

SEQUENCE LISTING

<110> Genentech, Inc.
F. Hoffmann-La Roche AG

<120> ANTI-TIGIT ANTIBODIES AND METHODS OF USE

<130> 50474-120W03

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<151> 2016-08-01

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<151> 2015-09-25

<160> 354

<170> PatentIn version 3.5

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Ala

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

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

Ser Ala Ala Trp Asn Trp Ile Arg Gln Ser Pro Ser Arg Gly Leu Glu
35 40 45

Trp Leu Gly Lys Thr Tyr Tyr Arg Phe Lys Trp Tyr Ser Asp Tyr Ala
50 55 60

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

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

Phe Tyr Cys Thr Arg Glu Ser Thr Thr Tyr Asp Leu Leu Ala Gly Pro
100 105 110

Phe Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
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Gln Val Gln Leu Gln Gln Ser Gly Pro Gly Leu Val Lys Pro Ser Gln
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Thr Leu Ser Leu Thr Cys Ala Ile Ser Gly Asp Ser Val Ser Ser Asn
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Ser Ala Ala Trp Asn Trp Ile Arg Gln Ser Pro Ser Arg Gly Leu Glu
35 40 45

Trp Leu Gly Lys Thr Tyr Tyr Arg Phe Lys Trp Tyr Ser Asp Tyr Ala
50 55 60

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

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

Phe Tyr Cys Thr Arg Glu Ser Thr Thr Tyr Asp Leu Leu Ala Gly Pro
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Phe Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
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Asp Ile Val Met Thr Gln Ser Pro Asp Ser Leu Ala Val Ser Leu Gly
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Glu Arg Ala Thr Ile Asn Cys Lys Ser Ser Gln Thr Val Leu Tyr Ser
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Ser Asn Asn Lys Lys Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln
Page 8

35

40

45

Pro Pro Asn Leu Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Val
50 55 60

Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr
65 70 75 80

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

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

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Glu Val Gln Leu Val Gln Ser Gly Ser Asp Leu Lys Lys Pro Gly Ala
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Ser Val Arg Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr
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Pro Met Asn Trp Val Arg Gln Ala Pro Gly His Gly Leu Glu Trp Met
35 40 45

Gly Trp Ile Asn Thr Asn Thr Gly Asn Pro Thr Tyr Val Gln Gly Phe
50 55 60

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

Leu Gln Ile Ser Ser Leu Lys Ala Glu Asp Thr Ala Val Tyr Phe Cys
85 90 95

Ala Arg Thr Gly Gly His Thr Tyr Asp Ser Tyr Ala Phe Asp Val Trp
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Gly Gln Gly Thr Met Val Thr Val Ser Ser
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Asp Ile Gln Leu Thr Gln Ser Pro Thr Phe Leu Ser Ala Ser Val Gly
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Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Val Ile Ser Ser Ser
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Leu Ala Trp Tyr Gln Gln Asn Pro Gly Lys Ala Pro Lys Leu Leu Ile
35 40 45

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

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

Glu Asp Phe Val Thr Tyr Tyr Cys Gln His Leu His Gly Tyr Pro Ser
85 90 95

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

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

Gly Trp Ile Asn Thr Asn Thr Gly Asn Pro Thr Tyr Val Gln Gly Phe
50 55 60

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

Leu Gln Ile Ser Ser Leu Lys Ala Glu Asp Thr Ala Val Tyr Phe Cys
85 90 95

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

Gly Gln Gly Thr Met Val Thr Val Ser Ser
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Asp Ile Gln Leu Thr Gln Ser Pro Thr Phe Leu Ser Ala Ser Val Gly
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Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Val Ile Ser Ser Ser
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Leu Ala Trp Tyr Gln Gln Asn Pro Gly Lys Ala Pro Lys Leu Leu Ile
 35 40 45

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

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

Glu Asp Phe Val Thr Tyr Tyr Cys Gln His Leu His Gly Tyr Pro Cys
 85 90 95

Asn Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
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Asn Tyr Pro Met Asn
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Trp Ile Asn Thr Asn Thr Gly Ser Pro Ala Tyr Ala Gln Asp Phe Thr
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Glu

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Thr Ala Ile Thr Ser Val Tyr His Phe Asp Tyr
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Arg Ala Ser Gln Gly Ile Ser Ser Tyr Leu Ala
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Gly Ala Thr Thr Leu Gln Ser
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Gln Lys Leu Asn Ser His Pro Cys Ser
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Gln Lys Leu Asn Ser His Pro Ser Ser
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Gln Lys Leu Asn Ser His Pro Tyr Ser
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Trp Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Trp Met Gly
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Arg Phe Val Phe Ser Leu Asp Thr Ser Val Thr Thr Ala Tyr Leu Gln
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Ile Ser Ser Leu Lys Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
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Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
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Gln Val Gln Leu Val Gln Ser Gly Ser Glu Leu Lys Lys Pro Gly Ala
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Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Leu Thr
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Glu Val Gln Leu Val Gln Ser Gly Ser Glu Leu Lys Lys Pro Gly Ala
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Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Leu Thr
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Asp Arg Val Thr Ile Thr Cys
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Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Arg Val Leu Ile Tyr
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Gly Val Pro Ser Arg Phe Ser Gly Ser Glu Ser Gly Thr Glu Phe Thr
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Leu Thr Ile Ser Ser Leu Gln Pro Glu Asp Leu Ala Thr Tyr Tyr Cys
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Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
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Pro Met Asn Trp Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Trp Met
 35 40 45

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

Thr Glu Arg Phe Val Phe Ser Leu Asp Thr Ser Val Thr Thr Ala Tyr
 65 70 75 80

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

Ala Arg Thr Ala Ile Thr Ser Val Tyr His Phe Asp Tyr Trp Gly Gln
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Gly Thr Leu Val Thr Val Ser Ser
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Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Gly Ile Ser Ser Tyr
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Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Arg Val Leu Ile
 35 40 45

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

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

Ser Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
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20 25 30

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35 40 45

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

Thr Glu Arg Phe Val Phe Ser Leu Asp Thr Ser Val Thr Thr Ala Tyr
65 70 75 80

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

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

Gly Thr Leu Val Thr Val Ser Ser
115 120

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

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35 40 45

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

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

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

Ser Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
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Asp Ile Gln Leu Thr Gln Ser Pro Ser Phe Leu Ser Ala Ser Val Gly
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Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Gly Ile Ser Ser Tyr
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Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Arg Val Leu Ile
35 40 45

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

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

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

Ser Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
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Gln His Leu His Gly Tyr Pro Tyr Asn
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 Ser Val Arg Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr
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 Pro Met Asn Trp Val Arg Gln Ala Pro Gly His Gly Leu Glu Trp Met
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 Gly Trp Ile Asn Thr Asn Thr Gly Asn Pro Thr Tyr Val Gln Gly Phe
 50 55 60
 Thr Gly Arg Phe Val Phe Ser Leu Asp Thr Ser Val Asn Thr Ala Tyr
 65 70 75 80
 Leu Gln Ile Ser Ser Leu Lys Ala Glu Asp Thr Ala Val Tyr Phe Cys
 85 90 95
 Ala Arg Thr Gly Gly His Thr Tyr Asp Ser Tyr Ala Phe Asp Val Trp
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 Gly Gln Gly Thr Met Val Thr Val Ser Ser
 115 120

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 Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Val Ile Ser Ser Ser
 20 25 30
 Leu Ala Trp Tyr Gln Gln Asn Pro Gly Lys Ala Pro Lys Leu Leu Ile
 35 40 45
 Tyr Ala Ala Ser Thr Leu Gln Ser Gly Val Pro Ser Arg Phe Ser Gly
 50 55 60
 Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
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85 90 95

Asn Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
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Thr Tyr Gly Met Gly Val Ser
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Ser Ile Trp Trp Asn Gly Asn Thr Tyr Tyr Asn Pro Ser Leu Lys Ser
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Tyr Ala Ser Asn Arg Tyr Thr
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Xaa Val Xaa Leu Lys Glu Ser Gly Pro Xaa Xaa Xaa Xaa Pro Xaa Xaa

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Thr Leu Xaa Leu Thr Cys Xaa Phe Ser Gly Phe Ser Leu Ser
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<223> Xaa is Ser or Thr

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<223> Xaa is Ala or Thr

<220>
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<223> Xaa is Lys or Asn

<220>
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<222> (11)..(11)
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<223> Xaa is Ala or Val

<220>
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<223> Xaa is Phe or Val

<220>
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<222> (16)..(16)
<223> Xaa is Asn or Thr

<220>
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<223> Xaa is Met or Val

<220>
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<223> Xaa is Asn or Ser

<220>
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<222> (20)..(20)
<223> Xaa is Met or Val

<220>
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<222> (22)..(22)
<223> Xaa is Pro or Thr

