

SEQUENCE LISTING

<110> SCHOLAR ROCK, INC.

<120> LTBP COMPLEX-SPECIFIC INHIBITORS OF TGF β AND USES THEREOF

<130> 127036-03020

<140> PCT/US2020/015915

<141> 2020-01-30

<150> 62/798,927

<151> 2019-01-30

<160> 401

<170> PatentIn version 3.5

<210> 1

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 1

Gly Tyr Thr Phe Thr Ser Tyr Gly

1 5

<210> 2

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 2

Ile Ser Ala Tyr Asn Gly Asn Thr

1 5

<210> 3

<211> 10

<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 3
Ala Arg Ala Pro Leu Gly Asn Phe Asp Ser
1 5 10

<210> 4
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 4
Ser Gly Ser Ile Ala Ser Asn Tyr
1 5

<210> 5
<211> 3
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 5
Glu Asp Asn
1

<210> 6
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<221> source

<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 6

Gln Ser Tyr Asp Ser Ser Asn His Pro Val Val
1 5 10

<210> 7

<211> 117

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 7

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

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

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

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

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

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

Ala Arg Ala Pro Leu Gly Asn Phe Asp Ser Trp Gly Gln Gly Thr Met
100 105 110

Val Thr Val Ser Ser
115

<210> 8
<211> 112
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 8
Asn Phe Met Leu Thr Gln Pro His Ser Val Ser Glu Ser Pro Gly Lys
1 5 10 15

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

Tyr Val Gln Trp Tyr Gln Gln Arg Pro Gly Ser Ser Pro Thr Thr Val
35 40 45

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

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

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

Ser Asn His Pro Val Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
100 105 110

<210> 9
<211> 361
<212> PRT
<213> Homo sapiens

<400> 9
Leu Ser Thr Cys Lys Thr Ile Asp Met Glu Leu Val Lys Arg Lys Arg
1 5 10 15

Ile Glu Ala Ile Arg Gly Gln Ile Leu Ser Lys Leu Arg Leu Ala Ser
20 25 30

Pro Pro Ser Gln Gly Glu Val Pro Pro Gly Pro Leu Pro Glu Ala Val
35 40 45

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

Glu Pro Glu Pro Glu Pro Glu Ala Asp Tyr Tyr Ala Lys Glu Val Thr
65 70 75 80

Arg Val Leu Met Val Glu Thr His Asn Glu Ile Tyr Asp Lys Phe Lys
85 90 95

Gln Ser Thr His Ser Ile Tyr Met Phe Phe Asn Thr Ser Glu Leu Arg
100 105 110

Glu Ala Val Pro Glu Pro Val Leu Leu Ser Arg Ala Glu Leu Arg Leu
115 120 125

Leu Arg Leu Lys Leu Lys Val Glu Gln His Val Glu Leu Tyr Gln Lys
130 135 140

Tyr Ser Asn Asn Ser Trp Arg Tyr Leu Ser Asn Arg Leu Leu Ala Pro
145 150 155 160

Ser Asp Ser Pro Glu Trp Leu Ser Phe Asp Val Thr Gly Val Val Arg
165 170 175

Gln Trp Leu Ser Arg Gly Gly Glu Ile Glu Gly Phe Arg Leu Ser Ala
180 185 190

His Cys Ser Cys Asp Ser Arg Asp Asn Thr Leu Gln Val Asp Ile Asn
195 200 205

Gly Phe Thr Thr Gly Arg Arg Gly Asp Leu Ala Thr Ile His Gly Met
210 215 220

Asn Arg Pro Phe Leu Leu Leu Met Ala Thr Pro Leu Glu Arg Ala Gln
 225 230 235 240

His Leu Gln Ser Ser Arg His Arg Arg Ala Leu Asp Thr Asn Tyr Cys
 245 250 255

Phe Ser Ser Thr Glu Lys Asn Cys Cys Val Arg Gln Leu Tyr Ile Asp
 260 265 270

Phe Arg Lys Asp Leu Gly Trp Lys Trp Ile His Glu Pro Lys Gly Tyr
 275 280 285

His Ala Asn Phe Cys Leu Gly Pro Cys Pro Tyr Ile Trp Ser Leu Asp
 290 295 300

Thr Gln Tyr Ser Lys Val Leu Ala Leu Tyr Asn Gln His Asn Pro Gly
 305 310 315 320

Ala Ser Ala Ala Pro Cys Cys Val Pro Gln Ala Leu Glu Pro Leu Pro
 325 330 335

Ile Val Tyr Tyr Val Gly Arg Lys Pro Lys Val Glu Gln Leu Ser Asn
 340 345 350

Met Ile Val Arg Ser Cys Lys Cys Ser
 355 360

<210> 10
 <211> 395
 <212> PRT
 <213> Homo sapiens

<400> 10
 Ser Leu Ser Thr Cys Ser Thr Leu Asp Met Asp Gln Phe Met Arg Lys
 1 5 10 15

Arg Ile Glu Ala Ile Arg Gly Gln Ile Leu Ser Lys Leu Lys Leu Thr
 20 25 30

Ser Pro Pro Glu Asp Tyr Pro Glu Pro Glu Glu Val Pro Pro Glu Val
35 40 45

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

Arg Arg Ala Ala Ala Cys Glu Arg Glu Arg Ser Asp Glu Glu Tyr Tyr
65 70 75 80

Ala Lys Glu Val Tyr Lys Ile Asp Met Pro Pro Phe Phe Pro Ser Glu
85 90 95

Asn Ala Ile Pro Pro Thr Phe Tyr Arg Pro Tyr Phe Arg Ile Val Arg
100 105 110

Phe Asp Val Ser Ala Met Glu Lys Asn Ala Ser Asn Leu Val Lys Ala
115 120 125

Glu Phe Arg Val Phe Arg Leu Gln Asn Pro Lys Ala Arg Val Pro Glu
130 135 140

Gln Arg Ile Glu Leu Tyr Gln Ile Leu Lys Ser Lys Asp Leu Thr Ser
145 150 155 160

Pro Thr Gln Arg Tyr Ile Asp Ser Lys Val Val Lys Thr Arg Ala Glu
165 170 175

Gly Glu Trp Leu Ser Phe Asp Val Thr Asp Ala Val His Glu Trp Leu
180 185 190

His His Lys Asp Arg Asn Leu Gly Phe Lys Ile Ser Leu His Cys Pro
195 200 205

Cys Cys Thr Phe Val Pro Ser Asn Asn Tyr Ile Ile Pro Asn Lys Ser
210 215 220

Glu Glu Leu Glu Ala Arg Phe Ala Gly Ile Asp Gly Thr Ser Thr Tyr
 225 230 235 240

Thr Ser Gly Asp Gln Lys Thr Ile Lys Ser Thr Arg Lys Lys Asn Ser
 245 250 255

Gly Lys Thr Pro His Leu Leu Leu Met Leu Leu Pro Ser Tyr Arg Leu
 260 265 270

Glu Ser Gln Gln Thr Asn Arg Arg Lys Lys Arg Ala Leu Asp Ala Ala
 275 280 285

Tyr Cys Phe Arg Asn Val Gln Asp Asn Cys Cys Leu Arg Pro Leu Tyr
 290 295 300

Ile Asp Phe Lys Arg Asp Leu Gly Trp Lys Trp Ile His Glu Pro Lys
 305 310 315 320

Gly Tyr Asn Ala Asn Phe Cys Ala Gly Ala Cys Pro Tyr Leu Trp Ser
 325 330 335

Ser Asp Thr Gln His Ser Arg Val Leu Ser Leu Tyr Asn Thr Ile Asn
 340 345 350

Pro Glu Ala Ser Ala Ser Pro Cys Cys Val Ser Gln Asp Leu Glu Pro
 355 360 365

Leu Thr Ile Leu Tyr Tyr Ile Gly Lys Thr Pro Lys Ile Glu Gln Leu
 370 375 380

Ser Asn Met Ile Val Lys Ser Cys Lys Cys Ser
 385 390 395

<210> 11
 <211> 392
 <212> PRT
 <213> Homo sapiens

<400> 11

Ser Leu Ser Leu Ser Thr Cys Thr Thr Leu Asp Phe Gly His Ile Lys
1 5 10 15

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

Leu Thr Ser Pro Pro Glu Pro Thr Val Met Thr His Val Pro Tyr Gln
35 40 45

Val Leu Ala Leu Tyr Asn Ser Thr Arg Glu Leu Leu Glu Glu Met His
50 55 60

Gly Glu Arg Glu Glu Gly Cys Thr Gln Glu Asn Thr Glu Ser Glu Tyr
65 70 75 80

Tyr Ala Lys Glu Ile His Lys Phe Asp Met Ile Gln Gly Leu Ala Glu
85 90 95

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

Arg Phe Asn Val Ser Ser Val Glu Lys Asn Arg Thr Asn Leu Phe Arg
115 120 125

Ala Glu Phe Arg Val Leu Arg Val Pro Asn Pro Ser Ser Lys Arg Asn
130 135 140

Glu Gln Arg Ile Glu Leu Phe Gln Ile Leu Arg Pro Asp Glu His Ile
145 150 155 160

Ala Lys Gln Arg Tyr Ile Gly Gly Lys Asn Leu Pro Thr Arg Gly Thr
165 170 175

Ala Glu Trp Leu Ser Phe Asp Val Thr Asp Thr Val Arg Glu Trp Leu
180 185 190

Leu Arg Arg Glu Ser Asn Leu Gly Leu Glu Ile Ser Ile His Cys Pro
195 200 205

Cys His Thr Phe Gln Pro Asn Gly Asp Ile Leu Glu Asn Ile His Glu
 210 215 220

Val Met Glu Ile Lys Phe Lys Gly Val Asp Asn Glu Asp Asp His Gly
 225 230 235 240

Arg Gly Asp Leu Gly Arg Leu Lys Lys Gln Lys Asp His His Asn Pro
 245 250 255

His Leu Ile Leu Met Met Ile Pro Pro His Arg Leu Asp Asn Pro Gly
 260 265 270

Gln Gly Gly Gln Arg Lys Lys Arg Ala Leu Asp Thr Asn Tyr Cys Phe
 275 280 285

Arg Asn Leu Glu Glu Asn Cys Cys Val Arg Pro Leu Tyr Ile Asp Phe
 290 295 300

Arg Gln Asp Leu Gly Trp Lys Trp Val His Glu Pro Lys Gly Tyr Tyr
 305 310 315 320

Ala Asn Phe Cys Ser Gly Pro Cys Pro Tyr Leu Arg Ser Ala Asp Thr
 325 330 335

Thr His Ser Thr Val Leu Gly Leu Tyr Asn Thr Leu Asn Pro Glu Ala
 340 345 350

Ser Ala Ser Pro Cys Cys Val Pro Gln Asp Leu Glu Pro Leu Thr Ile
 355 360 365

Leu Tyr Tyr Val Gly Arg Thr Pro Lys Val Glu Gln Leu Ser Asn Met
 370 375 380

Val Val Lys Ser Cys Lys Cys Ser
 385 390

<210> 12
 <211> 361
 <212> PRT
 <213> Homo sapiens

<400> 12
 Leu Ser Thr Cys Lys Thr Ile Asp Met Glu Leu Val Lys Arg Lys Arg
 1 5 10 15

Ile Glu Ala Ile Arg Gly Gln Ile Leu Ser Lys Leu Arg Leu Ala Ser
 20 25 30

Pro Pro Ser Gln Gly Glu Val Pro Pro Gly Pro Leu Pro Glu Ala Val
 35 40 45

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

Glu Pro Glu Pro Glu Pro Glu Ala Asp Tyr Tyr Ala Lys Glu Val Thr
 65 70 75 80

Arg Val Leu Met Val Glu Thr His Asn Glu Ile Tyr Asp Lys Phe Lys
 85 90 95

Gln Ser Thr His Ser Ile Tyr Met Phe Phe Asn Thr Ser Glu Leu Arg
 100 105 110

Glu Ala Val Pro Glu Pro Val Leu Leu Ser Arg Ala Glu Leu Arg Leu
 115 120 125

Leu Arg Leu Lys Leu Lys Val Glu Gln His Val Glu Leu Tyr Gln Lys
 130 135 140

Tyr Ser Asn Asn Ser Trp Arg Tyr Leu Ser Asn Arg Leu Leu Ala Pro
 145 150 155 160

Ser Asp Ser Pro Glu Trp Leu Ser Phe Asp Val Thr Gly Val Val Arg
 165 170 175

Gln Trp Leu Ser Arg Gly Gly Glu Ile Glu Gly Phe Arg Leu Ser Ala
180 185 190

His Cys Ser Cys Asp Ser Arg Asp Asn Thr Leu Gln Val Asp Ile Asn
195 200 205

Gly Phe Thr Thr Gly Arg Arg Gly Asp Leu Ala Thr Ile His Gly Met
210 215 220

Asn Arg Pro Phe Leu Leu Leu Met Ala Thr Pro Leu Glu Arg Ala Gln
225 230 235 240

His Leu Gln Ser Ser Arg His Arg Arg Ala Leu Asp Thr Asn Tyr Cys
245 250 255

Phe Ser Ser Thr Glu Lys Asn Cys Cys Val Arg Gln Leu Tyr Ile Asp
260 265 270

Phe Arg Lys Asp Leu Gly Trp Lys Trp Ile His Glu Pro Lys Gly Tyr
275 280 285

His Ala Asn Phe Cys Leu Gly Pro Cys Pro Tyr Ile Trp Ser Leu Asp
290 295 300

Thr Gln Tyr Ser Lys Val Leu Ala Leu Tyr Asn Gln His Asn Pro Gly
305 310 315 320

Ala Ser Ala Ala Pro Cys Cys Val Pro Gln Ala Leu Glu Pro Leu Pro
325 330 335

Ile Val Tyr Tyr Val Gly Arg Lys Pro Lys Val Glu Gln Leu Ser Asn
340 345 350

Met Ile Val Arg Ser Cys Lys Cys Ser
355 360

<210> 13
<211> 361

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 13

Leu Ser Thr Ser Lys Thr Ile Asp Met Glu Leu Val Lys Arg Lys Arg
1 5 10 15

Ile Glu Ala Ile Arg Gly Gln Ile Leu Ser Lys Leu Arg Leu Ala Ser
20 25 30

Pro Pro Ser Gln Gly Glu Val Pro Pro Gly Pro Leu Pro Glu Ala Val
35 40 45

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

Glu Pro Glu Pro Glu Pro Glu Ala Asp Tyr Tyr Ala Lys Glu Val Thr
65 70 75 80

Arg Val Leu Met Val Glu Thr His Asn Glu Ile Tyr Asp Lys Phe Lys
85 90 95

Gln Ser Thr His Ser Ile Tyr Met Phe Phe Asn Thr Ser Glu Leu Arg
100 105 110

Glu Ala Val Pro Glu Pro Val Leu Leu Ser Arg Ala Glu Leu Arg Leu
115 120 125

Leu Arg Leu Lys Leu Lys Val Glu Gln His Val Glu Leu Tyr Gln Lys
130 135 140

Tyr Ser Asn Asn Ser Trp Arg Tyr Leu Ser Asn Arg Leu Leu Ala Pro
145 150 155 160

Ser Asp Ser Pro Glu Trp Leu Ser Phe Asp Val Thr Gly Val Val Arg

165

170

175

Gln Trp Leu Ser Arg Gly Gly Glu Ile Glu Gly Phe Arg Leu Ser Ala
 180 185 190

His Cys Ser Cys Asp Ser Arg Asp Asn Thr Leu Gln Val Asp Ile Asn
 195 200 205

Gly Phe Thr Thr Gly Arg Arg Gly Asp Leu Ala Thr Ile His Gly Met
 210 215 220

Asn Arg Pro Phe Leu Leu Leu Met Ala Thr Pro Leu Glu Arg Ala Gln
 225 230 235 240

His Leu Gln Ser Ser Arg His Arg Arg Ala Leu Asp Thr Asn Tyr Cys
 245 250 255

Phe Ser Ser Thr Glu Lys Asn Cys Cys Val Arg Gln Leu Tyr Ile Asp
 260 265 270

Phe Arg Lys Asp Leu Gly Trp Lys Trp Ile His Glu Pro Lys Gly Tyr
 275 280 285

His Ala Asn Phe Cys Leu Gly Pro Cys Pro Tyr Ile Trp Ser Leu Asp
 290 295 300

Thr Gln Tyr Ser Lys Val Leu Ala Leu Tyr Asn Gln His Asn Pro Gly
 305 310 315 320

Ala Ser Ala Ala Pro Cys Cys Val Pro Gln Ala Leu Glu Pro Leu Pro
 325 330 335

Ile Val Tyr Tyr Val Gly Arg Lys Pro Lys Val Glu Gln Leu Ser Asn
 340 345 350

Met Ile Val Arg Ser Cys Lys Cys Ser
 355 360

<210> 14
 <211> 360
 <212> PRT
 <213> Artificial Sequence

 <220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

 <400> 14
 Leu Ser Thr Cys Lys Thr Ile Asp Met Glu Leu Val Lys Arg Lys Arg
 1 5 10 15

 Ile Glu Ala Ile Arg Gly Gln Ile Leu Ser Lys Leu Arg Leu Ala Ser
 20 25 30

 Pro Pro Ser Gln Gly Glu Val Pro Pro Gly Pro Leu Pro Glu Ala Val
 35 40 45

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

 Glu Pro Glu Pro Glu Pro Glu Ala Asp Tyr Tyr Ala Lys Glu Val Thr
 65 70 75 80

 Arg Val Leu Met Val Glu Thr His Asn Glu Ile Tyr Asp Lys Phe Lys
 85 90 95

 Gln Ser Thr His Ser Ile Tyr Met Phe Phe Asn Thr Ser Glu Leu Arg
 100 105 110

 Glu Ala Val Pro Glu Pro Val Leu Leu Ser Arg Ala Glu Leu Arg Leu
 115 120 125

 Leu Arg Leu Lys Leu Lys Val Glu Gln His Val Glu Leu Tyr Gln Lys
 130 135 140

 Tyr Ser Asn Asn Ser Trp Arg Tyr Leu Ser Asn Arg Leu Leu Ala Pro
 145 150 155 160

Ser Asp Ser Pro Glu Trp Leu Ser Phe Asp Val Thr Gly Val Val Arg
165 170 175

Gln Trp Leu Ser Arg Gly Gly Glu Ile Glu Gly Phe Arg Leu Ser Ala
180 185 190

His Cys Ser Cys Asp Ser Arg Asp Asn Thr Leu Gln Val Asp Ile Asn
195 200 205

Gly Phe Thr Thr Gly Arg Arg Gly Asp Leu Ala Thr Ile His Gly Met
210 215 220

Asn Arg Pro Phe Leu Leu Leu Met Ala Thr Pro Leu Glu Arg Ala Gln
225 230 235 240

His Leu Gln Ser Ser Arg His Gly Ala Leu Asp Thr Asn Tyr Cys Phe
245 250 255

Ser Ser Thr Glu Lys Asn Cys Cys Val Arg Gln Leu Tyr Ile Asp Phe
260 265 270

Arg Lys Asp Leu Gly Trp Lys Trp Ile His Glu Pro Lys Gly Tyr His
275 280 285

Ala Asn Phe Cys Leu Gly Pro Cys Pro Tyr Ile Trp Ser Leu Asp Thr
290 295 300

Gln Tyr Ser Lys Val Leu Ala Leu Tyr Asn Gln His Asn Pro Gly Ala
305 310 315 320

Ser Ala Ala Pro Cys Cys Val Pro Gln Ala Leu Glu Pro Leu Pro Ile
325 330 335

Val Tyr Tyr Val Gly Arg Lys Pro Lys Val Glu Gln Leu Ser Asn Met
340 345 350

Ile Val Arg Ser Cys Lys Cys Ser
355 360

<210> 15

<211> 360

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 15

Leu Ser Thr Ser Lys Thr Ile Asp Met Glu Leu Val Lys Arg Lys Arg
1 5 10 15

Ile Glu Ala Ile Arg Gly Gln Ile Leu Ser Lys Leu Arg Leu Ala Ser
20 25 30

Pro Pro Ser Gln Gly Glu Val Pro Pro Gly Pro Leu Pro Glu Ala Val
35 40 45

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

Glu Pro Glu Pro Glu Pro Glu Ala Asp Tyr Tyr Ala Lys Glu Val Thr
65 70 75 80

Arg Val Leu Met Val Glu Thr His Asn Glu Ile Tyr Asp Lys Phe Lys
85 90 95

Gln Ser Thr His Ser Ile Tyr Met Phe Phe Asn Thr Ser Glu Leu Arg
100 105 110

Glu Ala Val Pro Glu Pro Val Leu Leu Ser Arg Ala Glu Leu Arg Leu
115 120 125

Leu Arg Leu Lys Leu Lys Val Glu Gln His Val Glu Leu Tyr Gln Lys
130 135 140

Tyr Ser Asn Asn Ser Trp Arg Tyr Leu Ser Asn Arg Leu Leu Ala Pro
 145 150 155 160

Ser Asp Ser Pro Glu Trp Leu Ser Phe Asp Val Thr Gly Val Val Arg
 165 170 175

Gln Trp Leu Ser Arg Gly Gly Glu Ile Glu Gly Phe Arg Leu Ser Ala
 180 185 190

His Cys Ser Cys Asp Ser Arg Asp Asn Thr Leu Gln Val Asp Ile Asn
 195 200 205

Gly Phe Thr Thr Gly Arg Arg Gly Asp Leu Ala Thr Ile His Gly Met
 210 215 220

Asn Arg Pro Phe Leu Leu Leu Met Ala Thr Pro Leu Glu Arg Ala Gln
 225 230 235 240

His Leu Gln Ser Ser Arg His Gly Ala Leu Asp Thr Asn Tyr Cys Phe
 245 250 255

Ser Ser Thr Glu Lys Asn Cys Cys Val Arg Gln Leu Tyr Ile Asp Phe
 260 265 270

Arg Lys Asp Leu Gly Trp Lys Trp Ile His Glu Pro Lys Gly Tyr His
 275 280 285

Ala Asn Phe Cys Leu Gly Pro Cys Pro Tyr Ile Trp Ser Leu Asp Thr
 290 295 300

Gln Tyr Ser Lys Val Leu Ala Leu Tyr Asn Gln His Asn Pro Gly Ala
 305 310 315 320

Ser Ala Ala Pro Cys Cys Val Pro Gln Ala Leu Glu Pro Leu Pro Ile
 325 330 335

Val Tyr Tyr Val Gly Arg Lys Pro Lys Val Glu Gln Leu Ser Asn Met

340

345

350

Ile Val Arg Ser Cys Lys Cys Ser
 355 360

<210> 16

<211> 395

<212> PRT

<213> Homo sapiens

<400> 16

Ser Leu Ser Thr Cys Ser Thr Leu Asp Met Asp Gln Phe Met Arg Lys
 1 5 10 15

Arg Ile Glu Ala Ile Arg Gly Gln Ile Leu Ser Lys Leu Lys Leu Thr
 20 25 30

Ser Pro Pro Glu Asp Tyr Pro Glu Pro Glu Glu Val Pro Pro Glu Val
 35 40 45

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

Arg Arg Ala Ala Ala Cys Glu Arg Glu Arg Ser Asp Glu Glu Tyr Tyr
 65 70 75 80

Ala Lys Glu Val Tyr Lys Ile Asp Met Pro Pro Phe Phe Pro Ser Glu
 85 90 95

Asn Ala Ile Pro Pro Thr Phe Tyr Arg Pro Tyr Phe Arg Ile Val Arg
 100 105 110

Phe Asp Val Ser Ala Met Glu Lys Asn Ala Ser Asn Leu Val Lys Ala
 115 120 125

Glu Phe Arg Val Phe Arg Leu Gln Asn Pro Lys Ala Arg Val Pro Glu
 130 135 140

Gln Arg Ile Glu Leu Tyr Gln Ile Leu Lys Ser Lys Asp Leu Thr Ser

145		150		155		160
Pro Thr Gln Arg Tyr Ile Asp Ser Lys Val Val Lys Thr Arg Ala Glu						
		165		170		175
Gly Glu Trp Leu Ser Phe Asp Val Thr Asp Ala Val His Glu Trp Leu						
		180		185		190
His His Lys Asp Arg Asn Leu Gly Phe Lys Ile Ser Leu His Cys Pro						
		195		200		205
Cys Cys Thr Phe Val Pro Ser Asn Asn Tyr Ile Ile Pro Asn Lys Ser						
		210		215		220
Glu Glu Leu Glu Ala Arg Phe Ala Gly Ile Asp Gly Thr Ser Thr Tyr						
225			230		235	240
Thr Ser Gly Asp Gln Lys Thr Ile Lys Ser Thr Arg Lys Lys Asn Ser						
		245		250		255
Gly Lys Thr Pro His Leu Leu Leu Met Leu Leu Pro Ser Tyr Arg Leu						
		260		265		270
Glu Ser Gln Gln Thr Asn Arg Arg Lys Lys Arg Ala Leu Asp Ala Ala						
		275		280		285
Tyr Cys Phe Arg Asn Val Gln Asp Asn Cys Cys Leu Arg Pro Leu Tyr						
		290		295		300
Ile Asp Phe Lys Arg Asp Leu Gly Trp Lys Trp Ile His Glu Pro Lys						
305			310		315	320
Gly Tyr Asn Ala Asn Phe Cys Ala Gly Ala Cys Pro Tyr Leu Trp Ser						
		325		330		335
Ser Asp Thr Gln His Ser Arg Val Leu Ser Leu Tyr Asn Thr Ile Asn						
		340		345		350

Pro Glu Ala Ser Ala Ser Pro Cys Cys Val Ser Gln Asp Leu Glu Pro
 355 360 365

Leu Thr Ile Leu Tyr Tyr Ile Gly Lys Thr Pro Lys Ile Glu Gln Leu
 370 375 380

Ser Asn Met Ile Val Lys Ser Cys Lys Cys Ser
 385 390 395

<210> 17

<211> 395

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic
 polypeptide"

<400> 17

Ser Leu Ser Thr Ser Ser Thr Leu Asp Met Asp Gln Phe Met Arg Lys
 1 5 10 15

Arg Ile Glu Ala Ile Arg Gly Gln Ile Leu Ser Lys Leu Lys Leu Thr
 20 25 30

Ser Pro Pro Glu Asp Tyr Pro Glu Pro Glu Glu Val Pro Pro Glu Val
 35 40 45

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

Arg Arg Ala Ala Ala Cys Glu Arg Glu Arg Ser Asp Glu Glu Tyr Tyr
 65 70 75 80

Ala Lys Glu Val Tyr Lys Ile Asp Met Pro Pro Phe Phe Pro Ser Glu
 85 90 95

Asn Ala Ile Pro Pro Thr Phe Tyr Arg Pro Tyr Phe Arg Ile Val Arg
 100 105 110

Phe Asp Val Ser Ala Met Glu Lys Asn Ala Ser Asn Leu Val Lys Ala
115 120 125

Glu Phe Arg Val Phe Arg Leu Gln Asn Pro Lys Ala Arg Val Pro Glu
130 135 140

Gln Arg Ile Glu Leu Tyr Gln Ile Leu Lys Ser Lys Asp Leu Thr Ser
145 150 155 160

Pro Thr Gln Arg Tyr Ile Asp Ser Lys Val Val Lys Thr Arg Ala Glu
165 170 175

Gly Glu Trp Leu Ser Phe Asp Val Thr Asp Ala Val His Glu Trp Leu
180 185 190

His His Lys Asp Arg Asn Leu Gly Phe Lys Ile Ser Leu His Cys Pro
195 200 205

Cys Cys Thr Phe Val Pro Ser Asn Asn Tyr Ile Ile Pro Asn Lys Ser
210 215 220

Glu Glu Leu Glu Ala Arg Phe Ala Gly Ile Asp Gly Thr Ser Thr Tyr
225 230 235 240

Thr Ser Gly Asp Gln Lys Thr Ile Lys Ser Thr Arg Lys Lys Asn Ser
245 250 255

Gly Lys Thr Pro His Leu Leu Leu Met Leu Leu Pro Ser Tyr Arg Leu
260 265 270

Glu Ser Gln Gln Thr Asn Arg Arg Lys Lys Arg Ala Leu Asp Ala Ala
275 280 285

Tyr Cys Phe Arg Asn Val Gln Asp Asn Cys Cys Leu Arg Pro Leu Tyr
290 295 300

Ile Asp Phe Lys Arg Asp Leu Gly Trp Lys Trp Ile His Glu Pro Lys
305 310 315 320

Gly Tyr Asn Ala Asn Phe Cys Ala Gly Ala Cys Pro Tyr Leu Trp Ser
325 330 335

Ser Asp Thr Gln His Ser Arg Val Leu Ser Leu Tyr Asn Thr Ile Asn
340 345 350

Pro Glu Ala Ser Ala Ser Pro Cys Cys Val Ser Gln Asp Leu Glu Pro
355 360 365

Leu Thr Ile Leu Tyr Tyr Ile Gly Lys Thr Pro Lys Ile Glu Gln Leu
370 375 380

Ser Asn Met Ile Val Lys Ser Cys Lys Cys Ser
385 390 395

<210> 18
<211> 394
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 18
Ser Leu Ser Thr Ser Ser Thr Leu Asp Met Asp Gln Phe Met Arg Lys
1 5 10 15

