ala Val Lys Gly
1 5 10 15

Arg Phe Thr

<210> 106
<211> 19
<212> PRT
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<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 106
Val Ile Ser Arg Gly Gly Ser Thr Asn Tyr Ala Asp Ser Val Lys Gly
1 5 10 15

Arg Phe Thr

<210> 107
<211> 19
<212> PRT
<213> Artificial Sequence

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

<400> 107
Thr Ile Asp Gln Leu Gly Arg Thr Asn Tyr Ala Asp Ser Val Lys Gly
1 5 10 15

Arg Phe Ala

<210> 108
<211> 19
<212> PRT
<213> Artificial Sequence

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

<400> 108
Ser Ile Ser Ser Ser Gly Asp Phe Thr Tyr Thr Asp Ser Val Lys Gly
1 5 10 15

Arg Phe Thr

<210> 109
<211> 20
<212> PRT
<213> Artificial Sequence

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

<400> 109
Phe Val Ser Lys Asp Gly Lys Arg Ile Leu Tyr Leu Asp Ser Val Arg
1 5 10 15

Gly Arg Phe Thr
20

<210> 110
<211> 20
<212> PRT
<213> Artificial Sequence

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

<400> 110
Phe Val Ser Lys Asp Gly Lys Arg Ile Leu Tyr Leu Asp Ser Val Arg
1 5 10 15

Gly Arg Phe Thr
20

<210> 111
<211> 20
<212> PRT
<213> Artificial Sequence

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

<400> 111
Ser Ile Ser Gly Ser Gly Ser Asp Thr Leu Tyr Ala Asp Ser Val Lys
1 5 10 15

Gly Arg Phe Thr
20

<210> 112
<211> 19
<212> PRT
<213> Artificial Sequence

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

<400> 112
Asp Ile Ser Pro Val Gly Asn Thr Asn Tyr Ala Asp Ser Val Lys Gly
1 5 10 15

Arg Phe Thr

<210> 113
<211> 19
<212> PRT
<213> Artificial Sequence

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

<400> 113
Ser His Thr Ser Thr Gly Tyr Val Tyr Tyr Arg Asp Ser Val Lys Gly
1 5 10 15

Arg Phe Thr

<210> 114
<211> 19
<212> PRT
<213> Artificial Sequence

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

<400> 114
Val Ile Thr Asp Arg Gly Ser Thr Ser Tyr Ala Asp Ser Val Lys Gly
1 5 10 15

Arg Phe Thr

<210> 115
<211> 20
<212> PRT
<213> Artificial Sequence

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

<400> 115
Ala Ile Ser Arg Ser Gly Gly Thr Thr Arg Tyr Ser Asp Ser Val Lys
1 5 10 15

Gly Arg Phe Thr
20

<210> 116
<211> 19
<212> PRT
<213> Artificial Sequence

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

<400> 116
Ser Ile Asn Ser Ser Gly Ser Thr Asn Tyr Gly Asp Ser Val Lys Gly
1 5 10 15

Arg Phe Thr

<210> 117
<211> 20
<212> PRT
<213> Artificial Sequence

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

<400> 117
Arg Ile Ser Val Arg Glu Asp Lys Glu Asp Tyr Glu Asp Ser Val Lys
1 5 10 15

Gly Arg Phe Thr
20

<210> 118
<211> 18
<212> PRT
<213> Artificial Sequence

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

<400> 118
Val Ile Ser Gly Ser Ser Thr Tyr Tyr Ala Asp Ser Val Lys Gly Arg
1 5 10 15

Phe Thr

<210> 119
<211> 19
<212> PRT
<213> Artificial Sequence

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

<400> 119
Trp Ile Asn Asn Ser Gly Val Gly Asn Thr Ala Glu Ser Val Lys Gly
1 5 10 15

Arg Phe Thr

<210> 120
<211> 20
<212> PRT
<213> Artificial Sequence

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

<400> 120
Val Ile Ser Ser Asp Gly Gly Ser Thr Arg Tyr Ala Ala Leu Val Lys
1 5 10 15

Gly Arg Phe Thr
20

<210> 121
<211> 19
<212> PRT
<213> Artificial Sequence

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

<400> 121
Phe Ile Ser Ser Gly Gly Ser Thr Asn Val Arg Asp Ser Val Lys Gly
1 5 10 15