<220>
<221> MOD_RES
<222> (23)..(23)
<223> Xaa is Thr or Val

<400> 76

Arg Leu Thr Xaa Xaa Lys Asp Xaa Ser Xaa Xaa Gln Xaa Xaa Leu Xaa
1 5 10 15

Xaa Thr Xaa Xaa Asp Xaa Xaa Asp Thr Ala Thr Tyr Tyr Cys Ala His
20 25 30

<210> 77
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 77

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

<210> 78

<211> 30
<212> PRT
<213> Rattus norvegicus

<400> 78

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

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

<210> 79
<211> 14
<212> PRT
<213> Rattus norvegicus

<400> 79

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

<210> 80
<211> 32
<212> PRT
<213> Rattus norvegicus

<400> 80

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

Val Thr Ser Val Asp Thr Thr Asp Thr Ala Thr Tyr Tyr Cys Ala His
20 25 30

<210> 81
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 81

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

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

<210> 82
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 82

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

<210> 83
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 83

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

Met Thr Asn Met Asp Pro Val Asp Thr Ala Thr Tyr Tyr Cys Ala His
20 25 30

<210> 84
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 84

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

Met Thr Asn Met Asp Pro Val Asp Thr Ala Thr Tyr Tyr Cys Ala His
20 25 30

<210> 85
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 85

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

Met Thr Asn Met Asp Pro Val Asp Thr Ala Thr Tyr Tyr Cys Ala His
20 25 30

<210> 86
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 86

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

Met Thr Asn Met Asp Pro Val Asp Thr Ala Thr Tyr Tyr Cys Ala His
 20 25 30

<210> 87
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 87

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

Met Thr Asn Met Asp Pro Val Asp Thr Ala Thr Tyr Tyr Cys Ala His
 20 25 30

<210> 88
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
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<220>
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 <222> (1)..(1)
 <223> Xaa is Asp or Asn

<220>
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 <222> (3)..(3)
 <223> Xaa is Gln or Val

<220>
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 <222> (9)..(9)
 <223> Xaa is Lys or Ser

<220>
 <221> MOD_RES
 <222> (11)..(11)
 <223> Xaa is Leu or Met

<220>
 <221> MOD_RES
 <222> (13)..(13)
 <223> Xaa is Ala or Ile

<220>
 <221> MOD_RES
 <222> (21)..(21)
 <223> Xaa is Ile or Met

<220>
 <221> MOD_RES
 <222> (22)..(22)

<223> Xaa is Asn or Thr

<400> 88

Xaa Ile Xaa Met Thr Gln Ser Pro Xaa Ser Xaa Ser Xaa Ser Val Gly
1 5 10 15

Asp Arg Val Thr Xaa Xaa Cys
20

<210> 89

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>

<221> MOD_RES

<222> (8)..(8)

<223> Xaa is Lys or Gln

<220>

<221> MOD_RES

<222> (9)..(9)

<223> Xaa is Ala or Ser

<400> 89

Trp Tyr Gln Gln Lys Pro Gly Xaa Xaa Pro Lys Leu Leu Ile Tyr
1 5 10 15

<210> 90

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>

<221> MOD_RES

<222> (4)..(4)

<223> Xaa is Asp or Ser

<220>

<221> MOD_RES

<222> (7)..(7)

<223> Xaa is Ser or Thr

<220>

<221> MOD_RES

<222> (9)..(9)

<223> Xaa is Gly or Ser

<220>

<221> MOD_RES

<222> (17)..(17)

<223> Xaa is Phe or Leu

<220>

<221> MOD_RES

<222> (20)..(20)
<223> Xaa is Asn or Ser

<220>
<221> MOD_RES
<222> (21)..(21)
<223> Xaa is Ser or Thr

<220>
<221> MOD_RES
<222> (22)..(22)
<223> Xaa is Leu or Val

<220>
<221> MOD_RES
<222> (24)..(24)
<223> Xaa is Ala or Pro

<220>
<221> MOD_RES
<222> (27)..(27)
<223> Xaa is Ala or Ile

<220>
<221> MOD_RES
<222> (29)..(29)
<223> Xaa is Phe or Thr

<220>
<221> MOD_RES
<222> (30)..(30)
<223> Xaa is Phe or Tyr

<400> 90

Gly Val Pro Xaa Arg Phe Xaa Gly Xaa Gly Ser Gly Thr Asp Phe Thr
1 5 10 15

Xaa Thr Ile Xaa Xaa Xaa Gln Xaa Glu Asp Xaa Ala Xaa Xaa Tyr Cys
20 25 30

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

<220>
<223> Synthetic Construct

<220>
<221> MOD_RES
<222> (3)..(3)
<223> Xaa is Gln or Thr

<220>
<221> MOD_RES
<222> (7)..(7)
<223> Xaa is Leu or Val

<400> 91

Phe Gly Xaa Gly Thr Lys Xaa Glu Ile Lys
1 5 10

<210> 92
<211> 23
<212> PRT
<213> Rattus norvegicus

<400> 92

Asn Ile Val Met Thr Gln Ser Pro Lys Ser Met Ser Ile Ser Val Gly
1 5 10 15

Asp Arg Val Thr Met Asn Cys
20

<210> 93
<211> 15
<212> PRT
<213> Rattus norvegicus

<400> 93

Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Lys Leu Leu Ile Tyr
1 5 10 15

<210> 94
<211> 32
<212> PRT
<213> Rattus norvegicus

<400> 94

Gly Val Pro Asp Arg Phe Thr Gly Gly Gly Ser Gly Thr Asp Phe Thr
1 5 10 15

Leu Thr Ile Asn Thr Val Gln Ala Glu Asp Ala Ala Phe Phe Tyr Cys
20 25 30

<210> 95
<211> 10
<212> PRT
<213> Rattus norvegicus

<400> 95

Phe Gly Thr Gly Thr Lys Leu Glu Ile Lys
1 5 10

<210> 96
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 96

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

Asp Arg Val Thr Ile Thr Cys
20

<210> 97
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 97

Trp Tyr Gln Gln Lys Pro Gly Lys Ser Pro Lys Leu Leu Ile Tyr
1 5 10 15

<210> 98
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 98

Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile Tyr
1 5 10 15

<210> 99
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 99

Gly Val Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr
1 5 10 15

Phe Thr Ile Ser Ser Leu Gln Pro Glu Asp Ile Ala Thr Tyr Tyr Cys
20 25 30

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

<220>
<223> Synthetic Construct

<400> 100

Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
1 5 10

<210> 101
<211> 121
<212> PRT
<213> Rattus norvegicus

<400> 101

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

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

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

Trp Leu Ala Ser Ile Trp Trp Asn Gly Asn Thr Tyr Tyr Asn Pro Ser
50 55 60

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

Phe Leu Asn Val Thr Ser Val Asp Thr Thr Asp Thr Ala Thr Tyr Tyr
85 90 95

Cys Ala His Thr Gly Gly Ala Val Ile Thr Trp Phe Ala Tyr Trp Gly
100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 102
<211> 107
<212> PRT
<213> Rattus norvegicus

<400> 102

Asn Ile Val Met Thr Gln Ser Pro Lys Ser Met Ser Ile Ser Val Gly
1 5 10 15

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

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

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

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

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

Pro Phe Gly Thr Gly Thr Lys Leu Glu Ile Lys
100 105

<210> 103
<211> 121
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 103

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

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

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

Trp Leu Ala Ser Ile Trp Trp Asn Gly Asn Thr Tyr Tyr Asn Pro Ser
50 55 60

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

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

Cys Ala His Thr Gly Gly Ala Val Ile Thr Trp Phe Ala Tyr Trp Gly
100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 104
<211> 121
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 104

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

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

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

Trp Leu Ala Ser Ile Trp Trp Asn Gly Asn Thr Tyr Tyr Asn Pro Ser
50 55 60

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

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

Cys Ala His Thr Gly Gly Ala Val Ile Thr Trp Phe Ala Tyr Trp Gly
100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 105
<211> 121
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 105

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

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

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

Trp Leu Ala Ser Ile Trp Trp Asn Gly Asn Thr Tyr Tyr Asn Pro Ser
50 55 60

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

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

Cys Ala His Thr Gly Gly Ala Val Ile Thr Trp Phe Ala Tyr Trp Gly
100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 106
<211> 121
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 106

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

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

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

Trp Leu Ala Ser Ile Trp Trp Asn Gly Asn Thr Tyr Tyr Asn Pro Ser
50 55 60

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

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

Cys Ala His Thr Gly Gly Ala Val Ile Thr Trp Phe Ala Tyr Trp Gly
100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 107
<211> 121
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 107

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

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

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

Trp Leu Ala Ser Ile Trp Trp Asn Gly Asn Thr Tyr Tyr Asn Pro Ser
50 55 60

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

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

Cys Ala His Thr Gly Gly Ala Val Ile Thr Trp Phe Ala Tyr Trp Gly
100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 108
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct
<400> 108