Arg Ile Glu Ala Ile Arg Gly Gln Ile Leu Ser Lys Leu Lys Leu Thr
20 25 30

Ser Pro Pro Glu Asp Tyr Pro Glu Pro Glu Glu Val Pro Pro Glu Val
35 40 45

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

Arg Arg Ala Ala Ala Cys Glu Arg Glu Arg Ser Asp Glu Glu Tyr Tyr
65 70 75 80

Ala Lys Glu Val Tyr Lys Ile Asp Met Pro Pro Phe Phe Pro Ser Glu
85 90 95

Asn Ala Ile Pro Pro Thr Phe Tyr Arg Pro Tyr Phe Arg Ile Val Arg
100 105 110

Phe Asp Val Ser Ala Met Glu Lys Asn Ala Ser Asn Leu Val Lys Ala
115 120 125

Glu Phe Arg Val Phe Arg Leu Gln Asn Pro Lys Ala Arg Val Pro Glu
130 135 140

Gln Arg Ile Glu Leu Tyr Gln Ile Leu Lys Ser Lys Asp Leu Thr Ser
145 150 155 160

Pro Thr Gln Arg Tyr Ile Asp Ser Lys Val Val Lys Thr Arg Ala Glu
165 170 175

Gly Glu Trp Leu Ser Phe Asp Val Thr Asp Ala Val His Glu Trp Leu
180 185 190

His His Lys Asp Arg Asn Leu Gly Phe Lys Ile Ser Leu His Cys Pro
195 200 205

Cys Cys Thr Phe Val Pro Ser Asn Asn Tyr Ile Ile Pro Asn Lys Ser
210 215 220

Glu Glu Leu Glu Ala Arg Phe Ala Gly Ile Asp Gly Thr Ser Thr Tyr
225 230 235 240

Thr Ser Gly Asp Gln Lys Thr Ile Lys Ser Thr Arg Lys Lys Asn Ser
245 250 255

Gly Lys Thr Pro His Leu Leu Leu Met Leu Leu Pro Ser Tyr Arg Leu

260

265

270

Glu Ser Gln Gln Thr Asn Arg Arg Lys Gly Ala Leu Asp Ala Ala Tyr
 275 280 285

Cys Phe Arg Asn Val Gln Asp Asn Cys Cys Leu Arg Pro Leu Tyr Ile
 290 295 300

Asp Phe Lys Arg Asp Leu Gly Trp Lys Trp Ile His Glu Pro Lys Gly
 305 310 315 320

Tyr Asn Ala Asn Phe Cys Ala Gly Ala Cys Pro Tyr Leu Trp Ser Ser
 325 330 335

Asp Thr Gln His Ser Arg Val Leu Ser Leu Tyr Asn Thr Ile Asn Pro
 340 345 350

Glu Ala Ser Ala Ser Pro Cys Cys Val Ser Gln Asp Leu Glu Pro Leu
 355 360 365

Thr Ile Leu Tyr Tyr Ile Gly Lys Thr Pro Lys Ile Glu Gln Leu Ser
 370 375 380

Asn Met Ile Val Lys Ser Cys Lys Cys Ser
 385 390

<210> 19

<211> 394

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic
 polypeptide"

<400> 19

Ser Leu Ser Thr Cys Ser Thr Leu Asp Met Asp Gln Phe Met Arg Lys
 1 5 10 15

Arg Ile Glu Ala Ile Arg Gly Gln Ile Leu Ser Lys Leu Lys Leu Thr
20 25 30

Ser Pro Pro Glu Asp Tyr Pro Glu Pro Glu Glu Val Pro Pro Glu Val
35 40 45

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

Arg Arg Ala Ala Ala Cys Glu Arg Glu Arg Ser Asp Glu Glu Tyr Tyr
65 70 75 80

Ala Lys Glu Val Tyr Lys Ile Asp Met Pro Pro Phe Phe Pro Ser Glu
85 90 95

Asn Ala Ile Pro Pro Thr Phe Tyr Arg Pro Tyr Phe Arg Ile Val Arg
100 105 110

Phe Asp Val Ser Ala Met Glu Lys Asn Ala Ser Asn Leu Val Lys Ala
115 120 125

Glu Phe Arg Val Phe Arg Leu Gln Asn Pro Lys Ala Arg Val Pro Glu
130 135 140

Gln Arg Ile Glu Leu Tyr Gln Ile Leu Lys Ser Lys Asp Leu Thr Ser
145 150 155 160

Pro Thr Gln Arg Tyr Ile Asp Ser Lys Val Val Lys Thr Arg Ala Glu
165 170 175

Gly Glu Trp Leu Ser Phe Asp Val Thr Asp Ala Val His Glu Trp Leu
180 185 190

His His Lys Asp Arg Asn Leu Gly Phe Lys Ile Ser Leu His Cys Pro
195 200 205

Cys Cys Thr Phe Val Pro Ser Asn Asn Tyr Ile Ile Pro Asn Lys Ser
210 215 220

Glu Glu Leu Glu Ala Arg Phe Ala Gly Ile Asp Gly Thr Ser Thr Tyr
 225 230 235 240

Thr Ser Gly Asp Gln Lys Thr Ile Lys Ser Thr Arg Lys Lys Asn Ser
 245 250 255

Gly Lys Thr Pro His Leu Leu Leu Met Leu Leu Pro Ser Tyr Arg Leu
 260 265 270

Glu Ser Gln Gln Thr Asn Arg Arg Lys Gly Ala Leu Asp Ala Ala Tyr
 275 280 285

Cys Phe Arg Asn Val Gln Asp Asn Cys Cys Leu Arg Pro Leu Tyr Ile
 290 295 300

Asp Phe Lys Arg Asp Leu Gly Trp Lys Trp Ile His Glu Pro Lys Gly
 305 310 315 320

Tyr Asn Ala Asn Phe Cys Ala Gly Ala Cys Pro Tyr Leu Trp Ser Ser
 325 330 335

Asp Thr Gln His Ser Arg Val Leu Ser Leu Tyr Asn Thr Ile Asn Pro
 340 345 350

Glu Ala Ser Ala Ser Pro Cys Cys Val Ser Gln Asp Leu Glu Pro Leu
 355 360 365

Thr Ile Leu Tyr Tyr Ile Gly Lys Thr Pro Lys Ile Glu Gln Leu Ser
 370 375 380

Asn Met Ile Val Lys Ser Cys Lys Cys Ser
 385 390

<210> 20
 <211> 392
 <212> PRT
 <213> Homo sapiens

<400> 20

Ser Leu Ser Leu Ser Thr Cys Thr Thr Leu Asp Phe Gly His Ile Lys
1 5 10 15

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

Leu Thr Ser Pro Pro Glu Pro Thr Val Met Thr His Val Pro Tyr Gln
35 40 45

Val Leu Ala Leu Tyr Asn Ser Thr Arg Glu Leu Leu Glu Glu Met His
50 55 60

Gly Glu Arg Glu Glu Gly Cys Thr Gln Glu Asn Thr Glu Ser Glu Tyr
65 70 75 80

Tyr Ala Lys Glu Ile His Lys Phe Asp Met Ile Gln Gly Leu Ala Glu
85 90 95

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

Arg Phe Asn Val Ser Ser Val Glu Lys Asn Arg Thr Asn Leu Phe Arg
115 120 125

Ala Glu Phe Arg Val Leu Arg Val Pro Asn Pro Ser Ser Lys Arg Asn
130 135 140

Glu Gln Arg Ile Glu Leu Phe Gln Ile Leu Arg Pro Asp Glu His Ile
145 150 155 160

Ala Lys Gln Arg Tyr Ile Gly Gly Lys Asn Leu Pro Thr Arg Gly Thr
165 170 175

Ala Glu Trp Leu Ser Phe Asp Val Thr Asp Thr Val Arg Glu Trp Leu
180 185 190

Leu Arg Arg Glu Ser Asn Leu Gly Leu Glu Ile Ser Ile His Cys Pro
195 200 205

Cys His Thr Phe Gln Pro Asn Gly Asp Ile Leu Glu Asn Ile His Glu
210 215 220

Val Met Glu Ile Lys Phe Lys Gly Val Asp Asn Glu Asp Asp His Gly
225 230 235 240

Arg Gly Asp Leu Gly Arg Leu Lys Lys Gln Lys Asp His His Asn Pro
245 250 255

His Leu Ile Leu Met Met Ile Pro Pro His Arg Leu Asp Asn Pro Gly
260 265 270

Gln Gly Gly Gln Arg Lys Lys Arg Ala Leu Asp Thr Asn Tyr Cys Phe
275 280 285

Arg Asn Leu Glu Glu Asn Cys Cys Val Arg Pro Leu Tyr Ile Asp Phe
290 295 300

Arg Gln Asp Leu Gly Trp Lys Trp Val His Glu Pro Lys Gly Tyr Tyr
305 310 315 320

Ala Asn Phe Cys Ser Gly Pro Cys Pro Tyr Leu Arg Ser Ala Asp Thr
325 330 335

Thr His Ser Thr Val Leu Gly Leu Tyr Asn Thr Leu Asn Pro Glu Ala
340 345 350

Ser Ala Ser Pro Cys Cys Val Pro Gln Asp Leu Glu Pro Leu Thr Ile
355 360 365

Leu Tyr Tyr Val Gly Arg Thr Pro Lys Val Glu Gln Leu Ser Asn Met
370 375 380

Val Val Lys Ser Cys Lys Cys Ser
385 390

<210> 21
<211> 392
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 21
Ser Leu Ser Leu Ser Thr Ser Thr Thr Leu Asp Phe Gly His Ile Lys
1 5 10 15

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

Leu Thr Ser Pro Pro Glu Pro Thr Val Met Thr His Val Pro Tyr Gln
35 40 45

Val Leu Ala Leu Tyr Asn Ser Thr Arg Glu Leu Leu Glu Glu Met His
50 55 60

Gly Glu Arg Glu Glu Gly Cys Thr Gln Glu Asn Thr Glu Ser Glu Tyr
65 70 75 80

Tyr Ala Lys Glu Ile His Lys Phe Asp Met Ile Gln Gly Leu Ala Glu
85 90 95

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

Arg Phe Asn Val Ser Ser Val Glu Lys Asn Arg Thr Asn Leu Phe Arg
115 120 125

Ala Glu Phe Arg Val Leu Arg Val Pro Asn Pro Ser Ser Lys Arg Asn
130 135 140

Glu Gln Arg Ile Glu Leu Phe Gln Ile Leu Arg Pro Asp Glu His Ile

145		150		155		160									
Ala	Lys	Gln	Arg	Tyr	Ile	Gly	Gly	Lys	Asn	Leu	Pro	Thr	Arg	Gly	Thr
				165					170					175	
Ala	Glu	Trp	Leu	Ser	Phe	Asp	Val	Thr	Asp	Thr	Val	Arg	Glu	Trp	Leu
			180					185					190		
Leu	Arg	Arg	Glu	Ser	Asn	Leu	Gly	Leu	Glu	Ile	Ser	Ile	His	Cys	Pro
			195				200					205			
Cys	His	Thr	Phe	Gln	Pro	Asn	Gly	Asp	Ile	Leu	Glu	Asn	Ile	His	Glu
	210					215					220				
Val	Met	Glu	Ile	Lys	Phe	Lys	Gly	Val	Asp	Asn	Glu	Asp	Asp	His	Gly
225					230					235					240
Arg	Gly	Asp	Leu	Gly	Arg	Leu	Lys	Lys	Gln	Lys	Asp	His	His	Asn	Pro
				245					250					255	
His	Leu	Ile	Leu	Met	Met	Ile	Pro	Pro	His	Arg	Leu	Asp	Asn	Pro	Gly
			260					265					270		
Gln	Gly	Gly	Gln	Arg	Lys	Lys	Arg	Ala	Leu	Asp	Thr	Asn	Tyr	Cys	Phe
		275					280					285			
Arg	Asn	Leu	Glu	Glu	Asn	Cys	Cys	Val	Arg	Pro	Leu	Tyr	Ile	Asp	Phe
	290					295					300				
Arg	Gln	Asp	Leu	Gly	Trp	Lys	Trp	Val	His	Glu	Pro	Lys	Gly	Tyr	Tyr
305					310					315					320
Ala	Asn	Phe	Cys	Ser	Gly	Pro	Cys	Pro	Tyr	Leu	Arg	Ser	Ala	Asp	Thr
				325					330					335	
Thr	His	Ser	Thr	Val	Leu	Gly	Leu	Tyr	Asn	Thr	Leu	Asn	Pro	Glu	Ala
			340					345					350		

Ser Ala Ser Pro Cys Cys Val Pro Gln Asp Leu Glu Pro Leu Thr Ile
 355 360 365

Leu Tyr Tyr Val Gly Arg Thr Pro Lys Val Glu Gln Leu Ser Asn Met
 370 375 380

Val Val Lys Ser Cys Lys Cys Ser
 385 390

<210> 22

<211> 391

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic
 polypeptide"

<400> 22

Ser Leu Ser Leu Ser Thr Ser Thr Thr Leu Asp Phe Gly His Ile Lys
 1 5 10 15

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

Leu Thr Ser Pro Pro Glu Pro Thr Val Met Thr His Val Pro Tyr Gln
 35 40 45

Val Leu Ala Leu Tyr Asn Ser Thr Arg Glu Leu Leu Glu Glu Met His
 50 55 60

Gly Glu Arg Glu Glu Gly Cys Thr Gln Glu Asn Thr Glu Ser Glu Tyr
 65 70 75 80

Tyr Ala Lys Glu Ile His Lys Phe Asp Met Ile Gln Gly Leu Ala Glu
 85 90 95

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

Arg Phe Asn Val Ser Ser Val Glu Lys Asn Arg Thr Asn Leu Phe Arg
115 120 125

Ala Glu Phe Arg Val Leu Arg Val Pro Asn Pro Ser Ser Lys Arg Asn
130 135 140

Glu Gln Arg Ile Glu Leu Phe Gln Ile Leu Arg Pro Asp Glu His Ile
145 150 155 160

Ala Lys Gln Arg Tyr Ile Gly Gly Lys Asn Leu Pro Thr Arg Gly Thr
165 170 175

Ala Glu Trp Leu Ser Phe Asp Val Thr Asp Thr Val Arg Glu Trp Leu
180 185 190

Leu Arg Arg Glu Ser Asn Leu Gly Leu Glu Ile Ser Ile His Cys Pro
195 200 205

Cys His Thr Phe Gln Pro Asn Gly Asp Ile Leu Glu Asn Ile His Glu
210 215 220

Val Met Glu Ile Lys Phe Lys Gly Val Asp Asn Glu Asp Asp His Gly
225 230 235 240

Arg Gly Asp Leu Gly Arg Leu Lys Lys Gln Lys Asp His His Asn Pro
245 250 255

His Leu Ile Leu Met Met Ile Pro Pro His Arg Leu Asp Asn Pro Gly
260 265 270

Gln Gly Gly Gln Arg Lys Gly Ala Leu Asp Thr Asn Tyr Cys Phe Arg
275 280 285

Asn Leu Glu Glu Asn Cys Cys Val Arg Pro Leu Tyr Ile Asp Phe Arg
290 295 300

Gln Asp Leu Gly Trp Lys Trp Val His Glu Pro Lys Gly Tyr Tyr Ala
305 310 315 320

Asn Phe Cys Ser Gly Pro Cys Pro Tyr Leu Arg Ser Ala Asp Thr Thr
325 330 335

His Ser Thr Val Leu Gly Leu Tyr Asn Thr Leu Asn Pro Glu Ala Ser
340 345 350

Ala Ser Pro Cys Cys Val Pro Gln Asp Leu Glu Pro Leu Thr Ile Leu
355 360 365

Tyr Tyr Val Gly Arg Thr Pro Lys Val Glu Gln Leu Ser Asn Met Val
370 375 380

Val Lys Ser Cys Lys Cys Ser
385 390

<210> 23

<211> 391

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 23

Ser Leu Ser Leu Ser Thr Cys Thr Thr Leu Asp Phe Gly His Ile Lys
1 5 10 15

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

Leu Thr Ser Pro Pro Glu Pro Thr Val Met Thr His Val Pro Tyr Gln
35 40 45

Val Leu Ala Leu Tyr Asn Ser Thr Arg Glu Leu Leu Glu Glu Met His
50 55 60

Gly Glu Arg Glu Glu Gly Cys Thr Gln Glu Asn Thr Glu Ser Glu Tyr
65 70 75 80

Tyr Ala Lys Glu Ile His Lys Phe Asp Met Ile Gln Gly Leu Ala Glu
85 90 95

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

Arg Phe Asn Val Ser Ser Val Glu Lys Asn Arg Thr Asn Leu Phe Arg
115 120 125

Ala Glu Phe Arg Val Leu Arg Val Pro Asn Pro Ser Ser Lys Arg Asn
130 135 140

Glu Gln Arg Ile Glu Leu Phe Gln Ile Leu Arg Pro Asp Glu His Ile
145 150 155 160

Ala Lys Gln Arg Tyr Ile Gly Gly Lys Asn Leu Pro Thr Arg Gly Thr
165 170 175

Ala Glu Trp Leu Ser Phe Asp Val Thr Asp Thr Val Arg Glu Trp Leu
180 185 190

Leu Arg Arg Glu Ser Asn Leu Gly Leu Glu Ile Ser Ile His Cys Pro
195 200 205

Cys His Thr Phe Gln Pro Asn Gly Asp Ile Leu Glu Asn Ile His Glu
210 215 220

Val Met Glu Ile Lys Phe Lys Gly Val Asp Asn Glu Asp Asp His Gly
225 230 235 240

Arg Gly Asp Leu Gly Arg Leu Lys Lys Gln Lys Asp His His Asn Pro
245 250 255

His Leu Ile Leu Met Met Ile Pro Pro His Arg Leu Asp Asn Pro Gly

260

265

270

Gln Gly Gly Gln Arg Lys Gly Ala Leu Asp Thr Asn Tyr Cys Phe Arg
 275 280 285

Asn Leu Glu Glu Asn Cys Cys Val Arg Pro Leu Tyr Ile Asp Phe Arg
 290 295 300

Gln Asp Leu Gly Trp Lys Trp Val His Glu Pro Lys Gly Tyr Tyr Ala
 305 310 315 320

Asn Phe Cys Ser Gly Pro Cys Pro Tyr Leu Arg Ser Ala Asp Thr Thr
 325 330 335

His Ser Thr Val Leu Gly Leu Tyr Asn Thr Leu Asn Pro Glu Ala Ser
 340 345 350

Ala Ser Pro Cys Cys Val Pro Gln Asp Leu Glu Pro Leu Thr Ile Leu
 355 360 365

Tyr Tyr Val Gly Arg Thr Pro Lys Val Glu Gln Leu Ser Asn Met Val
 370 375 380

Val Lys Ser Cys Lys Cys Ser
 385 390

<210> 24

<211> 361

<212> PRT

<213> Mus sp.

<400> 24

Leu Ser Thr Cys Lys Thr Ile Asp Met Glu Leu Val Lys Arg Lys Arg
 1 5 10 15

Ile Glu Ala Ile Arg Gly Gln Ile Leu Ser Lys Leu Arg Leu Ala Ser
 20 25 30

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

35

40

45

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

Asp Pro Glu Pro Glu Pro Glu Ala Asp Tyr Tyr Ala Lys Glu Val Thr
 65 70 75 80

Arg Val Leu Met Val Asp Arg Asn Asn Ala Ile Tyr Glu Lys Thr Lys
 85 90 95

Asp Ile Ser His Ser Ile Tyr Met Phe Phe Asn Thr Ser Asp Ile Arg
 100 105 110

Glu Ala Val Pro Glu Pro Pro Leu Leu Ser Arg Ala Glu Leu Arg Leu
 115 120 125

Gln Arg Leu Lys Ser Ser Val Glu Gln His Val Glu Leu Tyr Gln Lys
 130 135 140

Tyr Ser Asn Asn Ser Trp Arg Tyr Leu Gly Asn Arg Leu Leu Thr Pro
 145 150 155 160

Thr Asp Thr Pro Glu Trp Leu Ser Phe Asp Val Thr Gly Val Val Arg
 165 170 175

Gln Trp Leu Asn Gln Gly Asp Gly Ile Gln Gly Phe Arg Phe Ser Ala
 180 185 190

His Cys Ser Cys Asp Ser Lys Asp Asn Lys Leu His Val Glu Ile Asn
 195 200 205

Gly Ile Ser Pro Lys Arg Arg Gly Asp Leu Gly Thr Ile His Asp Met
 210 215 220

Asn Arg Pro Phe Leu Leu Leu Met Ala Thr Pro Leu Glu Arg Ala Gln
 225 230 235 240

His Leu His Ser Ser Arg His Arg Arg Ala Leu Asp Thr Asn Tyr Cys
 245 250 255

Phe Ser Ser Thr Glu Lys Asn Cys Cys Val Arg Gln Leu Tyr Ile Asp
 260 265 270

Phe Arg Lys Asp Leu Gly Trp Lys Trp Ile His Glu Pro Lys Gly Tyr
 275 280 285

His Ala Asn Phe Cys Leu Gly Pro Cys Pro Tyr Ile Trp Ser Leu Asp
 290 295 300

Thr Gln Tyr Ser Lys Val Leu Ala Leu Tyr Asn Gln His Asn Pro Gly
 305 310 315 320

Ala Ser Ala Ser Pro Cys Cys Val Pro Gln Ala Leu Glu Pro Leu Pro
 325 330 335

Ile Val Tyr Tyr Val Gly Arg Lys Pro Lys Val Glu Gln Leu Ser Asn
 340 345 350

Met Ile Val Arg Ser Cys Lys Cys Ser
 355 360

<210> 25

<211> 361

<212> PRT

<213> Macaca fascicularis

<400> 25

Leu Ser Thr Cys Lys Thr Ile Asp Met Glu Leu Val Lys Arg Lys Arg
 1 5 10 15

Ile Glu Ala Ile Arg Gly Gln Ile Leu Ser Lys Leu Arg Leu Ala Ser
 20 25 30

Pro Pro Ser Gln Gly Glu Val Pro Pro Gly Pro Leu Pro Glu Ala Val
 35 40 45

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

Glu Pro Glu Pro Glu Pro Glu Ala Asp Tyr Tyr Ala Lys Glu Val Thr
65 70 75 80

Arg Val Leu Met Val Glu Thr His Asn Glu Ile Tyr Asp Lys Phe Lys
85 90 95

Gln Ser Thr His Ser Ile Tyr Met Phe Phe Asn Thr Ser Glu Leu Arg
100 105 110

Glu Ala Val Pro Glu Pro Val Leu Leu Ser Arg Ala Glu Leu Arg Leu
115 120 125

Leu Arg Leu Lys Leu Lys Val Glu Gln His Val Glu Leu Tyr Gln Lys
130 135 140

Tyr Ser Asn Asn Ser Trp Arg Tyr Leu Ser Asn Arg Leu Leu Ala Pro
145 150 155 160

Ser Asp Ser Pro Glu Trp Leu Ser Phe Asp Val Thr Gly Val Val Arg
165 170 175

Gln Trp Leu Ser Arg Gly Gly Glu Ile Glu Gly Phe Arg Leu Ser Ala
180 185 190

His Cys Ser Cys Asp Ser Lys Asp Asn Thr Leu Gln Val Asp Ile Asn
195 200 205

Gly Phe Thr Thr Gly Arg Arg Gly Asp Leu Ala Thr Ile His Gly Met
210 215 220

Asn Arg Pro Phe Leu Leu Leu Met Ala Thr Pro Leu Glu Arg Ala Gln
225 230 235 240

His Leu Gln Ser Ser Arg His Arg Arg Ala Leu Asp Thr Asn Tyr Cys

245

250

255

Phe Ser Ser Thr Glu Lys Asn Cys Cys Val Arg Gln Leu Tyr Ile Asp
 260 265 270

Phe Arg Lys Asp Leu Gly Trp Lys Trp Ile His Glu Pro Lys Gly Tyr
 275 280 285

His Ala Asn Phe Cys Leu Gly Pro Cys Pro Tyr Ile Trp Ser Leu Asp
 290 295 300

Thr Gln Tyr Ser Lys Val Leu Ala Leu Tyr Asn Gln His Asn Pro Gly
 305 310 315 320

Ala Ser Ala Ala Pro Cys Cys Val Pro Gln Ala Leu Glu Pro Leu Pro
 325 330 335

Ile Val Tyr Tyr Val Gly Arg Lys Pro Lys Val Glu Gln Leu Ser Asn
 340 345 350

Met Ile Val Arg Ser Cys Lys Cys Ser
 355 360

<210> 26

<211> 249

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic
 polypeptide"

<400> 26

Leu Ser Thr Ser Lys Thr Ile Asp Met Glu Leu Val Lys Arg Lys Arg
 1 5 10 15

Ile Glu Ala Ile Arg Gly Gln Ile Leu Ser Lys Leu Arg Leu Ala Ser
 20 25 30

Pro Pro Ser Gln Gly Glu Val Pro Pro Gly Pro Leu Pro Glu Ala Val
 35 40 45

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

Asp Pro Glu Pro Glu Pro Glu Ala Asp Tyr Tyr Ala Lys Glu Val Thr
 65 70 75 80

Arg Val Leu Met Val Asp Arg Asn Asn Ala Ile Tyr Glu Lys Thr Lys
 85 90 95

Asp Ile Ser His Ser Ile Tyr Met Phe Phe Asn Thr Ser Asp Ile Arg
 100 105 110

Glu Ala Val Pro Glu Pro Pro Leu Leu Ser Arg Ala Glu Leu Arg Leu
 115 120 125

Gln Arg Leu Lys Ser Ser Val Glu Gln His Val Glu Leu Tyr Gln Lys
 130 135 140

Tyr Ser Asn Asn Ser Trp Arg Tyr Leu Gly Asn Arg Leu Leu Thr Pro
 145 150 155 160

Thr Asp Thr Pro Glu Trp Leu Ser Phe Asp Val Thr Gly Val Val Arg
 165 170 175

Gln Trp Leu Asn Gln Gly Asp Gly Ile Gln Gly Phe Arg Phe Ser Ala
 180 185 190

His Cys Ser Cys Asp Ser Lys Asp Asn Lys Leu His Val Glu Ile Asn
 195 200 205

Gly Ile Ser Pro Lys Arg Arg Gly Asp Leu Gly Thr Ile His Asp Met
 210 215 220

Asn Arg Pro Phe Leu Leu Leu Met Ala Thr Pro Leu Glu Arg Ala Gln
 225 230 235 240

His Leu His Ser Ser Arg His Arg Arg
245

<210> 27

<211> 249

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 27

Leu Ser Thr Ser Lys Thr Ile Asp Met Glu Leu Val Lys Arg Lys Arg
1 5 10 15

Ile Glu Ala Ile Arg Gly Gln Ile Leu Ser Lys Leu Arg Leu Ala Ser
20 25 30

Pro Pro Ser Gln Gly Glu Val Pro Pro Gly Pro Leu Pro Glu Ala Val
35 40 45

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

Glu Pro Glu Pro Glu Pro Glu Ala Asp Tyr Tyr Ala Lys Glu Val Thr
65 70 75 80

Arg Val Leu Met Val Glu Thr His Asn Glu Ile Tyr Asp Lys Phe Lys
85 90 95

Gln Ser Thr His Ser Ile Tyr Met Phe Phe Asn Thr Ser Glu Leu Arg
100 105 110

Glu Ala Val Pro Glu Pro Val Leu Leu Ser Arg Ala Glu Leu Arg Leu
115 120 125

Leu Arg Leu Lys Leu Lys Val Glu Gln His Val Glu Leu Tyr Gln Lys

130

135

140

Tyr Ser Asn Asn Ser Trp Arg Tyr Leu Ser Asn Arg Leu Leu Ala Pro
 145 150 155 160

Ser Asp Ser Pro Glu Trp Leu Ser Phe Asp Val Thr Gly Val Val Arg
 165 170 175

Gln Trp Leu Ser Arg Gly Gly Glu Ile Glu Gly Phe Arg Leu Ser Ala
 180 185 190

His Cys Ser Cys Asp Ser Lys Asp Asn Thr Leu Gln Val Asp Ile Asn
 195 200 205

Gly Phe Thr Thr Gly Arg Arg Gly Asp Leu Ala Thr Ile His Gly Met
 210 215 220

Asn Arg Pro Phe Leu Leu Leu Met Ala Thr Pro Leu Glu Arg Ala Gln
 225 230 235 240

His Leu Gln Ser Ser Arg His Arg Arg
 245

<210> 28

<211> 360

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic
 polypeptide"

<400> 28

Leu Ser Thr Ser Lys Thr Ile Asp Met Glu Leu Val Lys Arg Lys Arg
 1 5 10 15

Ile Glu Ala Ile Arg Gly Gln Ile Leu Ser Lys Leu Arg Leu Ala Ser
 20 25 30

Pro Pro Ser Gln Gly Glu Val Pro Pro Gly Pro Leu Pro Glu Ala Val
35 40 45

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

Asp Pro Glu Pro Glu Pro Glu Ala Asp Tyr Tyr Ala Lys Glu Val Thr
65 70 75 80

Arg Val Leu Met Val Asp Arg Asn Asn Ala Ile Tyr Glu Lys Thr Lys
85 90 95

Asp Ile Ser His Ser Ile Tyr Met Phe Phe Asn Thr Ser Asp Ile Arg
100 105 110

Glu Ala Val Pro Glu Pro Pro Leu Leu Ser Arg Ala Glu Leu Arg Leu
115 120 125

Gln Arg Leu Lys Ser Ser Val Glu Gln His Val Glu Leu Tyr Gln Lys
130 135 140

Tyr Ser Asn Asn Ser Trp Arg Tyr Leu Gly Asn Arg Leu Leu Thr Pro
145 150 155 160

Thr Asp Thr Pro Glu Trp Leu Ser Phe Asp Val Thr Gly Val Val Arg
165 170 175

Gln Trp Leu Asn Gln Gly Asp Gly Ile Gln Gly Phe Arg Phe Ser Ala
180 185 190

His Cys Ser Cys Asp Ser Lys Asp Asn Lys Leu His Val Glu Ile Asn
195 200 205

Gly Ile Ser Pro Lys Arg Arg Gly Asp Leu Gly Thr Ile His Asp Met
210 215 220

Asn Arg Pro Phe Leu Leu Leu Met Ala Thr Pro Leu Glu Arg Ala Gln
225 230 235 240

His Leu His Ser Ser Arg His Gly Ala Leu Asp Thr Asn Tyr Cys Phe
245 250 255

Ser Ser Thr Glu Lys Asn Cys Cys Val Arg Gln Leu Tyr Ile Asp Phe
260 265 270

Arg Lys Asp Leu Gly Trp Lys Trp Ile His Glu Pro Lys Gly Tyr His
275 280 285

Ala Asn Phe Cys Leu Gly Pro Cys Pro Tyr Ile Trp Ser Leu Asp Thr
290 295 300

Gln Tyr Ser Lys Val Leu Ala Leu Tyr Asn Gln His Asn Pro Gly Ala
305 310 315 320

Ser Ala Ser Pro Cys Cys Val Pro Gln Ala Leu Glu Pro Leu Pro Ile
325 330 335

Val Tyr Tyr Val Gly Arg Lys Pro Lys Val Glu Gln Leu Ser Asn Met
340 345 350

Ile Val Arg Ser Cys Lys Cys Ser
355 360

<210> 29
<211> 361
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 29
Leu Ser Thr Ser Lys Thr Ile Asp Met Glu Leu Val Lys Arg Lys Arg
1 5 10 15