Arg Phe Ser

<210> 122
<211> 19
<212> PRT
<213> Artificial Sequence

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

<400> 122
Thr Ile Ser Asn Arg Gly Thr Ser Asn Tyr Ala Asn Ser Val Lys Gly
1 5 10 15

Arg Phe Thr

<210> 123
<211> 19
<212> PRT
<213> Artificial Sequence

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

<400> 123
Thr Ile Thr Lys Gly Gly Thr Thr Asp Tyr Ala Asp Ser Val Asp Gly
1 5 10 15

Arg Phe Thr

<210> 124
<211> 19
<212> PRT
<213> Artificial Sequence

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

<400> 124
Val Ile Thr Asp Arg Gly Ser Thr Ser Tyr Ala Asp Ser Val Lys Gly
1 5 10 15

Arg Phe Thr

<210> 125
<211> 19
<212> PRT
<213> Artificial Sequence

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

<400> 125
Thr Ile Asn Arg Gly Gly Ser Thr Asn Val Arg Asp Ser Val Lys Gly
1 5 10 15

Arg Phe Ser

<210> 126
<211> 19
<212> PRT
<213> Artificial Sequence

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

<400> 126
Val Ile Thr Asn Arg Gly Thr Thr Ser Tyr Ala Asp Ser Val Lys Gly
1 5 10 15

Arg Phe Thr

<210> 127
<211> 18
<212> PRT
<213> Artificial Sequence

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

<400> 127
Val Ile Tyr Gly Ser Ser Thr Tyr Tyr Ala Asp Ala Val Lys Gly Arg
1 5 10 15

Phe Thr

<210> 128
<211> 19
<212> PRT
<213> Artificial Sequence

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

<400> 128
Tyr Val Thr Ser Arg Gly Thr Ser Asn Val Ala Asp Ser Val Lys Gly
1 5 10 15

Arg Phe Thr

<210> 129
<211> 19
<212> PRT
<213> Artificial Sequence

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

<400> 129
Phe Ile Ser Ser Gly Gly Ser Thr Asn Val Arg Asp Ser Val Lys Gly
1 5 10 15

Arg Phe Ser

<210> 130
<211> 19
<212> PRT
<213> Artificial Sequence

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

<400> 130
Arg Ile Ser Gly Arg Gly Val Val Asp Tyr Val Glu Ser Val Lys Gly
1 5 10 15

Arg Phe Thr

<210> 131
<211> 19
<212> PRT
<213> Artificial Sequence

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

<400> 131
Arg Ile Ser Gly Arg Gly Val Val Asp Tyr Val Glu Ser Val Lys Gly
1 5 10 15

Arg Phe Thr

<210> 132
<211> 19
<212> PRT
<213> Artificial Sequence

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

<400> 132
Phe Ile Ser Ser Gly Gly Ser Thr Asn Val Arg Asp Ser Val Lys Gly
1 5 10 15

Arg Phe Thr

<210> 133
<211> 19
<212> PRT
<213> Artificial Sequence

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

<400> 133
Phe Ile Ser Ser Gly Gly Ser Thr Asn Val Arg Asp Ser Val Lys Gly
1 5 10 15

Arg Phe Thr

<210> 134
<211> 19
<212> PRT
<213> Artificial Sequence

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

<400> 134
Phe Ile Ser Ser Gly Gly Ser Thr Asn Val Arg Asp Ser Val Lys Gly
1 5 10 15

Arg Phe Thr

<210> 135
<211> 18
<212> PRT
<213> Artificial Sequence

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

<400> 135
Val Ile Tyr Gly Ser Ser Thr Tyr Tyr Ala Asp Ala Val Lys Gly Arg
1 5 10 15

Phe Thr

<210> 136
<211> 18
<212> PRT
<213> Artificial Sequence

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

<400> 136
Val Ile Tyr Gly Ser Ser Thr Tyr Tyr Ala Asp Ala Val Lys Gly Arg
1 5 10 15

Phe Thr

<210> 137
<211> 18
<212> PRT
<213> Artificial Sequence

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

<400> 137
Val Ile Tyr Gly Ser Ser Thr Tyr Tyr Ala Asp Ala Val Lys Gly Arg
1 5 10 15

Phe Thr

<210> 138
<211> 19
<212> PRT
<213> Artificial Sequence

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

<400> 138
Tyr Val Thr Ser Arg Gly Thr Ser Asn Val Ala Asp Ser Val Lys Gly
1 5 10 15