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

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

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

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

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

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

Pro Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
100 105

<210> 109
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct
<400> 109

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

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

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

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

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

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

Pro Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
100 105

<210> 110
<211> 7
<212> PRT
<213> Rattus norvegicus

<400> 110

Thr Tyr Gly Met Gly Val Ser
1 5

<210> 111
<211> 16
<212> PRT
<213> Rattus norvegicus

<400> 111

Ser Ile Trp Trp Asn Gly Asn Thr Tyr Tyr Asn Pro Ser Leu Arg Ser
1 5 10 15

<210> 112
<211> 11
<212> PRT
<213> Rattus norvegicus

<400> 112

Thr Gly Gly Ala Val Ile Thr Trp Phe Ala Tyr
1 5 10

<210> 113
<211> 11
<212> PRT
<213> Rattus norvegicus

<400> 113

Lys Ala Ser Gln Ser Val Gly Lys Asn Ile Ala
1 5 10

<210> 114
<211> 7
<212> PRT
<213> Rattus norvegicus

<400> 114

Tyr Ala Ser Asn Arg Tyr Thr
1 5

<210> 115
 <211> 9
 <212> PRT
 <213> Rattus norvegicus

<400> 115

Gln His Ile Tyr Asn Ser Pro Tyr Pro
 1 5

<210> 116
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
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<220>
 <221> MOD_RES
 <222> (1)..(1)
 <223> Xaa is Glu or Gln

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 <222> (3)..(3)
 <223> Xaa is Ser or Thr

<220>
 <221> MOD_RES
 <222> (10)..(10)
 <223> Xaa is Ala or Gly

<220>
 <221> MOD_RES
 <222> (11)..(11)
 <223> Xaa is Ile or Leu

<220>
 <221> MOD_RES
 <222> (12)..(12)
 <223> Xaa is Leu or Val

<220>
 <221> MOD_RES
 <222> (13)..(13)
 <223> Xaa is Lys or Gln

<220>
 <221> MOD_RES
 <222> (15)..(15)
 <223> Xaa is Ser or Thr

<220>
 <221> MOD_RES
 <222> (16)..(16)
 <223> Xaa is His or Gln

<220>
 <221> MOD_RES
 <222> (19)..(19)
 <223> Xaa is Ser or Thr

<220>
 <221> MOD_RES

<222> (23)..(23)
<223> Xaa is Ser or Thr

<400> 116

Xaa Val Xaa Leu Lys Glu Ser Gly Pro Xaa Xaa Xaa Xaa Pro Xaa Xaa
1 5 10 15

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

<210> 117
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> MOD_RES
<222> (6)..(6)
<223> Xaa is Pro or Ser

<220>
<221> MOD_RES
<222> (7)..(7)
<223> Xaa is Glu or Gly

<220>
<221> MOD_RES
<222> (9)..(9)
<223> Xaa is Ala or Gly

<400> 117

Trp Ile Arg Gln Pro Xaa Xaa Lys Xaa Leu Glu Trp Leu Ala
1 5 10

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

<220>
<223> Synthetic Construct

<220>
<221> MOD_RES
<222> (4)..(4)
<223> Xaa is Ile or Val

<220>
<221> MOD_RES
<222> (5)..(5)
<223> Xaa is Ser or Thr

<220>
<221> MOD_RES
<222> (10)..(10)
<223> Xaa is Lys or Asn

<220>

<221> MOD_RES
 <222> (11)..(11)
 <223> Xaa is Asp or Asn

<220>
 <221> MOD_RES
 <222> (13)..(13)
 <223> Xaa is Ala or Val

<220>
 <221> MOD_RES
 <222> (14)..(14)
 <223> Xaa is Phe or Val

<220>
 <221> MOD_RES
 <222> (16)..(16)
 <223> Xaa is Asn or Thr

<220>
 <221> MOD_RES
 <222> (17)..(17)
 <223> Xaa is Met or Val

<220>
 <221> MOD_RES
 <222> (19)..(19)
 <223> Xaa is Asn or Ser

<220>
 <221> MOD_RES
 <222> (20)..(20)
 <223> Xaa is Met or Val

<220>
 <221> MOD_RES
 <222> (22)..(22)
 <223> Xaa is Pro or Thr

<220>
 <221> MOD_RES
 <222> (23)..(23)
 <223> Xaa is Thr or Val

<400> 118

Arg Leu Thr Xaa Xaa Lys Asp Thr Ser Xaa Xaa Gln Xaa Xaa Leu Xaa
 1 5 10 15

Xaa Thr Xaa Xaa Asp Xaa Xaa Asp Thr Ala Thr Tyr Tyr Cys Ala His
 20 25 30

<210> 119
 <211> 11
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 119

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

<210> 120
<211> 30
<212> PRT
<213> Rattus norvegicus

<400> 120

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

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

<210> 121
<211> 14
<212> PRT
<213> Rattus norvegicus

<400> 121

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

<210> 122
<211> 32
<212> PRT
<213> Rattus norvegicus

<400> 122

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

Val Thr Ser Val Asp Thr Thr Asp Thr Ala Thr Tyr Tyr Cys Ala His
20 25 30

<210> 123
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 123

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

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

<210> 124
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 124

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

<210> 125
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 125

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

Met Thr Asn Met Asp Pro Val Asp Thr Ala Thr Tyr Tyr Cys Ala His
20 25 30

<210> 126
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 126

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

Met Thr Asn Met Asp Pro Val Asp Thr Ala Thr Tyr Tyr Cys Ala His
20 25 30

<210> 127
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 127

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

Met Thr Asn Met Asp Pro Val Asp Thr Ala Thr Tyr Tyr Cys Ala His
20 25 30

<210> 128
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 128

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

Met Thr Asn Met Asp Pro Val Asp Thr Ala Thr Tyr Tyr Cys Ala His
 20 25 30

<210> 129
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<220>
 <221> MOD_RES
 <222> (1)..(1)
 <223> Xaa is Glu or Asn

<220>
 <221> MOD_RES
 <222> (9)..(9)
 <223> Xaa is Ala or Lys

<220>
 <221> MOD_RES
 <222> (10)..(10)
 <223> Xaa is Ser or Thr

<220>
 <221> MOD_RES
 <222> (11)..(11)
 <223> Xaa is Leu or Met

<220>
 <221> MOD_RES
 <222> (13)..(13)
 <223> Xaa is Ile or Val

<220>
 <221> MOD_RES
 <222> (15)..(15)
 <223> Xaa is Ile or Pro

<220>
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 <223> Xaa is Ala or Val

<220>
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 <223> Xaa is Leu or Met

<220>
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 <223> Xaa is Asn or Ser

<400> 129

Xaa Ile Val Met Thr Gln Ser Pro Xaa Xaa Xaa Ser Xaa Ser Xaa Gly
1 5 10 15

Xaa Arg Xaa Thr Xaa Xaa Cys
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<210> 130

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<223> Xaa is Ala or Ser

<220>

<221> MOD_RES

<222> (11)..(11)

<223> Xaa is Gln or Arg

<400> 130

Trp Tyr Gln Gln Lys Xaa Gly Gln Xaa Pro Xaa Leu Leu Ile Tyr
1 5 10 15

<210> 131

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<223> Xaa is Ala or Asp

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<223> Xaa is Ser or Thr

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<223> Xaa is Gly or Ser

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 <223> Xaa is Asp or Glu

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 <223> Xaa is Ala or Ser

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 <222> (27)..(27)
 <223> Xaa is Ala or Phe

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 <221> MOD_RES
 <222> (29)..(29)
 <223> Xaa is Phe or Val

<220>
 <221> MOD_RES
 <222> (30)..(30)
 <223> Xaa is Phe or Tyr

<400> 131

Gly Xaa Pro Xaa Arg Phe Xaa Gly Xaa Gly Ser Gly Thr Xaa Phe Thr
 1 5 10 15

Leu Thr Ile Xaa Ser Xaa Gln Xaa Glu Asp Xaa Ala Xaa Xaa Tyr Cys
 20 25 30

<210> 132
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 <223> Xaa is Gln or Thr

<220>
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 <222> (7)..(7)
 <223> Xaa is Leu or Val

<400> 132

Phe Gly Xaa Gly Thr Lys Xaa Glu Ile Lys

1 5 10

<210> 133
<211> 23
<212> PRT
<213> Rattus norvegicus

<400> 133

Asn Ile Val Met Thr Gln Ser Pro Lys Ser Met Ser Ile Ser Ile Gly
1 5 10 15

Asp Arg Val Thr Met Asn Cys
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<210> 134
<211> 15
<212> PRT
<213> Rattus norvegicus

<400> 134

Trp Tyr Gln Gln Lys Thr Gly Gln Ser Pro Gln Leu Leu Ile Tyr
1 5 10 15

<210> 135
<211> 32
<212> PRT
<213> Rattus norvegicus

<400> 135

Gly Val Pro Asp Arg Phe Thr Gly Gly Gly Ser Gly Thr Asp Phe Thr
1 5 10 15

Leu Thr Ile Asn Ser Val Gln Ala Glu Asp Ala Ala Phe Phe Tyr Cys
20 25 30

<210> 136
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<213> Rattus norvegicus