Ile Glu Ala Ile Arg Gly Gln Ile Leu Ser Lys Leu Arg Leu Ala Ser

20	25	30
Pro Pro Ser Gln Gly Glu Val	Pro Pro Gly Pro Leu	Pro Glu Ala Val
35	40	45
Leu Ala Leu Tyr Asn Ser Thr	Arg Asp Arg Val Ala Gly Glu Ser Ala	
50	55	60
Asp Pro Glu Pro Glu Pro Glu Ala Asp Tyr Tyr	Ala Lys Glu Val Thr	
65	70	75
Arg Val Leu Met Val Asp Arg Asn Asn Ala Ile Tyr Glu Lys Thr Lys		
85	90	95
Asp Ile Ser His Ser Ile Tyr Met Phe Phe Asn Thr Ser Asp Ile Arg		
100	105	110
Glu Ala Val Pro Glu Pro Pro Leu Leu Ser Arg Ala Glu Leu Arg Leu		
115	120	125
Gln Arg Leu Lys Ser Ser Val Glu Gln His Val Glu Leu Tyr Gln Lys		
130	135	140
Tyr Ser Asn Asn Ser Trp Arg Tyr Leu Gly Asn Arg Leu Leu Thr Pro		
145	150	155
Thr Asp Thr Pro Glu Trp Leu Ser Phe Asp Val Thr Gly Val Val Arg		
165	170	175
Gln Trp Leu Asn Gln Gly Asp Gly Ile Gln Gly Phe Arg Phe Ser Ala		
180	185	190
His Cys Ser Cys Asp Ser Lys Asp Asn Lys Leu His Val Glu Ile Asn		
195	200	205
Gly Ile Ser Pro Lys Arg Arg Gly Asp Leu Gly Thr Ile His Asp Met		
210	215	220

Asn Arg Pro Phe Leu Leu Leu Met Ala Thr Pro Leu Glu Arg Ala Gln
 225 230 235 240

His Leu His Ser Ser Arg His Arg Arg Ala Leu Asp Thr Asn Tyr Cys
 245 250 255

Phe Ser Ser Thr Glu Lys Asn Cys Cys Val Arg Gln Leu Tyr Ile Asp
 260 265 270

Phe Arg Lys Asp Leu Gly Trp Lys Trp Ile His Glu Pro Lys Gly Tyr
 275 280 285

His Ala Asn Phe Cys Leu Gly Pro Cys Pro Tyr Ile Trp Ser Leu Asp
 290 295 300

Thr Gln Tyr Ser Lys Val Leu Ala Leu Tyr Asn Gln His Asn Pro Gly
 305 310 315 320

Ala Ser Ala Ser Pro Cys Cys Val Pro Gln Ala Leu Glu Pro Leu Pro
 325 330 335

Ile Val Tyr Tyr Val Gly Arg Lys Pro Lys Val Glu Gln Leu Ser Asn
 340 345 350

Met Ile Val Arg Ser Cys Lys Cys Ser
 355 360

<210> 30
 <211> 361
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 polypeptide"

<400> 30
 Leu Ser Thr Ser Lys Thr Ile Asp Met Glu Leu Val Lys Arg Lys Arg
 1 5 10 15

Ile Glu Ala Ile Arg Gly Gln Ile Leu Ser Lys Leu Arg Leu Ala Ser
20 25 30

Pro Pro Ser Gln Gly Glu Val Pro Pro Gly Pro Leu Pro Glu Ala Val
35 40 45

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

Glu Pro Glu Pro Glu Pro Glu Ala Asp Tyr Tyr Ala Lys Glu Val Thr
65 70 75 80

Arg Val Leu Met Val Glu Thr His Asn Glu Ile Tyr Asp Lys Phe Lys
85 90 95

Gln Ser Thr His Ser Ile Tyr Met Phe Phe Asn Thr Ser Glu Leu Arg
100 105 110

Glu Ala Val Pro Glu Pro Val Leu Leu Ser Arg Ala Glu Leu Arg Leu
115 120 125

Leu Arg Leu Lys Leu Lys Val Glu Gln His Val Glu Leu Tyr Gln Lys
130 135 140

Tyr Ser Asn Asn Ser Trp Arg Tyr Leu Ser Asn Arg Leu Leu Ala Pro
145 150 155 160

Ser Asp Ser Pro Glu Trp Leu Ser Phe Asp Val Thr Gly Val Val Arg
165 170 175

Gln Trp Leu Ser Arg Gly Gly Glu Ile Glu Gly Phe Arg Leu Ser Ala
180 185 190

His Cys Ser Cys Asp Ser Lys Asp Asn Thr Leu Gln Val Asp Ile Asn
195 200 205

Gly Phe Thr Thr Gly Arg Arg Gly Asp Leu Ala Thr Ile His Gly Met
210 215 220

Asn Arg Pro Phe Leu Leu Leu Met Ala Thr Pro Leu Glu Arg Ala Gln
225 230 235 240

His Leu Gln Ser Ser Arg His Arg Arg Ala Leu Asp Thr Asn Tyr Cys
245 250 255

Phe Ser Ser Thr Glu Lys Asn Cys Cys Val Arg Gln Leu Tyr Ile Asp
260 265 270

Phe Arg Lys Asp Leu Gly Trp Lys Trp Ile His Glu Pro Lys Gly Tyr
275 280 285

His Ala Asn Phe Cys Leu Gly Pro Cys Pro Tyr Ile Trp Ser Leu Asp
290 295 300

Thr Gln Tyr Ser Lys Val Leu Ala Leu Tyr Asn Gln His Asn Pro Gly
305 310 315 320

Ala Ser Ala Ala Pro Cys Cys Val Pro Gln Ala Leu Glu Pro Leu Pro
325 330 335

Ile Val Tyr Tyr Val Gly Arg Lys Pro Lys Val Glu Gln Leu Ser Asn
340 345 350

Met Ile Val Arg Ser Cys Lys Cys Ser
355 360

<210> 31
<211> 360
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 31

Leu Ser Thr Ser Lys Thr Ile Asp Met Glu Leu Val Lys Arg Lys Arg
1 5 10 15

Ile Glu Ala Ile Arg Gly Gln Ile Leu Ser Lys Leu Arg Leu Ala Ser
20 25 30

Pro Pro Ser Gln Gly Glu Val Pro Pro Gly Pro Leu Pro Glu Ala Val
35 40 45

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

Glu Pro Glu Pro Glu Pro Glu Ala Asp Tyr Tyr Ala Lys Glu Val Thr
65 70 75 80

Arg Val Leu Met Val Glu Thr His Asn Glu Ile Tyr Asp Lys Phe Lys
85 90 95

Gln Ser Thr His Ser Ile Tyr Met Phe Phe Asn Thr Ser Glu Leu Arg
100 105 110

Glu Ala Val Pro Glu Pro Val Leu Leu Ser Arg Ala Glu Leu Arg Leu
115 120 125

Leu Arg Leu Lys Leu Lys Val Glu Gln His Val Glu Leu Tyr Gln Lys
130 135 140

Tyr Ser Asn Asn Ser Trp Arg Tyr Leu Ser Asn Arg Leu Leu Ala Pro
145 150 155 160

Ser Asp Ser Pro Glu Trp Leu Ser Phe Asp Val Thr Gly Val Val Arg
165 170 175

Gln Trp Leu Ser Arg Gly Gly Glu Ile Glu Gly Phe Arg Leu Ser Ala
180 185 190

His Cys Ser Cys Asp Ser Lys Asp Asn Thr Leu Gln Val Asp Ile Asn

195

200

205

Gly Phe Thr Thr Gly Arg Arg Gly Asp Leu Ala Thr Ile His Gly Met
 210 215 220

Asn Arg Pro Phe Leu Leu Leu Met Ala Thr Pro Leu Glu Arg Ala Gln
 225 230 235 240

His Leu Gln Ser Ser Arg His Gly Ala Leu Asp Thr Asn Tyr Cys Phe
 245 250 255

Ser Ser Thr Glu Lys Asn Cys Cys Val Arg Gln Leu Tyr Ile Asp Phe
 260 265 270

Arg Lys Asp Leu Gly Trp Lys Trp Ile His Glu Pro Lys Gly Tyr His
 275 280 285

Ala Asn Phe Cys Leu Gly Pro Cys Pro Tyr Ile Trp Ser Leu Asp Thr
 290 295 300

Gln Tyr Ser Lys Val Leu Ala Leu Tyr Asn Gln His Asn Pro Gly Ala
 305 310 315 320

Ser Ala Ala Pro Cys Cys Val Pro Gln Ala Leu Glu Pro Leu Pro Ile
 325 330 335

Val Tyr Tyr Val Gly Arg Lys Pro Lys Val Glu Gln Leu Ser Asn Met
 340 345 350

Ile Val Arg Ser Cys Lys Cys Ser
 355 360

<210> 32

<211> 1375

<212> PRT

<213> Homo sapiens

<400> 32

Asn His Thr Gly Arg Ile Lys Val Val Phe Thr Pro Ser Ile Cys Lys

1	5	10	15
Val Thr Cys Thr Lys Gly Ser Cys Gln Asn Ser Cys Glu Lys Gly Asn	20	25	30
Thr Thr Thr Leu Ile Ser Glu Asn Gly His Ala Ala Asp Thr Leu Thr	35	40	45
Ala Thr Asn Phe Arg Val Val Ile Cys His Leu Pro Cys Met Asn Gly	50	55	60
Gly Gln Cys Ser Ser Arg Asp Lys Cys Gln Cys Pro Pro Asn Phe Thr	65	70	75
Gly Lys Leu Cys Gln Ile Pro Val His Gly Ala Ser Val Pro Lys Leu	85	90	95
Tyr Gln His Ser Gln Gln Pro Gly Lys Ala Leu Gly Thr His Val Ile	100	105	110
His Ser Thr His Thr Leu Pro Leu Thr Val Thr Ser Gln Gln Gly Val	115	120	125
Lys Val Lys Phe Pro Pro Asn Ile Val Asn Ile His Val Lys His Pro	130	135	140
Pro Glu Ala Ser Val Gln Ile His Gln Val Ser Arg Ile Asp Gly Pro	145	150	155
Thr Gly Gln Lys Thr Lys Glu Ala Gln Pro Gly Gln Ser Gln Val Ser	165	170	175
Tyr Gln Gly Leu Pro Val Gln Lys Thr Gln Thr Ile His Ser Thr Tyr	180	185	190
Ser His Gln Gln Val Ile Pro His Val Tyr Pro Val Ala Ala Lys Thr	195	200	205

Gln Leu Gly Arg Cys Phe Gln Glu Thr Ile Gly Ser Gln Cys Gly Lys
 210 215 220

Ala Leu Pro Gly Leu Ser Lys Gln Glu Asp Cys Cys Gly Thr Val Gly
 225 230 235 240

Thr Ser Trp Gly Phe Asn Lys Cys Gln Lys Cys Pro Lys Lys Pro Ser
 245 250 255

Tyr His Gly Tyr Asn Gln Met Met Glu Cys Leu Pro Gly Tyr Lys Arg
 260 265 270

Val Asn Asn Thr Phe Cys Gln Asp Ile Asn Glu Cys Gln Leu Gln Gly
 275 280 285

Val Cys Pro Asn Gly Glu Cys Leu Asn Thr Met Gly Ser Tyr Arg Cys
 290 295 300

Thr Cys Lys Ile Gly Phe Gly Pro Asp Pro Thr Phe Ser Ser Cys Val
 305 310 315 320

Pro Asp Pro Pro Val Ile Ser Glu Glu Lys Gly Pro Cys Tyr Arg Leu
 325 330 335

Val Ser Ser Gly Arg Gln Cys Met His Pro Leu Ser Val His Leu Thr
 340 345 350

Lys Gln Leu Cys Cys Cys Ser Val Gly Lys Ala Trp Gly Pro His Cys
 355 360 365

Glu Lys Cys Pro Leu Pro Gly Thr Ala Ala Phe Lys Glu Ile Cys Pro
 370 375 380

Gly Gly Met Gly Tyr Thr Val Ser Gly Val His Arg Arg Arg Pro Ile
 385 390 395 400

His His His Val Gly Lys Gly Pro Val Phe Val Lys Pro Lys Asn Thr

405

410

415

Gln Pro Val Ala Lys Ser Thr His Pro Pro Pro Leu Pro Ala Lys Glu
 420 425 430

Glu Pro Val Glu Ala Leu Thr Phe Ser Arg Glu His Gly Pro Gly Val
 435 440 445

Ala Glu Pro Glu Val Ala Thr Ala Pro Pro Glu Lys Glu Ile Pro Ser
 450 455 460

Leu Asp Gln Glu Lys Thr Lys Leu Glu Pro Gly Gln Pro Gln Leu Ser
 465 470 475 480

Pro Gly Ile Ser Thr Ile His Leu His Pro Gln Phe Pro Val Val Ile
 485 490 495

Glu Lys Thr Ser Pro Pro Val Pro Val Glu Val Ala Pro Glu Ala Ser
 500 505 510

Thr Ser Ser Ala Ser Gln Val Ile Ala Pro Thr Gln Val Thr Glu Ile
 515 520 525

Asn Glu Cys Thr Val Asn Pro Asp Ile Cys Gly Ala Gly His Cys Ile
 530 535 540

Asn Leu Pro Val Arg Tyr Thr Cys Ile Cys Tyr Glu Gly Tyr Arg Phe
 545 550 555 560

Ser Glu Gln Gln Arg Lys Cys Val Asp Ile Asp Glu Cys Thr Gln Val
 565 570 575

Gln His Leu Cys Ser Gln Gly Arg Cys Glu Asn Thr Glu Gly Ser Phe
 580 585 590

Leu Cys Ile Cys Pro Ala Gly Phe Met Ala Ser Glu Glu Gly Thr Asn
 595 600 605

Cys Ile Asp Val Asp Glu Cys Leu Arg Pro Asp Val Cys Gly Glu Gly
610 615 620

His Cys Val Asn Thr Val Gly Ala Phe Arg Cys Glu Tyr Cys Asp Ser
625 630 635 640

Gly Tyr Arg Met Thr Gln Arg Gly Arg Cys Glu Asp Ile Asp Glu Cys
645 650 655

Leu Asn Pro Ser Thr Cys Pro Asp Glu Gln Cys Val Asn Ser Pro Gly
660 665 670

Ser Tyr Gln Cys Val Pro Cys Thr Glu Gly Phe Arg Gly Trp Asn Gly
675 680 685

Gln Cys Leu Asp Val Asp Glu Cys Leu Glu Pro Asn Val Cys Ala Asn
690 695 700

Gly Asp Cys Ser Asn Leu Glu Gly Ser Tyr Met Cys Ser Cys His Lys
705 710 715 720

Gly Tyr Thr Arg Thr Pro Asp His Lys His Cys Arg Asp Ile Asp Glu
725 730 735

Cys Gln Gln Gly Asn Leu Cys Val Asn Gly Gln Cys Lys Asn Thr Glu
740 745 750

Gly Ser Phe Arg Cys Thr Cys Gly Gln Gly Tyr Gln Leu Ser Ala Ala
755 760 765

Lys Asp Gln Cys Glu Asp Ile Asp Glu Cys Gln His Arg His Leu Cys
770 775 780

Ala His Gly Gln Cys Arg Asn Thr Glu Gly Ser Phe Gln Cys Val Cys
785 790 795 800

Asp Gln Gly Tyr Arg Ala Ser Gly Leu Gly Asp His Cys Glu Asp Ile

805	810	815
Asn Glu Cys Leu Glu Asp Lys Ser Val Cys Gln Arg Gly Asp Cys Ile		
820	825	830
Asn Thr Ala Gly Ser Tyr Asp Cys Thr Cys Pro Asp Gly Phe Gln Leu		
835	840	845
Asp Asp Asn Lys Thr Cys Gln Asp Ile Asn Glu Cys Glu His Pro Gly		
850	855	860
Leu Cys Gly Pro Gln Gly Glu Cys Leu Asn Thr Glu Gly Ser Phe His		
865	870	880
Cys Val Cys Gln Gln Gly Phe Ser Ile Ser Ala Asp Gly Arg Thr Cys		
	885	890
Glu Asp Ile Asp Glu Cys Val Asn Asn Thr Val Cys Asp Ser His Gly		
	900	910
Phe Cys Asp Asn Thr Ala Gly Ser Phe Arg Cys Leu Cys Tyr Gln Gly		
	915	920
Phe Gln Ala Pro Gln Asp Gly Gln Gly Cys Val Asp Val Asn Glu Cys		
	930	940
Glu Leu Leu Ser Gly Val Cys Gly Glu Ala Phe Cys Glu Asn Val Glu		
945	950	955
Gly Ser Phe Leu Cys Val Cys Ala Asp Glu Asn Gln Glu Tyr Ser Pro		
	965	970
Met Thr Gly Gln Cys Arg Ser Arg Thr Ser Thr Asp Leu Asp Val Asp		
	980	985
Val Asp Gln Pro Lys Glu Glu Lys Lys Glu Cys Tyr Tyr Asn Leu Asn		
	995	1000
		1005

Asp Ala Ser Leu Cys Asp Asn Val Leu Ala Pro Asn Val Thr Lys
 1010 1015 1020

Gln Glu Cys Cys Cys Thr Ser Gly Val Gly Trp Gly Asp Asn Cys
 1025 1030 1035

Glu Ile Phe Pro Cys Pro Val Leu Gly Thr Ala Glu Phe Thr Glu
 1040 1045 1050

Met Cys Pro Lys Gly Lys Gly Phe Val Pro Ala Gly Glu Ser Ser
 1055 1060 1065

Ser Glu Ala Gly Gly Glu Asn Tyr Lys Asp Ala Asp Glu Cys Leu
 1070 1075 1080

Leu Phe Gly Gln Glu Ile Cys Lys Asn Gly Phe Cys Leu Asn Thr
 1085 1090 1095

Arg Pro Gly Tyr Glu Cys Tyr Cys Lys Gln Gly Thr Tyr Tyr Asp
 1100 1105 1110

Pro Val Lys Leu Gln Cys Phe Asp Met Asp Glu Cys Gln Asp Pro
 1115 1120 1125

Ser Ser Cys Ile Asp Gly Gln Cys Val Asn Thr Glu Gly Ser Tyr
 1130 1135 1140

Asn Cys Phe Cys Thr His Pro Met Val Leu Asp Ala Ser Glu Lys
 1145 1150 1155

Arg Cys Ile Arg Pro Ala Glu Ser Asn Glu Gln Ile Glu Glu Thr
 1160 1165 1170

Asp Val Tyr Gln Asp Leu Cys Trp Glu His Leu Ser Asp Glu Tyr
 1175 1180 1185

Val Cys Ser Arg Pro Leu Val Gly Lys Gln Thr Thr Tyr Thr Glu

1190						1195						1200			
Cys	Cys	Cys	Leu	Tyr	Gly	Glu	Ala	Trp	Gly	Met	Gln	Cys	Ala	Leu	
1205						1210					1215				
Cys	Pro	Leu	Lys	Asp	Ser	Asp	Asp	Tyr	Ala	Gln	Leu	Cys	Asn	Ile	
1220						1225					1230				
Pro	Val	Thr	Gly	Arg	Arg	Gln	Pro	Tyr	Gly	Arg	Asp	Ala	Leu	Val	
1235						1240					1245				
Asp	Phe	Ser	Glu	Gln	Tyr	Thr	Pro	Glu	Ala	Asp	Pro	Tyr	Phe	Ile	
1250						1255					1260				
Gln	Asp	Arg	Phe	Leu	Asn	Ser	Phe	Glu	Glu	Leu	Gln	Ala	Glu	Glu	
1265						1270					1275				
Cys	Gly	Ile	Leu	Asn	Gly	Cys	Glu	Asn	Gly	Arg	Cys	Val	Arg	Val	
1280						1285					1290				
Gln	Glu	Gly	Tyr	Thr	Cys	Asp	Cys	Phe	Asp	Gly	Tyr	His	Leu	Asp	
1295						1300					1305				
Thr	Ala	Lys	Met	Thr	Cys	Val	Asp	Val	Asn	Glu	Cys	Asp	Glu	Leu	
1310						1315					1320				
Asn	Asn	Arg	Met	Ser	Leu	Cys	Lys	Asn	Ala	Lys	Cys	Ile	Asn	Thr	
1325						1330					1335				
Asp	Gly	Ser	Tyr	Lys	Cys	Leu	Cys	Leu	Pro	Gly	Tyr	Val	Pro	Ser	
1340						1345					1350				
Asp	Lys	Pro	Asn	Tyr	Cys	Thr	Pro	Leu	Asn	Thr	Ala	Leu	Asn	Leu	
1355						1360					1365				
Glu	Lys	Asp	Ser	Asp	Leu	Glu									
1370						1375									

<210> 33

<211> 1373

<212> PRT

<213> *Macaca fascicularis*

<400> 33

Asn His Thr Gly Arg Ile Lys Val Val Phe Thr Pro Ser Ile Cys Lys
1 5 10 15

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

Thr Thr Thr Leu Ile Ser Glu Asn Gly His Ala Ala Asp Thr Leu Thr
35 40 45

Ala Thr Asn Phe Arg Val Val Leu Cys His Leu Pro Cys Met Asn Gly
50 55 60

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

Gly Lys Leu Cys Gln Ile Pro Val His Gly Ala Ser Val Pro Lys Leu
85 90 95

Tyr Gln His Ser Gln Gln Pro Gly Lys Ala Leu Gly Thr His Val Ile
100 105 110

His Ser Thr His Thr Leu Pro Leu Thr Val Thr Ser Gln Gln Gly Val
115 120 125

Lys Val Lys Phe Pro Pro Asn Ile Val Asn Ile His Val Lys His Pro
130 135 140

Pro Glu Ala Ser Val Gln Ile His Gln Val Ser Arg Ile Asp Gly Pro
145 150 155 160

Thr Gly Gln Lys Thr Lys Glu Ala Gln Pro Gly Gln Ser Gln Val Ser
165 170 175

Tyr Gln Gly Leu Pro Val Gln Lys Thr Gln Thr Ile His Ser Thr Tyr
180 185 190

Ser His Gln Gln Val Ile Pro His Val Tyr Pro Val Ala Ala Lys Thr
195 200 205

Gln Leu Gly Arg Cys Phe Gln Glu Thr Ile Gly Ser Gln Cys Gly Lys
210 215 220

Ala Leu Pro Gly Leu Ser Lys Gln Glu Asp Cys Cys Gly Thr Val Gly
225 230 235 240

Thr Ser Trp Gly Phe Asn Lys Cys Gln Lys Cys Pro Lys Lys Pro Ser
245 250 255

Tyr His Gly Tyr Asn Gln Met Met Glu Cys Leu Pro Gly Tyr Lys Arg
260 265 270

Val Asn Asn Thr Phe Cys Gln Asp Ile Asn Glu Cys Gln Leu Gln Gly
275 280 285

Val Cys Pro Asn Gly Glu Cys Leu Asn Thr Met Gly Ser Tyr Arg Cys
290 295 300

Thr Cys Lys Ile Gly Phe Gly Pro Asp Pro Thr Phe Ser Ser Cys Val
305 310 315 320

Pro Asp Pro Pro Val Ile Ser Glu Glu Lys Gly Pro Cys Tyr Arg Leu
325 330 335

Val Ser Ser Gly Arg Gln Cys Met His Pro Leu Ser Val His Leu Thr
340 345 350

Lys Gln Leu Cys Cys Cys Ser Val Gly Lys Ala Trp Gly Pro His Cys
355 360 365

Glu Lys Cys Pro Leu Pro Gly Thr Ala Ala Phe Lys Glu Ile Cys Pro

370

375

380

Gly Gly Met Gly Tyr Thr Val Ser Gly Val His Arg Arg Arg Pro Ile
 385 390 395 400

His His His Val Gly Lys Gly Pro Val Phe Val Lys Pro Lys Asn Thr
 405 410 415

Gln Pro Val Ala Lys Ser Thr His Pro Pro Pro Leu Pro Ala Lys Glu
 420 425 430

Glu Pro Val Glu Ala Leu Thr Phe Ser Arg Glu His Gly Pro Gly Val
 435 440 445

Ala Glu Pro Glu Val Ala Thr Ala Pro Pro Glu Lys Glu Ile Pro Ser
 450 455 460

Leu Asp Gln Glu Lys Thr Lys Leu Glu Pro Gly Gln Pro Gln Leu Ser
 465 470 475 480

Pro Gly Ile Ser Thr Ile His Leu His Pro Gln Phe Pro Val Val Ile
 485 490 495

Glu Lys Thr Ser Pro Pro Val Pro Val Glu Val Ala Pro Glu Ala Ser
 500 505 510

Thr Ser Ser Ala Ser Gln Val Ile Ala Pro Thr Gln Val Thr Glu Ile
 515 520 525

Asn Glu Cys Thr Val Asn Pro Asp Ile Cys Gly Ala Gly His Cys Ile
 530 535 540

Asn Leu Pro Val Arg Tyr Thr Cys Ile Cys Tyr Glu Gly Tyr Lys Phe
 545 550 555 560

Ser Glu Gln Gln Arg Lys Cys Val Asp Ile Asp Glu Cys Thr Gln Val
 565 570 575

Gln His Leu Cys Ser Gln Gly Arg Cys Glu Asn Thr Glu Gly Ser Phe
580 585 590

Leu Cys Ile Cys Pro Ala Gly Phe Met Ala Ser Glu Glu Gly Thr Asn
595 600 605

Cys Ile Asp Val Asp Glu Cys Leu Arg Pro Asp Val Cys Gly Glu Gly
610 615 620

His Cys Val Asn Thr Val Gly Ala Phe Arg Cys Glu Tyr Cys Asp Ser
625 630 635 640

Gly Tyr Arg Met Thr Gln Arg Gly Arg Cys Glu Asp Ile Asp Glu Cys
645 650 655

Leu Asn Pro Ser Thr Cys Pro Asp Glu Gln Cys Val Asn Ser Pro Gly
660 665 670

Ser Tyr Gln Cys Val Pro Cys Thr Glu Gly Phe Arg Gly Trp Asn Gly
675 680 685

Gln Cys Leu Asp Val Asp Glu Cys Leu Glu Pro Asn Val Cys Thr Asn
690 695 700

Gly Asp Cys Ser Asn Leu Glu Gly Ser Tyr Met Cys Ser Cys His Lys
705 710 715 720

Gly Tyr Thr Arg Thr Pro Asp His Lys His Cys Lys Asp Ile Asp Glu
725 730 735

Cys Gln Gln Gly Asn Leu Cys Val Asn Gly Gln Cys Lys Asn Thr Glu
740 745 750

Gly Ser Phe Arg Cys Thr Cys Gly Gln Gly Tyr Gln Leu Ser Ala Ala
755 760 765

Lys Asp Gln Cys Glu Asp Ile Asp Glu Cys Gln His His His Leu Cys

770

775

780

Ala His Gly Gln Cys Arg Asn Thr Glu Gly Ser Phe Gln Cys Val Cys
 785 790 795 800

Asp Gln Gly Tyr Arg Ala Ser Gly Leu Gly Asp His Cys Glu Asp Ile
 805 810 815

Asn Glu Cys Leu Glu Asp Lys Ser Val Cys Gln Arg Gly Asp Cys Ile
 820 825 830

Asn Thr Ala Gly Ser Tyr Asp Cys Thr Cys Pro Asp Gly Phe Gln Leu
 835 840 845

Asp Asp Asn Lys Thr Cys Gln Asp Ile Asn Glu Cys Glu His Pro Gly
 850 855 860

Leu Cys Gly Pro Gln Gly Glu Cys Leu Asn Thr Glu Gly Ser Phe His
 865 870 875 880

Cys Val Cys Gln Gln Gly Phe Ser Ile Ser Ala Asp Gly Arg Thr Cys
 885 890 895

Glu Asp Ile Asp Glu Cys Val Asn Asn Thr Val Cys Asp Ser His Gly
 900 905 910

Phe Cys Asp Asn Thr Ala Gly Ser Phe Arg Cys Leu Cys Tyr Gln Gly
 915 920 925

Phe Gln Ala Pro Gln Asp Gly Gln Gly Cys Val Asp Val Asn Glu Cys
 930 935 940

Glu Leu Leu Ser Gly Val Cys Gly Glu Ala Phe Cys Glu Asn Val Glu
 945 950 955 960

Gly Ser Phe Leu Cys Val Cys Ala Asp Glu Asn Gln Glu Tyr Ser Pro
 965 970 975

Met Thr Gly Gln Cys Arg Ser Arg Thr Ser Thr Asp Leu Asp Val Glu
980 985 990

Gln Pro Lys Glu Glu Lys Lys Glu Cys Tyr Tyr Asn Leu Asn Asp Ala
995 1000 1005

Ser Leu Cys Asp Asn Val Leu Ala Pro Asn Val Thr Lys Gln Glu
1010 1015 1020

Cys Cys Cys Thr Ser Gly Ala Gly Trp Gly Asp Asn Cys Glu Ile
1025 1030 1035

Phe Pro Cys Pro Val Leu Gly Thr Ala Glu Phe Thr Glu Met Cys
1040 1045 1050

Pro Lys Gly Lys Gly Phe Val Pro Ala Gly Glu Ser Ser Ser Glu
1055 1060 1065

Ala Gly Gly Glu Asn Tyr Lys Asp Ala Asp Glu Cys Leu Leu Phe
1070 1075 1080

Gly Gln Glu Ile Cys Lys Asn Gly Phe Cys Leu Asn Thr Arg Pro
1085 1090 1095

Gly Tyr Glu Cys Tyr Cys Lys Gln Gly Thr Tyr Tyr Asp Pro Val
1100 1105 1110

Lys Leu Gln Cys Phe Asp Met Asp Glu Cys Gln Asp Pro Ser Ser
1115 1120 1125

Cys Ile Asp Gly Gln Cys Val Asn Thr Glu Gly Ser Tyr Asn Cys
1130 1135 1140

Phe Cys Thr His Pro Met Val Leu Asp Ala Ser Glu Lys Arg Cys
1145 1150 1155

Ile Arg Pro Ala Glu Ser Asn Glu Gln Ile Glu Glu Thr Asp Val

1160						1165						1170			
Tyr	Gln	Asp	Leu	Cys	Trp	Glu	His	Leu	Ser	Asp	Glu	Tyr	Val	Cys	
1175						1180					1185				
Ser	Arg	Pro	Leu	Val	Gly	Lys	Gln	Thr	Thr	Tyr	Thr	Glu	Cys	Cys	
1190						1195					1200				
Cys	Leu	Tyr	Gly	Glu	Ala	Trp	Gly	Met	Gln	Cys	Ala	Leu	Cys	Pro	
1205						1210					1215				
Met	Lys	Asp	Ser	Asp	Asp	Tyr	Ala	Gln	Leu	Cys	Asn	Ile	Pro	Val	
1220						1225					1230				
Thr	Gly	Arg	Arg	Gln	Pro	Tyr	Gly	Arg	Asp	Ala	Leu	Val	Asp	Phe	
1235						1240					1245				
Ser	Glu	Gln	Tyr	Ala	Pro	Glu	Ala	Asp	Pro	Tyr	Phe	Ile	Gln	Asp	
1250						1255					1260				
Arg	Phe	Leu	Asn	Ser	Phe	Glu	Glu	Leu	Gln	Ala	Glu	Glu	Cys	Gly	
1265						1270					1275				
Ile	Leu	Asn	Gly	Cys	Glu	Asn	Gly	Arg	Cys	Val	Arg	Val	Gln	Glu	
1280						1285					1290				
Gly	Tyr	Thr	Cys	Asp	Cys	Phe	Asp	Gly	Tyr	His	Leu	Asp	Thr	Ala	
1295						1300					1305				
Lys	Met	Thr	Cys	Val	Asp	Val	Asn	Glu	Cys	Asp	Glu	Leu	Asn	Asn	
1310						1315					1320				
Arg	Met	Ser	Leu	Cys	Lys	Asn	Ala	Lys	Cys	Ile	Asn	Thr	Glu	Gly	
1325						1330					1335				
Ser	Tyr	Lys	Cys	Leu	Cys	Leu	Pro	Gly	Tyr	Val	Pro	Ser	Asp	Lys	
1340						1345					1350				

Pro Asn Tyr Cys Thr Pro Leu Asn Thr Ala Leu Asn Leu Glu Lys
 1355 1360 1365

Asp Ser Asp Leu Glu
 1370

<210> 34
 <211> 1374
 <212> PRT
 <213> Mus sp.

