

X20356SequenceListingST25
SEQUENCE LISTING

<110> Eli Lilly and Company
<120> FUSION PROTEINS
<130> X20356
<150> 62/158079
<151> 2015-05-07
<160> 25
<170> PatentIn version 3.5
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<223> Xaa at position 2 is Val or Gly

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<223> Xaa at position 16 is Glu, Tyr, Gln or His

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

Leu Val Cys Gly Glu Arg Gly Phe Xaa Tyr Xaa Xaa Xaa Xaa
 20 25 30

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 <223> Xaa at position 14 is Asp, Tyr, Gln or Glu

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 Gly Ile Val Glu Gln Cys Cys Thr Ser Xaa Cys Ser Leu Xaa Gln Leu
 1 5 10 15

Glu Asn Tyr Cys Xaa Xaa
 20

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 <223> Xaa at position 3 is Gly, Ser, or is absent
 <400> 3

Xaa Gly Xaa Gly Gly Gly Gly
 1 5

<210> 4
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 <223> Xaa at position 33 is Gly, Ser, or is absent

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 <223> Xaa at position 47 is Thr or Ile

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 <223> Xaa at position 51 is Asp, Tyr, Gln, or Glu

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 <223> Xaa at position 59 is any naturally occurring amino acid, or is absent

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 1 5 10 15

Leu Val Cys Gly Glu Arg Gly Phe Xaa Tyr Xaa Xaa Xaa Xaa Xaa Gly
 20 25 30

Xaa Gly Gly Gly Gly Gly Ile Val Glu Gln Cys Cys Thr Ser Xaa Cys
 35 40 45

Ser Leu Xaa Gln Leu Glu Asn Tyr Cys Xaa Xaa
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<210> 5
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<400> 5

Phe Val Asn Gln His Leu Cys Gly Ser His Leu Val Glu Ala Leu Glu
 1 5 10 15

Leu Val Cys Gly Glu Arg Gly Phe His Tyr Gly Gly Gly Gly Gly Gly
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Ser Gly Gly Gly Gly Gly Ile Val Glu Gln Cys Cys Thr Ser Thr Cys
 35 40 45

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Ser Leu Asp Gln Leu Glu Asn Tyr Cys Gly
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<222> (15)..(15)
<223> Xaa at position 15 is Gln or Glu

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<223> Xaa at position 20 is Gly, Glu, Gln, or is absent

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Gly Gly Gly Gly Xaa Gly Gly Gly Gly Xaa Gly Gly Gly Gly Xaa Gly
1 5 10 15

Gly Gly Gly Xaa Xaa Xaa
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<400> 7

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Gly Gly Gly Gly Gln Gly Gly Gly Gly Gln Gly Gly Gly Gly Gln Gly
1 5 10 15

Gly Gly Gly Gly
20

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<223> Xaa at position 18 is Phe, Gln or Glu

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<222> (37)..(37)
<223> Xaa at position 37 is Val or Thr

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<222> (39)..(39)
<223> Xaa at position 39 is Val or Thr

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<223> Xaa at position 72 is Asn, Asp or Gln

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

Leu Xaa Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro
20 25 30

Glu Val Thr Cys Xaa Val Xaa Asp Val Ser His Glu Asp Pro Glu Val
35 40 45

Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr
50 55 60

Lys Pro Arg Glu Glu Gln Tyr Xaa Ser Thr Tyr Arg Val Val Ser Val
65 70 75 80

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Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys
 85 90 95
 Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser
 100 105 110
 Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro
 115 120 125
 Ser Arg Asp Glu Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val
 130 135 140
 Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly
 145 150 155 160
 Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp
 165 170
 Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp
 180 185 190
 Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His
 195 200 205
 Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Xaa
 210 215 220

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 <223> Xaa at position 19 is Phe, Gln or Glu

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 <222> (38)..(38)
 <223> Xaa at position 38 is val or Thr

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 <222> (40)..(40)
 <223> Xaa at position 40 is val or Thr

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<223> Xaa at position 73 is Asn, Asp or Gln