Arg Phe Thr

<210> 139
<211> 19
<212> PRT
<213> Artificial Sequence

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

<400> 139
Tyr Val Thr Ser Arg Gly Thr Ser Asn Val Ala Asp Ser Val Lys Gly
1 5 10 15

Arg Phe Thr

<210> 140
<211> 19
<212> PRT
<213> Artificial Sequence

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

<400> 140
Tyr Val Thr Ser Arg Gly Thr Ser Asn Val Ala Asp Ser Val Lys Gly
1 5 10 15

Arg Phe Thr

<210> 141
<211> 3
<212> PRT
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<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 141
Gly Pro Tyr
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<210> 142
<211> 15
<212> PRT
<213> Artificial Sequence

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

<400> 142
Gly Arg Phe Lys Gly Asp Tyr Ala Gln Arg Ser Gly Met Asp Tyr
1 5 10 15

<210> 143
<211> 8
<212> PRT
<213> Artificial Sequence

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

peptide

<400> 143

Gln Arg Ser Gly Val Arg Ala Phe
1 5

<210> 144

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 144

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

<210> 145

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 145

Arg Thr Tyr Thr Arg His Asp Tyr
1 5

<210> 146

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 146

Gly Gly Gly Pro Leu Gly Ser Arg Trp Leu Arg Gly Arg His
1 5 10

<210> 147

<211> 11

<212> PRT

<213> Artificial Sequence

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

<400> 147
Arg Arg Thr Tyr Leu Pro Arg Arg Phe Gly Ser
1 5 10

<210> 148
<211> 8
<212> PRT
<213> Artificial Sequence

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

<400> 148
Ala Pro Gly Ala Ala Arg Asn Tyr
1 5

<210> 149
<211> 8
<212> PRT
<213> Artificial Sequence

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

<400> 149
Ala Pro Gly Ala Ala Arg Asn Val
1 5

<210> 150
<211> 8
<212> PRT
<213> Artificial Sequence

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

<400> 150
Gly Gly Ser Leu Ser Arg Ser Ser
1 5

<210> 151
<211> 16
<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 151

Val Arg Gly Trp Leu Asp Glu Arg Pro Gly Pro Gly Pro Ile Val Tyr
1 5 10 15

<210> 152

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 152

Asn Arg Gly Ser Tyr Glu Tyr
1 5

<210> 153

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 153

Ile Ala Asp Trp Arg Gly Tyr
1 5

<210> 154

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 154

Arg Arg Arg Gly Trp Gly Arg Thr Leu Glu Tyr
1 5 10

<210> 155

<211> 9
 <212> PRT
 <213> Artificial Sequence

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

 <400> 155
 Ser Asp Phe Arg Arg Gly Thr Gln Tyr
 1 5

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

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

 <400> 156
 Gln Arg Trp Gly Arg Gly Pro Gly Thr Thr
 1 5 10

 <210> 157
 <211> 9
 <212> PRT
 <213> Artificial Sequence

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

 <400> 157
 Asp Asp Ser Gly Ile Ala Arg Asp Tyr
 1 5

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

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

 <400> 158
 Tyr Arg Arg Phe Gly Ile Asn Lys Asn Tyr
 1 5 10

<210> 159
 <211> 13
 <212> PRT
 <213> Artificial Sequence

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

 <400> 159
 Leu Arg Thr Tyr Tyr Leu Asn Asp Pro Val Val Phe Ser
 1 5 10

<210> 160
 <211> 11
 <212> PRT
 <213> Artificial Sequence

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

 <400> 160
 Tyr Ile Pro Leu Arg Gly Thr Leu His Asp Tyr
 1 5 10

<210> 161
 <211> 7
 <212> PRT
 <213> Artificial Sequence

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

 <400> 161
 Arg Lys Trp Gly Arg Asn Tyr
 1 5

<210> 162
 <211> 11
 <212> PRT
 <213> Artificial Sequence

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

 <400> 162
 Lys Arg Arg Glu Trp Ala Lys Asp Phe Glu Tyr

10

<213> Artificial Sequence

<223> Description of Artificial Sequence: Synthetic peptide

5

<213> Artificial Sequence

<223> Description of Artificial Sequence: Synthetic peptide

10

<213> Artificial Sequence

<223> Description of Artificial Sequence: Synthetic peptide

5

<213> Artificial Sequence

<223> Description of Artificial Sequence: Synthetic peptide

<400> 166
Asp Thr Ile Gly Thr Ala Arg Asp Tyr
1 5

<210> 167
<211> 9
<212> PRT
<213> Artificial Sequence

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

<400> 167
Arg Thr Thr Ser Tyr Pro Val Asp Phe
1 5

<210> 168
<211> 11
<212> PRT
<213> Artificial Sequence

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

<400> 168
Tyr Ile Pro Tyr Gly Gly Thr Leu His Asp Phe
1 5 10

<210> 169
<211> 3
<212> PRT
<213> Artificial Sequence

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

<400> 169
Ala Ser Tyr
1

<210> 170
<211> 3
<212> PRT
<213> Artificial Sequence

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

peptide

<400> 170

Ala Ser Tyr

1

<210> 171

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 171

Tyr Ile Pro Tyr Gly Gly Thr Leu His Asp Phe

1

5

10

<210> 172

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 172

Tyr Ile Pro Tyr Gly Gly Thr Leu His Asp Phe

1

5

10

<210> 173

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 173

Tyr Ile Pro Tyr Gly Gly Thr Leu His Asp Phe

1

5

10

<210> 174

<211> 9

<212> PRT

<213> Artificial Sequence

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

<400> 174
Asp Thr Ile Gly Thr Ala Arg Asp Tyr
1 5

<210> 175
<211> 9
<212> PRT
<213> Artificial Sequence

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

<400> 175
Asp Thr Ile Gly Thr Ala Arg Asp Tyr
1 5

<210> 176
<211> 9
<212> PRT
<213> Artificial Sequence