<400> 34
 Asn His Thr Gly Arg Ile Lys Val Val Phe Thr Pro Ser Ile Cys Lys
 1 5 10 15

Val Thr Cys Thr Lys Gly Asn Cys Gln Asn Ser Cys Gln Lys Gly Asn
 20 25 30

Thr Thr Thr Leu Ile Ser Glu Asn Gly His Ala Ala Asp Thr Leu Thr
 35 40 45

Ala Thr Asn Phe Arg Val Val Ile Cys His Leu Pro Cys Met Asn Gly
 50 55 60

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

Gly Lys Leu Cys Gln Ile Pro Val Leu Gly Ala Ser Met Pro Lys Leu
 85 90 95

Tyr Gln His Ala Gln Gln Gln Gly Lys Ala Leu Gly Ser His Val Ile
 100 105 110

His Ser Thr His Thr Leu Pro Leu Thr Met Thr Ser Gln Gln Gly Val
 115 120 125

Lys Val Lys Phe Pro Pro Asn Ile Val Asn Ile His Val Lys His Pro
 130 135 140

Pro Glu Ala Ser Val Gln Ile His Gln Val Ser Arg Ile Asp Ser Pro
 145 150 155 160

Gly Gly Gln Lys Val Lys Glu Ala Gln Pro Gly Gln Ser Gln Val Ser
 165 170 175

Tyr Gln Gly Leu Pro Val Gln Lys Thr Gln Thr Val His Ser Thr Tyr
 180 185 190

Ser His Gln Gln Leu Ile Pro His Val Tyr Pro Val Ala Ala Lys Thr
 195 200 205

Gln Leu Gly Arg Cys Phe Gln Glu Thr Ile Gly Ser Gln Cys Gly Lys
 210 215 220

Ala Leu Pro Gly Leu Ser Lys Gln Glu Asp Cys Cys Gly Thr Val Gly
 225 230 235 240

Thr Ser Trp Gly Phe Asn Lys Cys Gln Lys Cys Pro Lys Lys Gln Ser
 245 250 255

Tyr His Gly Tyr Thr Gln Met Met Glu Cys Leu Gln Gly Tyr Lys Arg
 260 265 270

Val Asn Asn Thr Phe Cys Gln Asp Ile Asn Glu Cys Gln Leu Gln Gly
 275 280 285

Val Cys Pro Asn Gly Glu Cys Leu Asn Thr Met Gly Ser Tyr Arg Cys
 290 295 300

Ser Cys Lys Met Gly Phe Gly Pro Asp Pro Thr Phe Ser Ser Cys Val
 305 310 315 320

Pro Asp Pro Pro Val Ile Ser Glu Glu Lys Gly Pro Cys Tyr Arg Leu
 325 330 335

Val Ser Pro Gly Arg His Cys Met His Pro Leu Ser Val His Leu Thr

340		345		350											
Lys	Gln	Ile	Cys	Cys	Cys	Ser	Val	Gly	Lys	Ala	Trp	Gly	Pro	His	Cys
	355						360					365			
Glu	Lys	Cys	Pro	Leu	Pro	Gly	Thr	Ala	Ala	Phe	Lys	Glu	Ile	Cys	Pro
	370					375					380				
Gly	Gly	Met	Gly	Tyr	Thr	Val	Ser	Gly	Val	His	Arg	Arg	Arg	Pro	Ile
385					390					395					400
His	Gln	His	Ile	Gly	Lys	Glu	Ala	Val	Tyr	Val	Lys	Pro	Lys	Asn	Thr
			405						410					415	
Gln	Pro	Val	Ala	Lys	Ser	Thr	His	Pro	Pro	Pro	Leu	Pro	Ala	Lys	Glu
			420					425					430		
Glu	Pro	Val	Glu	Ala	Leu	Thr	Ser	Ser	Trp	Glu	His	Gly	Pro	Arg	Gly
		435					440					445			
Ala	Glu	Pro	Glu	Val	Val	Thr	Ala	Pro	Pro	Glu	Lys	Glu	Ile	Pro	Ser
	450					455					460				
Leu	Asp	Gln	Glu	Lys	Thr	Arg	Leu	Glu	Pro	Gly	Gln	Pro	Gln	Leu	Ser
465					470					475					480
Pro	Gly	Val	Ser	Thr	Ile	His	Leu	His	Pro	Gln	Phe	Pro	Val	Val	Val
				485					490					495	
Glu	Lys	Thr	Ser	Pro	Pro	Val	Pro	Val	Glu	Val	Ala	Pro	Glu	Ala	Ser
			500					505					510		
Thr	Ser	Ser	Ala	Ser	Gln	Val	Ile	Ala	Pro	Thr	Gln	Val	Thr	Glu	Ile
	515						520					525			
Asn	Glu	Cys	Thr	Val	Asn	Pro	Asp	Ile	Cys	Gly	Ala	Gly	His	Cys	Ile
	530					535					540				

Asn Leu Pro Val Arg Tyr Thr Cys Ile Cys Tyr Glu Gly Tyr Lys Phe
545 550 555 560

Ser Glu Gln Leu Arg Lys Cys Val Asp Ile Asp Glu Cys Ala Gln Val
565 570 575

Arg His Leu Cys Ser Gln Gly Arg Cys Glu Asn Thr Glu Gly Ser Phe
580 585 590

Leu Cys Val Cys Pro Ala Gly Phe Met Ala Ser Glu Glu Gly Thr Asn
595 600 605

Cys Ile Asp Val Asp Glu Cys Leu Arg Pro Asp Met Cys Arg Asp Gly
610 615 620

Arg Cys Ile Asn Thr Ala Gly Ala Phe Arg Cys Glu Tyr Cys Asp Ser
625 630 635 640

Gly Tyr Arg Met Ser Arg Arg Gly Tyr Cys Glu Asp Ile Asp Glu Cys
645 650 655

Leu Lys Pro Ser Thr Cys Pro Glu Glu Gln Cys Val Asn Thr Pro Gly
660 665 670

Ser Tyr Gln Cys Val Pro Cys Thr Glu Gly Phe Arg Gly Trp Asn Gly
675 680 685

Gln Cys Leu Asp Val Asp Glu Cys Leu Gln Pro Lys Val Cys Thr Asn
690 695 700

Gly Ser Cys Thr Asn Leu Glu Gly Ser Tyr Met Cys Ser Cys His Arg
705 710 715 720

Gly Tyr Ser Pro Thr Pro Asp His Arg His Cys Gln Asp Ile Asp Glu
725 730 735

Cys Gln Gln Gly Asn Leu Cys Met Asn Gly Gln Cys Arg Asn Thr Asp

740	745	750
Gly Ser Phe Arg Cys Thr Cys Gly Gln Gly Tyr Gln Leu Ser Ala Ala		
755	760	765
Lys Asp Gln Cys Glu Asp Ile Asp Glu Cys Glu His His His Leu Cys		
770	775	780
Ser His Gly Gln Cys Arg Asn Thr Glu Gly Ser Phe Gln Cys Val Cys		
785	790	795
Asn Gln Gly Tyr Arg Ala Ser Val Leu Gly Asp His Cys Glu Asp Ile		
805	810	815
Asn Glu Cys Leu Glu Asp Ser Ser Val Cys Gln Gly Gly Asp Cys Ile		
820	825	830
Asn Thr Ala Gly Ser Tyr Asp Cys Thr Cys Pro Asp Gly Phe Gln Leu		
835	840	845
Asn Asp Asn Lys Gly Cys Gln Asp Ile Asn Glu Cys Ala Gln Pro Gly		
850	855	860
Leu Cys Gly Ser His Gly Glu Cys Leu Asn Thr Gln Gly Ser Phe His		
865	870	875
Cys Val Cys Glu Gln Gly Phe Ser Ile Ser Ala Asp Gly Arg Thr Cys		
885	890	895
Glu Asp Ile Asp Glu Cys Val Asn Asn Thr Val Cys Asp Ser His Gly		
900	905	910
Phe Cys Asp Asn Thr Ala Gly Ser Phe Arg Cys Leu Cys Tyr Gln Gly		
915	920	925
Phe Gln Ala Pro Gln Asp Gly Gln Gly Cys Val Asp Val Asn Glu Cys		
930	935	940

Glu Leu Leu Ser Gly Val Cys Gly Glu Ala Phe Cys Glu Asn Val Glu
 945 950 955 960

Gly Ser Phe Leu Cys Val Cys Ala Asp Glu Asn Gln Glu Tyr Ser Pro
 965 970 975

Met Thr Gly Gln Cys Arg Ser Arg Val Thr Glu Asp Ser Gly Val Asp
 980 985 990

Arg Gln Pro Arg Glu Glu Lys Lys Glu Cys Tyr Tyr Asn Leu Asn Asp
 995 1000 1005

Ala Ser Leu Cys Asp Asn Val Leu Ala Pro Asn Val Thr Lys Gln
 1010 1015 1020

Glu Cys Cys Cys Thr Ser Gly Ala Gly Trp Gly Asp Asn Cys Glu
 1025 1030 1035

Ile Phe Pro Cys Pro Val Gln Gly Thr Ala Glu Phe Thr Glu Met
 1040 1045 1050

Cys Pro Arg Gly Lys Gly Leu Val Pro Ala Gly Glu Ser Ser Tyr
 1055 1060 1065

Asp Thr Gly Gly Glu Asn Tyr Lys Asp Ala Asp Glu Cys Leu Leu
 1070 1075 1080

Phe Gly Glu Glu Ile Cys Lys Asn Gly Tyr Cys Leu Asn Thr Gln
 1085 1090 1095

Pro Gly Tyr Glu Cys Tyr Cys Lys Gln Gly Thr Tyr Tyr Asp Pro
 1100 1105 1110

Val Lys Leu Gln Cys Phe Asp Met Asp Glu Cys Gln Asp Pro Asn
 1115 1120 1125

Ser Cys Ile Asp Gly Gln Cys Val Asn Thr Glu Gly Ser Tyr Asn

1130		1135		1140
Cys Phe Cys Thr His Pro Met Val Leu Asp Ala Ser Glu Lys Arg				
1145		1150		1155
Cys Val Gln Pro Thr Glu Ser Asn Glu Gln Ile Glu Glu Thr Asp				
1160		1165		1170
Val Tyr Gln Asp Leu Cys Trp Glu His Leu Ser Glu Glu Tyr Val				
1175		1180		1185
Cys Ser Arg Pro Leu Val Gly Lys Gln Thr Thr Tyr Thr Glu Cys				
1190		1195		1200
Cys Cys Leu Tyr Gly Glu Ala Trp Gly Met Gln Cys Ala Leu Cys				
1205		1210		1215
Pro Met Lys Asp Ser Asp Asp Tyr Ala Gln Leu Cys Asn Ile Pro				
1220		1225		1230
Val Thr Gly Arg Arg Arg Pro Tyr Gly Arg Asp Ala Leu Val Asp				
1235		1240		1245
Phe Ser Glu Gln Tyr Gly Pro Glu Thr Asp Pro Tyr Phe Ile Gln				
1250		1255		1260
Asp Arg Phe Leu Asn Ser Phe Glu Glu Leu Gln Ala Glu Glu Cys				
1265		1270		1275
Gly Ile Leu Asn Gly Cys Glu Asn Gly Arg Cys Val Arg Val Gln				
1280		1285		1290
Glu Gly Tyr Thr Cys Asp Cys Phe Asp Gly Tyr His Leu Asp Met				
1295		1300		1305
Ala Lys Met Thr Cys Val Asp Val Asn Glu Cys Ser Glu Leu Asn				
1310		1315		1320

Asn Arg Met Ser Leu Cys Lys Asn Ala Lys Cys Ile Asn Thr Glu
 1325 1330 1335

Gly Ser Tyr Lys Cys Leu Cys Leu Pro Gly Tyr Ile Pro Ser Asp
 1340 1345 1350

Lys Pro Asn Tyr Cys Thr Pro Leu Asn Ser Ala Leu Asn Leu Asp
 1355 1360 1365

Lys Glu Ser Asp Leu Glu
 1370

<210> 35
 <211> 1260
 <212> PRT
 <213> Homo sapiens

<400> 35
 Gly Pro Ala Gly Glu Arg Gly Ala Gly Gly Gly Gly Ala Leu Ala Arg
 1 5 10 15

Glu Arg Phe Lys Val Val Phe Ala Pro Val Ile Cys Lys Arg Thr Cys
 20 25 30

Leu Lys Gly Gln Cys Arg Asp Ser Cys Gln Gln Gly Ser Asn Met Thr
 35 40 45

Leu Ile Gly Glu Asn Gly His Ser Thr Asp Thr Leu Thr Gly Ser Gly
 50 55 60

Phe Arg Val Val Val Cys Pro Leu Pro Cys Met Asn Gly Gly Gln Cys
 65 70 75 80

Ser Ser Arg Asn Gln Cys Leu Cys Pro Pro Asp Phe Thr Gly Arg Phe
 85 90 95

Cys Gln Val Pro Ala Gly Gly Ala Gly Gly Gly Thr Gly Gly Ser Gly
 100 105 110

Pro Gly Leu Ser Arg Thr Gly Ala Leu Ser Thr Gly Ala Leu Pro Pro
 115 120 125

Leu Ala Pro Glu Gly Asp Ser Val Ala Ser Lys His Ala Ile Tyr Ala
 130 135 140

Val Gln Val Ile Ala Asp Pro Pro Gly Pro Gly Glu Gly Pro Pro Ala
 145 150 155 160

Gln His Ala Ala Phe Leu Val Pro Leu Gly Pro Gly Gln Ile Ser Ala
 165 170 175

Glu Val Gln Ala Pro Pro Pro Val Val Asn Val Arg Val His His Pro
 180 185 190

Pro Glu Ala Ser Val Gln Val His Arg Ile Glu Ser Ser Asn Ala Glu
 195 200 205

Ser Ala Ala Pro Ser Gln His Leu Leu Pro His Pro Lys Pro Ser His
 210 215 220

Pro Arg Pro Pro Thr Gln Lys Pro Leu Gly Arg Cys Phe Gln Asp Thr
 225 230 235 240

Leu Pro Lys Gln Pro Cys Gly Ser Asn Pro Leu Pro Gly Leu Thr Lys
 245 250 255

Gln Glu Asp Cys Cys Gly Ser Ile Gly Thr Ala Trp Gly Gln Ser Lys
 260 265 270

Cys His Lys Cys Pro Gln Leu Gln Tyr Thr Gly Val Gln Lys Pro Gly
 275 280 285

Pro Val Arg Gly Glu Val Gly Ala Asp Cys Pro Gln Gly Tyr Lys Arg
 290 295 300

Leu Asn Ser Thr His Cys Gln Asp Ile Asn Glu Cys Ala Met Pro Gly

305		310		315		320
Val Cys Arg His Gly Asp Cys Leu Asn Asn Pro Gly Ser Tyr Arg Cys						
		325		330		335
Val Cys Pro Pro Gly His Ser Leu Gly Pro Ser Arg Thr Gln Cys Ile						
		340		345		350
Ala Asp Lys Pro Glu Glu Lys Ser Leu Cys Phe Arg Leu Val Ser Pro						
		355		360		365
Glu His Gln Cys Gln His Pro Leu Thr Thr Arg Leu Thr Arg Gln Leu						
		370		375		380
Cys Cys Cys Ser Val Gly Lys Ala Trp Gly Ala Arg Cys Gln Arg Cys						
385		390		395		400
Pro Thr Asp Gly Thr Ala Ala Phe Lys Glu Ile Cys Pro Ala Gly Lys						
		405		410		415
Gly Tyr His Ile Leu Thr Ser His Gln Thr Leu Thr Ile Gln Gly Glu						
		420		425		430
Ser Asp Phe Ser Leu Phe Leu His Pro Asp Gly Pro Pro Lys Pro Gln						
		435		440		445
Gln Leu Pro Glu Ser Pro Ser Gln Ala Pro Pro Pro Glu Asp Thr Glu						
		450		455		460
Glu Glu Arg Gly Val Thr Thr Asp Ser Pro Val Ser Glu Glu Arg Ser						
465		470		475		480
Val Gln Gln Ser His Pro Thr Ala Thr Thr Thr Pro Ala Arg Pro Tyr						
		485		490		495
Pro Glu Leu Ile Ser Arg Pro Ser Pro Pro Thr Met Arg Trp Phe Leu						
		500		505		510

Pro Asp Leu Pro Pro Ser Arg Ser Ala Val Glu Ile Ala Pro Thr Gln
515 520 525

Val Thr Glu Thr Asp Glu Cys Arg Leu Asn Gln Asn Ile Cys Gly His
530 535 540

Gly Glu Cys Val Pro Gly Pro Pro Asp Tyr Ser Cys His Cys Asn Pro
545 550 555 560

Gly Tyr Arg Ser His Pro Gln His Arg Tyr Cys Val Asp Val Asn Glu
565 570 575

Cys Glu Ala Glu Pro Cys Gly Pro Gly Arg Gly Ile Cys Met Asn Thr
580 585 590

Gly Gly Ser Tyr Asn Cys His Cys Asn Arg Gly Tyr Arg Leu His Val
595 600 605

Gly Ala Gly Gly Arg Ser Cys Val Asp Leu Asn Glu Cys Ala Lys Pro
610 615 620

His Leu Cys Gly Asp Gly Gly Phe Cys Ile Asn Phe Pro Gly His Tyr
625 630 635 640

Lys Cys Asn Cys Tyr Pro Gly Tyr Arg Leu Lys Ala Ser Arg Pro Pro
645 650 655

Val Cys Glu Asp Ile Asp Glu Cys Arg Asp Pro Ser Ser Cys Pro Asp
660 665 670

Gly Lys Cys Glu Asn Lys Pro Gly Ser Phe Lys Cys Ile Ala Cys Gln
675 680 685

Pro Gly Tyr Arg Ser Gln Gly Gly Gly Ala Cys Arg Asp Val Asn Glu
690 695 700

Cys Ala Glu Gly Ser Pro Cys Ser Pro Gly Trp Cys Glu Asn Leu Pro

705		710		715		720
Gly Ser Phe Arg Cys Thr Cys Ala Gln Gly Tyr Ala Pro Ala Pro Asp						
		725		730		735
Gly Arg Ser Cys Leu Asp Val Asp Glu Cys Glu Ala Gly Asp Val Cys						
		740		745		750
Asp Asn Gly Ile Cys Ser Asn Thr Pro Gly Ser Phe Gln Cys Gln Cys						
		755		760		765
Leu Ser Gly Tyr His Leu Ser Arg Asp Arg Ser His Cys Glu Asp Ile						
		770		775		780
Asp Glu Cys Asp Phe Pro Ala Ala Cys Ile Gly Gly Asp Cys Ile Asn						
		785		790		800
Thr Asn Gly Ser Tyr Arg Cys Leu Cys Pro Gln Gly His Arg Leu Val						
		805		810		815
Gly Gly Arg Lys Cys Gln Asp Ile Asp Glu Cys Ser Gln Asp Pro Ser						
		820		825		830
Leu Cys Leu Pro His Gly Ala Cys Lys Asn Leu Gln Gly Ser Tyr Val						
		835		840		845
Cys Val Cys Asp Glu Gly Phe Thr Pro Thr Gln Asp Gln His Gly Cys						
		850		855		860
Glu Glu Val Glu Gln Pro His His Lys Lys Glu Cys Tyr Leu Asn Phe						
		865		870		880
Asp Asp Thr Val Phe Cys Asp Ser Val Leu Ala Thr Asn Val Thr Gln						
		885		890		895
Gln Glu Cys Cys Cys Ser Leu Gly Ala Gly Trp Gly Asp His Cys Glu						
		900		905		910

Ile Tyr Pro Cys Pro Val Tyr Ser Ser Ala Glu Phe His Ser Leu Cys
915 920 925

Pro Asp Gly Lys Gly Tyr Thr Gln Asp Asn Asn Ile Val Asn Tyr Gly
930 935 940

Ile Pro Ala His Arg Asp Ile Asp Glu Cys Met Leu Phe Gly Ser Glu
945 950 955 960

Ile Cys Lys Glu Gly Lys Cys Val Asn Thr Gln Pro Gly Tyr Glu Cys
965 970 975

Tyr Cys Lys Gln Gly Phe Tyr Tyr Asp Gly Asn Leu Leu Glu Cys Val
980 985 990

Asp Val Asp Glu Cys Leu Asp Glu Ser Asn Cys Arg Asn Gly Val Cys
995 1000 1005

Glu Asn Thr Arg Gly Gly Tyr Arg Cys Ala Cys Thr Pro Pro Ala
1010 1015 1020

Glu Tyr Ser Pro Ala Gln Arg Gln Cys Leu Ser Pro Glu Glu Met
1025 1030 1035

Asp Val Asp Glu Cys Gln Asp Pro Ala Ala Cys Arg Pro Gly Arg
1040 1045 1050

Cys Val Asn Leu Pro Gly Ser Tyr Arg Cys Glu Cys Arg Pro Pro
1055 1060 1065

Trp Val Pro Gly Pro Ser Gly Arg Asp Cys Gln Leu Pro Glu Ser
1070 1075 1080

Pro Ala Glu Arg Ala Pro Glu Arg Arg Asp Val Cys Trp Ser Gln
1085 1090 1095

Arg Gly Glu Asp Gly Met Cys Ala Gly Pro Leu Ala Gly Pro Ala

1100		1105		1110
Leu Thr Phe Asp Asp Cys Cys Cys Arg Gln Gly Arg Gly Trp Gly				
1115		1120		1125
Ala Gln Cys Arg Pro Cys Pro Pro Arg Gly Ala Gly Ser His Cys				
1130		1135		1140
Pro Thr Ser Gln Ser Glu Ser Asn Ser Phe Trp Asp Thr Ser Pro				
1145		1150		1155
Leu Leu Leu Gly Lys Pro Pro Arg Asp Glu Asp Ser Ser Glu Glu				
1160		1165		1170
Asp Ser Asp Glu Cys Arg Cys Val Ser Gly Arg Cys Val Pro Arg				
1175		1180		1185
Pro Gly Gly Ala Val Cys Glu Cys Pro Gly Gly Phe Gln Leu Asp				
1190		1195		1200
Ala Ser Arg Ala Arg Cys Val Asp Ile Asp Glu Cys Arg Glu Leu				
1205		1210		1215
Asn Gln Arg Gly Leu Leu Cys Lys Ser Glu Arg Cys Val Asn Thr				
1220		1225		1230
Ser Gly Ser Phe Arg Cys Val Cys Lys Ala Gly Phe Ala Arg Ser				
1235		1240		1245
Arg Pro His Gly Ala Cys Val Pro Gln Arg Arg Arg				
1250		1255		1260

<210> 36

<211> 1260

<212> PRT

<213> Macaca fascicularis

<400> 36

Gly Pro Ala Gly Glu Arg Gly Ala Gly Gly Gly Gly Ala Leu Ala Arg

1	5	10	15
Glu Arg Phe Lys Val Val Phe Ala Pro Val Ile Cys Lys Arg Thr Cys	20	25	30
Leu Lys Gly Gln Cys Arg Asp Ser Cys Gln Gln Gly Ser Asn Met Thr	35	40	45
Leu Ile Gly Glu Asn Gly His Ser Thr Asp Thr Leu Thr Gly Ser Gly	50	55	60
Phe Arg Val Val Val Cys Pro Leu Pro Cys Met Asn Gly Gly Gln Cys	65	70	75
Ser Ser Arg Asn Gln Cys Leu Cys Pro Pro Asp Phe Thr Gly Arg Phe	85	90	95
Cys Gln Val Pro Ala Gly Gly Ala Gly Gly Gly Thr Gly Gly Ser Gly	100	105	110
Pro Gly Leu Ser Arg Ala Gly Ala Leu Ser Thr Gly Ala Leu Pro Pro	115	120	125
Leu Ala Pro Glu Gly Asp Ser Val Ala Ser Lys His Ala Ile Tyr Ala	130	135	140
Val Gln Val Ile Ala Asp Pro Pro Gly Pro Gly Glu Gly Pro Pro Ala	145	150	155
Gln His Ala Ala Phe Leu Val Pro Leu Gly Pro Gly Gln Ile Ser Ala	165	170	175
Glu Val Gln Ala Pro Pro Pro Val Val Asn Val Arg Val His His Pro	180	185	190
Pro Glu Ala Ser Val Gln Val His Arg Ile Glu Ser Ser Asn Ala Glu	195	200	205