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Pro Cys Pro Pro Cys Pro Ala Pro Glu Ala Ala Gly Gly Pro Ser Val
1 5 10 15

Xaa Leu Xaa Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr
20 25 30

Pro Glu Val Thr Cys Xaa Val Xaa Asp Val Ser Gln Glu Asp Pro Glu
35 40 45

Val Gln Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys
50 55 60

Thr Lys Pro Arg Glu Glu Gln Phe Xaa Ser Thr Tyr Arg Val Val Ser
65 70 75 80

Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys
85 90 95

Cys Lys Val Ser Asn Lys Gly Leu Pro Ser Ser Ile Glu Lys Thr Ile
100 105 110

Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro
115 120 125

Pro Ser Gln Glu Glu Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu
130 135 140

Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn
145 150 155 160

Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser
165 170 175

Asp Gly Ser Phe Phe Leu Tyr Ser Xaa Leu Thr Val Asp Lys Ser Arg
180 185 190

Trp Gln Glu Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu
195 200 205

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His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Leu Gly Xaa
 210 215 220

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 <223> Xaa at position 18 is Phe, Gln, or Glu

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 <223> Xaa at position 37 is Val or Thr

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 <223> Xaa at position 39 is Val or Thr

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 <223> Xaa at position 72 is Asn, Asp, or Gln

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 <223> Xaa at position 222 is Lys or is absent

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Glu Cys Pro Pro Cys Pro Ala Pro Pro Val Ala Gly Pro Ser Val Xaa
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Leu Xaa Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro
 20 25 30

Glu Val Thr Cys Xaa Val Xaa Asp Val Ser His Glu Asp Pro Glu Val
 35 40 45

Gln Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr
 50 55 60

Lys Pro Arg Glu Glu Gln Phe Xaa Ser Thr Phe Arg Val Val Ser Val
 65 70 75 80

Leu Thr Val Val His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys
 85 90 95

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Lys Val Ser Asn Lys Gly Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser
100 105 110

Lys Thr Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro
115 120 125

Ser Arg Glu Glu Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val
130 135 140

Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly
145 150 155 160

Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Met Leu Asp Ser Asp
165 170 175

Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp
180 185 190

Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His
195 200 205

Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Xaa
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<222> (16)..(16)
<223> Xaa at position 16 is Glu, Tyr, Gln, or His

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<223> Xaa at position 25 is His or Phe

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 <223> Xaa at position 276 is Glu or Gln

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 <223> Xaa at position 302 is Leu or Pro

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

Leu Val Cys Gly Glu Arg Gly Phe Xaa Tyr Xaa Xaa Xaa Xaa Xaa Gly
 20 25 30

Xaa Gly Gly Gly Gly Gly Ile Val Glu Gln Cys Cys Thr Ser Xaa Cys
 35 40 45

Ser Leu Xaa Gln Leu Glu Asn Tyr Cys Xaa Xaa Gly Gly Gly Gly Xaa
 50 55 60

Gly Gly Gly Gly Xaa Gly Gly Gly Gly Xaa Gly Gly Gly Gly Xaa Xaa
 65 70 75 80

Xaa Xaa Cys Pro Pro Cys Pro Ala Pro Xaa Xaa Ala Gly Xaa Pro Ser
 85 90 95

Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg
 100 105 110

Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser Xaa Glu Asp Pro
 115 120 125

Glu Val Gln Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala
 130 135 140

Lys Thr Lys Pro Arg Glu Glu Gln Phe Asn Ser Thr Xaa Arg Val Val
 145 150 155 160

Ser Val Leu Thr Val Xaa His Gln Asp Trp Leu Asn Gly Lys Glu Tyr
 165 170 175

Lys Cys Lys Val Ser Asn Lys Gly Leu Pro Xaa Xaa Ile Glu Lys Thr

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180

185

190

Ile Ser Lys Xaa Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu
195 200 205

Pro Pro Ser Xaa Glu Glu Met Thr Lys Asn Gln Val Ser Leu Thr Cys
210 215 220

Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser
225 230 235 240

Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Xaa Leu Asp
245 250 255

Ser Asp Gly Ser Phe Phe Leu Tyr Ser Xaa Leu Thr Val Asp Lys Ser
260 265 270

Arg Trp Gln Xaa Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala
275 280 285

Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Xaa Gly
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Phe Val Asn Gln His Leu Cys Gly Ser His Leu Val Glu Ala Leu Glu
1 5 10 15

Leu Val Cys Gly Glu Arg Gly Phe His Tyr Gly Gly Gly Gly Gly Gly
20 25 30

Ser Gly Gly Gly Gly Gly Ile Val Glu Gln Cys Cys Thr Ser Thr Cys
35 40 45

Ser Leu Asp Gln Leu Glu Asn Tyr Cys Gly Gly Gly Gly Gly Gln Gly
50 55 60

Gly Gly Gly Gln Gly Gly Gly Gly Gln Gly Gly Gly Gly Gly Glu Cys
65 70 75 80

Pro Pro Cys Pro Ala Pro Pro Val Ala Gly Pro Ser Val Phe Leu Phe
85 90 95

Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val
100 105 110

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Thr Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Gln Phe
115 120 125

Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro
130 135 140

Arg Glu Glu Gln Phe Asn Ser Thr Phe Arg Val Val Ser Val Leu Thr
145 150 155 160

Val Val His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val
165 170 175

Ser Asn Lys Gly Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Thr
180 185 190

Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg
195 200 205

Glu Glu Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly
210 215 220

Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro
225 230 235 240

Glu Asn Asn Tyr Lys Thr Thr Pro Pro Met Leu Asp Ser Asp Gly Ser
245 250 255

Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln
260 265 270

Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His
275 280 285

Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly
290 295

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Gly Ile Val Glu Gln Cys Cys Thr Ser Ile Cys Ser Leu Tyr Gln Leu
1 5 10 15

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

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Gly Gly Ser Gly Gly Gly Gly
1 5

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Phe Val Asn Gln His Leu Cys Gly Ser His Leu Val Glu Ala Leu Tyr
1 5 10 15

Leu Val Cys Gly Glu Arg Gly Phe Phe Tyr Thr Glu Glu Thr Gly Gly
20 25 30

Gly Gly Gly Gly Gly Ile Val Glu Gln Cys Cys Thr Ser Ile Cys Ser
35 40 45

Leu Tyr Gln Leu Glu Asn Tyr Cys Gly Gly Gly Gly Gly Ser Gly Gly
50 55 60

Gly Gly Ser Gly Gly Gly Gly Ser Glu Ser Lys Tyr Gly Pro Pro Cys
65 70 75 80

Pro Pro Cys Pro Ala Pro Glu Ala Ala Gly Gly Pro Ser Val Phe Leu
85 90 95

Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu
100 105 110

Val Thr Cys Val Val Val Asp Val Ser Gln Glu Asp Pro Glu Val Gln
115 120 125

Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys

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130

135

140

Pro Arg Glu Glu Gln Phe Asn Ser Thr Tyr Arg Val Val Ser Val Leu
145 150 155 160

Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys
165 170 175

Val Ser Asn Lys Gly Leu Pro Ser Ser Ile Glu Lys Thr Ile Ser Lys
180 185 190

Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser
195 200 205

Gln Glu Glu Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys
210 215 220

Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln
225 230 235 240

Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly
245 250 255

Ser Phe Phe Leu Tyr Ser Arg Leu Thr Val Asp Lys Ser Arg Trp Gln
260 265 270

Glu Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn
275 280 285

His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Leu Gly
290 295 300

<210> 17
<211> 302
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<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 17

Phe Val Asn Gln His Leu Cys Gly Ser His Leu Val Glu Ala Leu Glu
1 5 10 15

Leu Val Cys Gly Glu Arg Gly Phe His Tyr Gly Gly Gly Gly Gly Gly
20 25 30

Ser Gly Gly Gly Gly Gly Ile Val Glu Gln Cys Cys Thr Ser Ile Cys
35 40 45

Ser Leu Asp Gln Leu Glu Asn Tyr Cys Gly Gly Gly Gly Gly Gln Gly
50 55 60

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Gly Gly Gly Gln Gly Gly Gly Gly Gln Gly Gly Gly Gly Gln Gly Gly
65 70 75 80