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

<400> 176
Asp Thr Ile Gly Thr Ala Arg Asp Tyr
1 5

<210> 177
<211> 9
<212> PRT
<213> Artificial Sequence

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

<400> 177
Arg Thr Thr Ser Tyr Pro Val Asp Phe
1 5

<210> 178
<211> 9
<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 178

Arg Thr Thr Ser Tyr Pro Val Asp Phe
1 5

<210> 179

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 179

Arg Thr Thr Ser Tyr Pro Val Asp Phe
1 5

<210> 180

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 180

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser
20 25

<210> 181

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 181

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

1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser
20 25

<210> 182

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 182

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

Ser Leu Arg Leu Ser Cys Ala Phe Ser
20 25

<210> 183

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 183

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

Ser Leu Arg Leu Ser Cys Val Ala Ser
20 25

<210> 184

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 184

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

1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser
20 25

<210> 185

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 185

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser
20 25

<210> 186

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 186

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser
20 25

<210> 187

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 187

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

1 5 10 15

Ser Leu Arg Leu Ser Cys Val Val Ser
20 25

<210> 188

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 188

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

Ser Leu Arg Leu Ser Cys Val Val Ser
20 25

<210> 189

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 189

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser
20 25

<210> 190

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 190

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

1 5 10 15

Ser Leu Arg Leu Ser Cys Val Ala Ser
20 25

<210> 191

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 191

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser
20 25

<210> 192

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 192

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser
20 25

<210> 193

<211> 25

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic
peptide

<400> 193

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

1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser
20 25

<210> 194

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 194

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser
20 25

<210> 195

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 195

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser
20 25

<210> 196

<211> 25

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic
peptide

<400> 196

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

1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser
20 25

<210> 197

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 197

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

Ser Arg Arg Leu Ser Cys Ala Val Ser
20 25

<210> 198

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 198

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser
20 25

<210> 199

<211> 25

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<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 199

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

1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser
20 25

<210> 200

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 200

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

Ser Leu Arg Leu Ser Cys Val Ala Ser
20 25

<210> 201

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 201

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

Ser Leu Arg Leu Ser Cys Thr Ala Ser
20 25

<210> 202

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 202

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

1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser
20 25

<210> 203

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 203

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser
20 25

<210> 204

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 204

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

Ser Leu Arg Leu Ser Cys Thr Thr Ser
20 25

<210> 205

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 205

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

1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser
20 25

<210> 206

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 206

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

Ser Leu Arg Leu Ser Cys Val Ala Ser
20 25

<210> 207

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 207

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser
20 25

<210> 208

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 208

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
20 25

<210> 209

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 209

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
20 25

<210> 210

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 210

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser
20 25

<210> 211

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<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 211