<400> 136

Phe Gly Thr Gly Thr Lys Leu Glu Ile Lys
1 5 10

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<400> 137

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

Glu Arg Ala Thr Leu Ser Cys
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<400> 138

Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Arg Leu Leu Ile Tyr
1 5 10 15

<210> 139
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<400> 139

Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile Tyr
1 5 10 15

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<400> 140

Gly Val Pro Ala Arg Phe Ser Gly Ser Gly Ser Gly Thr Glu Phe Thr
1 5 10 15

Leu Thr Ile Ser Ser Leu Gln Ser Glu Asp Phe Ala Val Tyr Tyr Cys
20 25 30

<210> 141
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<400> 141

Gly Ile Pro Ala Arg Phe Ser Gly Ser Gly Ser Gly Thr Glu Phe Thr
1 5 10 15

Leu Thr Ile Ser Ser Leu Gln Ser Glu Asp Phe Ala Val Tyr Tyr Cys
20 25 30

<210> 142
 <211> 10
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<220>
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<400> 142

Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 1 5 10

<210> 143
 <211> 121
 <212> PRT
 <213> Rattus norvegicus

<400> 143

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

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

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

Trp Leu Ala Ser Ile Trp Trp Asn Gly Asn Thr Tyr Tyr Asn Pro Ser
 50 55 60

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

Phe Leu Asn Val Thr Ser Val Asp Thr Thr Asp Thr Ala Thr Tyr Tyr
 85 90 95

Cys Ala His Thr Gly Gly Ala Val Ile Thr Trp Phe Ala Tyr Trp Gly
 100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 144
 <211> 107
 <212> PRT
 <213> Rattus norvegicus

<400> 144

Asn Ile Val Met Thr Gln Ser Pro Lys Ser Met Ser Ile Ser Ile Gly
 1 5 10 15

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

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

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

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

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

Pro Phe Gly Thr Gly Thr Lys Leu Glu Ile Lys
100 105

<210> 145
<211> 121
<212> PRT
<213> Artificial Sequence

<220>
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<400> 145

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

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

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

Trp Leu Ala Ser Ile Trp Trp Asn Gly Asn Thr Tyr Tyr Asn Pro Ser
50 55 60

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

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

Cys Ala His Thr Gly Gly Ala Val Ile Thr Trp Phe Ala Tyr Trp Gly
100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 146
<211> 121
<212> PRT
<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 146

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

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

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

Trp Leu Ala Ser Ile Trp Trp Asn Gly Asn Thr Tyr Tyr Asn Pro Ser
50 55 60

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

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

Cys Ala His Thr Gly Gly Ala Val Ile Thr Trp Phe Ala Tyr Trp Gly
100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 147

<211> 121

<212> PRT

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<400> 147

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

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

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

Trp Leu Ala Ser Ile Trp Trp Asn Gly Asn Thr Tyr Tyr Asn Pro Ser
50 55 60

Leu Arg Ser Arg Leu Thr Val Thr Lys Asp Thr Ser Lys Asn Gln Val
65 70 75 80

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

85

90

95

Cys Ala His Thr Gly Gly Ala Val Ile Thr Trp Phe Ala Tyr Trp Gly
 100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 148
 <211> 121
 <212> PRT
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<220>
 <223> Synthetic Construct

<400> 148

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

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

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

Trp Leu Ala Ser Ile Trp Trp Asn Gly Asn Thr Tyr Tyr Asn Pro Ser
 50 55 60

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

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

Cys Ala His Thr Gly Gly Ala Val Ile Thr Trp Phe Ala Tyr Trp Gly
 100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 149
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 149

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

Glu Arg Ala Thr Leu Ser Cys Lys Ala Ser Gln Ser Val Gly Lys Asn
 Page 49

20

25

30

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

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

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

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

Pro Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105

<210> 150
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 150

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

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

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

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

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

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

Pro Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105

<210> 151
 <211> 107
 <212> PRT
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<220>
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<400> 151

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

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

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

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

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

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

Pro Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
100 105

<210> 152

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 152

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

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

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

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

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

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

Pro Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
100 105

<210> 153
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<212> PRT
<213> Rattus norvegicus

<400> 153

Glu Tyr Ser Ile Tyr
1 5

<210> 154
<211> 17
<212> PRT
<213> Rattus norvegicus

<400> 154

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

Asn

<210> 155
<211> 8
<212> PRT
<213> Rattus norvegicus

<400> 155

Ile Tyr Gly Phe Tyr Phe Asp Phe
1 5

<210> 156
<211> 11
<212> PRT
<213> Rattus norvegicus

<400> 156

Lys Gly Ser Gln Asn Val Asn Lys Tyr Leu Val
1 5 10

<210> 157
<211> 7
<212> PRT
<213> Rattus norvegicus

<400> 157

Asn Thr Asp Asn Leu Gln Ser
1 5

<210> 158
<211> 8
<212> PRT
<213> Rattus norvegicus

<400> 158

Tyr Gln Tyr Asn Asn Gly Phe Thr

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 <223> Xaa is Ala or Pro

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 <223> Xaa is Leu or Val

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 <222> (12)..(12)
 <223> Xaa is Lys or Gln

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 <222> (13)..(13)
 <223> Xaa is Lys or Arg

<220>
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 <222> (20)..(20)
 <223> Xaa is Leu or Val

<220>
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 <222> (25)..(25)
 <223> Xaa is Ser or Thr

<400> 159

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

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

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

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<222> (5)..(5)
<223> Xaa is Ala or Arg

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<222> (7)..(7)
<223> Xaa is Gly or Lys

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<223> Xaa is Arg or Ser

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<222> (12)..(12)
<223> Xaa is Ile or Trp

<220>
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<222> (13)..(13)
<223> Xaa is Ile or Met

<400> 160

Trp Val Xaa Gln Xaa Pro Xaa Gln Xaa Leu Glu Xaa Xaa Gly
1 5 10

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<223> Xaa is Ile or Leu

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<223> Xaa is Ala or Arg

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 <222> (21)..(21)
 <223> Xaa is Arg or Thr

<220>
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 <223> Xaa is Thr or Val

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 <222> (29)..(29)
 <223> Xaa is Phe or Tyr

<220>
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 <222> (31)..(31)
 <223> Xaa is Ala or Thr

<400> 161

Arg Xaa Thr Xaa Thr Xaa Asp Thr Ser Xaa Xaa Thr Ala Tyr Met Xaa
 1 5 10 15

Leu Ser Ser Leu Xaa Ser Glu Asp Thr Ala Xaa Tyr Xaa Cys Xaa Arg
 20 25 30

<210> 162
 <211> 11
 <212> PRT
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 <223> Xaa is Thr or Val

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 <222> (6)..(6)
 <223> Xaa is Leu or Met

<220>
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 <222> (9)..(9)
 <223> Xaa is Ala or Val

<400> 162

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

<210> 163
 <211> 30
 <212> PRT

<213> Rattus norvegicus

<400> 163

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

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

<210> 164

<211> 14

<212> PRT

<213> Rattus norvegicus

<400> 164

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

<210> 165

<211> 32

<212> PRT

<213> Rattus norvegicus

<400> 165

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

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

<210> 166

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<213> Rattus norvegicus

<400> 166

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

<210> 167

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<400> 167

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

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

<210> 168

<211> 14
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<220>
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<400> 168

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

<210> 169
<211> 14
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<220>
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<400> 169

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

<210> 170
<211> 14
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<213> Artificial Sequence

<220>
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<400> 170

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

<210> 171
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
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<400> 171

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

<210> 172
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
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<400> 172

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

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

<210> 173
<211> 32
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<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 173

Arg Val Thr Leu Thr Ala Asp Thr Ser Ala Ser Thr Ala Tyr Met Glu
1 5 10 15

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

<210> 174
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 174

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

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

<210> 175
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 175

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

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

<210> 176
<211> 32
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<213> Artificial Sequence

<220>
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<400> 176

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

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

<210> 177
<211> 32
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<220>
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<400> 177

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

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

<210> 178
<211> 32
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<220>
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<400> 178

Arg Val Thr Ile Thr Arg Asp Thr Ser Ala Ser Thr Ala Tyr Met Glu
1 5 10 15

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

<210> 179
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 179

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

<210> 180
<211> 23
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 <222> (1)..(1)
 <223> Xaa is Asp or Asn

<220>
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 <222> (3)..(3)
 <223> Xaa is His or Gln

<220>
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 <222> (10)..(10)
 <223> Xaa is Phe or Leu

<220>
 <221> MOD_RES
 <222> (21)..(21)
 <223> Xaa is Ile or Leu

<220>
 <221> MOD_RES
 <222> (22)..(22)
 <223> Xaa is Ser or Thr

<400> 180

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

Asp Arg Val Thr Xaa Xaa Cys
 20

<210> 181
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 <222> (6)..(6)
 <223> Xaa is Leu or Pro

<220>
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 <222> (8)..(8)
 <223> Xaa is Glu or Lys