Pro Cys Pro Pro Cys Pro Ala Pro Glu Ala Ala Gly Gly Pro Ser Val
85 90 95

Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr
100 105 110

Pro Glu Val Thr Cys Val Val Val Asp Val Ser Gln Glu Asp Pro Glu
115 120 125

Val Gln Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys
130 135 140

Thr Lys Pro Arg Glu Glu Gln Phe Asn Ser Thr Tyr Arg Val Val Ser
145 150 155 160

Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys
165 170 175

Cys Lys Val Ser Asn Lys Gly Leu Pro Ser Ser Ile Glu Lys Thr Ile
180 185 190

Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro
195 200 205

Pro Ser Gln Glu Glu Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu
210 215 220

Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn
225 230 235 240

Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser
245 250 255

Asp Gly Ser Phe Phe Leu Tyr Ser Arg Leu Thr Val Asp Lys Ser Arg
260 265 270

Trp Gln Glu Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu
275 280 285

His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Leu Gly
290 295 300

<210> 18
<211> 297
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic Construct

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<400> 18

Phe Val Asn Gln His Leu Cys Gly Ser His Leu Val Glu Ala Leu Glu
1 5 10 15

Leu Val Cys Gly Glu Arg Gly Phe His Tyr Gly Gly Gly Gly Gly Ser
20 25 30

Gly Gly Gly Gly Gly Ile Val Glu Gln Cys Cys Thr Ser Ile Cys Ser
35 40 45

Leu Asp Gln Leu Glu Asn Tyr Cys Gly Gly Gly Gly Gly Glu Gly Gly
50 55 60

Gly Gly Glu Gly Gly Gly Gly Glu Gly Gly Gly Gly Glu Cys Pro Pro
65 70 75 80

Cys Pro Ala Pro Pro Val Ala Gly Pro Ser Val Phe Leu Phe Pro Pro
85 90 95

Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys
100 105 110

Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Gln Phe Asn Trp
115 120 125

Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu
130 135 140

Glu Gln Phe Asn Ser Thr Phe Arg Val Val Ser Val Leu Thr Val Val
145 150 155 160

His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn
165 170 175

Lys Gly Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Thr Lys Gly
180 185 190

Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu
195 200 205

Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr
210 215 220

Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn
225 230 235 240

Asn Tyr Lys Thr Thr Pro Pro Met Leu Asp Ser Asp Gly Ser Phe Phe
245 250 255

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

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260

265

270

Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr
275 280 285

Gln Lys Ser Leu Ser Leu Ser Pro Gly
290 295

<210> 19

<211> 302

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 19

Phe Val Asn Gln His Leu Cys Gly Ser His Leu Val Glu Ala Leu Glu
1 5 10 15

Leu Val Cys Gly Glu Arg Gly Phe His Tyr Gly Gly Gly Gly Gly Gly
20 25 30

Ser Gly Gly Gly Gly Gly Ile Val Glu Gln Cys Cys Thr Ser Thr Cys
35 40 45

Ser Leu Asp Gln Leu Glu Asn Tyr Cys Gly Gly Gly Gly Gly Gln Gly
50 55 60

Gly Gly Gly Gln Gly Gly Gly Gly Gln Gly Gly Gly Gly Gln Gly Gly
65 70 75 80

Pro Cys Pro Pro Cys Pro Ala Pro Glu Ala Ala Gly Gly Pro Ser Val
85 90 95

Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr
100 105 110

Pro Glu Val Thr Cys Val Val Val Asp Val Ser Gln Glu Asp Pro Glu
115 120 125

Val Gln Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys
130 135 140

Thr Lys Pro Arg Glu Glu Gln Phe Asn Ser Thr Tyr Arg Val Val Ser
145 150 155 160

Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys
165 170 175

Cys Lys Val Ser Asn Lys Gly Leu Pro Ser Ser Ile Glu Lys Thr Ile
180 185 190

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Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro
195 200 205

Pro Ser Gln Glu Glu Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu
210 215 220

Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn
225 230 235 240

Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser
245 250 255

Asp Gly Ser Phe Phe Leu Tyr Ser Arg Leu Thr Val Asp Lys Ser Arg
260 265 270

Trp Gln Glu Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu
275 280 285

His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Leu Gly
290 295 300

<210> 20
<211> 302
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic Construct

<400> 20

Phe Val Gly Gln His Leu Cys Gly Ser His Leu Val Glu Ala Leu Glu
1 5 10 15

Leu Val Cys Gly Glu Arg Gly Phe His Tyr Gly Gly Gly Gly Gly Gly
20 25 30

Ser Gly Gly Gly Gly Gly Ile Val Glu Gln Cys Cys Thr Ser Ile Cys
35 40 45

Ser Leu Asp Gln Leu Glu Asn Tyr Cys Gly Gly Gly Gly Gly Gln Gly
50 55 60

Gly Gly Gly Gln Gly Gly Gly Gly Gln Gly Gly Gly Gly Gln Gly Gly
65 70 75 80

Pro Cys Pro Pro Cys Pro Ala Pro Glu Ala Ala Gly Gly Pro Ser Val
85 90 95

Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr
100 105 110

Pro Glu Val Thr Cys Val Val Val Asp Val Ser Gln Glu Asp Pro Glu
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115

120

125

Val Gln Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys
130 135 140

Thr Lys Pro Arg Glu Glu Gln Phe Asn Ser Thr Tyr Arg Val Val Ser
145 150 155 160

Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys
165 170 175

Cys Lys Val Ser Asn Lys Gly Leu Pro Ser Ser Ile Glu Lys Thr Ile
180 185 190

Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro
195 200 205

Pro Ser Gln Glu Glu Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu
210 215 220

Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn
225 230 235 240

Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser
245 250 255

Asp Gly Ser Phe Phe Leu Tyr Ser Arg Leu Thr Val Asp Lys Ser Arg
260 265 270

Trp Gln Glu Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu
275 280 285

His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Leu Gly
290 295 300

<210> 21
<211> 297
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 21

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

Leu Val Cys Gly Glu Arg Gly Phe His Tyr Gly Gly Gly Gly Gly Ser
20 25 30

Gly Gly Gly Gly Gly Ile Val Glu Gln Cys Cys Thr Ser Ile Cys Ser
35 40 45

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Leu Asp Gln Leu Glu Asn Tyr Cys Gly Gly Gly Gly Gly Gln Gly Gly
 50 55 60
 Gly Gly Gln Gly Gly Gly Gly Gln Gly Gly Gly Gly Glu Cys Pro Pro
 65 70 75 80
 Cys Pro Ala Pro Pro Val Ala Gly Pro Ser Val Phe Leu Phe Pro Pro
 85 90 95
 Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys
 100 105 110
 Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Gln Phe Asn Trp
 115 120 125
 Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu
 130 135 140
 Glu Gln Phe Asn Ser Thr Phe Arg Val Val Ser Val Leu Thr Val Val
 145 150 155 160
 His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn
 165 170 175
 Lys Gly Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Thr Lys Gly
 180 185 190
 Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu
 195 200 205
 Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr
 210 215 220
 Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn
 225 230 235 240
 Asn Tyr Lys Thr Thr Pro Pro Met Leu Asp Ser Asp Gly Ser Phe Phe
 245 250 255
 Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn
 260 265 270
 Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr
 275 280 285
 Gln Lys Ser Leu Ser Leu Ser Pro Gly
 290 295

<210> 22
 <211> 299
 <212> PRT

<213> Artificial sequence

<220>

<223> Synthetic Construct

<400> 22

Phe Val Asn Gln His Leu Cys Gly Ser His Leu Val Glu Ala Leu Glu
1 5 10 15

Leu Val Cys Gly Glu Arg Gly Phe His Tyr Thr Pro Lys Thr Gly Gly
20 25 30

Ser Gly Gly Gly Gly Gly Ile Val Glu Gln Cys Cys Thr Ser Thr Cys
35 40 45

Ser Leu Asp Gln Leu Glu Asn Tyr Cys Gly Gly Gly Gly Gly Gln Gly
50 55 60

Gly Gly Gly Gln Gly Gly Gly Gly Gln Gly Gly Gly Gly Gly Glu Cys
65 70 75 80

Pro Pro Cys Pro Ala Pro Pro Val Ala Gly Pro Ser Val Phe Leu Phe
85 90 95

Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val
100 105 110

Thr Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Gln Phe
115 120 125

Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro
130 135 140

Arg Glu Glu Gln Phe Asn Ser Thr Phe Arg Val Val Ser Val Leu Thr
145 150 155 160

Val Val His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val
165 170 175

Ser Asn Lys Gly Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Thr
180 185 190

Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg
195 200 205

Glu Glu Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly
210 215 220

Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro
225 230 235 240

Glu Asn Asn Tyr Lys Thr Thr Pro Pro Met Leu Asp Ser Asp Gly Ser
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245

250

255

Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln
260 265 270

Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His
275 280 285

Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly
290 295

<210> 23
<211> 298
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 23

Phe Val Asn Gln His Leu Cys Gly Ser His Leu Val Glu Ala Leu Glu
1 5 10 15

Leu Val Cys Gly Glu Arg Gly Phe Phe Tyr Thr Glu Glu Thr Gly Gly
20 25 30

Gly Gly Gly Gly Gly Ile Val Glu Gln Cys Cys Thr Ser Ile Cys Ser
35 40 45

Leu Tyr Gln Leu Glu Asn Tyr Cys Gly Gly Gly Gly Gly Ser Gly Gly
50 55 60

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Glu Cys Pro
65 70 75 80

Pro Cys Pro Ala Pro Pro Val Ala Gly Pro Ser Val Phe Leu Phe Pro
85 90 95

Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr
100 105 110

Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Gln Phe Asn
115 120 125

Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg
130 135 140

Glu Glu Gln Phe Asn Ser Thr Phe Arg Val Val Ser Val Leu Thr Val
145 150 155 160

Val His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser
165 170 175

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Asn Lys Gly Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Thr Lys
180 185 190

Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu
195 200 205

Glu Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe
210 215 220

Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu
225 230 235 240

Asn Asn Tyr Lys Thr Thr Pro Pro Met Leu Asp Ser Asp Gly Ser Phe
245 250 255

Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly
260 265 270

Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr
275 280 285

Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly
290 295

<210> 24
<211> 299
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 24

Phe Val Gly Gln His Leu Cys Gly Ser His Leu Val Glu Ala Leu Glu
1 5 10 15

Leu Val Cys Gly Glu Arg Gly Phe His Tyr Gly Gly Gly Gly Gly Gly
20 25 30

Ser Gly Gly Gly Gly Gly Ile Val Glu Gln Cys Cys Thr Ser Thr Cys
35 40 45

Ser Leu Asp Gln Leu Glu Asn Tyr Cys Gly Gly Gly Gly Gly Gln Gly
50 55 60

Gly Gly Gly Gln Gly Gly Gly Gly Gln Gly Gly Gly Gly Gly Glu Cys
65 70 75 80

Pro Pro Cys Pro Ala Pro Pro Val Ala Gly Pro Ser Val Phe Leu Phe
85 90 95

Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val
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100

105

110

Thr Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Gln Phe
115 120 125

Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro
130 135 140

Arg Glu Glu Gln Phe Asn Ser Thr Phe Arg Val Val Ser Val Leu Thr
145 150 155 160

Val Val His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val
165 170 175

Ser Asn Lys Gly Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Thr
180 185 190

Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg
195 200 205

Glu Glu Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly
210 215 220

Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro
225 230 235 240

Glu Asn Asn Tyr Lys Thr Thr Pro Pro Met Leu Asp Ser Asp Gly Ser
245 250 255

Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln
260 265 270

Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His
275 280 285

Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly
290 295

<210> 25
<211> 31
<212> PRT
<213> Homo sapiens

<400> 25

His Ala Glu Gly Thr Phe Thr Ser Asp Val Ser Ser Tyr Leu Glu Gly
1 5 10 15

Gln Ala Ala Lys Glu Phe Ile Ala Trp Leu Val Lys Gly Arg Gly
20 25 30