Gly Ala Ala Pro Ser Gln His Leu Leu Pro His Pro Lys Pro Ser His
 210 215 220

Pro Arg Pro Pro Thr Gln Lys Pro Leu Gly Arg Cys Phe Gln Asp Thr
 225 230 235 240

Leu Pro Lys Gln Pro Cys Gly Ser Asn Pro Leu Pro Gly Leu Thr Lys
 245 250 255

Gln Glu Asp Cys Cys Gly Ser Ile Gly Thr Ala Trp Gly Gln Ser Lys
 260 265 270

Cys His Lys Cys Pro Gln Leu Gln Tyr Thr Gly Val Gln Lys Pro Gly
 275 280 285

Pro Val Arg Gly Glu Val Gly Ala Asp Cys Pro Gln Gly Tyr Lys Arg
 290 295 300

Leu Asn Ser Thr His Cys Gln Asp Ile Asn Glu Cys Ala Met Pro Gly
 305 310 315 320

Val Cys Arg His Gly Asp Cys Leu Asn Asn Pro Gly Ser Tyr Arg Cys
 325 330 335

Val Cys Pro Pro Gly His Ser Leu Gly Pro Ser Arg Thr Gln Cys Ile
 340 345 350

Ala Asp Lys Pro Glu Glu Lys Ser Leu Cys Phe Arg Leu Val Ser Pro
 355 360 365

Glu His Gln Cys Gln His Pro Leu Thr Thr Arg Leu Thr Arg Gln Leu
 370 375 380

Cys Cys Cys Ser Val Gly Lys Ala Trp Gly Ala Arg Cys Gln Arg Cys
 385 390 395 400

Pro Ala Asp Gly Thr Ala Ala Phe Lys Glu Ile Cys Pro Ala Gly Lys

405

410

415

Gly Tyr His Ile Leu Thr Ser His Gln Thr Leu Thr Ile Gln Gly Glu
 420 425 430

Ser Asp Phe Ser Leu Phe Leu His Pro Asp Gly Pro Pro Lys Pro Gln
 435 440 445

Gln Leu Pro Glu Ser Pro Ser Gln Ala Pro Pro Pro Glu Asp Thr Glu
 450 455 460

Glu Glu Arg Gly Val Thr Thr Asp Ser Pro Val Ser Glu Glu Arg Ser
 465 470 475 480

Val Gln Gln Ser His Pro Thr Ala Thr Thr Ser Pro Ala Arg Pro Tyr
 485 490 495

Pro Glu Leu Ile Ser Arg Pro Ser Pro Pro Thr Met Arg Trp Phe Leu
 500 505 510

Pro Asp Leu Pro Pro Ser Arg Ser Ala Val Glu Ile Ala Pro Thr Gln
 515 520 525

Val Thr Glu Thr Asp Glu Cys Arg Leu Asn Gln Asn Ile Cys Gly His
 530 535 540

Gly Glu Cys Val Pro Gly Pro Pro Asp Tyr Ser Cys His Cys Asn Pro
 545 550 555 560

Gly Tyr Arg Ser His Pro Gln His Arg Tyr Cys Val Asp Val Asn Glu
 565 570 575

Cys Glu Ala Glu Pro Cys Gly Pro Gly Arg Gly Ile Cys Met Asn Thr
 580 585 590

Gly Gly Ser Tyr Asn Cys His Cys Asn Arg Gly Tyr Arg Leu His Val
 595 600 605

Gly Ala Gly Gly Arg Ser Cys Val Asp Leu Asn Glu Cys Ala Lys Pro
610 615 620

His Leu Cys Gly Asp Gly Gly Phe Cys Ile Asn Phe Pro Gly His Tyr
625 630 635 640

Lys Cys Asn Cys Tyr Pro Gly Tyr Arg Leu Lys Ala Ser Arg Pro Pro
645 650 655

Val Cys Glu Asp Ile Asp Glu Cys Arg Asp Pro Ser Ser Cys Pro Asp
660 665 670

Gly Lys Cys Glu Asn Lys Pro Gly Ser Phe Lys Cys Ile Ala Cys Gln
675 680 685

Pro Gly Tyr Arg Ser Gln Gly Gly Gly Ala Cys Arg Asp Val Asn Glu
690 695 700

Cys Ala Glu Gly Ser Pro Cys Ser Pro Gly Trp Cys Glu Asn Leu Pro
705 710 715 720

Gly Ser Phe Arg Cys Thr Cys Ala Gln Gly Tyr Ala Pro Ala Pro Asp
725 730 735

Gly Arg Ser Cys Val Asp Val Asp Glu Cys Glu Ala Gly Asp Val Cys
740 745 750

Asp Asn Gly Ile Cys Thr Asn Thr Pro Gly Ser Phe Gln Cys Gln Cys
755 760 765

Leu Ser Gly Tyr His Leu Ser Arg Asp Arg Ser His Cys Glu Asp Ile
770 775 780

Asp Glu Cys Asp Phe Pro Ala Ala Cys Ile Gly Gly Asp Cys Ile Asn
785 790 795 800

Thr Asn Gly Ser Tyr Arg Cys Leu Cys Pro Gln Gly His Arg Leu Val

805

810

815

Gly Gly Arg Lys Cys Gln Asp Ile Asp Glu Cys Thr Gln Asp Pro Gly
 820 825 830

Leu Cys Leu Pro His Gly Ala Cys Lys Asn Leu Gln Gly Ser Tyr Val
 835 840 845

Cys Val Cys Asp Glu Gly Phe Thr Pro Thr Gln Asp Gln His Gly Cys
 850 855 860

Glu Glu Val Glu Gln Pro His His Lys Lys Glu Cys Tyr Leu Asn Phe
 865 870 875 880

Asp Asp Thr Val Phe Cys Asp Ser Val Leu Ala Thr Asn Val Thr Gln
 885 890 895

Gln Glu Cys Cys Cys Ser Leu Gly Ala Gly Trp Gly Asp His Cys Glu
 900 905 910

Ile Tyr Pro Cys Pro Val Tyr Ser Ser Ala Glu Phe His Ser Leu Cys
 915 920 925

Pro Asp Gly Lys Gly Tyr Thr Gln Asp Asn Asn Ile Val Asn Tyr Gly
 930 935 940

Ile Pro Ala His Arg Asp Ile Asp Glu Cys Met Leu Phe Gly Ala Glu
 945 950 955 960

Ile Cys Lys Glu Gly Lys Cys Val Asn Thr Gln Pro Gly Tyr Glu Cys
 965 970 975

Tyr Cys Lys Gln Gly Phe Tyr Tyr Asp Gly Asn Leu Leu Glu Cys Val
 980 985 990

Asp Val Asp Glu Cys Leu Asp Glu Ser Asn Cys Arg Asn Gly Val Cys
 995 1000 1005

Glu Asn Thr Arg Gly Gly Tyr Arg Cys Ala Cys Thr Pro Pro Ala
 1010 1015 1020

Glu Tyr Ser Pro Ala Gln Arg Gln Cys Leu Ser Pro Glu Glu Met
 1025 1030 1035

Asp Val Asp Glu Cys Gln Asp Pro Ala Ala Cys Arg Pro Gly Arg
 1040 1045 1050

Cys Val Asn Leu Pro Gly Ser Tyr Arg Cys Glu Cys Arg Pro Pro
 1055 1060 1065

Trp Val Pro Gly Pro Ser Gly Arg Asp Cys Gln Leu Pro Glu Ser
 1070 1075 1080

Pro Ala Glu Arg Ala Pro Glu Arg Arg Asp Val Cys Trp Ser Gln
 1085 1090 1095

Arg Gly Glu Asp Gly Met Cys Ala Gly Pro Gln Ala Gly Pro Ala
 1100 1105 1110

Leu Thr Phe Asp Asp Cys Cys Cys Arg Gln Gly Arg Gly Trp Gly
 1115 1120 1125

Ala Gln Cys Arg Pro Cys Pro Pro Arg Gly Ala Gly Ser Gln Cys
 1130 1135 1140

Pro Thr Ser Gln Ser Glu Ser Asn Ser Phe Trp Asp Thr Ser Pro
 1145 1150 1155

Leu Leu Leu Gly Lys Pro Arg Arg Asp Glu Asp Ser Ser Glu Glu
 1160 1165 1170

Asp Ser Asp Glu Cys Arg Cys Val Ser Gly Arg Cys Val Pro Arg
 1175 1180 1185

Pro Gly Gly Ala Val Cys Glu Cys Pro Gly Gly Phe Gln Leu Asp

1190		1195		1200
Ala Ser Arg Ala Arg Cys Val Asp Ile Asp Glu Cys Arg Glu Leu				
1205		1210		1215
Asn Gln Arg Gly Leu Leu Cys Lys Ser Glu Arg Cys Val Asn Thr				
1220		1225		1230
Ser Gly Ser Phe Arg Cys Val Cys Lys Ala Gly Phe Ala Arg Ser				
1235		1240		1245
Arg Pro His Gly Ala Cys Val Pro Gln Arg Arg Arg				
1250		1255		1260
<210> 37				
<211> 1228				
<212> PRT				
<213> Mus sp.				
<400> 37				
Gly Pro Ala Gly Glu Arg Gly Thr Gly Gly Gly Gly Ala Leu Ala Arg				
1	5	10	15	
Glu Arg Phe Lys Val Val Phe Ala Pro Val Ile Cys Lys Arg Thr Cys				
20	25	30		
Leu Lys Gly Gln Cys Arg Asp Ser Cys Gln Gln Gly Ser Asn Met Thr				
35	40	45		
Leu Ile Gly Glu Asn Gly His Ser Thr Asp Thr Leu Thr Gly Ser Ala				
50	55	60		
Phe Arg Val Val Val Cys Pro Leu Pro Cys Met Asn Gly Gly Gln Cys				
65	70	75	80	
Ser Ser Arg Asn Gln Cys Leu Cys Pro Pro Asp Phe Thr Gly Arg Phe				
85	90	95		
Cys Gln Val Pro Ala Ala Gly Thr Gly Ala Gly Thr Gly Ser Ser Gly				

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

Leu Asn Ser Thr His Cys Gln Asp Ile Asn Glu Cys Ala Met Pro Gly
 305 310 315 320

Asn Val Cys His Gly Asp Cys Leu Asn Asn Pro Gly Ser Tyr Arg Cys
 325 330 335

Val Cys Pro Pro Gly His Ser Leu Gly Pro Leu Ala Ala Gln Cys Ile
 340 345 350

Ala Asp Lys Pro Glu Glu Lys Ser Leu Cys Phe Arg Leu Val Ser Thr
 355 360 365

Glu His Gln Cys Gln His Pro Leu Thr Thr Arg Leu Thr Arg Gln Leu
 370 375 380

Cys Cys Cys Ser Val Gly Lys Ala Trp Gly Ala Arg Cys Gln Arg Cys
 385 390 395 400

Pro Ala Asp Gly Thr Ala Ala Phe Lys Glu Ile Cys Pro Gly Lys Gly
 405 410 415

Tyr His Ile Leu Thr Ser His Gln Thr Leu Thr Ile Gln Gly Glu Ser
 420 425 430

Asp Phe Ser Leu Phe Leu His Pro Asp Gly Pro Pro Lys Pro Gln Gln
 435 440 445

Leu Pro Glu Ser Pro Ser Arg Ala Pro Pro Leu Glu Asp Thr Glu Glu
 450 455 460

Glu Arg Gly Val Thr Met Asp Pro Pro Val Ser Glu Glu Arg Ser Val
 465 470 475 480

Gln Gln Ser His Pro Thr Thr Thr Thr Ser Pro Pro Arg Pro Tyr Pro
 485 490 495

Glu Leu Ile Ser Arg Pro Ser Pro Pro Thr Phe His Arg Phe Leu Pro

500	505	510
Asp Leu Pro Pro Ser Arg Ser Ala Val Glu Ile Ala Pro Thr Gln Val		
515	520	525
Thr Glu Thr Asp Glu Cys Arg Leu Asn Gln Asn Ile Cys Gly His Gly		
530	535	540
Gln Cys Val Pro Gly Pro Ser Asp Tyr Ser Cys His Cys Asn Ala Gly		
545	550	555
Tyr Arg Ser His Pro Gln His Arg Tyr Cys Val Asp Val Asn Glu Cys		
565	570	575
Glu Ala Glu Pro Cys Gly Pro Gly Lys Gly Ile Cys Met Asn Thr Gly		
580	585	590
Gly Ser Tyr Asn Cys His Cys Asn Arg Gly Tyr Arg Leu His Val Gly		
595	600	605
Ala Gly Gly Arg Ser Cys Val Asp Leu Asn Glu Cys Ala Lys Pro His		
610	615	620
Leu Cys Gly Asp Gly Gly Phe Cys Ile Asn Phe Pro Gly His Tyr Lys		
625	630	635
Cys Asn Cys Tyr Pro Gly Tyr Arg Leu Lys Ala Ser Arg Pro Pro Ile		
645	650	655
Cys Glu Asp Ile Asp Glu Cys Arg Asp Pro Ser Thr Cys Pro Asp Gly		
660	665	670
Lys Cys Glu Asn Lys Pro Gly Ser Phe Lys Cys Ile Ala Cys Gln Pro		
675	680	685
Gly Tyr Arg Ser Gln Gly Gly Gly Ala Cys Arg Asp Val Asn Glu Cys		
690	695	700

Ser Glu Gly Thr Pro Cys Ser Pro Gly Trp Cys Glu Asn Leu Pro Gly
705 710 715 720

Ser Tyr Arg Cys Thr Cys Ala Gln Tyr Glu Pro Ala Gln Asp Gly Leu
725 730 735

Ser Cys Ile Asp Val Asp Glu Cys Glu Ala Gly Lys Val Cys Gln Asp
740 745 750

Gly Ile Cys Thr Asn Thr Pro Gly Ser Phe Gln Cys Gln Cys Leu Ser
755 760 765

Gly Tyr His Leu Ser Arg Asp Arg Ser Arg Cys Glu Asp Ile Asp Glu
770 775 780

Cys Asp Phe Pro Ala Ala Cys Ile Gly Gly Asp Cys Ile Asn Thr Asn
785 790 795 800

Gly Ser Tyr Arg Cys Leu Cys Pro Leu Gly His Arg Leu Val Gly Gly
805 810 815

Arg Lys Cys Lys Lys Asp Ile Asp Glu Cys Ser Gln Asp Pro Gly Leu
820 825 830

Cys Leu Pro His Ala Cys Glu Asn Leu Gln Gly Ser Tyr Val Cys Val
835 840 845

Cys Asp Glu Gly Phe Thr Leu Thr Gln Asp Gln His Gly Cys Glu Glu
850 855 860

Val Glu Gln Pro His His Lys Lys Glu Cys Tyr Leu Asn Phe Asp Asp
865 870 875 880

Thr Val Phe Cys Asp Ser Val Leu Ala Thr Asn Val Thr Gln Gln Glu
885 890 895

Cys Cys Cys Ser Leu Gly Ala Gly Trp Gly Asp His Cys Glu Ile Tyr

900	905	910
Pro Cys Pro Val Tyr Ser Ser Ala Glu Phe His Ser Leu Val Pro Asp 915 920 925		
Gly Lys Arg Leu His Ser Gly Gln Gln His Cys Glu Leu Cys Ile Pro 930 935 940		
Ala His Arg Asp Ile Asp Glu Cys Ile Leu Phe Gly Ala Glu Ile Cys 945 950 955 960		
Lys Glu Gly Lys Cys Val Asn Thr Gln Pro Gly Tyr Glu Cys Tyr Cys 965 970 975		
Lys Gln Gly Phe Tyr Tyr Asp Gly Asn Leu Leu Glu Cys Val Asp Val 980 985 990		
Asp Glu Cys Leu Asp Glu Ser Asn Cys Arg Asn Gly Val Cys Glu Asn 995 1000 1005		
Thr Arg Gly Gly Tyr Arg Cys Ala Cys Thr Pro Pro Ala Glu Tyr 1010 1015 1020		
Ser Pro Ala Gln Ala Gln Cys Leu Ile Pro Glu Arg Trp Ser Thr 1025 1030 1035		
Pro Gln Arg Asp Val Lys Cys Ala Gly Ala Ser Glu Glu Arg Thr 1040 1045 1050		
Ala Cys Val Trp Gly Pro Trp Ala Gly Pro Ala Leu Thr Phe Asp 1055 1060 1065		
Asp Cys Cys Cys Arg Gln Pro Arg Leu Gly Thr Gln Cys Arg Pro 1070 1075 1080		
Cys Pro Pro Arg Gly Thr Gly Ser Gln Cys Pro Thr Ser Gln Ser 1085 1090 1095		

Glu Ser Asn Ser Phe Trp Asp Thr Ser Pro Leu Leu Leu Gly Lys
 1100 1105 1110

Ser Pro Arg Asp Glu Asp Ser Ser Glu Glu Asp Ser Asp Glu Cys
 1115 1120 1125

Arg Cys Val Ser Gly Arg Cys Val Pro Arg Pro Gly Gly Ala Val
 1130 1135 1140

Cys Glu Cys Pro Gly Gly Phe Gln Leu Asp Ala Ser Arg Ala Arg
 1145 1150 1155

Cys Val Asp Ile Asp Glu Cys Arg Glu Leu Asn Gln Arg Gly Leu
 1160 1165 1170

Leu Cys Lys Ser Glu Arg Cys Val Asn Thr Ser Gly Ser Phe Arg
 1175 1180 1185

Cys Val Cys Lys Ala Gly Phe Thr Arg Ser Arg Pro His Gly Pro
 1190 1195 1200

Ala Cys Leu Ser Ala Ala Ala Asp Asp Ala Ala Ile Ala His Thr
 1205 1210 1215

Ser Val Ile Asp His Arg Gly Tyr Phe His
 1220 1225

<210> 38
 <211> 645
 <212> PRT
 <213> Homo sapiens

<400> 38
 Ala Gln His Gln Asp Lys Val Pro Cys Lys Met Val Asp Lys Lys Val
 1 5 10 15

Ser Cys Gln Val Leu Gly Leu Leu Gln Val Pro Ser Val Leu Pro Pro
 20 25 30

Asp Thr Glu Thr Leu Asp Leu Ser Gly Asn Gln Leu Arg Ser Ile Leu
35 40 45

Ala Ser Pro Leu Gly Phe Tyr Thr Ala Leu Arg His Leu Asp Leu Ser
50 55 60

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

His Leu Glu His Leu Ser Leu Ala His Asn Arg Leu Ala Met Ala Thr
85 90 95

Ala Leu Ser Ala Gly Gly Leu Gly Pro Leu Pro Arg Val Thr Ser Leu
100 105 110

Asp Leu Ser Gly Asn Ser Leu Tyr Ser Gly Leu Leu Glu Arg Leu Leu
115 120 125

Gly Glu Ala Pro Ser Leu His Thr Leu Ser Leu Ala Glu Asn Ser Leu
130 135 140

Thr Arg Leu Thr Arg His Thr Phe Arg Asp Met Pro Ala Leu Glu Gln
145 150 155 160

Leu Asp Leu His Ser Asn Val Leu Met Asp Ile Glu Asp Gly Ala Phe
165 170 175

Glu Gly Leu Pro Arg Leu Thr His Leu Asn Leu Ser Arg Asn Ser Leu
180 185 190

Thr Cys Ile Ser Asp Phe Ser Leu Gln Gln Leu Arg Val Leu Asp Leu
195 200 205

Ser Cys Asn Ser Ile Glu Ala Phe Gln Thr Ala Ser Gln Pro Gln Ala
210 215 220

Glu Phe Gln Leu Thr Trp Leu Asp Leu Arg Glu Asn Lys Leu Leu His

225		230		235		240									
Phe	Pro	Asp	Leu	Ala	Ala	Leu	Pro	Arg	Leu	Ile	Tyr	Leu	Asn	Leu	Ser
			245						250					255	
Asn	Asn	Leu	Ile	Arg	Leu	Pro	Thr	Gly	Pro	Pro	Gln	Asp	Ser	Lys	Gly
			260					265					270		
Ile	His	Ala	Pro	Ser	Glu	Gly	Trp	Ser	Ala	Leu	Pro	Leu	Ser	Ala	Pro
		275					280					285			
Ser	Gly	Asn	Ala	Ser	Gly	Arg	Pro	Leu	Ser	Gln	Leu	Leu	Asn	Leu	Asp
	290					295					300				
Leu	Ser	Tyr	Asn	Glu	Ile	Glu	Leu	Ile	Pro	Asp	Ser	Phe	Leu	Glu	His
305					310					315					320
Leu	Thr	Ser	Leu	Cys	Phe	Leu	Asn	Leu	Ser	Arg	Asn	Cys	Leu	Arg	Thr
				325					330					335	
Phe	Glu	Ala	Arg	Arg	Leu	Gly	Ser	Leu	Pro	Cys	Leu	Met	Leu	Leu	Asp
			340					345					350		
Leu	Ser	His	Asn	Ala	Leu	Glu	Thr	Leu	Glu	Leu	Gly	Ala	Arg	Ala	Leu
		355					360					365			
Gly	Ser	Leu	Arg	Thr	Leu	Leu	Leu	Gln	Gly	Asn	Ala	Leu	Arg	Asp	Leu
	370					375					380				
Pro	Pro	Tyr	Thr	Phe	Ala	Asn	Leu	Ala	Ser	Leu	Gln	Arg	Leu	Asn	Leu
385					390					395					400
Gln	Gly	Asn	Arg	Val	Ser	Pro	Cys	Gly	Gly	Pro	Asp	Glu	Pro	Gly	Pro
				405					410					415	
Ser	Gly	Cys	Val	Ala	Phe	Ser	Gly	Ile	Thr	Ser	Leu	Arg	Ser	Leu	Ser
			420					425					430		

Leu Val Asp Asn Glu Ile Glu Leu Leu Arg Ala Gly Ala Phe Leu His
435 440 445

Thr Pro Leu Thr Glu Leu Asp Leu Ser Ser Asn Pro Gly Leu Glu Val
450 455 460

Ala Thr Gly Ala Leu Gly Gly Leu Glu Ala Ser Leu Glu Val Leu Ala
465 470 475 480

Leu Gln Gly Asn Gly Leu Met Val Leu Gln Val Asp Leu Pro Cys Phe
485 490 495

Ile Cys Leu Lys Arg Leu Asn Leu Ala Glu Asn Arg Leu Ser His Leu
500 505 510

Pro Ala Trp Thr Gln Ala Val Ser Leu Glu Val Leu Asp Leu Arg Asn
515 520 525

Asn Ser Phe Ser Leu Leu Pro Gly Ser Ala Met Gly Gly Leu Glu Thr
530 535 540

Ser Leu Arg Arg Leu Tyr Leu Gln Gly Asn Pro Leu Ser Cys Cys Gly
545 550 555 560

Asn Gly Trp Leu Ala Ala Gln Leu His Gln Gly Arg Val Asp Val Asp
565 570 575

Ala Thr Gln Asp Leu Ile Cys Arg Phe Ser Ser Gln Glu Glu Val Ser
580 585 590

Leu Ser His Val Arg Pro Glu Asp Cys Glu Lys Gly Gly Leu Lys Asn
595 600 605

Ile Asn Leu Ile Ile Ile Leu Thr Phe Ile Leu Val Ser Ala Ile Leu
610 615 620

Leu Thr Thr Leu Ala Ala Cys Cys Cys Val Arg Arg Gln Lys Phe Asn

625 630 635 640

Gln Gln Tyr Lys Ala
645

<210> 39
<211> 610
<212> PRT
<213> Homo sapiens

<400> 39
Ala Gln His Gln Asp Lys Val Pro Cys Lys Met Val Asp Lys Lys Val
1 5 10 15

Ser Cys Gln Val Leu Gly Leu Leu Gln Val Pro Ser Val Leu Pro Pro
20 25 30

Asp Thr Glu Thr Leu Asp Leu Ser Gly Asn Gln Leu Arg Ser Ile Leu
35 40 45

Ala Ser Pro Leu Gly Phe Tyr Thr Ala Leu Arg His Leu Asp Leu Ser
50 55 60

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

His Leu Glu His Leu Ser Leu Ala His Asn Arg Leu Ala Met Ala Thr
85 90 95

Ala Leu Ser Ala Gly Gly Leu Gly Pro Leu Pro Arg Val Thr Ser Leu
100 105 110

Asp Leu Ser Gly Asn Ser Leu Tyr Ser Gly Leu Leu Glu Arg Leu Leu
115 120 125

Gly Glu Ala Pro Ser Leu His Thr Leu Ser Leu Ala Glu Asn Ser Leu
130 135 140

Thr Arg Leu Thr Arg His Thr Phe Arg Asp Met Pro Ala Leu Glu Gln

145		150		155		160
Leu Asp Leu His	Ser Asn Val	Leu Met Asp	Ile Glu Asp	Gly Ala Phe		
	165		170	175		
Glu Gly Leu Pro	Arg Leu Thr His	Leu Asn Leu Ser	Arg Asn Ser	Leu		
	180	185	190			
Thr Cys Ile Ser	Asp Phe Ser	Leu Gln Gln	Leu Arg Val	Leu Asp Leu		
	195	200	205			
Ser Cys Asn Ser	Ile Glu Ala Phe	Gln Thr Ala	Ser Gln Pro	Gln Ala		
	210	215	220			
Glu Phe Gln Leu	Thr Trp Leu Asp	Leu Arg Glu	Asn Lys Leu	Leu His		
225	230	235		240		
Phe Pro Asp Leu	Ala Ala Leu Pro	Arg Leu Ile Tyr	Leu Asn Leu	Ser		
	245	250	255			
Asn Asn Leu Ile	Arg Leu Pro Thr	Gly Pro Pro	Gln Asp Ser	Lys Gly		
	260	265	270			
Ile His Ala Pro	Ser Glu Gly Trp	Ser Ala Leu Pro	Leu Ser Ala	Pro		
	275	280	285			
Ser Gly Asn Ala	Ser Gly Arg Pro	Leu Ser Gln	Leu Leu Asn	Leu Asp		
	290	295	300			
Leu Ser Tyr Asn	Glu Ile Glu Leu	Ile Pro Asp	Ser Phe Leu	Glu His		
305	310	315		320		
Leu Thr Ser Leu	Cys Phe Leu Asn	Leu Ser Arg	Asn Cys Leu	Arg Thr		
	325	330	335			
Phe Glu Ala Arg	Arg Leu Gly Ser	Leu Pro Cys	Leu Met Leu	Leu Asp		
	340	345	350			

Leu Ser His Asn Ala Leu Glu Thr Leu Glu Leu Gly Ala Arg Ala Leu
355 360 365

Gly Ser Leu Arg Thr Leu Leu Leu Gln Gly Asn Ala Leu Arg Asp Leu
370 375 380

Pro Pro Tyr Thr Phe Ala Asn Leu Ala Ser Leu Gln Arg Leu Asn Leu
385 390 395 400

Gln Gly Asn Arg Val Ser Pro Cys Gly Gly Pro Asp Glu Pro Gly Pro
405 410 415

Ser Gly Cys Val Ala Phe Ser Gly Ile Thr Ser Leu Arg Ser Leu Ser
420 425 430

Leu Val Asp Asn Glu Ile Glu Leu Leu Arg Ala Gly Ala Phe Leu His
435 440 445

Thr Pro Leu Thr Glu Leu Asp Leu Ser Ser Asn Pro Gly Leu Glu Val
450 455 460

Ala Thr Gly Ala Leu Gly Gly Leu Glu Ala Ser Leu Glu Val Leu Ala
465 470 475 480

Leu Gln Gly Asn Gly Leu Met Val Leu Gln Val Asp Leu Pro Cys Phe
485 490 495

Ile Cys Leu Lys Arg Leu Asn Leu Ala Glu Asn Arg Leu Ser His Leu
500 505 510

Pro Ala Trp Thr Gln Ala Val Ser Leu Glu Val Leu Asp Leu Arg Asn
515 520 525

Asn Ser Phe Ser Leu Leu Pro Gly Ser Ala Met Gly Gly Leu Glu Thr
530 535 540

Ser Leu Arg Arg Leu Tyr Leu Gln Gly Asn Pro Leu Ser Cys Cys Gly

545 550 555 560

Asn Gly Trp Leu Ala Ala Gln Leu His Gln Gly Arg Val Asp Val Asp
565 570 575

Ala Thr Gln Asp Leu Ile Cys Arg Phe Ser Ser Gln Glu Glu Val Ser
580 585 590

Leu Ser His Val Arg Pro Glu Asp Cys Glu Lys Gly Gly Leu Lys Asn
595 600 605

Ile Asn
610

<210> 40
<211> 646
<212> PRT
<213> Mus sp.

<400> 40
Ile Ser Gln Arg Arg Glu Gln Val Pro Cys Arg Thr Val Asn Lys Glu
1 5 10 15

Ala Leu Cys His Gly Leu Gly Leu Leu Gln Val Pro Ser Val Leu Ser
20 25 30

Leu Asp Ile Gln Ala Leu Tyr Leu Ser Gly Asn Gln Leu Gln Ser Ile
35 40 45

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

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

Pro Tyr Leu Glu His Leu Asn Leu Ala His Asn Arg Leu Ala Thr Gly
85 90 95

Met Ala Leu Asn Ser Gly Gly Leu Gly Arg Leu Pro Leu Leu Val Ser

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

Asp Leu Ser Tyr Asn Glu Ile Glu Leu Val Pro Ala Ser Phe Leu Glu
305 310 315 320

His Leu Thr Ser Leu Arg Phe Leu Asn Leu Ser Arg Asn Cys Leu Arg
325 330 335

Ser Phe Glu Ala Arg Gln Val Asp Ser Leu Pro Cys Leu Val Leu Leu
340 345 350

Asp Leu Ser His Asn Val Leu Glu Ala Leu Glu Leu Gly Thr Lys Val
355 360 365

Leu Gly Ser Leu Gln Thr Leu Leu Leu Gln Asp Asn Ala Leu Gln Glu
370 375 380

Leu Pro Pro Tyr Thr Phe Ala Ser Leu Ala Ser Leu Gln Arg Leu Asn
385 390 395 400

Leu Gln Gly Asn Gln Val Ser Pro Cys Gly Gly Pro Ala Glu Pro Gly
405 410 415

Pro Pro Gly Cys Val Asp Phe Ser Gly Ile Pro Thr Leu His Val Leu
420 425 430

Asn Met Ala Gly Asn Ser Met Gly Met Leu Arg Ala Gly Ser Phe Leu
435 440 445

His Thr Pro Leu Thr Glu Leu Asp Leu Ser Thr Asn Pro Gly Leu Asp
450 455 460

Val Ala Thr Gly Ala Leu Val Gly Leu Glu Ala Ser Leu Glu Val Leu
465 470 475 480

Glu Leu Gln Gly Asn Gly Leu Thr Val Leu Arg Val Asp Leu Pro Cys
485 490 495

Phe Leu Arg Leu Lys Arg Leu Asn Leu Ala Glu Asn Gln Leu Ser His

500

505

510

Leu Pro Ala Trp Thr Arg Ala Val Ser Leu Glu Val Leu Asp Leu Arg
 515 520 525

Asn Asn Ser Phe Ser Leu Leu Pro Gly Asn Ala Met Gly Gly Leu Glu
 530 535 540

Thr Ser Leu Arg Arg Leu Tyr Leu Gln Gly Asn Pro Leu Ser Cys Cys
 545 550 555 560

Gly Asn Gly Trp Leu Ala Ala Gln Leu His Gln Gly Arg Val Asp Val
 565 570 575

Asp Ala Thr Gln Asp Leu Ile Cys Arg Phe Gly Ser Gln Glu Glu Leu
 580 585 590

Ser Leu Ser Leu Val Arg Pro Glu Asp Cys Glu Lys Gly Gly Leu Lys
 595 600 605

Asn Val Asn Leu Ile Leu Leu Leu Ser Phe Thr Leu Val Ser Ala Ile
 610 615 620

Val Leu Thr Thr Leu Ala Thr Ile Cys Phe Leu Arg Arg Gln Lys Leu
 625 630 635 640

Ser Gln Gln Tyr Lys Ala
 645

<210> 41

<211> 611

<212> PRT

<213> Mus sp.