<400> 181

Trp Tyr Gln Gln Lys Xaa Gly Xaa Ala Pro Lys Leu Leu Ile Tyr
 1 5 10 15

<210> 182
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 <223> Xaa is Ile or Val

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 <223> Xaa is Asp or Glu

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 <222> (15)..(15)
 <223> Xaa is Phe or Tyr

<220>
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 <222> (27)..(27)
 <223> Xaa is Ala or Phe

<220>
 <221> MOD_RES
 <222> (31)..(31)
 <223> Xaa is Phe or Tyr

<400> 182

Gly Xaa Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Xaa Xaa Thr
 1 5 10 15

Leu Thr Ile Ser Ser Leu Gln Pro Glu Asp Xaa Ala Thr Tyr Xaa Cys
 20 25 30

<210> 183
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<220>
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<220>
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 <222> (3)..(3)
 <223> Xaa is Gln or Ser

<220>
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 <222> (7)..(7)
 <223> Xaa is Leu or Val

<400> 183

Phe Gly Xaa Gly Thr Lys Xaa Glu Ile Lys
 1 5 10

<210> 184
 <211> 23
 <212> PRT
 <213> Rattus norvegicus

<400> 184

Asn Ile His Leu Thr Gln Ser Pro Ser Leu Leu Ser Ala Ser Val Gly
 1 5 10 15

Asp Arg Val Thr Leu Ser Cys
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<210> 185
 <211> 15
 <212> PRT
 <213> Rattus norvegicus

<400> 185

Trp Tyr Gln Gln Lys Leu Gly Glu Ala Pro Lys Leu Leu Ile Tyr
 1 5 10 15

<210> 186
 <211> 32
 <212> PRT
 <213> Rattus norvegicus

<400> 186

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

Leu Thr Ile Ser Ser Leu Gln Pro Glu Asp Ala Ala Thr Tyr Phe Cys
 20 25 30

<210> 187
 <211> 10
 <212> PRT
 <213> Rattus norvegicus

<400> 187

Phe Gly Ser Gly Thr Lys Leu Glu Ile Lys
 1 5 10

<210> 188
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 188

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

Asp Arg Val Thr Ile Thr Cys
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<210> 189
 <211> 15
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<220>
<223> Synthetic Construct

<400> 189

Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile Tyr
1 5 10 15

<210> 190
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
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<400> 190

Gly Ile Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Glu Tyr Thr
1 5 10 15

Leu Thr Ile Ser Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Phe Cys
20 25 30

<210> 191
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 191

Gly Val Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Glu Tyr Thr
1 5 10 15

Leu Thr Ile Ser Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Phe Cys
20 25 30

<210> 192
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> Seq_193

<400> 192

Gly Ile Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Glu Phe Thr
1 5 10 15

Leu Thr Ile Ser Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Phe Cys
20 25 30

<210> 193
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 193

Gly Ile Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Glu Tyr Thr
1 5 10 15

Leu Thr Ile Ser Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys
20 25 30

<210> 194
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 194

Gly Val Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Glu Phe Thr
1 5 10 15

Leu Thr Ile Ser Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys
20 25 30

<210> 195
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 195

Gly Val Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Glu Tyr Thr
1 5 10 15

Leu Thr Ile Ser Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys
20 25 30

<210> 196
<211> 10
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<220>
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<400> 196

Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
1 5 10

<210> 197
<211> 117
<212> PRT
<213> Rattus norvegicus

<400> 197

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

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

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

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

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

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

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

Val Thr Ala Ser Ser
115

<210> 198

<211> 106

<212> PRT

<213> Rattus norvegicus

<400> 198

Asn Ile His Leu Thr Gln Ser Pro Ser Leu Leu Ser Ala Ser Val Gly
1 5 10 15

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

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

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

Ser Gly Ser Gly Thr Asp Tyr Thr Leu Thr Ile Ser Ser Leu Gln Pro
65 70 75 80

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

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

<210> 199
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 199

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

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

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

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

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

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

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

Val Thr Val Ser Ser
115

<210> 200
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 200

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

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

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

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

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

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

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

Val Thr Val Ser Ser
115

<210> 201
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 201

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

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

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

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

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

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

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

Val Thr Val Ser Ser
115

<210> 202
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 202

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

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

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

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

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

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

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

Val Thr Val Ser Ser
115

<210> 203
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 203

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

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

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

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

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

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

Thr Arg Ile Tyr Gly Phe Tyr Phe Asp Phe Trp Gly Gln Gly Thr Leu
Page 68

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105

110

Val Thr Val Ser Ser
115

<210> 204
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 204

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

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

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

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

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

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

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

Val Thr Val Ser Ser
115

<210> 205
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 205

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

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

Ser Ile Tyr Trp Val Arg Gln Ala Pro Gly Gln Arg Leu Glu Ile Ile
Page 69

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45

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

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

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

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

Val Thr Val Ser Ser
115

<210> 206
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 206

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

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

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

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

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

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

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

Val Thr Val Ser Ser
115

<210> 207
<211> 117
<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 207

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

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

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

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

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

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

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

Val Thr Val Ser Ser
115

<210> 208

<211> 106

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 208

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

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

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

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

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

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

Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
100 105

<210> 209
<211> 106
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 209

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

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

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

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

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

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

Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
100 105

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

<220>
<223> Synthetic Construct

<400> 210

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

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

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

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

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

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

Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
100 105

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

<220>
<223> Synthetic Construct

<400> 211

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

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

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

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

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

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

Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
100 105

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

<220>
<223> Synthetic Construct

<400> 212

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

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

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

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

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

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

Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
100 105

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

<220>
<223> Synthetic Construct

<400> 213

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

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

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

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

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

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

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

Val Thr Val Ser Ser
115

<210> 214

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

<220>
<223> Synthetic Construct

<400> 214

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

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

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

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

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

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

Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
100 105

<210> 215
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<213> Rattus norvegicus

<400> 215

Glu His Ser Ile Tyr
1 5

<210> 216
<211> 17
<212> PRT
<213> Rattus norvegicus

<400> 216

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

Asn

<210> 217
<211> 8
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<213> Rattus norvegicus

<400> 217

Ile Asp Gly Phe Tyr Phe Asp Phe
1 5

<210> 218

<211> 11

<212> PRT

<213> Rattus norvegicus

<400> 218

Lys Gly Ser Gln Asn Val Asn Lys Tyr Leu Val
1 5 10

<210> 219

<211> 7

<212> PRT

<213> Rattus norvegicus

<400> 219

Ser Thr Asp Asn Leu Gln Ser
1 5

<210> 220

<211> 8

<212> PRT

<213> Rattus norvegicus

<400> 220

Tyr Gln Tyr Asn Asn Gly Phe Thr
1 5

<210> 221

<211> 30

<212> PRT

<213> Artificial Sequence

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<223> Xaa is Gln or Val

<220>

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<223> Xaa is Ala or Pro

<220>

<221> MOD_RES

<222> (11)..(11)

<223> Xaa is Leu or Val

<220>

<221> MOD_RES

<222> (12)..(12)

<223> Xaa is Lys or Gln

<220>
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 <222> (13)..(13)
 <223> Xaa is Lys or Arg

<220>
 <221> MOD_RES
 <222> (20)..(20)
 <223> Xaa is Leu or Val

<400> 221

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

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

<210> 222
 <211> 14
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<220>
 <221> MOD_RES
 <222> (2)..(2)
 <223> Xaa is Leu or Val

<220>
 <221> MOD_RES
 <222> (3)..(3)
 <223> Xaa is Lys or Arg

<220>
 <221> MOD_RES
 <222> (5)..(5)
 <223> Xaa is Ala or Arg

<220>
 <221> MOD_RES
 <222> (7)..(7)
 <223> Xaa is Gly or Lys

<220>
 <221> MOD_RES
 <222> (9)..(9)
 <223> Xaa is Arg or Ser

<220>
 <221> MOD_RES
 <222> (12)..(12)
 <223> Xaa is Ile or Trp

<220>
 <221> MOD_RES
 <222> (13)..(13)
 <223> Xaa is Ile or Met

<400> 222

Trp Xaa Xaa Gln Xaa Pro Xaa Gln Xaa Leu Glu Xaa Xaa Gly
 1 5 10

<210> 223
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
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<220>
 <221> MOD_RES
 <222> (2)..(2)
 <223> Xaa is Ala or Val

<220>
 <221> MOD_RES
 <222> (4)..(4)
 <223> Xaa is Ile or Leu

<220>
 <221> MOD_RES
 <222> (6)..(6)
 <223> Xaa is Arg or Thr

<220>
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 <222> (7)..(7)
 <223> Xaa is Asp or Asn

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 <222> (10)..(10)
 <223> Xaa is Ala or Ser

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 <221> MOD_RES
 <222> (11)..(11)
 <223> Xaa is Asn or Ser

<220>
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 <222> (16)..(16)
 <223> Xaa is Glu or Gln