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
20 25

<210> 212

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 212

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
20 25

<210> 213

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 213

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser
20 25

<210> 214

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 214

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

1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser
20 25

<210> 215

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 215

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser
20 25

<210> 216

<211> 25

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic
peptide

<400> 216

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

Ser Leu Arg Leu Ser Cys Val Ala Ser
20 25

<210> 217

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 217

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
20 25

<210> 218

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 218

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
20 25

<210> 219

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 219

Trp Tyr Arg Gln Ala Gly Asn Asn Arg Ala Leu Val Ala
1 5 10

<210> 220

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 220

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

<210> 221

<211> 14
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 <220>
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 peptide

 <400> 221
 Trp Tyr Arg Gln Ala Pro Gly Lys Gln Arg Thr Val Val Ala
 1 5 10

<210> 222
 <211> 14
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 <220>
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 peptide

<400> 222
 Trp Tyr Arg Gln Ala Pro Gly Lys Glu Arg Glu Leu Val Ala
 1 5 10

<210> 223
 <211> 14
 <212> PRT
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<220>
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 peptide

<400> 223
 Trp Tyr Arg Gln Ala Pro Gly Lys Gln Arg Glu Leu Val Ala
 1 5 10

<210> 224
 <211> 14
 <212> PRT
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<220>
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 peptide

<400> 224
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 1 5 10

<210> 225
 <211> 14
 <212> PRT
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 <220>
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 peptide

 <400> 225
 Trp Tyr Arg Gln Ala Pro Gly Lys Gln Arg Glu Leu Val Ala
 1 5 10

<210> 226
 <211> 14
 <212> PRT
 <213> Artificial Sequence

 <220>
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 peptide

 <400> 226
 Trp Tyr Arg Gln Ala Ser Gly Lys Glu Arg Glu Ser Val Ala
 1 5 10

<210> 227
 <211> 14
 <212> PRT
 <213> Artificial Sequence

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

 <400> 227
 Trp Tyr Arg Gln Ala Ser Gly Lys Glu Arg Glu Ser Val Ala
 1 5 10

<210> 228
 <211> 14
 <212> PRT
 <213> Artificial Sequence

 <220>
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 peptide

 <400> 228
 Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ser

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<210> 229

<211> 14

<212> PRT

<213> Artificial Sequence

 $\langle 220 \rangle$

<223> Description of Artificial Sequence: Synthetic peptide

<400> 229

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

<210> 230

<211> 14

<212> PRT

<213> Artificial Sequence

 $\langle 220 \rangle$

<223> Description of Artificial Sequence: Synthetic peptide

<400> 230

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

<210> 231

<211> 14

<212> PRT

<213> Artificial Sequence

$\langle 220 \rangle$

<223> Description of Artificial Sequence: Synthetic peptide

<400> 231

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

<210> 232

<211> 14

<212> PRT

<213> Artificial Sequence

$\langle 220 \rangle$

<223> Description of Artificial Sequence: Synthetic peptide

<400> 232
Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Gln Phe Val Ala
1 5 10

<210> 233
<211> 14
<212> PRT
<213> Artificial Sequence

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

<400> 233
Trp His Arg Gln Ala Pro Gly Lys Gln Arg Glu Pro Val Ala
1 5 10

<210> 234
<211> 14
<212> PRT
<213> Artificial Sequence

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

<400> 234
Trp Tyr Arg Arg Ala Pro Gly Gln Val Arg Glu Met Val Ala
1 5 10

<210> 235
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
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peptide

<400> 235
Trp Tyr Arg Gln Ala Pro Gly Thr Glu Arg Asp Leu Val Ala
1 5 10

<210> 236
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
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peptide

<400> 236

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

<210> 237

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 237

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

<210> 238

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 238

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

<210> 239

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 239

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

<210> 240

<211> 14

<212> PRT

<213> Artificial Sequence

<220>
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<400> 240
Trp Tyr Arg Gln Ala Pro Gly Asn Gln Arg Glu Leu Val Ala
1 5 10

<210> 241
<211> 14
<212> PRT
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<220>
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<400> 241
Trp Tyr Arg Gln Ala Pro Gly Lys Gln Arg Glu Pro Val Ala
1 5 10