<400> 41

Ile Ser Gln Arg Arg Glu Gln Val Pro Cys Arg Thr Val Asn Lys Glu
 1 5 10 15

Ala Leu Cys His Gly Leu Gly Leu Leu Gln Val Pro Ser Val Leu Ser

20

25

30

Leu Asp Ile Gln Ala Leu Tyr Leu Ser Gly Asn Gln Leu Gln Ser Ile
 35 40 45

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

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

Pro Tyr Leu Glu His Leu Asn Leu Ala His Asn Arg Leu Ala Thr Gly
 85 90 95

Met Ala Leu Asn Ser Gly Gly Leu Gly Arg Leu Pro Leu Leu Val Ser
 100 105 110

Leu Asp Leu Ser Gly Asn Ser Leu His Gly Asn Leu Val Glu Arg Leu
 115 120 125

Leu Gly Glu Thr Pro Arg Leu Arg Thr Leu Ser Leu Ala Glu Asn Ser
 130 135 140

Leu Thr Arg Leu Ala Arg His Thr Phe Trp Gly Met Pro Ala Val Glu
 145 150 155 160

Gln Leu Asp Leu His Ser Asn Val Leu Met Asp Ile Glu Asp Gly Ala
 165 170 175

Phe Glu Ala Leu Pro His Leu Thr His Leu Asn Leu Ser Arg Asn Ser
 180 185 190

Leu Thr Cys Ile Ser Asp Phe Ser Leu Gln Gln Leu Gln Val Leu Asp
 195 200 205

Leu Ser Cys Asn Ser Ile Glu Ala Phe Gln Thr Ala Pro Glu Pro Gln
 210 215 220

Ala Gln Phe Gln Leu Ala Trp Leu Asp Leu Arg Glu Asn Lys Leu Leu
 225 230 235 240

His Phe Pro Asp Leu Ala Val Phe Pro Arg Leu Ile Tyr Leu Asn Val
 245 250 255

Ser Asn Asn Leu Ile Gln Leu Pro Ala Gly Leu Pro Arg Gly Ser Glu
 260 265 270

Asp Leu His Ala Pro Ser Glu Gly Trp Ser Ala Ser Pro Leu Ser Asn
 275 280 285

Pro Ser Arg Asn Ala Ser Thr His Pro Leu Ser Gln Leu Leu Asn Leu
 290 295 300

Asp Leu Ser Tyr Asn Glu Ile Glu Leu Val Pro Ala Ser Phe Leu Glu
 305 310 315 320

His Leu Thr Ser Leu Arg Phe Leu Asn Leu Ser Arg Asn Cys Leu Arg
 325 330 335

Ser Phe Glu Ala Arg Gln Val Asp Ser Leu Pro Cys Leu Val Leu Leu
 340 345 350

Asp Leu Ser His Asn Val Leu Glu Ala Leu Glu Leu Gly Thr Lys Val
 355 360 365

Leu Gly Ser Leu Gln Thr Leu Leu Leu Gln Asp Asn Ala Leu Gln Glu
 370 375 380

Leu Pro Pro Tyr Thr Phe Ala Ser Leu Ala Ser Leu Gln Arg Leu Asn
 385 390 395 400

Leu Gln Gly Asn Gln Val Ser Pro Cys Gly Gly Pro Ala Glu Pro Gly
 405 410 415

Pro Pro Gly Cys Val Asp Phe Ser Gly Ile Pro Thr Leu His Val Leu

420	425	430													
Asn	Met	Ala	Gly	Asn	Ser	Met	Gly	Met	Leu	Arg	Ala	Gly	Ser	Phe	Leu
		435					440					445			
His	Thr	Pro	Leu	Thr	Glu	Leu	Asp	Leu	Ser	Thr	Asn	Pro	Gly	Leu	Asp
	450					455					460				
Val	Ala	Thr	Gly	Ala	Leu	Val	Gly	Leu	Glu	Ala	Ser	Leu	Glu	Val	Leu
465					470					475					480
Glu	Leu	Gln	Gly	Asn	Gly	Leu	Thr	Val	Leu	Arg	Val	Asp	Leu	Pro	Cys
				485					490					495	
Phe	Leu	Arg	Leu	Lys	Arg	Leu	Asn	Leu	Ala	Glu	Asn	Gln	Leu	Ser	His
			500					505					510		
Leu	Pro	Ala	Trp	Thr	Arg	Ala	Val	Ser	Leu	Glu	Val	Leu	Asp	Leu	Arg
	515						520					525			
Asn	Asn	Ser	Phe	Ser	Leu	Leu	Pro	Gly	Asn	Ala	Met	Gly	Gly	Leu	Glu
	530					535					540				
Thr	Ser	Leu	Arg	Arg	Leu	Tyr	Leu	Gln	Gly	Asn	Pro	Leu	Ser	Cys	Cys
545					550					555					560
Gly	Asn	Gly	Trp	Leu	Ala	Ala	Gln	Leu	His	Gln	Gly	Arg	Val	Asp	Val
				565					570					575	
Asp	Ala	Thr	Gln	Asp	Leu	Ile	Cys	Arg	Phe	Gly	Ser	Gln	Glu	Glu	Leu
			580					585					590		
Ser	Leu	Ser	Leu	Val	Arg	Pro	Glu	Asp	Cys	Glu	Lys	Gly	Gly	Leu	Lys
		595					600					605			
Asn	Val	Asn													
	610														

<210> 42
 <211> 692
 <212> PRT
 <213> Homo sapiens

<400> 42

Met Glu Leu Leu Pro Leu Trp Leu Cys Leu Gly Phe His Phe Leu Thr
 1 5 10 15

Val Gly Trp Arg Asn Arg Ser Gly Thr Ala Thr Ala Ala Ser Gln Gly
 20 25 30

Val Cys Lys Leu Val Gly Gly Ala Ala Asp Cys Arg Gly Gln Ser Leu
 35 40 45

Ala Ser Val Pro Ser Ser Leu Pro Pro His Ala Arg Met Leu Thr Leu
 50 55 60

Asp Ala Asn Pro Leu Lys Thr Leu Trp Asn His Ser Leu Gln Pro Tyr
 65 70 75 80

Pro Leu Leu Glu Ser Leu Ser Leu His Ser Cys His Leu Glu Arg Ile
 85 90 95

Ser Arg Gly Ala Phe Gln Glu Gln Gly His Leu Arg Ser Leu Val Leu
 100 105 110

Gly Asp Asn Cys Leu Ser Glu Asn Tyr Glu Glu Thr Ala Ala Ala Leu
 115 120 125

His Ala Leu Pro Gly Leu Arg Arg Leu Asp Leu Ser Gly Asn Ala Leu
 130 135 140

Thr Glu Asp Met Ala Ala Leu Met Leu Gln Asn Leu Ser Ser Leu Arg
 145 150 155 160

Ser Val Ser Leu Ala Gly Asn Thr Ile Met Arg Leu Asp Asp Ser Val
 165 170 175

Phe Glu Gly Leu Glu Arg Leu Arg Glu Leu Asp Leu Gln Arg Asn Tyr
180 185 190

Ile Phe Glu Ile Glu Gly Gly Ala Phe Asp Gly Leu Ala Glu Leu Arg
195 200 205

His Leu Asn Leu Ala Phe Asn Asn Leu Pro Cys Ile Val Asp Phe Gly
210 215 220

Leu Thr Arg Leu Arg Val Leu Asn Val Ser Tyr Asn Val Leu Glu Trp
225 230 235 240

Phe Leu Ala Thr Gly Gly Glu Ala Ala Phe Glu Leu Glu Thr Leu Asp
245 250 255

Leu Ser His Asn Gln Leu Leu Phe Phe Pro Leu Leu Pro Gln Tyr Ser
260 265 270

Lys Leu Arg Thr Leu Leu Leu Arg Asp Asn Asn Met Gly Phe Tyr Arg
275 280 285

Asp Leu Tyr Asn Thr Ser Ser Pro Arg Glu Met Val Ala Gln Phe Leu
290 295 300

Leu Val Asp Gly Asn Val Thr Asn Ile Thr Thr Val Ser Leu Trp Glu
305 310 315 320

Glu Phe Ser Ser Ser Asp Leu Ala Asp Leu Arg Phe Leu Asp Met Ser
325 330 335

Gln Asn Gln Phe Gln Tyr Leu Pro Asp Gly Phe Leu Arg Lys Met Pro
340 345 350

Ser Leu Ser His Leu Asn Leu His Gln Asn Cys Leu Met Thr Leu His
355 360 365

Ile Arg Glu His Glu Pro Pro Gly Ala Leu Thr Glu Leu Asp Leu Ser

370

375

380

His Asn Gln Leu Ser Glu Leu His Leu Ala Pro Gly Leu Ala Ser Cys
 385 390 395 400

Leu Gly Ser Leu Arg Leu Phe Asn Leu Ser Ser Asn Gln Leu Leu Gly
 405 410 415

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

Met Ser His Asn Gln Ile Ser Leu Cys Pro Leu Pro Ala Ala Ser Asp
 435 440 445

Arg Val Gly Pro Pro Ser Cys Val Asp Phe Arg Asn Met Ala Ser Leu
 450 455 460

Arg Ser Leu Ser Leu Glu Gly Cys Gly Leu Gly Ala Leu Pro Asp Cys
 465 470 475 480

Pro Phe Gln Gly Thr Ser Leu Thr Tyr Leu Asp Leu Ser Ser Asn Trp
 485 490 495

Gly Val Leu Asn Gly Ser Leu Ala Pro Leu Gln Asp Val Ala Pro Met
 500 505 510

Leu Gln Val Leu Ser Leu Arg Asn Met Gly Leu His Ser Ser Phe Met
 515 520 525

Ala Leu Asp Phe Ser Gly Phe Gly Asn Leu Arg Asp Leu Asp Leu Ser
 530 535 540

Gly Asn Cys Leu Thr Thr Phe Pro Arg Phe Gly Gly Ser Leu Ala Leu
 545 550 555 560

Glu Thr Leu Asp Leu Arg Arg Asn Ser Leu Thr Ala Leu Pro Gln Lys
 565 570 575

Ala Val Ser Glu Gln Leu Ser Arg Gly Leu Arg Thr Ile Tyr Leu Ser
580 585 590

Gln Asn Pro Tyr Asp Cys Cys Gly Val Asp Gly Trp Gly Ala Leu Gln
595 600 605

His Gly Gln Thr Val Ala Asp Trp Ala Met Val Thr Cys Asn Leu Ser
610 615 620

Ser Lys Ile Ile Arg Val Thr Glu Leu Pro Gly Gly Val Pro Arg Asp
625 630 635 640

Cys Lys Trp Glu Arg Leu Asp Leu Gly Leu Leu Tyr Leu Val Leu Ile
645 650 655

Leu Pro Ser Cys Leu Thr Leu Leu Val Ala Cys Thr Val Ile Val Leu
660 665 670

Thr Phe Lys Lys Pro Leu Leu Gln Val Ile Lys Ser Arg Cys His Trp
675 680 685

Ser Ser Val Tyr
690

<210> 43

<211> 660

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 43

Met Asp Met Arg Val Pro Ala Gln Leu Leu Gly Leu Leu Leu Leu Trp
1 5 10 15

Phe Ser Gly Val Leu Gly Trp Arg Asn Arg Ser Gly Thr Ala Thr Ala
20 25 30

Ala Ser Gln Gly Val Cys Lys Leu Val Gly Gly Ala Ala Asp Cys Arg
35 40 45

Gly Gln Ser Leu Ala Ser Val Pro Ser Ser Leu Pro Pro His Ala Arg
50 55 60

Met Leu Thr Leu Asp Ala Asn Pro Leu Lys Thr Leu Trp Asn His Ser
65 70 75 80

Leu Gln Pro Tyr Pro Leu Leu Glu Ser Leu Ser Leu His Ser Cys His
85 90 95

Leu Glu Arg Ile Ser Arg Gly Ala Phe Gln Glu Gln Gly His Leu Arg
100 105 110

Ser Leu Val Leu Gly Asp Asn Cys Leu Ser Glu Asn Tyr Glu Glu Thr
115 120 125

Ala Ala Ala Leu His Ala Leu Pro Gly Leu Arg Arg Leu Asp Leu Ser
130 135 140

Gly Asn Ala Leu Thr Glu Asp Met Ala Ala Leu Met Leu Gln Asn Leu
145 150 155 160

Ser Ser Leu Arg Ser Val Ser Leu Ala Gly Asn Thr Ile Met Arg Leu
165 170 175

Asp Asp Ser Val Phe Glu Gly Leu Glu Arg Leu Arg Glu Leu Asp Leu
180 185 190

Gln Arg Asn Tyr Ile Phe Glu Ile Glu Gly Gly Ala Phe Asp Gly Leu
195 200 205

Ala Glu Leu Arg His Leu Asn Leu Ala Phe Asn Asn Leu Pro Cys Ile
210 215 220

Val Asp Phe Gly Leu Thr Arg Leu Arg Val Leu Asn Val Ser Tyr Asn
 225 230 235 240

Val Leu Glu Trp Phe Leu Ala Thr Gly Gly Glu Ala Ala Phe Glu Leu
 245 250 255

Glu Thr Leu Asp Leu Ser His Asn Gln Leu Leu Phe Phe Pro Leu Leu
 260 265 270

Pro Gln Tyr Ser Lys Leu Arg Thr Leu Leu Leu Arg Asp Asn Asn Met
 275 280 285

Gly Phe Tyr Arg Asp Leu Tyr Asn Thr Ser Ser Pro Arg Glu Met Val
 290 295 300

Ala Gln Phe Leu Leu Val Asp Gly Asn Val Thr Asn Ile Thr Thr Val
 305 310 315 320

Ser Leu Trp Glu Glu Phe Ser Ser Ser Asp Leu Ala Asp Leu Arg Phe
 325 330 335

Leu Asp Met Ser Gln Asn Gln Phe Gln Tyr Leu Pro Asp Gly Phe Leu
 340 345 350

Arg Lys Met Pro Ser Leu Ser His Leu Asn Leu His Gln Asn Cys Leu
 355 360 365

Met Thr Leu His Ile Arg Glu His Glu Pro Pro Gly Ala Leu Thr Glu
 370 375 380

Leu Asp Leu Ser His Asn Gln Leu Ser Glu Leu His Leu Ala Pro Gly
 385 390 395 400

Leu Ala Ser Cys Leu Gly Ser Leu Arg Leu Phe Asn Leu Ser Ser Asn
 405 410 415

Gln Leu Leu Gly Val Pro Pro Gly Leu Phe Ala Asn Ala Arg Asn Ile
 420 425 430

Thr Thr Leu Asp Met Ser His Asn Gln Ile Ser Leu Cys Pro Leu Pro
435 440 445

Ala Ala Ser Asp Arg Val Gly Pro Pro Ser Cys Val Asp Phe Arg Asn
450 455 460

Met Ala Ser Leu Arg Ser Leu Ser Leu Glu Gly Cys Gly Leu Gly Ala
465 470 475 480

Leu Pro Asp Cys Pro Phe Gln Gly Thr Ser Leu Thr Tyr Leu Asp Leu
485 490 495

Ser Ser Asn Trp Gly Val Leu Asn Gly Ser Leu Ala Pro Leu Gln Asp
500 505 510

Val Ala Pro Met Leu Gln Val Leu Ser Leu Arg Asn Met Gly Leu His
515 520 525

Ser Ser Phe Met Ala Leu Asp Phe Ser Gly Phe Gly Asn Leu Arg Asp
530 535 540

Leu Asp Leu Ser Gly Asn Cys Leu Thr Thr Phe Pro Arg Phe Gly Gly
545 550 555 560

Ser Leu Ala Leu Glu Thr Leu Asp Leu Arg Arg Asn Ser Leu Thr Ala
565 570 575

Leu Pro Gln Lys Ala Val Ser Glu Gln Leu Ser Arg Gly Leu Arg Thr
580 585 590

Ile Tyr Leu Ser Gln Asn Pro Tyr Asp Cys Cys Gly Val Asp Gly Trp
595 600 605

Gly Ala Leu Gln His Gly Gln Thr Val Ala Asp Trp Ala Met Val Thr
610 615 620

Cys Asn Leu Ser Ser Lys Ile Ile Arg Val Thr Glu Leu Pro Gly Gly
625 630 635 640

Val Pro Arg Asp Cys Lys Trp Glu Arg Leu Asp Leu Gly Leu His His
645 650 655

His His His His
660

<210> 44
<211> 689
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 44
Met Asp Met Arg Val Pro Ala Gln Leu Leu Gly Leu Leu Leu Leu Trp
1 5 10 15

Phe Ser Gly Val Leu Gly Trp Arg Asn Arg Ser Gly Thr Ala Thr Ala
20 25 30

Ala Ser Gln Gly Val Cys Lys Leu Val Gly Gly Ala Ala Asp Cys Arg
35 40 45

Gly Gln Ser Leu Ala Ser Val Pro Ser Ser Leu Pro Pro His Ala Arg
50 55 60

Met Leu Thr Leu Asp Ala Asn Pro Leu Lys Thr Leu Trp Asn His Ser
65 70 75 80

Leu Gln Pro Tyr Pro Leu Leu Glu Ser Leu Ser Leu His Ser Cys His
85 90 95

Leu Glu Arg Ile Ser Arg Gly Ala Phe Gln Glu Gln Gly His Leu Arg
100 105 110

Ser Leu Val Leu Gly Asp Asn Cys Leu Ser Glu Asn Tyr Glu Glu Thr
115 120 125

Ala Ala Ala Leu His Ala Leu Pro Gly Leu Arg Arg Leu Asp Leu Ser
130 135 140

Gly Asn Ala Leu Thr Glu Asp Met Ala Ala Leu Met Leu Gln Asn Leu
145 150 155 160

Ser Ser Leu Arg Ser Val Ser Leu Ala Gly Asn Thr Ile Met Arg Leu
165 170 175

Asp Asp Ser Val Phe Glu Gly Leu Glu Arg Leu Arg Glu Leu Asp Leu
180 185 190

Gln Arg Asn Tyr Ile Phe Glu Ile Glu Gly Gly Ala Phe Asp Gly Leu
195 200 205

Ala Glu Leu Arg His Leu Asn Leu Ala Phe Asn Asn Leu Pro Cys Ile
210 215 220

Val Asp Phe Gly Leu Thr Arg Leu Arg Val Leu Asn Val Ser Tyr Asn
225 230 235 240

Val Leu Glu Trp Phe Leu Ala Thr Gly Gly Glu Ala Ala Phe Glu Leu
245 250 255

Glu Thr Leu Asp Leu Ser His Asn Gln Leu Leu Phe Phe Pro Leu Leu
260 265 270

Pro Gln Tyr Ser Lys Leu Arg Thr Leu Leu Leu Arg Asp Asn Asn Met
275 280 285

Gly Phe Tyr Arg Asp Leu Tyr Asn Thr Ser Ser Pro Arg Glu Met Val
290 295 300

Ala Gln Phe Leu Leu Val Asp Gly Asn Val Thr Asn Ile Thr Thr Val

305		310		315		320									
Ser	Leu	Trp	Glu	Glu	Phe	Ser	Ser	Ser	Asp	Leu	Ala	Asp	Leu	Arg	Phe
			325						330					335	
Leu	Asp	Met	Ser	Gln	Asn	Gln	Phe	Gln	Tyr	Leu	Pro	Asp	Gly	Phe	Leu
		340						345					350		
Arg	Lys	Met	Pro	Ser	Leu	Ser	His	Leu	Asn	Leu	His	Gln	Asn	Cys	Leu
		355					360					365			
Met	Thr	Leu	His	Ile	Arg	Glu	His	Glu	Pro	Pro	Gly	Ala	Leu	Thr	Glu
	370					375					380				
Leu	Asp	Leu	Ser	His	Asn	Gln	Leu	Ser	Glu	Leu	His	Leu	Ala	Pro	Gly
385					390					395					400
Leu	Ala	Ser	Cys	Leu	Gly	Ser	Leu	Arg	Leu	Phe	Asn	Leu	Ser	Ser	Asn
			405					410						415	
Gln	Leu	Leu	Gly	Val	Pro	Pro	Gly	Leu	Phe	Ala	Asn	Ala	Arg	Asn	Ile
		420					425						430		
Thr	Thr	Leu	Asp	Met	Ser	His	Asn	Gln	Ile	Ser	Leu	Cys	Pro	Leu	Pro
		435					440					445			
Ala	Ala	Ser	Asp	Arg	Val	Gly	Pro	Pro	Ser	Cys	Val	Asp	Phe	Arg	Asn
	450					455					460				
Met	Ala	Ser	Leu	Arg	Ser	Leu	Ser	Leu	Glu	Gly	Cys	Gly	Leu	Gly	Ala
465					470					475					480
Leu	Pro	Asp	Cys	Pro	Phe	Gln	Gly	Thr	Ser	Leu	Thr	Tyr	Leu	Asp	Leu
			485						490					495	
Ser	Ser	Asn	Trp	Gly	Val	Leu	Asn	Gly	Ser	Leu	Ala	Pro	Leu	Gln	Asp
		500						505						510	

Val Ala Pro Met Leu Gln Val Leu Ser Leu Arg Asn Met Gly Leu His
515 520 525

Ser Ser Phe Met Ala Leu Asp Phe Ser Gly Phe Gly Asn Leu Arg Asp
530 535 540

Leu Asp Leu Ser Gly Asn Cys Leu Thr Thr Phe Pro Arg Phe Gly Gly
545 550 555 560

Ser Leu Ala Leu Glu Thr Leu Asp Leu Arg Arg Asn Ser Leu Thr Ala
565 570 575

Leu Pro Gln Lys Ala Val Ser Glu Gln Leu Ser Arg Gly Leu Arg Thr
580 585 590

Ile Tyr Leu Ser Gln Asn Pro Tyr Asp Cys Cys Gly Val Asp Gly Trp
595 600 605

Gly Ala Leu Gln His Gly Gln Thr Val Ala Asp Trp Ala Met Val Thr
610 615 620

Cys Asn Leu Ser Ser Lys Ile Ile Arg Val Thr Glu Leu Pro Gly Gly
625 630 635 640

Val Pro Arg Asp Cys Lys Trp Glu Arg Leu Asp Leu Gly Leu Leu Ile
645 650 655

Ile Ile Leu Thr Phe Ile Leu Val Ser Ala Ile Leu Leu Thr Thr Leu
660 665 670

Ala Ala Cys Cys Cys Val Arg Arg Gln Lys Phe Asn Gln Gln Tyr Lys
675 680 685

Ala

<210> 45

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 45
Cys Pro Pro Cys Pro
1 5

<210> 46

<400> 46
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<210> 47

<400> 47
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<210> 48

<400> 48
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<210> 49

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<210> 50

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<210> 70

<400> 70
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<210> 71

<400> 71
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<210> 72

<400> 72
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<210> 73

<400> 73
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<210> 74

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 74

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

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

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

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

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

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

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

Thr Leu Val Thr Val Ser Ser
115

<210> 75

<211> 110

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 75

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

Ser Val Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr
20 25 30

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

Met Ile Tyr Asp Val Ser Lys Arg Pro Ser Gly Val Pro Asp Arg Phe
50 55 60

Ser Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu
65 70 75 80

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

Ser Thr Tyr Val Phe Gly Thr Gly Thr Lys Leu Thr Val Leu
100 105 110

<210> 76

<211> 117

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 76

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

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

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

Gly Glu Ile Ile His Ser Gly Ser Thr Asn Tyr Asn Pro Ser Leu Lys
50 55 60

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

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

Arg Gly Val Gly Leu Gly Arg Phe Asp Pro Trp Gly Gln Gly Thr Leu

100

105

110

Val Thr Val Ser Ser
115

<210> 77

<211> 110

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 77

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

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

Thr Val Asn Trp Tyr Gln Gln Phe Pro Gly Thr Ala Pro Lys Leu Leu
35 40 45

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

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

Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Thr Trp Asp Asp Ser Leu
85 90 95

Ser Gly Val Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
100 105 110

<210> 78

<211> 117

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 78

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

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

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

Gly Glu Ile Asn His Ser Gly Ser Thr Asn Tyr Asn Pro Ser Leu Lys
50 55 60

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

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

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

Val Thr Val Ser Ser
115

<210> 79

<211> 110

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 79

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

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

Thr Val Asn Trp Tyr Gln Gln Phe Pro Gly Thr Ala Pro Lys Leu Leu
35 40 45

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

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

Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Thr Trp Asp Asp Ser Leu
85 90 95

Ser Gly Val Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
100 105 110

<210> 80

<211> 122

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 80

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

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

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

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

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

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

Tyr Tyr Cys Ala Arg Gly Glu Asp Trp Gly Tyr Ala Phe Asp Ile Trp
100 105 110

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

<210> 81
<211> 110
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 81
Asn Phe Met Leu Thr Gln Pro His Ser Val Ser Glu Ser Pro Gly Lys
1 5 10 15

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

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

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

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

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

Ser Asn Val Val Phe Gly Gly Gly Thr Lys Val Thr Val Leu
100 105 110

<210> 82
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 82
Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
1 5 10 15

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

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

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

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

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

Ala Arg Asn Pro Tyr Tyr Tyr Tyr Met Asp Val Trp Gly Gln Gly Thr
100 105 110

Thr Val Thr Val Ser Ser

<210> 83
 <211> 110
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 83
 Gln Ser Glu Leu Thr Gln Ala Pro Ser Val Ser Val Ala Pro Gly Gln
 1 5 10 15

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

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

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

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

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

Asp His Val Val Phe Gly Gly Gly Thr Lys Val Thr Val Leu
 100 105 110

<210> 84
 <211> 118
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic

polypeptide"

<400> 84

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

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

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

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

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

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

Ala Asn Arg Arg Arg Gly Ser Ala Phe Asp Ile Trp Gly Gln Gly Thr
100 105 110

Leu Val Thr Val Ser Ser
115

<210> 85

<211> 111

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 85

Asn Phe Met Leu Thr Gln Pro His Ser Val Ser Glu Ser Pro Gly Lys
1 5 10 15

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

Tyr Val Gln Trp Tyr Gln Gln Arg Pro Gly Ser Ser Pro Thr Thr Val
35 40 45

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

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

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

Asn Tyr His Val Ile Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
100 105 110

<210> 86

<211> 118

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 86

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

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

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

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

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

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

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

Met Val Thr Val Ser Ser
115

<210> 87

<211> 111

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 87

Asn Phe Met Leu Thr Gln Pro His Ser Val Ser Glu Ser Pro Gly Arg
1 5 10 15

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

Tyr Val His Trp Tyr Gln Gln Arg Pro Gly Ser Ala Pro Thr Thr Val
35 40 45

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

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

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

Ser Asn Gln Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
100 105 110

<210> 88
<211> 121
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 88
Gln Leu Gln Leu Gln Glu Ser Gly Gly Gly Val Val Gln Pro Gly Arg
1 5 10 15

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

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

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

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

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

Ala Arg Pro Arg Ile Ala Ala Arg Arg Gly Gly Phe Asp Tyr Trp Gly
100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 89

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 89
Asn Phe Met Leu Thr Gln Pro His Ser Val Ser Glu Ser Pro Gly Lys
1 5 10 15

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

Tyr Val Gln Trp Tyr Gln Gln Arg Pro Gly Ser Ser Pro Thr Thr Val
35 40 45

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

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

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

Asp Asn Gln Gly Val Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
100 105 110

<210> 90
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 90
Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala

1 5 10 15
 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr
 20 25 30
 Gly Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
 35 40 45
 Gly Trp Ile Ser Ala Tyr Asn Gly Asn Thr Asp Tyr Ala Gln Lys Leu
 50 55 60
 Gln Gly Arg Val Thr Met Thr Thr Asp Thr Ser Thr Ser Thr Ala Tyr
 65 70 75 80
 Met Glu Leu Arg Gly Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Arg Ala Pro Leu Gly Asn Phe Asp Ser Trp Gly Gln Gly Thr Leu
 100 105 110
 Val Thr Val Ser Ser
 115

<210> 91
 <211> 111
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 polypeptide"

<400> 91
 Asn Phe Met Leu Thr Gln Pro His Ser Val Ser Glu Ser Pro Gly Lys
 1 5 10 15

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

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

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

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

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

Ser Asn His Val Val Phe Gly Gly Gly Thr Lys Val Thr Val Leu
100 105 110

<210> 92

<211> 126

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 92

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

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

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

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

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

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

Ala Lys Asp Leu Glu Gly Gly Tyr Tyr Trp Asp Tyr Tyr Tyr Tyr Gly
100 105 110

Met Asp Val Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
115 120 125

<210> 93

<211> 110

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 93

Asn Phe Met Leu Thr Gln Pro His Ser Val Ser Glu Ser Pro Gly Lys
1 5 10 15

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

Tyr Val Gln Trp Tyr Gln Gln Arg Pro Gly Ser Ser Pro Thr Thr Val
35 40 45

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

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

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

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

<210> 94
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 94
Phe Thr Phe Asn Asn Tyr Pro Ile His
1 5

<210> 95
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 95
Val Met Ser Tyr Asp Gly Ile Asn Lys Tyr Tyr Ala Asp Ser Val Lys
1 5 10 15

Gly

<210> 96
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 96
Ala Arg Pro Arg Ile Ala Ala Arg Arg Gly Gly Phe Asp Tyr
1 5 10

<210> 97
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 97
Thr Arg Ser Ser Gly Asn Ile Asp Asn Asn Tyr Val Gln
1 5 10

<210> 98
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 98
Glu Asp Asn Gln Arg Pro Ser
1 5

<210> 99
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 99
Gln Ser Tyr Asp Ser Asp Asn Gln Gly Val Val
1 5 10

<210> 100
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 100
Gly Ser Ile Ser Ser Ser Ser Tyr Tyr Trp Gly
1 5 10

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

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

<210> 102
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 102
Ala Arg Asp Pro Ser Tyr Asp Ser Ile Ala Gly Met Asp Val
1 5 10

<210> 103
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 103
Arg Ala Ser Gln Ser Ile Ser Ser Tyr Leu Asn
1 5 10

<210> 104
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 104
Ala Ala Ser Asn Leu Gln Ser
1 5

<210> 105
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 105
Gln Gln Ser Phe Asp Phe Pro Phe Thr
1 5

<210> 106
<211> 122
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 106
Gln Leu Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Glu
1 5 10 15

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

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

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

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

Ser Leu Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr
85 90 95

Cys Ala Arg Asp Pro Ser Tyr Asp Ser Ile Ala Gly Met Asp Val Trp
100 105 110

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

<210> 107

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 107

Asp Ile Gln Leu 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 Ser Ile Ser Ser Tyr
20 25 30

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

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

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

<210> 108

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 108

Phe Thr Phe Arg Ser Tyr Val Met His
1 5

<210> 109

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 109

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

Gly

<210> 110
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 110
Ala Val Pro Arg Ile Ala Ala Arg Arg Gly Gly Phe Gly Tyr
1 5 10