<220>
 <221> MOD_RES
 <222> (21)..(21)
 <223> Xaa is Arg or Thr

<220>
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 <222> (27)..(27)
 <223> Xaa is Ile or Val

<220>
 <221> MOD_RES
 <222> (29)..(29)
 <223> Xaa is Phe or Tyr

<400> 223

Arg Xaa Thr Xaa Thr Xaa Xaa Thr Ser Xaa Xaa Thr Ala Tyr Met Xaa
 1 5 10 15

Leu Ser Ser Leu Xaa Ser Glu Asp Thr Ala Xaa Tyr Xaa Cys Ala Arg
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25

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<210> 224
 <211> 11
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<220>
 <221> MOD_RES
 <222> (5)..(5)
 <223> Xaa is Thr or Val

<220>
 <221> MOD_RES
 <222> (6)..(6)
 <223> Xaa is Leu or Met

<220>
 <221> MOD_RES
 <222> (9)..(9)
 <223> Xaa is Ala or Val

<400> 224

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

<210> 225
 <211> 30
 <212> PRT
 <213> Rattus norvegicus

<400> 225

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

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

<210> 226
 <211> 14
 <212> PRT
 <213> Rattus norvegicus

<400> 226

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

<210> 227
 <211> 32
 <212> PRT
 <213> Rattus norvegicus

<400> 227

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

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

<210> 228
<211> 11
<212> PRT
<213> Rattus norvegicus

<400> 228

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

<210> 229
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 229

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

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

<210> 230
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 230

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

<210> 231
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 231

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

<210> 232
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 232

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

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

<220>
<223> Synthetic Construct

<400> 233

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

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

<220>
<223> Synthetic Construct

<400> 234

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

<210> 235
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 235

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

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

<210> 236
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 236

Arg Val Thr Leu Thr Thr Asp Thr Ser Ala Ser Thr Ala Tyr Met Glu
1 5 10 15

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

<210> 237
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 237

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

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

<210> 238
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 238

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

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

<210> 239
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 239

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

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

<210> 240
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 240

Arg Val Thr Ile Thr Arg Asp Thr Ser Ala Ser Thr Ala Tyr Met Glu
1 5 10 15

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

<210> 241
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 241

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

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

<210> 242
<211> 11
<212> PRT
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<220>
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<400> 242

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

<210> 243
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
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<220>
<221> MOD_RES
<222> (1)..(1)
<223> Xaa is Asp or Asn

<220>
<221> MOD_RES
<222> (3)..(3)
<223> Xaa is His or Gln

<220>
<221> MOD_RES
<222> (10)..(10)
<223> Xaa is Phe or Leu

<220>
<221> MOD_RES
<222> (21)..(21)

<223> Xaa is Ile or Leu

<220>

<221> MOD_RES

<222> (22)..(22)

<223> Xaa is Ser or Thr

<400> 243

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

Asp Arg Val Thr Xaa Xaa Cys
20

<210> 244

<211> 15

<212> PRT

<213> Artificial Sequence

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<223> Synthetic Construct

<220>

<221> MOD_RES

<222> (6)..(6)

<223> Xaa is Leu or Pro

<220>

<221> MOD_RES

<222> (8)..(8)

<223> Xaa is Glu or Lys

<400> 244

Trp Tyr Gln Gln Lys Xaa Gly Xaa Ala Pro Lys Leu Leu Ile Tyr
1 5 10 15

<210> 245

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>

<221> MOD_RES

<222> (2)..(2)

<223> Xaa is Ile or Val

<220>

<221> MOD_RES

<222> (14)..(14)

<223> Xaa is Asp or Glu

<220>

<221> MOD_RES

<222> (15)..(15)

<223> Xaa is Phe or Tyr

<220>

<221> MOD_RES

<222> (27)..(27)
<223> Xaa is Ala or Phe

<220>
<221> MOD_RES
<222> (31)..(31)
<223> Xaa is Phe or Tyr

<400> 245

Gly Xaa Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Xaa Xaa Thr
1 5 10 15

Leu Thr Ile Ser Ser Leu Gln Pro Glu Asp Xaa Ala Thr Tyr Xaa Cys
20 25 30

<210> 246
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> MOD_RES
<222> (3)..(3)
<223> Xaa is Gln or Ser

<220>
<221> MOD_RES
<222> (7)..(7)
<223> Xaa is Leu or Val

<400> 246

Phe Gly Xaa Gly Thr Lys Xaa Glu Ile Lys
1 5 10

<210> 247
<211> 23
<212> PRT
<213> Rattus norvegicus

<400> 247

Asn Ile His Leu Thr Gln Ser Pro Ser Leu Leu Ser Ala Ser Val Gly
1 5 10 15

Asp Arg Val Thr Leu Ser Cys
20

<210> 248
<211> 15
<212> PRT
<213> Rattus norvegicus

<400> 248

Trp Tyr Gln Gln Lys Leu Gly Glu Ala Pro Lys Leu Leu Ile Tyr
1 5 10 15

<210> 249
<211> 32
<212> PRT
<213> Rattus norvegicus

<400> 249

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

Leu Thr Ile Ser Ser Leu Gln Pro Glu Asp Ala Ala Thr Tyr Phe Cys
20 25 30

<210> 250
<211> 10
<212> PRT
<213> Rattus norvegicus

<400> 250

Phe Gly Ser Gly Thr Lys Leu Glu Ile Lys
1 5 10

<210> 251
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 251

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

Asp Arg Val Thr Ile Thr Cys
20

<210> 252
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 252

Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile Tyr
1 5 10 15

<210> 253
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 253

Gly Ile Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Glu Tyr Thr
1 5 10 15

Leu Thr Ile Ser Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Phe Cys
20 25 30

<210> 254
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 254

Gly Val Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Glu Tyr Thr
1 5 10 15

Leu Thr Ile Ser Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Phe Cys
20 25 30

<210> 255
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 255

Gly Ile Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Glu Phe Thr
1 5 10 15

Leu Thr Ile Ser Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Phe Cys
20 25 30

<210> 256
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 256

Gly Ile Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Glu Tyr Thr
1 5 10 15

Leu Thr Ile Ser Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys
20 25 30

<210> 257
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 257

Gly Val Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Glu Phe Thr
1 5 10 15

Leu Thr Ile Ser Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys
20 25 30

<210> 258
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 258

Gly Val Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Glu Tyr Thr
1 5 10 15

Leu Thr Ile Ser Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys
20 25 30

<210> 259
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 259

Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
1 5 10

<210> 260
<211> 117
<212> PRT
<213> Rattus norvegicus

<400> 260

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

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

Ser Ile Tyr Trp Leu Lys Gln Arg Pro Lys Gln Ser Leu Glu Ile Ile
35 40 45

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

Lys Asn Arg Ala Thr Leu Thr Thr Asn Thr Ser Ser Asn Thr Ala Tyr
65 70 75 80

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

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

Val Thr Ala Ser Ser
115

<210> 261
<211> 106
<212> PRT
<213> Rattus norvegicus
<400> 261

Asn Ile His Leu Thr Gln Ser Pro Ser Leu Leu Ser Ala Ser Val Gly
1 5 10 15

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

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

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

Ser Gly Ser Gly Thr Asp Tyr Thr Leu Thr Ile Ser Ser Leu Gln Pro
65 70 75 80

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

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

<210> 262
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 262

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

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

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

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

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

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

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

Val Thr Val Ser Ser
115

<210> 263
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 263

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

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

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

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

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

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

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

Val Thr Val Ser Ser
115

<210> 264

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

<220>
<223> Synthetic Construct

<400> 264

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

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

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

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

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

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

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

Val Thr Val Ser Ser
115

<210> 265
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 265

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

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

Ser Ile Tyr Trp Leu Arg Gln Ala Pro Gly Gln Arg Leu Glu Ile Met
35 40 45

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

Lys Asn Arg Ala Thr Leu Thr Thr Asp Thr Ser Ala Ser Thr Ala Tyr
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1 5 10 15
 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Glu His
 20 25 30
 Ser Ile Tyr Trp Leu Arg Gln Ala Pro Gly Gln Arg Leu Glu Ile Ile
 35 40 45
 Gly Arg Ile Asp Pro Lys Asn Gly Arg Thr Tyr Phe Val Asp Lys Phe
 50 55 60
 Lys Asn Arg Ala Thr Ile Thr Thr Asp Thr Ser Ala Ser Thr Ala Tyr
 65 70 75 80
 Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Phe Cys
 85 90 95
 Ala Arg Ile Asp Gly Phe Tyr Phe Asp Phe Trp Gly Gln Gly Thr Leu
 100 105 110
 Val Thr Val Ser Ser
 115

<210> 268
 <211> 117
 <212> PRT
 <213> Artificial Sequence
 <220>
 <223> Synthetic Construct
 <400> 268