<210> 242
<211> 14
<212> PRT
<213> Artificial Sequence

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

<400> 242
Trp Phe Arg Gln Ala Pro Gly Glu Glu Arg Glu Leu Val Ala
1 5 10

<210> 243
<211> 14
<212> PRT
<213> Artificial Sequence

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

<400> 243
Trp Tyr Arg Gln Ala Pro Gly Asn Gln Arg Glu Pro Val Ala
1 5 10

<210> 244
<211> 14
<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 244

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

<210> 245

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 245

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

<210> 246

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 246

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

<210> 247

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 247

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

<210> 248

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

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

 <400> 248
 Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ser
 1 5 10

<210> 249
 <211> 14
 <212> PRT
 <213> Artificial Sequence

 <220>
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 peptide

<400> 249
 Trp Tyr Arg Gln Ala Pro Gly Lys Glu Arg Glu Leu Val Ala
 1 5 10

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

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

<400> 250
 Trp Tyr Arg Gln Ala Pro Gly Lys Glu Arg Glu Leu Val Ala
 1 5 10

<210> 251
 <211> 14
 <212> PRT
 <213> Artificial Sequence

<220>
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 peptide

<400> 251
 Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ser
 1 5 10

<210> 252
 <211> 14
 <212> PRT
 <213> Artificial Sequence

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

 <400> 252
 Trp Tyr Arg Gln Ala Pro Gly Thr Glu Arg Asp Leu Val Ala
 1 5 10

<210> 253
 <211> 14
 <212> PRT
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 <220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

 <400> 253
 Trp Tyr Arg Gln Ala Pro Gly Lys Glu Arg Glu Leu Val Ala
 1 5 10

<210> 254
 <211> 14
 <212> PRT
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 peptide

 <400> 254
 Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ser
 1 5 10

<210> 255
 <211> 14
 <212> PRT
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 <220>
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 peptide

 <400> 255
 Trp His Arg Gln Ala Pro Gly Asn Glu Arg Glu Leu Val Ala

1 5 10

<210> 256

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 256

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

<210> 257

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 257

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

<210> 258

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 258

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

Leu Asn Ser Glu Asp Thr Thr Val Tyr Tyr Cys Asn Ser
20 25

<210> 259

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 259

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

Leu Lys Pro Glu Asp Thr Ala Ile Tyr Tyr Cys Ser Ala
20 25

<210> 260

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 260

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

Leu Lys Leu Glu Asp Thr Ala Val Tyr Tyr Cys Leu Gly
20 25

<210> 261

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 261

Ile Ser Arg Asp Asn Ala Asn Asn Ala Ile Tyr Leu Glu Met Asn Ser
1 5 10 15

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

<210> 262

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 262

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

Leu	Lys	Pro	Glu	Asp	Thr	Ala	Val	Tyr	Phe	Cys	Asn	Ala
			20					25				

<210> 263

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 263

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

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

<210> 264

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 264

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

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

<210> 265

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 265

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

Leu	Lys	Pro	Glu	Asp	Thr	Gly	Val	Tyr	Tyr	Cys	Asn	Ser
			20					25				

<210> 266

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 266

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

Leu	Lys	Pro	Glu	Asp	Thr	Gly	Val	Tyr	Tyr	Cys	Asn	Ser
			20					25				

<210> 267

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 267

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

Leu	Arg	Pro	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys	Thr	Ile
			20					25				