<210> 111
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 111
Thr Arg Ser Ser Gly Asn Ile Asp Asn Asn Tyr Val Gln
1 5 10

<210> 112
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 112
Glu Asp Asn Gln Arg Pro Ser
1 5

<210> 113
<211> 11
<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 113

Gln Ser Tyr Asp Ser Asp Asn Gln Gly Val Val
1 5 10

<210> 114

<211> 121

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 114

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

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

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

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

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

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

Ala Val Pro Arg Ile Ala Ala Arg Arg Gly Gly Phe Gly Tyr Trp Gly
100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 115

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 115

Asn Phe Met Leu Thr Gln Pro His Ser Val Ser Glu Ser Pro Gly Lys
1 5 10 15

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

Tyr Val Gln Trp Tyr Gln Gln Arg Pro Gly Ser Ser Pro Thr Thr Val
35 40 45

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

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

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

Asp Asn Gln Gly Val Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
100 105 110

<210> 116

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 116
Phe Thr Phe Arg Ser Tyr Val Met His
1 5

<210> 117
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 117
Val Ile Ser His Glu Gly Ser Leu Lys Tyr Tyr Ala Asp Ser Val Lys
1 5 10 15

Gly

<210> 118
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 118
Ala Arg Pro Arg Ile Ala Ala Arg Arg Gly Gly Phe Gly Tyr
1 5 10

<210> 119
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
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<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 119

Thr Arg Ser Ser Gly Asn Ile Asp Asn Asn Tyr Val Gln
1 5 10

<210> 120

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 120

Glu Asp Asn Gln Arg Pro Ser
1 5

<210> 121

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 121

Gln Ser Tyr Asp Ser Asp Asn Gln Gly Val Val
1 5 10

<210> 122

<211> 121

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 122

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

Tyr Val Gln Trp Tyr Gln Gln Arg Pro Gly Ser Ser Pro Thr Thr Val
35 40 45

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

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

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

Asp Asn Gln Gly Val Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
100 105 110

<210> 124
<211> 9
<212> PRT
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<220>
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<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 124
Phe Thr Phe Arg Ser Tyr Val Met His
1 5

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

<220>
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<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 125
Val Ile Ser His Glu Gly Ser Leu Lys Tyr Tyr Ala Asp Ser Val Lys
1 5 10 15

Gly

<210> 126
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 126
Ala Val Pro Arg Ile Ala Ala Arg Arg Gly Gly Phe Gly Tyr
1 5 10

<210> 127
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
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<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 127
Thr Arg Ser Ser Gly Asn Ile Asp Asn Asn Tyr Val Gln
1 5 10

<210> 128
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 128
Glu Asp Asn Gln Arg Pro Ser
1 5

<210> 129

<211> 11
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<220>
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<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 129
Gln Ser Tyr Asp Phe Asn Asn Gln Gly Val Val
1 5 10

<210> 130
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 130
Phe Thr Phe Arg Ser Tyr Val Met His
1 5

<210> 131
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

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

Gly

<210> 132
<211> 14

<212> PRT
<213> Artificial Sequence

<220>
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<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 132
Ala Val Pro Arg Ile Ala Ala Arg Arg Gly Gly Phe Gly Tyr
1 5 10

<210> 133
<211> 13
<212> PRT
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<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 133
Thr Arg Ser Ser Gly Asn Ile Asp Asn Asn Tyr Val Gln
1 5 10

<210> 134
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 134
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1 5

<210> 135
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<213> Artificial Sequence

<220>
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<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 135

Gln Ser Tyr Asp Tyr Asp Ala Gln Gly Val Val
1 5 10

<210> 136

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 136

Phe Thr Phe Arg Ser Tyr Val Met His
1 5

<210> 137

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 137

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

Gly

<210> 138

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic

peptide"

<400> 138

Ala Val Pro Arg Ile Ala Ala Arg Arg Gly Gly Phe Gly Tyr
1 5 10

<210> 139

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 139

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

<210> 140

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 140

Glu Asp Asn Gln Arg Pro Ser
1 5

<210> 141

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 141

Gln Ser Tyr Asp Ser Asp Leu Gln Arg Val Val
1 5 10

<210> 142
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<212> PRT
<213> Artificial Sequence

<220>
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<400> 142
Phe Thr Phe Arg Ser Tyr Val Met His
1 5

<210> 143
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<212> PRT
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<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 143
Val Ile Ser His Glu Gly Ser Leu Lys Tyr Tyr Ala Asp Ser Val Lys
1 5 10 15

Gly

<210> 144
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
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<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 144
Ala Val Pro Arg Ile Ala Ala Arg Arg Gly Gly Phe Gly Tyr
1 5 10

<210> 145
<211> 13
<212> PRT
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<220>
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<400> 145
Thr Arg Ser Ser Gly Ser Ile Asp Asn Asn Tyr Val Gln
1 5 10

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

<220>
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<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 146
Glu Asp Phe Ile Arg Pro Ser
1 5

<210> 147
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
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<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 147
Gln Ser Tyr Asp Asp Asp Leu Gln Gly Val Val
1 5 10

<210> 148
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
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<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 148
Phe Thr Phe Arg Ser Tyr Val Met His
1 5

<210> 149
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 149
Val Ile Ser His Glu Gly Ser Leu Lys Tyr Tyr Ala Asp Ser Val Lys
1 5 10 15

Gly

<210> 150
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 150
Ala Val Pro Arg Ile Ala Ala Arg Arg Gly Gly Phe Gly Tyr
1 5 10

<210> 151
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<220>
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<400> 151
Thr Arg Ser Ser Gly Leu Ile Asp Asp Asn Tyr Val Gln
1 5 10

<210> 152
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<220>
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<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 152
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1 5

<210> 153
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<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 153
Gln Ser Tyr Asp His Asp Glu Gln Gly Val Val
1 5 10

<210> 154
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<212> PRT
<213> Artificial Sequence

<220>
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<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 154
Phe Thr Phe Arg Ser Tyr Val Met His
1 5

<210> 155
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<213> Artificial Sequence

<220>
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<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 155
Val Ile Ser His Glu Gly Ser Leu Lys Tyr Tyr Ala Asp Ser Val Lys
1 5 10 15

Gly

<210> 156
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 156
Ala Arg Pro Arg Ile Ala Ala Arg Arg Gly Gly Phe Gly Tyr
1 5 10

<210> 157
<211> 13
<212> PRT
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<220>
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<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 157

Thr Arg Ser Ser Gly Asn Ile Asp Asn Asn Tyr Val Gln
1 5 10

<210> 158

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 158

Glu Asp Asn Gln Arg Pro Ser
1 5

<210> 159

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

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<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 159

Gln Ser Tyr Asp Tyr Ser Asn Gln Gly Val Val
1 5 10

<210> 160

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

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<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 160

Phe Thr Phe Arg Ser Tyr Val Met His
1 5

<210> 161

<211> 17
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<220>
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<400> 161
Val Ile Ser His Glu Gly Ser Leu Lys Tyr Tyr Ala Asp Ser Val Lys
1 5 10 15

Gly

<210> 162
<211> 14
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<213> Artificial Sequence

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<221> source
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<400> 162
Ala Arg Pro Arg Ile Ala Ala Arg Arg Gly Gly Phe Gly Tyr
1 5 10

<210> 163
<211> 13
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<400> 163
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1 5 10

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<400> 164
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1 5

<210> 165
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<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 165
Gln Ser Tyr Asp Tyr Asp Asn Gln Ala Val Val
1 5 10

<210> 166
<211> 9
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<400> 166
Phe Thr Phe Arg Ser Tyr Val Met His
1 5

<210> 167
<211> 17
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<213> Artificial Sequence

<220>
<221> source

<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 167

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

Gly

<210> 168

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

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<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 168

Ala Arg Pro Arg Ile Ala Ala Arg Arg Gly Gly Phe Gly Tyr
1 5 10

<210> 169

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

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<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 169

Thr Arg Ser Ser Gly Asn Ile Asp Asn Asn Tyr Val Gln
1 5 10

<210> 170

<211> 7

<212> PRT

<213> Artificial Sequence

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<223> /note="Description of Artificial Sequence: Synthetic

peptide"

<400> 170

Glu Asp Asn Gln Arg Pro Ser

1 5

<210> 171

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 171

Gln Ser Tyr Asp Tyr Asp Thr Gln Gly Val Val

1 5 10

<210> 172

<211> 9

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<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 172

Phe Thr Phe Arg Ser Tyr Val Met His

1 5

<210> 173

<211> 17

<212> PRT

<213> Artificial Sequence

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<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 173

Val Ile Ser His Glu Gly Ser Leu Lys Tyr Tyr Ala Asp Ser Val Lys

1 5 10 15

Gly

<210> 174
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<400> 174
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1 5 10

<210> 175
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<400> 175
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<400> 176
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1 5

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<400> 177
Gln Ser Tyr Asp Ser Asp Asn Gln Arg Val Val
1 5 10

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<400> 178
Phe Thr Phe Arg Ser Tyr Val Met His
1 5

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<400> 179
Val Ile Ser His Glu Gly Ser Leu Lys Tyr Tyr Ala Asp Ser Val Lys
1 5 10 15

Gly

<210> 180
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<400> 180
Ala Arg Pro Arg Ile Ala Ala Arg Arg Gly Gly Phe Gly Tyr
1 5 10

<210> 181
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<400> 181
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1 5 10

<210> 182
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<400> 182
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<210> 183
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<400> 183
Gln Ser Tyr Asp Ser Asp Asn Gln Leu Val Val
1 5 10

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<400> 184
Phe Thr Phe Arg Ser Tyr Val Met His
1 5

<210> 185
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<400> 185
Val Ile Ser His Glu Gly Ser Leu Lys Tyr Tyr Ala Asp Ser Val Lys
1 5 10 15

Gly

<210> 186
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<400> 186
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1 5 10

<210> 187
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<400> 187
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1 5 10

<210> 188
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<400> 188
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1 5

<210> 189
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<400> 189

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Gly

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Gly

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Gly

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Gly

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Gly

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<210> 286

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 286

Gly Ser Ile Arg Ser Ser Ser Tyr Tyr Trp Gly
1 5 10

<210> 287

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 287

Ser Ile Ser Tyr Ser Ala Thr Thr Tyr Tyr
1 5 10

<210> 288

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 288

Ala Ser Asp Pro Ser Tyr Asp Ser Ala Ala Gly Met Asp Val

1 5 10

<210> 289
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 289
Arg Ala Ser Lys Val Ile Ser Ser Tyr Leu Asn
1 5 10

<210> 290
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 290
Tyr Ala Ser Ser Leu Gln Ser
1 5

<210> 291
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 291
Gln Gln Ser Asn Asp Trp Pro Phe Thr
1 5

<210> 292
<211> 11

<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 292
Gly Ser Ile Arg Ser Ser Ser Tyr Tyr Trp Gly
1 5 10

<210> 293
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 293
Ser Ile Ser Tyr Ser Ala Thr Thr Tyr Tyr
1 5 10

<210> 294
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 294
Ala Gly Asp Pro Ser Tyr Asp Ser Ile Ala Gly Met Gln Val
1 5 10

<210> 295
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<221> source

<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 295

Arg Ala Ser Gln Ser Ile Ser Ser Tyr Leu Asn
1 5 10

<210> 296

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 296

Ala Ala Ser Asn Leu Gln Ser
1 5

<210> 297

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 297

Gln Gln Ser Phe Asp Trp Pro Leu Thr
1 5

<210> 298

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 298

Gly Ser Ile Arg Ser Ser Ser Tyr Tyr Trp Gly

1 5 10

<210> 299
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 299
Ser Ile Ser Tyr Ser Ala Thr Thr Tyr Tyr
1 5 10

<210> 300
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 300
Ala Gly Asp Pro Ser Tyr Asp Ser Ile Ala Gly Met Gln Val
1 5 10

<210> 301
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 301
Arg Ala Ser Gln Ser Ile Ser Tyr Tyr Leu Asn
1 5 10

<210> 302
<211> 7

<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 302
Ser Ala Ser Ser Arg Gln Ser
1 5

<210> 303
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 303
Gln Gln Gly Phe Asp Phe Pro Leu Thr
1 5

<210> 304
<211> 121
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 304
Gln Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln Pro Gly Arg
1 5 10 15

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

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

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

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

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

Ala Val Pro Arg Ile Ala Ala Arg Arg Gly Gly Phe Gly Tyr Trp Gly
100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 305

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 305

Asn Phe Met Leu Thr Gln Pro His Ser Val Ser Glu Ser Pro Gly Lys
1 5 10 15

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

Tyr Val Gln Trp Tyr Gln Gln Arg Pro Gly Ser Ser Pro Thr Thr Val
35 40 45

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

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

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

Asn Asn Gln Gly Val Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
100 105 110

<210> 306

<211> 121

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 306

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

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

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

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

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

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

Ala Val Pro Arg Ile Ala Ala Arg Arg Gly Gly Phe Gly Tyr Trp Gly
100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser

115

120

<210> 307

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 307

Asn Phe Met Leu Thr Gln Pro His Ser Val Ser Glu Ser Pro Gly Lys
 1 5 10 15

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

Tyr Val Gln Trp Tyr Gln Gln Arg Pro Gly Ser Ser Pro Thr Thr Val
 35 40 45

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

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

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

Asp Ala Gln Gly Val Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
 100 105 110

<210> 308

<211> 121

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic

polypeptide"

<400> 308

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

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

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

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

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

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

Ala Val Pro Arg Ile Ala Ala Arg Arg Gly Gly Phe Gly Tyr Trp Gly
100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 309

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 309

Asn Phe Met Leu Thr Gln Pro His Ser Val Ser Glu Ser Pro Gly Lys
1 5 10 15

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

Tyr Val Gln Trp Tyr Gln Gln Arg Pro Gly Ser Ser Pro Thr Thr Val
35 40 45

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

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

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

Asp Leu Gln Arg Val Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
100 105 110

<210> 310

<211> 121

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 310

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

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

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

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

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

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

Ala Val Pro Arg Ile Ala Ala Arg Arg Gly Gly Phe Gly Tyr Trp Gly
100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 311

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 311

Asn Phe Met Leu Thr Gln Pro His Ser Val Ser Glu Ser Pro Gly Lys
1 5 10 15

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

Tyr Val Gln Trp Tyr Gln Gln Arg Pro Gly Ser Ser Pro Thr Thr Val
35 40 45

Ile Tyr Glu Asp Phe Ile Arg Pro Ser Gly Val Pro Asp Arg Phe Ser
50 55 60

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

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

Asp Leu Gln Gly Val Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
100 105 110

<210> 312
<211> 121
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 312
Gln Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln Pro Gly Arg
1 5 10 15

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

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

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

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

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

Ala Val Pro Arg Ile Ala Ala Arg Arg Gly Gly Phe Gly Tyr Trp Gly
100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 313

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 313
Asn Phe Met Leu Thr Gln Pro His Ser Val Ser Glu Ser Pro Gly Lys
1 5 10 15

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

Tyr Val Gln Trp Tyr Gln Gln Arg Pro Gly Ser Ser Pro Thr Thr Val
35 40 45

Ile Tyr Glu Asp Ala Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser
50 55 60

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

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

Asp Glu Gln Gly Val Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
100 105 110

<210> 314
<211> 121
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 314
Gln Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln Pro Gly Arg

1	5	10	15
Ser	Leu	Arg	Leu
20	Ser	Cys	Ala
	25	Ala	Ser
		Gly	Phe
		Thr	Phe
		Arg	Ser
		30	Tyr
Val	Met	His	Trp
35	Val	Arg	Gln
	40	Ala	Pro
		Gly	Lys
		Gly	Leu
		45	Glu
		Trp	Val
Ala	Val	Ile	Ser
50	His	Glu	Gly
	55	Ser	Leu
		Lys	Tyr
		Tyr	Ala
		60	Asp
		Ser	Val
Lys	Gly	Arg	Phe
65	Thr	Ile	Ser
	70	Arg	Asp
		Asn	Ser
		75	Lys
		Asn	Thr
		Leu	Tyr
		80	
Leu	Gln	Met	Asn
	85	Ser	Leu
		Arg	Ala
		Glu	Asp
		90	Thr
		Ala	Val
		Tyr	Tyr
		95	Cys
Ala	Arg	Pro	Arg
	100	Ile	Ala
		Ala	Arg
		105	Arg
		Gly	Gly
		Phe	Gly
		110	Tyr
		Trp	Gly
Gln	Gly	Thr	Leu
	115	Val	Thr
		Val	Ser
		120	Ser

<210> 315
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 315
Asn Phe Met Leu Thr Gln Pro His Ser Val Ser Glu Ser Pro Gly Lys
1 5 10 15

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

Tyr Val Gln Trp Tyr Gln Gln Arg Pro Gly Ser Ser Pro Thr Thr Val
35 40 45

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

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

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

Ser Asn Gln Gly Val Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
100 105 110

<210> 316

<211> 121

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 316

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

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

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

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

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

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

Ala Arg Pro Arg Ile Ala Ala Arg Arg Gly Gly Phe Gly Tyr Trp Gly
100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 317

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 317

Asn Phe Met Leu Thr Gln Pro His Ser Val Ser Glu Ser Pro Gly Lys
1 5 10 15

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

Tyr Val Gln Trp Tyr Gln Gln Arg Pro Gly Ser Ser Pro Thr Thr Val
35 40 45

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

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

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

Asp Asn Gln Ala Val Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
100 105 110

<210> 318
<211> 121
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 318
Gln Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln Pro Gly Arg
1 5 10 15

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

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

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

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

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

Ala Arg Pro Arg Ile Ala Ala Arg Arg Gly Gly Phe Gly Tyr Trp Gly
100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 319
<211> 112
<212> PRT
<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 319

Asn Phe Met Leu Thr Gln Pro His Ser Val Ser Glu Ser Pro Gly Lys
1 5 10 15

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

Tyr Val Gln Trp Tyr Gln Gln Arg Pro Gly Ser Ser Pro Thr Thr Val
35 40 45

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

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

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

Asp Thr Gln Gly Val Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
100 105 110

<210> 320

<211> 121

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 320

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

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

20

25

30

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

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

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

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

Ala Arg Pro Arg Ile Ala Ala Arg Arg Gly Gly Phe Gly Tyr Trp Gly
 100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 321

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic
 polypeptide"

<400> 321

Asn Phe Met Leu Thr Gln Pro His Ser Val Ser Glu Ser Pro Gly Lys
 1 5 10 15

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

Tyr Val Gln Trp Tyr Gln Gln Arg Pro Gly Ser Ser Pro Thr Thr Val
 35 40 45

Ile Tyr Glu Asp Asn Val Arg Pro Ser Gly Val Pro Asp Arg Phe Ser
50 55 60

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

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

Asp Asn Gln Arg Val Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
100 105 110

<210> 322

<211> 121

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 322

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

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

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

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

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

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

Ala Arg Pro Arg Ile Ala Ala Arg Arg Gly Gly Phe Gly Tyr Trp Gly
100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 323
<211> 112
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 323
Asn Phe Met Leu Thr Gln Pro His Ser Val Ser Glu Ser Pro Gly Lys
1 5 10 15

Thr Val Thr Ile Ser Cys Thr Arg Ser His Gly Asn Ile Asp Asp Asn
20 25 30

Tyr Val Gln Trp Tyr Gln Gln Arg Pro Gly Ser Ser Pro Thr Thr Val
35 40 45

Ile Tyr Glu Asp Asn Val Arg Pro Ser Gly Val Pro Asp Arg Phe Ser
50 55 60

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

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

Asp Asn Gln Leu Val Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
100 105 110

<210> 324
<211> 121

<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 324
Gln Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln Pro Gly Arg
1 5 10 15

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

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

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

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

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

Ala Arg Pro Arg Ile Ala Ala Arg Arg Gly Gly Phe Gly Tyr Trp Gly
100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 325
<211> 112
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 325

Asn Phe Met Leu Thr Gln Pro His Ser Val Ser Glu Ser Pro Gly Lys
1 5 10 15

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

Tyr Val Gln Trp Tyr Gln Gln Arg Pro Gly Ser Ser Pro Thr Thr Val
35 40 45

Ile Tyr Glu Asp Phe Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser
50 55 60

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

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

Asp Leu Gln Gly Val Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
100 105 110

<210> 326

<211> 121

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 326

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

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

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

35

40

45

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

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

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

Ala Arg Pro Arg Ile Ala Ala Arg Arg Gly Gly Phe Gly Ser Trp Gly
 100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 327

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic
 polypeptide"

<400> 327

Asn Phe Met Leu Thr Gln Pro His Ser Val Ser Glu Ser Pro Gly Lys
 1 5 10 15

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

Tyr Val Gln Trp Tyr Gln Gln Arg Pro Gly Ser Ser Pro Thr Thr Val
 35 40 45

Ile Tyr Glu Asp Asn Val Arg Pro Ser Gly Val Pro Asp Arg Phe Ser
 50 55 60

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

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

Asp Asn Gln Arg Val Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
100 105 110

<210> 328

<211> 121

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 328

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

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

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

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

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

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

Ala Arg Pro Arg Ile Ala Ala Arg Arg Gly Gly Phe Gly Ser Trp Gly
100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 329

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 329

Asn Phe Met Leu Thr Gln Pro His Ser Val Ser Glu Ser Pro Gly Lys
1 5 10 15

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

Tyr Val Gln Trp Tyr Gln Gln Arg Pro Gly Ser Ser Pro Thr Thr Val
35 40 45

Ile Tyr Glu Asp Asn Val Arg Pro Ser Gly Val Pro Asp Arg Phe Ser
50 55 60

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

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

Asp Asn Gln Ala Val Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
100 105 110

<210> 330

<211> 121

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 330

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

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

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

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

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

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

Ala Arg Pro Arg Ile Ala Ala Arg Arg Gly Gly Phe Gly Ser Trp Gly
100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 331

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 331

Asn Phe Met Leu Thr Gln Pro His Ser Val Ser Glu Ser Pro Gly Lys
1 5 10 15

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

Tyr Val Gln Trp Tyr Gln Gln Arg Pro Gly Ser Ser Pro Thr Thr Val
35 40 45

Ile Tyr Glu Asp Asn Val Arg Pro Ser Gly Val Pro Asp Arg Phe Ser
50 55 60

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

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

Asp Thr Gln Gly Val Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
100 105 110

<210> 332

<211> 121

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 332

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

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

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

Ala Val Ile Ser His Glu Gly Ser Gly Lys Tyr Tyr Ala Asp Ser Val

50

55

60

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

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

Ala Arg Pro Arg Ile Ala Ala Arg Arg Gly Gly Phe Gly Ser Trp Gly
100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 333

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 333

Asn Phe Met Leu Thr Gln Pro His Ser Val Ser Glu Ser Pro Gly Lys
1 5 10 15

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

Tyr Val Gln Trp Tyr Gln Gln Arg Pro Gly Ser Ser Pro Thr Thr Val
35 40 45

Ile Tyr Glu Asp Asn Val Arg Pro Ser Gly Val Pro Asp Arg Phe Ser
50 55 60

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

Leu Lys Thr Glu Asp Glu Ala Asp Tyr Tyr Cys Gln Gly Tyr Asp Trp
85 90 95

Asp Thr Gln Gly Val Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
100 105 110

<210> 334

<211> 121

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 334

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

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

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

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

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

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

Ala Arg Pro Arg Ile Ala Ala Arg Arg Gly Gly Phe Gly Thr Trp Gly
100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 335
<211> 112
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 335
Asn Phe Met Leu Thr Gln Pro His Ser Val Ser Glu Ser Pro Gly Lys
1 5 10 15

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

Tyr Val Gln Trp Tyr Gln Gln Arg Pro Gly Ser Ser Pro Thr Thr Val
35 40 45

Ile Tyr Glu Asp Asn Val Arg Pro Ser Gly Val Pro Asp Arg Phe Ser
50 55 60

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

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

Asp Asn Gln Arg Val Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
100 105 110

<210> 336
<211> 121
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 336

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

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

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

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

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

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

Ala Arg Pro Arg Ile Ala Ala Arg Arg Gly Gly Phe Gly Thr Trp Gly
100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 337

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 337

Asn Phe Met Leu Thr Gln Pro His Ser Val Ser Glu Ser Pro Gly Lys
1 5 10 15

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

Tyr Val Gln Trp Tyr Gln Gln Arg Pro Gly Ser Ser Pro Thr Thr Val
35 40 45

Ile Tyr Glu Asp Asn Val Arg Pro Ser Gly Val Pro Asp Arg Phe Ser
50 55 60

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

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

Asp Asn Gln Ala Val Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
100 105 110

<210> 338

<211> 121

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 338

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

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

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

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

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

65		70		75		80									
Leu	Gln	Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys
			85						90					95	
Ala	Arg	Pro	Arg	Ile	Ala	Ala	Arg	Arg	Gly	Gly	Phe	Gly	Thr	Trp	Gly
			100					105					110		
Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser							
		115					120								
<210> 339															
<211> 112															
<212> PRT															
<213> Artificial Sequence															
<220>															
<221> source															
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"															
<400> 339															
Asn	Phe	Met	Leu	Thr	Gln	Pro	His	Ser	Val	Ser	Glu	Ser	Pro	Gly	Lys
1				5					10					15	
Thr	Val	Thr	Ile	Ser	Cys	Thr	Arg	Ser	Ser	Gly	Asn	Ile	Asp	Tyr	Asn
			20					25					30		
Tyr	Val	Gln	Trp	Tyr	Gln	Gln	Arg	Pro	Gly	Ser	Ser	Pro	Thr	Thr	Val
		35					40					45			
Ile	Tyr	Glu	Asp	Asn	Val	Arg	Pro	Ser	Gly	Val	Pro	Asp	Arg	Phe	Ser
	50					55					60				
Gly	Ser	Ile	Asp	Ser	Ser	Ser	Asn	Ser	Ala	Ser	Leu	Thr	Ile	Ser	Gly
65				70					75					80	
Leu	Lys	Thr	Glu	Asp	Glu	Ala	Asp	Tyr	Tyr	Cys	Gln	Ser	Tyr	Asp	Tyr
			85						90					95	

Asp Thr Gln Gly Val Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
100 105 110

<210> 340

<211> 121

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 340

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

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

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

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

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

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

Ala Arg Pro Arg Ile Ala Ala Arg Arg Gly Gly Phe Gly Thr Trp Gly
100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 341

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 341

Asn Phe Met Leu Thr Gln Pro His Ser Val Ser Glu Ser Pro Gly Lys
1 5 10 15

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

Tyr Val Gln Trp Tyr Gln Gln Arg Pro Gly Ser Ser Pro Thr Thr Val
35 40 45

Ile Tyr Glu Asp Asn Val Arg Pro Ser Gly Val Pro Asp Arg Phe Ser
50 55 60

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

Leu Lys Thr Glu Asp Glu Ala Asp Tyr Tyr Cys Gln Gly Tyr Asp Trp
85 90 95

Asp Thr Gln Gly Val Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
100 105 110

<210> 342

<211> 121

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 342

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

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

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

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

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

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

Ala Leu Pro Arg Ile Ala Ala Arg Arg Gly Gly Phe Gly Ser Trp Gly
100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 343

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 343

Asn Phe Met Leu Thr Gln Pro His Ser Val Ser Glu Ser Pro Gly Lys
1 5 10 15

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

Tyr Val Gln Trp Tyr Gln Gln Arg Pro Gly Ser Ser Pro Thr Thr Val
35 40 45

Ile Tyr Glu Asp Asn Val Arg Pro Ser Gly Val Pro Asp Arg Phe Ser
50 55 60

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

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

Asp Asn Gln Arg Val Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
100 105 110

<210> 344

<211> 121

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 344

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

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

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

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

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

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

85

90

95

Ala Leu Pro Arg Ile Ala Ala Arg Arg Gly Gly Phe Gly Ser Trp Gly
 100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 345

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic
 polypeptide"

<400> 345

Asn Phe Met Leu Thr Gln Pro His Ser Val Ser Glu Ser Pro Gly Lys
 1 5 10 15

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

Tyr Val Gln Trp Tyr Gln Gln Arg Pro Gly Ser Ser Pro Thr Thr Val
 35 40 45

Ile Tyr Glu Asp Asn Val Arg Pro Ser Gly Val Pro Asp Arg Phe Ser
 50 55 60

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

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

Asp Asn Gln Ala Val Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
 100 105 110

<210> 346
<211> 121
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 346
Gln Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln Pro Gly Arg
1 5 10 15

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

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

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

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

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

Ala Leu Pro Arg Ile Ala Ala Arg Arg Gly Gly Phe Gly Ser Trp Gly
100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 347
<211> 112
<212> PRT
<213> Artificial Sequence

<220>
<221> source

<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 347

Asn Phe Met Leu Thr Gln Pro His Ser Val Ser Glu Ser Pro Gly Lys
1 5 10 15

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

Tyr Val Gln Trp Tyr Gln Gln Arg Pro Gly Ser Ser Pro Thr Thr Val
35 40 45

Ile Tyr Glu Asp Asn Val Arg Pro Ser Gly Val Pro Asp Arg Phe Ser
50 55 60

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

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

Asp Thr Gln Gly Val Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
100 105 110

<210> 348

<211> 121

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 348

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

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

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

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

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

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

Ala Leu Pro Arg Ile Ala Ala Arg Arg Gly Gly Phe Gly Ser Trp Gly
100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 349

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 349

Asn Phe Met Leu Thr Gln Pro His Ser Val Ser Glu Ser Pro Gly Lys
1 5 10 15

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

Tyr Val Gln Trp Tyr Gln Gln Arg Pro Gly Ser Ser Pro Thr Thr Val
35 40 45

Ile Tyr Glu Asp Asn Val Arg Pro Ser Gly Val Pro Asp Arg Phe Ser
50 55 60

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

Leu Lys Thr Glu Asp Glu Ala Asp Tyr Tyr Cys Gln Gly Tyr Asp Trp
85 90 95

Asp Thr Gln Gly Val Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
100 105 110

<210> 350

<211> 121

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 350

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

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

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

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

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

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

Ala Leu Pro Arg Ile Ala Ala Arg Arg Gly Gly Phe Gly Thr Trp Gly

100

105

110

Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 351

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic
 polypeptide"