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
 1 5 10 15
 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Glu His
 20 25 30
 Ser Ile Tyr Trp Leu Arg Gln Ala Pro Gly Gln Arg Leu Glu Ile Ile
 35 40 45
 Gly Arg Ile Asp Pro Lys Asn Gly Arg Thr Tyr Phe Val Asp Lys Phe
 50 55 60
 Lys Asn Arg Ala Thr Leu Thr Arg Asp Thr Ser Ala Ser Thr Ala Tyr
 65 70 75 80
 Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Phe Cys
 85 90 95
 Ala Arg Ile Asp Gly Phe Tyr Phe Asp Phe Trp Gly Gln Gly Thr Leu
 100 105 110

Val Thr Val Ser Ser
115

<210> 269
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 269

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

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

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

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

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

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

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

Val Thr Val Ser Ser
115

<210> 270
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 270

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

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

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

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

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

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

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

Val Thr Val Ser Ser
115

<210> 271
<211> 106
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 271

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

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

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

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

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

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

Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
100 105

<210> 272
<211> 106
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 272

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

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

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

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

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

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

Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
100 105

<210> 273
<211> 106
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 273

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

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

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

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

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

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

Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
100 105

<210> 274

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

<220>
<223> Synthetic Construct

<400> 274

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

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

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

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

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

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

Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
100 105

<210> 275
<211> 106
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 275

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

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

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

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

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

Glu Asp Phe Ala Thr Tyr Tyr Cys Tyr Gln Tyr Asn Asn Gly Phe Thr
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95

Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
100 105

<210> 276
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct
<400> 276

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

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

Ser Ile Tyr Trp Leu Arg Gln Ala Pro Gly Gln Arg Leu Glu Ile Met
35 40 45

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

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

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

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

Val Thr Val Ser Ser
115

<210> 277
<211> 106
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct
<400> 277

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

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

Leu Val Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile
Page 98

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40

45

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

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

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

Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105

<210> 278
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 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 278

Asp Ser Tyr Met Ser
 1 5

<210> 279
 <211> 5
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 279

Asp Ala Tyr Met Ser
 1 5

<210> 280
 <211> 5
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 280

Glu Ser Tyr Met Ser
 1 5

<210> 281
 <211> 17
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 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 281

Asp Met Tyr Pro Asp Asn Gly Asp Ser Ser Tyr Asn Gln Lys Phe Arg
1 5 10 15

Glu

<210> 282

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 282

Asp Met Tyr Pro Asp Asn Ala Asp Ser Ser Tyr Asn Gln Lys Phe Arg
1 5 10 15

Glu

<210> 283

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 283

Asp Met Tyr Pro Asp Asn Ala Asp Ala Ser Tyr Asn Gln Lys Phe Arg
1 5 10 15

Glu

<210> 284

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 284

Asp Met Tyr Pro Asp Asn Gly Asp Ala Ser Tyr Asn Gln Lys Phe Arg
1 5 10 15

Glu

<210> 285

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 285

Asp Met Tyr Pro Asp Ser Gly Asp Ser Ser Tyr Asn Gln Lys Phe Arg
1 5 10 15

Glu

<210> 286

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 286

Asp Met Tyr Pro Asp Asn Gly Ser Ser Ser Tyr Asn Gln Lys Phe Arg
1 5 10 15

Glu

<210> 287

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 287

Ala Pro Arg Trp Tyr Phe Ser Val
1 5

<210> 288

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 288

Ala Pro Arg Trp Tyr Phe Ser Ala
1 5

<210> 289

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 289

Ala Pro Arg Trp Tyr Phe Ala Val
1 5

<210> 290

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 290

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

<210> 291

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 291

Tyr Thr Ser Arg Leu Arg Ser
1 5

<210> 292

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 292

Gln Gln Gly His Thr Leu Pro Pro Thr
1 5

<210> 293

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 293

Gln Gln Gly His Thr Leu Pro Ala Thr
1 5

<210> 294

<211> 9

<212> PRT

<213> Artificial Sequence

<220>
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<400> 294
Gln Gln Gly His Thr Ala Pro Pro Thr
1 5

<210> 295
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<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct
<400> 295

Gln Gln Gly Ala Thr Leu Pro Pro Thr
1 5

<210> 296
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct
<400> 296

Gln Gln Gly His Ala Leu Pro Pro Thr
1 5

<210> 297
<211> 9
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<220>
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Gln Gln Ala His Thr Leu Pro Pro Thr
1 5

<210> 298
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct
<400> 298

Gln Gln Gly His Thr Leu Ala Pro Thr
1 5

<210> 299
<211> 9
<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 299

Gln Ala Gly His Thr Leu Pro Pro Thr
1 5

<210> 300

<211> 117

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 300

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

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

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

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

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

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

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

Val Thr Val Ser Ser
115

<210> 301

<211> 117

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 301

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

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asp Ser
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Tyr Met Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Ile
 35 40 45

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

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

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

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

Val Thr Val Ser Ser
 115

<210> 302
 <211> 117
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 302

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

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

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

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

Arg Glu Arg Val Thr Leu Thr Val Asp Thr Ser Thr Ser Thr Ala Tyr
 65 70 75 80

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

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

Val Thr Val Ser Ser
 115

<210> 303
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 303

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

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

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

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

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

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

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

Val Thr Val Ser Ser
115

<210> 304
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 304

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

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

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

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

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

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

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

Val Thr Val Ser Ser
115

<210> 305
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 305

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

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

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

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

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

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

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

Val Thr Val Ser Ser
115

<210> 306
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 306

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
 1 5 10 15
 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asp Ser
 20 25 30
 Tyr Met Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Ile
 35 40 45
 Gly Asp Met Tyr Pro Asp Asn Gly Asp Ser Ser Tyr Asn Gln Lys Phe
 50 55 60
 Arg Glu Arg Val Thr Ile Thr Val Asp Thr Ser Thr Ser Thr Ala Tyr
 65 70 75 80
 Leu Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Val Leu Ala Pro Arg Trp Tyr Phe Ser Val Trp Gly Gln Gly Thr Leu
 100 105 110
 Val Thr Val Ser Ser
 115

<210> 307
 <211> 117
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 307

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
 1 5 10 15
 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asp Ala
 20 25 30
 Tyr Met Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Ile
 35 40 45
 Gly Asp Met Tyr Pro Asp Asn Gly Asp Ser Ser Tyr Asn Gln Lys Phe
 50 55 60
 Arg Glu Arg Val Thr Ile Thr Arg Asp Thr Ser Thr Ser Thr Ala Tyr
 65 70 75 80
 Leu Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Val Leu Ala Pro Arg Trp Tyr Phe Ser Val Trp Gly Gln Gly Thr Leu
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100

105

110

Val Thr Val Ser Ser
115

<210> 308
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 308

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

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

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

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

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

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

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

Val Thr Val Ser Ser
115

<210> 309
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 309

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

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

Tyr Met Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Ile
Page 109

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Gly Asp Met Tyr Pro Asp Asn Ala Asp Ser Ser Tyr Asn Gln Lys Phe
 50 55 60

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

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

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

Val Thr Val Ser Ser
 115

<210> 310
 <211> 117
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 310

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

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

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

Gly Asp Met Tyr Pro Asp Asn Ala Asp Ala Ser Tyr Asn Gln Lys Phe
 50 55 60

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

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

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

Val Thr Val Ser Ser
 115

<210> 311
 <211> 117
 <212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 311

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

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

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

Gly Asp Met Tyr Pro Asp Asn Gly Asp Ala Ser Tyr Asn Gln Lys Phe
50 55 60

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

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

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

Val Thr Val Ser Ser
115

<210> 312

<211> 117

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 312

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

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

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

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

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

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

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

Val Thr Val Ser Ser
115

<210> 313
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 313

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

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

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

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

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

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

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

Val Thr Val Ser Ser
115

<210> 314
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 314

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

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

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

Gly Asp Met Tyr Pro Asp Asn Ala Asp Ala Ser Tyr Asn Gln Lys Phe
50 55 60

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

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

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

Val Thr Val Ser Ser
115

<210> 315
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 315

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

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

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

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

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

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

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

Val Thr Val Ser Ser

115

<210> 316
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 316

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

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

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

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

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

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

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

Val Thr Val Ser Ser
115

<210> 317
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 317

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

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

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

Gly Asp Met Tyr Pro Asp Asn Gly Asp Ser Ser Tyr Asn Gln Lys Phe
Page 114

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60

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

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

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

Val Thr Val Ser Ser
115

<210> 318
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 318

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

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

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

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

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

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

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

Val Thr Val Ser Ser
115

<210> 319
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 319

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

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

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

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

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

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

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

Val Thr Val Ser Ser
115

<210> 320

<211> 117

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 320

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

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

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

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

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

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

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

Val Thr Val Ser Ser
115

<210> 321
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 321

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

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

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

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

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

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

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

Val Thr Val Ser Ser
115

<210> 322
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 322

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

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

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

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

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

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

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

Val Thr Val Ser Ser
115

<210> 323
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 323

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

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

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

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

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

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

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

Val Thr Val Ser Ser
115

<210> 324

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

<220>
<223> Synthetic Construct

<400> 324

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

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

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

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

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

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

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

Val Thr Val Ser Ser
115

<210> 325
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 325

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

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

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

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

Arg Glu Arg Val Thr Ile Thr Arg Asp Thr Ser Thr Ser Thr Ala Tyr
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Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile
 35 40 45