<210> 268

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 268

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

Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys His Ile
20 25

<210> 269

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 269

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

Leu Lys Pro Glu Asp Thr Ala Ile Tyr Tyr Cys Lys Ala
20 25

<210> 270

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 270

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

Leu Lys Pro Glu Asp Thr Ala Ile Tyr Thr Cys His Val
20 25

<210> 271

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 271

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

Leu Arg Pro Asp Asp Thr Ala Val Tyr Tyr Cys Asn Val
20 25

<210> 272

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 272

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

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

<210> 273

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 273

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

Leu Gln Pro His Asp Thr Ala Ile Tyr Tyr Cys Gly Ala
20 25

<210> 274

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 274

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

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

<210> 275

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 275

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

Leu Thr Pro Glu Asp Thr Asp Val Tyr Tyr Cys Arg Phe
20 25

<210> 276

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 276

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

Leu Val Ala Glu Asp Thr Ala Val Tyr Tyr Cys Asn Ala
20 25

<210> 277

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 277

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

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

<210> 278

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 278

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

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

<210> 279

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 279

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

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

<210> 280

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 280

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

Leu Lys Pro Glu Asp Thr Ala Ile Tyr Thr Cys His Val
20 25

<210> 281

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 281

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

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

<210> 282

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 282

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

Leu Lys Pro Glu Asp Thr Ala Ile Tyr Thr Cys His Val
20 25

<210> 283

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 283

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

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

<210> 284

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 284

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

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

<210> 285

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 285

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

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

<210> 286

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 286

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

Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Val
20 25

<210> 287

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 287

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

Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Val
20 25

<210> 288

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 288

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

Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Asn Thr
20 25

<210> 289

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 289

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

Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Asn Thr
20 25

<210> 290

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 290

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

Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Asn Thr
20 25

<210> 291

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 291

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

Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Asn Ala
20 25

<210> 292

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 292

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

Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Asn Ala
20 25

<210> 293

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 293

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

Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Asn Ala
20 25

<210> 294

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 294

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

Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ser Val
20 25

<210> 295

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 295

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

Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ser Val
20 25

<210> 296

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 296

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

Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ser Val
20 25

<210> 297

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 297

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

<210> 298

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 298
Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser
1 5 10

<210> 299
<211> 11
<212> PRT
<213> Artificial Sequence

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

<400> 299
Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
1 5 10

<210> 300
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
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peptide

<400> 300
Phe Gly Gln Gly Thr Gln Val Thr Val Ser Ser
1 5 10

<210> 301
<211> 11
<212> PRT
<213> Artificial Sequence

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

<400> 301
Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
1 5 10

<210> 302
<211> 11
<212> PRT
<213> Artificial Sequence

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

peptide

<400> 302

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

<210> 303

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 303

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

<210> 304

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 304

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

<210> 305

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 305

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

<210> 306

<211> 9

<212> PRT

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<400> 306
Gln Gly Thr Leu Val Thr Val Ser Ser
1 5

<210> 307
<211> 11
<212> PRT
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<400> 307
Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
1 5 10

<210> 308
<211> 11
<212> PRT
<213> Artificial Sequence

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<400> 308
Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
1 5 10

<210> 309
<211> 11
<212> PRT
<213> Artificial Sequence

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

<400> 309
Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
1 5 10

<210> 310
<211> 11
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<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 310

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

<210> 311

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 311

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

<210> 312

<211> 11

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 312

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

<210> 313

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 313

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

<210> 314

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

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 <400> 314
 Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
 1 5 10

 <210> 315
 <211> 11
 <212> PRT
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 <400> 315
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 1 5 10

 <210> 316
 <211> 11
 <212> PRT
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 <400> 316
 Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
 1 5 10

 <210> 317
 <211> 11
 <212> PRT
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 <400> 317
 Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
 1 5 10

<210> 318
<211> 11
<212> PRT
<213> Artificial Sequence

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<400> 318
Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
1 5 10

<210> 319
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
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<400> 319
Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
1 5 10

<210> 320
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
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<400> 320
Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
1 5 10

<210> 321
<211> 11
<212> PRT
<213> Artificial Sequence

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

<400> 321
Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser

1 5 10

<210> 322

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 322

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

<210> 323

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 323

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

<210> 324

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 324

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

<210> 325

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 325
Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
1 5 10

<210> 326
<211> 11
<212> PRT
<213> Artificial Sequence

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

<400> 326
Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
1 5 10

<210> 327
<211> 11
<212> PRT
<213> Artificial Sequence

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

<400> 327
Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
1 5 10

<210> 328
<211> 11
<212> PRT
<213> Artificial Sequence

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

<400> 328
Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
1 5 10

<210> 329
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<212> PRT
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<220>
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peptide

<400> 329

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

<210> 330

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 330

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

<210> 331

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 331

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

<210> 332

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 332

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

<210> 333

<211> 10

<212> PRT

<213> Artificial Sequence

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

<400> 333
Trp Gly Gln Gly Thr Leu Val Thr Val Ser
1 5 10

<210> 334
<211> 11
<212> PRT
<213> Artificial Sequence

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

<400> 334
Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
1 5 10

<210> 335
<211> 11
<212> PRT
<213> Artificial Sequence

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

<400> 335
Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
1 5 10

<210> 336
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic 6xHis tag

<400> 336
His His His His His His
1 5