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

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

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

Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105

<210> 328
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 328

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

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

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

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

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

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

Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105

<210> 329
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 329

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

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

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

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

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

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

Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
100 105

<210> 330

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 330

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

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

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

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

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

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

Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
100 105

<210> 331
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 331

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

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

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

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

Ser Gly Ser Gly Lys Asp Tyr Thr Leu Thr Ile Ser Ser Leu Gln Pro
 65 70 75 80

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

Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105

<210> 332
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 332

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

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

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

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

Ser Gly Ser Gly Lys Asp Tyr Thr Leu Thr Ile Ser Ser Leu Gln Pro
 65 70 75 80

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

Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
100 105

<210> 333
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 333

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

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

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

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

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

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

Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
100 105

<210> 334
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 334

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

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

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

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

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

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

Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
100 105

<210> 335
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 335

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

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

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

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

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

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

Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
100 105

<210> 336
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 336

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

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

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

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

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

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

Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
100 105

<210> 337
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 337

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

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

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

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

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

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

Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
100 105

<210> 338
<211> 107
<212> PRT
<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 338

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

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

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

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

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

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

Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
100 105

<210> 339

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 339

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

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

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

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

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

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

Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys

100

105

<210> 340
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 340

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

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

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

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

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

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

Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105

<210> 341
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 341

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

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

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

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

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
 Page 128

35

40

45

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

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

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

Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105

<210> 344
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 344

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

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

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

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

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

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

Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105

<210> 345
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 345

Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
 Page 130

1 5 10 15
 Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Asp Ile Ser Asn Tyr
 20 25 30
 Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile
 35 40 45
 Tyr Tyr Thr Ser Arg Leu Arg Ser Gly Val Pro Ser Arg Phe Ser Gly
 50 55 60
 Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
 65 70 75 80
 Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ala His Thr Leu Pro Pro
 85 90 95
 Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105

<210> 346
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 346

Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
 1 5 10 15
 Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Asp Ile Ser Asn Tyr
 20 25 30
 Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile
 35 40 45
 Tyr Tyr Thr Ser Arg Leu Arg Ser Gly Val Pro Ser Arg Phe Ser Gly
 50 55 60
 Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
 65 70 75 80
 Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Gly His Thr Leu Ala Pro
 85 90 95
 Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105

<210> 347
 <211> 107
 <212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 347

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

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

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

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

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

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

Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
100 105

<210> 348

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 348

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

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

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

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

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

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

Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
100 105

<210> 349
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 349

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

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

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

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

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

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

Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
100 105

<210> 350
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 350

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

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

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

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

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

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

Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
100 105

<210> 351
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 351

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

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

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

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

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

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

Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
100 105

<210> 352
<211> 244
<212> PRT
<213> Homo sapiens

<400> 352

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

Pro Leu Ala Ser Gly Met Met Thr Gly Thr Ile Glu Thr Thr Gly Asn
20 25 30

Ile Ser Ala Glu Lys Gly Gly Ser Ile Ile Leu Gln Cys His Leu Ser
35 40 45

Ser Thr Thr Ala Gln Val Thr Gln Val Asn Trp Glu Gln Gln Asp Gln
50 55 60

Leu Leu Ala Ile Cys Asn Ala Asp Leu Gly Trp His Ile Ser Pro Ser
65 70 75 80

Phe Lys Asp Arg Val Ala Pro Gly Pro Gly Leu Gly Leu Thr Leu Gln
85 90 95

Ser Leu Thr Val Asn Asp Thr Gly Glu Tyr Phe Cys Ile Tyr His Thr
100 105 110

Tyr Pro Asp Gly Thr Tyr Thr Gly Arg Ile Phe Leu Glu Val Leu Glu
115 120 125

Ser Ser Val Ala Glu His Gly Ala Arg Phe Gln Ile Pro Leu Leu Gly
130 135 140

Ala Met Ala Ala Thr Leu Val Val Ile Cys Thr Ala Val Ile Val Val
145 150 155 160

Val Ala Leu Thr Arg Lys Lys Lys Ala Leu Arg Ile His Ser Val Glu
165 170 175

Gly Asp Leu Arg Arg Lys Ser Ala Gly Gln Glu Glu Trp Ser Pro Ser
180 185 190

Ala Pro Ser Pro Pro Gly Ser Cys Val Gln Ala Glu Ala Ala Pro Ala
195 200 205

Gly Leu Cys Gly Glu Gln Arg Gly Glu Asp Cys Ala Glu Leu His Asp
210 215 220

Tyr Phe Asn Val Leu Ser Tyr Arg Ser Leu Gly Asn Cys Ser Phe Phe
225 230 235 240

Thr Glu Thr Gly

<210> 353
<211> 223
<212> PRT
<213> Homo sapiens

<400> 353

Met Met Thr Gly Thr Ile Glu Thr Thr Gly Asn Ile Ser Ala Glu Lys
1 5 10 15

Gly Gly Ser Ile Ile Leu Gln Cys His Leu Ser Ser Thr Thr Ala Gln
20 25 30

Val Thr Gln Val Asn Trp Glu Gln Gln Asp Gln Leu Leu Ala Ile Cys
35 40 45

Asn Ala Asp Leu Gly Trp His Ile Ser Pro Ser Phe Lys Asp Arg Val
50 55 60

Ala Pro Gly Pro Gly Leu Gly Leu Thr Leu Gln Ser Leu Thr Val Asn
65 70 75 80

Asp Thr Gly Glu Tyr Phe Cys Ile Tyr His Thr Tyr Pro Asp Gly Thr
85 90 95

Tyr Thr Gly Arg Ile Phe Leu Glu Val Leu Glu Ser Ser Val Ala Glu
100 105 110

His Gly Ala Arg Phe Gln Ile Pro Leu Leu Gly Ala Met Ala Ala Thr
115 120 125

Leu Val Val Ile Cys Thr Ala Val Ile Val Val Val Ala Leu Thr Arg
130 135 140

Lys Lys Lys Ala Leu Arg Ile His Ser Val Glu Gly Asp Leu Arg Arg
145 150 155 160

Lys Ser Ala Gly Gln Glu Glu Trp Ser Pro Ser Ala Pro Ser Pro Pro
165 170 175

Gly Ser Cys Val Gln Ala Glu Ala Ala Pro Ala Gly Leu Cys Gly Glu
180 185 190

Gln Arg Gly Glu Asp Cys Ala Glu Leu His Asp Tyr Phe Asn Val Leu
195 200 205

Ser Tyr Arg Ser Leu Gly Asn Cys Ser Phe Phe Thr Glu Thr Gly
210 215 220

<210> 354
<211> 249
<212> PRT
<213> Homo sapiens

<400> 354

Leu His Cys Val Gly Asp Thr Tyr Pro Ser Asn Asp Arg Cys Cys His
1 5 10 15

Glu Cys Arg Pro Gly Asn Gly Met Val Ser Arg Cys Ser Arg Ser Gln
20 25 30

Asn Thr Val Cys Arg Pro Cys Gly Pro Gly Phe Tyr Asn Asp Val Val
35 40 45

Ser Ser Lys Pro Cys Lys Pro Cys Thr Trp Cys Asn Leu Arg Ser Gly
 50 55 60

Ser Glu Arg Lys Gln Leu Cys Thr Ala Thr Gln Asp Thr Val Cys Arg
 65 70 75 80

Cys Arg Ala Gly Thr Gln Pro Leu Asp Ser Tyr Lys Pro Gly Val Asp
 85 90 95

Cys Ala Pro Cys Pro Pro Gly His Phe Ser Pro Gly Asp Asn Gln Ala
 100 105 110

Cys Lys Pro Trp Thr Asn Cys Thr Leu Ala Gly Lys His Thr Leu Gln
 115 120 125

Pro Ala Ser Asn Ser Ser Asp Ala Ile Cys Glu Asp Arg Asp Pro Pro
 130 135 140

Ala Thr Gln Pro Gln Glu Thr Gln Gly Pro Pro Ala Arg Pro Ile Thr
 145 150 155 160

Val Gln Pro Thr Glu Ala Trp Pro Arg Thr Ser Gln Gly Pro Ser Thr
 165 170 175

Arg Pro Val Glu Val Pro Gly Gly Arg Ala Val Ala Ala Ile Leu Gly
 180 185 190

Leu Gly Leu Val Leu Gly Leu Leu Gly Pro Leu Ala Ile Leu Leu Ala
 195 200 205

Leu Tyr Leu Leu Arg Arg Asp Gln Arg Leu Pro Pro Asp Ala His Lys
 210 215 220

Pro Pro Gly Gly Gly Ser Phe Arg Thr Pro Ile Gln Glu Glu Gln Ala
 225 230 235 240

Asp Ala His Ser Thr Leu Ala Lys Ile
 245