<400> 351

Asn Phe Met Leu Thr Gln Pro His Ser Val Ser Glu Ser Pro Gly Lys
 1 5 10 15

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

Tyr Val Gln Trp Tyr Gln Gln Arg Pro Gly Ser Ser Pro Thr Thr Val
 35 40 45

Ile Tyr Glu Asp Asn Val Arg Pro Ser Gly Val Pro Asp Arg Phe Ser
 50 55 60

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

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

Asp Asn Gln Arg Val Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
 100 105 110

<210> 352

<211> 121

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 352

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

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

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

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

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

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

Ala Leu Pro Arg Ile Ala Ala Arg Arg Gly Gly Phe Gly Thr Trp Gly
100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 353

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 353

Asn Phe Met Leu Thr Gln Pro His Ser Val Ser Glu Ser Pro Gly Lys
1 5 10 15

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

Tyr Val Gln Trp Tyr Gln Gln Arg Pro Gly Ser Ser Pro Thr Thr Val
35 40 45

Ile Tyr Glu Asp Asn Val Arg Pro Ser Gly Val Pro Asp Arg Phe Ser
50 55 60

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

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

Asp Asn Gln Ala Val Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
100 105 110

<210> 354
<211> 121
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 354
Gln Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln Pro Gly Arg
1 5 10 15

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

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

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

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

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

Ala Leu Pro Arg Ile Ala Ala Arg Arg Gly Gly Phe Gly Thr Trp Gly
100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 355

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 355

Asn Phe Met Leu Thr Gln Pro His Ser Val Ser Glu Ser Pro Gly Lys
1 5 10 15

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

Tyr Val Gln Trp Tyr Gln Gln Arg Pro Gly Ser Ser Pro Thr Thr Val
35 40 45

Ile Tyr Glu Asp Asn Val Arg Pro Ser Gly Val Pro Asp Arg Phe Ser
50 55 60

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

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

Asp Thr Gln Gly Val Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
100 105 110

<210> 356
<211> 121
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 356
Gln Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln Pro Gly Arg
1 5 10 15

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

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

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

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

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

Ala Leu Pro Arg Ile Ala Ala Arg Arg Gly Gly Phe Gly Thr Trp Gly
100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser

115

120

<210> 357

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 357

Asn Phe Met Leu Thr Gln Pro His Ser Val Ser Glu Ser Pro Gly Lys
 1 5 10 15

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

Tyr Val Gln Trp Tyr Gln Gln Arg Pro Gly Ser Ser Pro Thr Thr Val
 35 40 45

Ile Tyr Glu Asp Asn Val Arg Pro Ser Gly Val Pro Asp Arg Phe Ser
 50 55 60

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

Leu Lys Thr Glu Asp Glu Ala Asp Tyr Tyr Cys Gln Gly Tyr Asp Trp
 85 90 95

Asp Thr Gln Gly Val Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
 100 105 110

<210> 358

<211> 122

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic

polypeptide"

<400> 358

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

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

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

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

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

Ser Leu Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr
85 90 95

Cys Ala Ser Asp Pro Ser Tyr Asp Ser Ala Ala Gly Met Asp Val Trp
100 105 110

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

<210> 359

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 359

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 Lys Val Ile Ser Ser 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 Ala Ser Ser Leu Gln 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 Ser Asn Asp Trp Pro Phe
85 90 95

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

<210> 360

<211> 122

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 360

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

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

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

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

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

Ser Leu Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr
85 90 95

Cys Ala Gly Asp Pro Ser Tyr Asp Ser Ile Ala Gly Met Gln Val Trp
100 105 110

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

<210> 361

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 361

Asp Ile Gln Leu 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 Ser Ile Ser Ser Tyr
20 25 30

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

Tyr Ala Ala Ser Asn Leu Gln 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 Ser Phe Asp Trp Pro Leu
85 90 95

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

<210> 362

<211> 122

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 362

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

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

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

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

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

Ser Leu Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr
85 90 95

Cys Ala Gly Asp Pro Ser Tyr Asp Ser Ile Ala Gly Met Gln Val Trp
100 105 110

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

<210> 363

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 363
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 Ser Ile Ser Tyr Tyr
20 25 30

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

Tyr Ser Ala Ser Ser Arg Gln 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 Phe Asp Phe Pro Leu
85 90 95

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

<210> 364
<211> 503
<212> PRT
<213> Homo sapiens

<400> 364
Glu Thr Asp Glu Cys Arg Leu Asn Gln Asn Ile Cys Gly His Gly Glu
1 5 10 15

Cys Val Pro Gly Pro Pro Asp Tyr Ser Cys His Cys Asn Pro Gly Tyr
20 25 30

Arg Ser His Pro Gln His Arg Tyr Cys Val Asp Val Asn Glu Cys Glu
35 40 45

Ala Glu Pro Cys Gly Pro Gly Arg Gly Ile Cys Met Asn Thr Gly Gly
50 55 60

Ser Tyr Asn Cys His Cys Asn Arg Gly Tyr Arg Leu His Val Gly Ala
65 70 75 80

Gly Gly Arg Ser Cys Val Asp Leu Asn Glu Cys Ala Lys Pro His Leu
85 90 95

Cys Gly Asp Gly Gly Phe Cys Ile Asn Phe Pro Gly His Tyr Lys Cys
100 105 110

Asn Cys Tyr Pro Gly Tyr Arg Leu Lys Ala Ser Arg Pro Pro Val Cys
115 120 125

Glu Asp Ile Asp Glu Cys Arg Asp Pro Ser Ser Cys Pro Asp Gly Lys
130 135 140

Cys Glu Asn Lys Pro Gly Ser Phe Lys Cys Ile Ala Cys Gln Pro Gly
145 150 155 160

Tyr Arg Ser Gln Gly Gly Gly Ala Cys Arg Asp Val Asn Glu Cys Ala
165 170 175

Glu Gly Ser Pro Cys Ser Pro Gly Trp Cys Glu Asn Leu Pro Gly Ser
180 185 190

Phe Arg Cys Thr Cys Ala Gln Gly Tyr Ala Pro Ala Pro Asp Gly Arg
195 200 205

Ser Cys Leu Asp Val Asp Glu Cys Glu Ala Gly Asp Val Cys Asp Asn
210 215 220

Gly Ile Cys Ser Asn Thr Pro Gly Ser Phe Gln Cys Gln Cys Leu Ser
 225 230 235 240

Gly Tyr His Leu Ser Arg Asp Arg Ser His Cys Glu Asp Ile Asp Glu
 245 250 255

Cys Asp Phe Pro Ala Ala Cys Ile Gly Gly Asp Cys Ile Asn Thr Asn
 260 265 270

Gly Ser Tyr Arg Cys Leu Cys Pro Gln Gly His Arg Leu Val Gly Gly
 275 280 285

Arg Lys Cys Gln Asp Ile Asp Glu Cys Ser Gln Asp Pro Ser Leu Cys
 290 295 300

Leu Pro His Gly Ala Cys Lys Asn Leu Gln Gly Ser Tyr Val Cys Val
 305 310 315 320

Cys Asp Glu Gly Phe Thr Pro Thr Gln Asp Gln His Gly Cys Glu Glu
 325 330 335

Val Glu Gln Pro His His Lys Lys Glu Cys Tyr Leu Asn Phe Asp Asp
 340 345 350

Thr Val Phe Cys Asp Ser Val Leu Ala Thr Asn Val Thr Gln Gln Glu
 355 360 365

Cys Cys Cys Ser Leu Gly Ala Gly Trp Gly Asp His Cys Glu Ile Tyr
 370 375 380

Pro Cys Pro Val Tyr Ser Ser Ala Glu Phe His Ser Leu Cys Pro Asp
 385 390 395 400

Gly Lys Gly Tyr Thr Gln Asp Asn Asn Ile Val Asn Tyr Gly Ile Pro
 405 410 415

Ala His Arg Asp Ile Asp Glu Cys Met Leu Phe Gly Ser Glu Ile Cys
 420 425 430

Lys Glu Gly Lys Cys Val Asn Thr Gln Pro Gly Tyr Glu Cys Tyr Cys
435 440 445

Lys Gln Gly Phe Tyr Tyr Asp Gly Asn Leu Leu Glu Cys Val Asp Val
450 455 460

Asp Glu Cys Leu Asp Glu Ser Asn Cys Arg Asn Gly Val Cys Glu Asn
465 470 475 480

Thr Arg Gly Gly Tyr Arg Cys Ala Cys Thr Pro Pro Ala Glu Tyr Ser
485 490 495

Pro Ala Gln Arg Gln Cys Leu
500

<210> 365
<211> 503
<212> PRT
<213> Mus sp.

<400> 365
Glu Thr Asp Glu Cys Arg Leu Asn Gln Asn Ile Cys Gly His Gly Gln
1 5 10 15

Cys Val Pro Gly Pro Ser Asp Tyr Ser Cys His Cys Asn Ala Gly Tyr
20 25 30

Arg Ser His Pro Gln His Arg Tyr Cys Val Asp Val Asn Glu Cys Glu
35 40 45

Ala Glu Pro Cys Gly Pro Gly Lys Gly Ile Cys Met Asn Thr Gly Gly
50 55 60

Ser Tyr Asn Cys His Cys Asn Arg Gly Tyr Arg Leu His Val Gly Ala
65 70 75 80

Gly Gly Arg Ser Cys Val Asp Leu Asn Glu Cys Thr Lys Pro His Leu
85 90 95

Cys Gly Asp Gly Gly Phe Cys Ile Asn Phe Pro Gly His Tyr Lys Cys
100 105 110

Asn Cys Tyr Pro Gly Tyr Arg Leu Lys Ala Ser Arg Pro Pro Ile Cys
115 120 125

Glu Asp Ile Asp Glu Cys Arg Asp Pro Ser Thr Cys Pro Asp Gly Lys
130 135 140

Cys Glu Asn Lys Pro Gly Ser Phe Lys Cys Ile Ala Cys Gln Pro Gly
145 150 155 160

Tyr Arg Ser Gln Gly Gly Gly Ala Cys Arg Asp Val Asn Glu Cys Ser
165 170 175

Glu Gly Thr Pro Cys Ser Pro Gly Trp Cys Glu Asn Leu Pro Gly Ser
180 185 190

Tyr Arg Cys Thr Cys Ala Gln Gly Tyr Glu Pro Ala Gln Asp Gly Leu
195 200 205

Ser Cys Ile Asp Val Asp Glu Cys Glu Ala Gly Lys Val Cys Gln Asp
210 215 220

Gly Ile Cys Thr Asn Thr Pro Gly Ser Phe Gln Cys Gln Cys Leu Ser
225 230 235 240

Gly Tyr His Leu Ser Arg Asp Arg Ser Arg Cys Glu Asp Ile Asp Glu
245 250 255

Cys Asp Phe Pro Ala Ala Cys Ile Gly Gly Asp Cys Ile Asn Thr Asn
260 265 270

Gly Ser Tyr Arg Cys Leu Cys Pro Gln Gly His Arg Leu Val Gly Gly
275 280 285

Arg Lys Cys Gln Asp Ile Asp Glu Cys Ser Gln Asp Pro Gly Leu Cys
290 295 300

Leu Pro His Gly Ala Cys Glu Asn Leu Gln Gly Ser Tyr Val Cys Val
305 310 315 320

Cys Asp Glu Gly Phe Thr Leu Thr Gln Asp Gln His Gly Cys Glu Glu
325 330 335

Val Glu Gln Pro His His Lys Lys Glu Cys Tyr Leu Asn Phe Asp Asp
340 345 350

Thr Val Phe Cys Asp Ser Val Leu Ala Thr Asn Val Thr Gln Gln Glu
355 360 365

Cys Cys Cys Ser Leu Gly Ala Gly Trp Gly Asp His Cys Glu Ile Tyr
370 375 380

Pro Cys Pro Val Tyr Ser Ser Ala Glu Phe His Ser Leu Cys Pro Asp
385 390 395 400

Gly Lys Gly Tyr Thr Gln Asp Asn Asn Ile Val Asn Tyr Gly Ile Pro
405 410 415

Ala His Arg Asp Ile Asp Glu Cys Ile Leu Phe Gly Ala Glu Ile Cys
420 425 430

Lys Glu Gly Lys Cys Val Asn Thr Gln Pro Gly Tyr Glu Cys Tyr Cys
435 440 445

Lys Gln Gly Phe Tyr Tyr Asp Gly Asn Leu Leu Glu Cys Val Asp Val
450 455 460

Asp Glu Cys Leu Asp Glu Ser Asn Cys Arg Asn Gly Val Cys Glu Asn
465 470 475 480

Thr Arg Gly Gly Tyr Arg Cys Ala Cys Thr Pro Pro Ala Glu Tyr Ser
485 490 495

Pro Ala Gln Arg Gln Cys Leu
500

<210> 366
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<220>
<221> VARIANT
<222> (8)..(8)
<223> /replace="Gly"

<220>
<221> SITE
<222> (1)..(17)
<223> /note="Variant residues given in the sequence have no
preference with respect to those in the annotations
for variant positions"

<400> 366
Val Ile Ser His Glu Gly Ser Leu Lys Tyr Tyr Ala Asp Ser Val Lys
1 5 10 15

Gly

<210> 367
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<220>

<221> VARIANT
<222> (2)..(2)
<223> /replace="Arg" or "Leu"

<220>
<221> VARIANT
<222> (14)..(14)
<223> /replace="Ser" or "Thr"

<220>
<221> SITE
<222> (1)..(14)
<223> /note="Variant residues given in the sequence have no
preference with respect to those in the annotations
for variant positions"

<400> 367
Ala Val Pro Arg Ile Ala Ala Arg Arg Gly Gly Phe Gly Tyr
1 5 10

<210> 368
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<220>
<221> VARIANT
<222> (4)..(4)
<223> /replace="His"

<220>
<221> VARIANT
<222> (6)..(6)
<223> /replace="Leu" or "Ser" or "Ala"

<220>
<221> VARIANT
<222> (9)..(9)
<223> /replace="Asp" or "Tyr"

<220>
<221> SITE
<222> (1)..(13)

<223> /note="Variant residues given in the sequence have no preference with respect to those in the annotations for variant positions"

<400> 368

Thr Arg Ser Ser Gly Asn Ile Asp Asn Asn Tyr Val Gln

1 5 10

<210> 369

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic peptide"

<220>

<221> VARIANT

<222> (3)..(3)

<223> /replace="Phe" or "Ala"

<220>

<221> VARIANT

<222> (4)..(4)

<223> /replace="Ile" or "Val"

<220>

<221> SITE

<222> (1)..(7)

<223> /note="Variant residues given in the sequence have no preference with respect to those in the annotations for variant positions"

<400> 369

Glu Asp Asn Gln Arg Pro Ser

1 5

<210> 370

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic

peptide"

<220>

<221> VARIANT

<222> (2)..(2)

<223> /replace="Gly"

<220>

<221> VARIANT

<222> (5)..(5)

<223> /replace="Phe" or "Tyr" or "Asp" or "His" or "Trp"

<220>

<221> VARIANT

<222> (6)..(6)

<223> /replace="Asp" or "Ser"

<220>

<221> VARIANT

<222> (7)..(7)

<223> /replace="Ala" or "Leu" or "Glu" or "Thr"

<220>

<221> VARIANT

<222> (9)..(9)

<223> /replace="Arg" or "Ala" or "Leu"

<220>

<221> SITE

<222> (1)..(11)

<223> /note="Variant residues given in the sequence have no preference with respect to those in the annotations for variant positions"

<400> 370

Gln Ser Tyr Asp Ser Asn Asn Gln Gly Val Val

1 5 10

<210> 371

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic peptide"

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<220>
<221> VARIANT
<222> (2)..(2)
<223> /replace="Gly"

<220>
<221> VARIANT
<222> (9)..(9)
<223> /replace="Ile"

<220>
<221> VARIANT
<222> (13)..(13)
<223> /replace="Gln"

<220>
<221> SITE
<222> (1)..(14)
<223> /note="Variant residues given in the sequence have no
        preference with respect to those in the annotations
        for variant positions"

<400> 371
Ala Ser Asp Pro Ser Tyr Asp Ser Ala Ala Gly Met Asp Val
1           5           10

<210> 372
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
        peptide"

<220>
<221> MOD_RES
<222> (4)..(4)
<223> Any amino acid, and optionally Lys or Gln

<220>
<221> MOD_RES
<222> (5)..(5)
<223> Any amino acid, and optionally Val or Ser

<220>

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<221> MOD_RES
<222> (8)..(8)
<223> Any amino acid, and optionally Ser or Tyr

<400> 372
Arg Ala Ser Xaa Xaa Ile Ser Xaa Tyr Leu Asn
1 5 10

<210> 373
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<220>
<221> MOD_RES
<222> (1)..(1)
<223> Any amino acid, and optionally Tyr, Ala or Ser

<220>
<221> MOD_RES
<222> (4)..(4)
<223> Any amino acid, and optionally Ser or Asn

<220>
<221> MOD_RES
<222> (5)..(5)
<223> Any amino acid, and optionally Leu or Arg

<400> 373
Xaa Ala Ser Xaa Xaa Gln Ser
1 5

<210> 374
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<220>
<221> MOD_RES
<222> (3)..(3)
<223> Any amino acid, and optionally Ser or Gly

<220>
<221> MOD_RES
<222> (4)..(4)
<223> Any amino acid, and optionally Phe or Asn

<220>
<221> MOD_RES
<222> (6)..(6)
<223> Any amino acid, and optionally Trp or Phe

<220>
<221> MOD_RES
<222> (8)..(8)
<223> Any amino acid, and optionally Phe or Leu

<400> 374
Gln Gln Xaa Xaa Asp Xaa Pro Xaa Thr
1 5

<210> 375
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<220>
<221> MOD_RES
<222> (4)..(4)
<223> Any amino acid, and optionally Ser or Arg

<220>
<221> MOD_RES
<222> (5)..(5)
<223> Any amino acid, and optionally Gly or Ser

<400> 375
Phe Thr Phe Xaa Xaa Tyr Val Met His
1 5

<210> 376
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<220>
<221> MOD_RES
<222> (1)..(1)
<223> Any amino acid, and optionally Val or Ser

<220>
<221> MOD_RES
<222> (7)..(7)
<223> Any amino acid, and optionally Ser or Gly

<220>
<221> MOD_RES
<222> (8)..(8)
<223> Any amino acid, and optionally Phe or Leu

<400> 376
Xaa Ile Ser His Glu Gly Xaa Xaa Lys Tyr Tyr Ala Asp Ser Val Lys
1 5 10 15

Gly

<210> 377
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<220>
<221> MOD_RES

<222> (1)..(1)
 <223> Any amino acid, and optionally Ala or Val

 <220>
 <221> MOD_RES
 <222> (2)..(2)
 <223> Any amino acid, and optionally Arg, Val, Gly or Lys

 <220>
 <221> MOD_RES
 <222> (4)..(4)
 <223> Any amino acid, and optionally Arg, His or Leu

 <220>
 <221> MOD_RES
 <222> (5)..(5)
 <223> Any amino acid, and optionally Ile, Val or Gly

 <220>
 <221> MOD_RES
 <222> (6)..(6)
 <223> Any amino acid, and optionally Ala, Ser or Leu

 <220>
 <221> MOD_RES
 <222> (7)..(7)
 <223> Any amino acid, and optionally Ala or Val

 <220>
 <221> MOD_RES
 <222> (12)..(12)
 <223> Any amino acid, and optionally Phe or Tyr

 <220>
 <221> MOD_RES
 <222> (13)..(13)
 <223> Any amino acid, and optionally Asp, Gly, Arg or Ser

 <220>
 <221> MOD_RES
 <222> (14)..(14)
 <223> Any amino acid, and optionally Tyr, Gly, Arg, Leu, Val, Ala
 or Lys

 <400> 377
 Xaa Xaa Pro Xaa Xaa Xaa Xaa Arg Arg Gly Gly Xaa Xaa Xaa
 1 5 10

 <210> 378

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Any amino acid, and optionally Ser or Pro

<220>
<221> MOD_RES
<222> (4)..(4)
<223> Any amino acid, and optionally Ser, His or Arg

<220>
<221> MOD_RES
<222> (6)..(6)
<223> Any amino acid, and optionally Ser or Gly

<220>
<221> MOD_RES
<222> (11)..(11)
<223> Any amino acid, and optionally Gly, Ile, Asn or Val

<400> 378
Gly Xaa Ile Xaa Ser Xaa Ser Tyr Tyr Trp Xaa
1 5 10

<210> 379
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<220>
<221> MOD_RES
<222> (7)..(7)
<223> Any amino acid, and optionally Ser or Thr

<400> 379

Ser Ile Ser Tyr Ser Ala Xaa Thr Tyr Tyr Asn Pro Ser Leu Lys Ser
1 5 10 15

<210> 380

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<220>

<221> MOD_RES

<222> (1)..(1)

<223> Any amino acid, and optionally Ala or Val

<220>

<221> MOD_RES

<222> (2)..(2)

<223> Any amino acid, and optionally Arg, Ser or Gly

<220>

<221> MOD_RES

<222> (4)..(4)

<223> Any amino acid, and optionally Pro, Tyr, Arg, Val, Ile, His,
Thr or Glu

<220>

<221> MOD_RES

<222> (5)..(5)

<223> Any amino acid, and optionally Ser, Asp, Glu or Asn

<220>

<221> MOD_RES

<222> (7)..(7)

<223> Any amino acid, and optionally Asp, Ala or Thr

<220>

<221> MOD_RES

<222> (8)..(8)

<223> Any amino acid, and optionally Ser, Gly, Thr or Ala

<220>

<221> MOD_RES

Ser Ile Ser Tyr Ser Xaa Xaa Thr Tyr Tyr
 1 5 10

<210> 382
 <211> 17
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic peptide"

<220>
 <221> VARIANT
 <222> (1)..(1)
 <223> /replace="Ser"

<220>
 <221> VARIANT
 <222> (8)..(8)
 <223> /replace="Leu"

<220>
 <221> SITE
 <222> (1)..(17)
 <223> /note="Variant residues given in the sequence have no preference with respect to those in the annotations for variant positions"

<400> 382
 Val Ile Ser His Glu Gly Ser Phe Lys Tyr Tyr Ala Asp Ser Val Lys
 1 5 10 15

Gly

<210> 383
 <211> 14
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic peptide"

<220>
<221> VARIANT
<222> (2)..(2)
<223> /replace="Val"

<220>
<221> VARIANT
<222> (6)..(6)
<223> /replace="Leu"

<220>
<221> SITE
<222> (1)..(14)
<223> /note="Variant residues given in the sequence have no
preference with respect to those in the annotations
for variant positions"

<400> 383
Ala Arg Pro Arg Ile Ala Ala Arg Arg Gly Gly Phe Gly Tyr
1 5 10

<210> 384
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<220>
<221> VARIANT
<222> (2)..(2)
<223> /replace="Pro"

<220>
<221> VARIANT
<222> (4)..(4)
<223> /replace="Arg"

<220>
<221> VARIANT
<222> (11)..(11)
<223> /replace="Ile" or "Asn"

<220>
<221> SITE
<222> (1)..(11)
<223> /note="Variant residues given in the sequence have no
preference with respect to those in the annotations
for variant positions"

<400> 384
Gly Ser Ile His Ser Ser Ser Tyr Tyr Trp Gly
1 5 10

<210> 385
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<220>
<221> VARIANT
<222> (2)..(2)
<223> /replace="Ser" or "Gly"

<220>
<221> VARIANT
<222> (4)..(4)
<223> /replace="Val"

<220>
<221> VARIANT
<222> (8)..(8)
<223> /replace="Ala"

<220>
<221> VARIANT
<222> (9)..(9)
<223> /replace="Arg" or "Ile" or "Val"

<220>
<221> VARIANT
<222> (13)..(13)
<223> /replace="Gln" or "Gly"

<220>
<221> VARIANT

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<222> (14)..(14)
<223> /replace="Arg"

<220>
<221> SITE
<222> (1)..(14)
<223> /note="Variant residues given in the sequence have no
      preference with respect to those in the annotations
      for variant positions"

<400> 385
Ala Arg Asp Pro Ser Tyr Asp Ser Ala Ala Gly Met Asp Val
1           5           10

<210> 386
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
      peptide"

<220>
<221> VARIANT
<222> (4)..(4)
<223> /replace="His" or "Arg"

<220>
<221> VARIANT
<222> (6)..(6)
<223> /replace="Gly"

<220>
<221> VARIANT
<222> (11)..(11)
<223> /replace="Ile" or "Asn" or "Val"

<220>
<221> SITE
<222> (1)..(11)
<223> /note="Variant residues given in the sequence have no
      preference with respect to those in the annotations
      for variant positions"

<400> 386
Gly Ser Ile Ser Ser Ser Ser Tyr Tyr Trp Gly

```

1

5

10

<210> 387

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic peptide"

<220>

<221> VARIANT

<222> (2)..(2)

<223> /replace="Ser" or "Gly"

<220>

<221> VARIANT

<222> (9)..(9)

<223> /replace="Ile"

<220>

<221> VARIANT

<222> (13)..(13)

<223> /replace="Gln"

<220>

<221> SITE

<222> (1)..(14)

<223> /note="Variant residues given in the sequence have no preference with respect to those in the annotations for variant positions"

<400> 387

Ala Arg Asp Pro Ser Tyr Asp Ser Ala Ala Gly Met Asp Val

1

5

10

<210> 388

<211> 6

<212> PRT

<213> Unknown

<220>

<221> source

<223> /note="Description of Unknown: TGFbeta1 sequence"

<400> 388

Leu Ser Lys Leu Arg Leu

1 5

<210> 389

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic peptide"

<220>

<221> VARIANT

<222> (4)..(4)

<223> /replace="Gln"

<220>

<221> VARIANT

<222> (5)..(5)

<223> /replace="Ser"

<220>

<221> VARIANT

<222> (8)..(8)

<223> /replace="Tyr"

<220>

<221> SITE

<222> (1)..(11)

<223> /note="Variant residues given in the sequence have no preference with respect to those in the annotations for variant positions"

<400> 389

Arg Ala Ser Lys Val Ile Ser Ser Tyr Leu Asn

1 5 10

<210> 390

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

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<221> source
<223> /note="Description of Artificial Sequence: Synthetic
      peptide"

<220>
<221> VARIANT
<222> (1)..(1)
<223> /replace="Ala" or "Ser"

<220>
<221> VARIANT
<222> (4)..(4)
<223> /replace="Asn"

<220>
<221> VARIANT
<222> (5)..(5)
<223> /replace="Arg"

<220>
<221> SITE
<222> (1)..(7)
<223> /note="Variant residues given in the sequence have no
      preference with respect to those in the annotations
      for variant positions"

<400> 390
Tyr Ala Ser Ser Leu Gln Ser
1           5

<210> 391
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
      peptide"

<220>
<221> VARIANT
<222> (3)..(3)
<223> /replace="Gly"

<220>
<221> VARIANT

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<222> (4)..(4)
<223> /replace="Asn"

<220>
<221> VARIANT
<222> (6)..(6)
<223> /replace="Phe"

<220>
<221> VARIANT
<222> (8)..(8)
<223> /replace="Leu"

<220>
<221> SITE
<222> (1)..(9)
<223> /note="Variant residues given in the sequence have no
      preference with respect to those in the annotations
      for variant positions"

<400> 391
Gln Gln Ser Phe Asp Trp Pro Phe Thr
1           5

<210> 392
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
      peptide"

<220>
<221> VARIANT
<222> (4)..(4)
<223> /replace="Arg"

<220>
<221> VARIANT
<222> (5)..(5)
<223> /replace="Ser"

<220>
<221> SITE
<222> (1)..(9)
<223> /note="Variant residues given in the sequence have no

```

preference with respect to those in the annotations
for variant positions"

<400> 392

Phe Thr Phe Ser Gly Tyr Val Met His
1 5

<210> 393

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<220>

<221> VARIANT

<222> (1)..(1)

<223> /replace="Ser"

<220>

<221> VARIANT

<222> (7)..(7)

<223> /replace="Gly"

<220>

<221> VARIANT

<222> (8)..(8)

<223> /replace="Leu"

<220>

<221> SITE

<222> (1)..(17)

<223> /note="Variant residues given in the sequence have no
preference with respect to those in the annotations
for variant positions"

<400> 393

Val Ile Ser His Glu Gly Ser Phe Lys Tyr Tyr Ala Asp Ser Val Lys
1 5 10 15

Gly

<210> 394
 <211> 14
 <212> PRT
 <213> Artificial Sequence

 <220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic peptide"

 <220>
 <221> VARIANT
 <222> (1)..(1)
 <223> /replace="Val"

 <220>
 <221> VARIANT
 <222> (2)..(2)
 <223> /replace="Val" or "Gly" or "Lys"

 <220>
 <221> VARIANT
 <222> (4)..(4)
 <223> /replace="His" or "Leu"

 <220>
 <221> VARIANT
 <222> (5)..(5)
 <223> /replace="Val" or "Gly"

 <220>
 <221> VARIANT
 <222> (6)..(6)
 <223> /replace="Ser" or "Leu"

 <220>
 <221> VARIANT
 <222> (7)..(7)
 <223> /replace="Val"

 <220>
 <221> VARIANT
 <222> (12)..(12)
 <223> /replace="Tyr"

 <220>
 <221> VARIANT
 <222> (13)..(13)
 <223> /replace="Gly" or "Arg" or "Ser"

<220>
<221> VARIANT
<222> (14)..(14)
<223> /replace="Gly" or "Arg" or "Leu" or "Val" or "Ala" or "Lys"

<220>
<221> SITE
<222> (1)..(14)
<223> /note="Variant residues given in the sequence have no
preference with respect to those in the annotations
for variant positions"

<400> 394
Ala Arg Pro Arg Ile Ala Ala Arg Arg Gly Gly Phe Asp Tyr
1 5 10

<210> 395
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<220>
<221> VARIANT
<222> (2)..(2)
<223> /replace="Pro"

<220>
<221> VARIANT
<222> (4)..(4)
<223> /replace="His" or "Arg"

<220>
<221> VARIANT
<222> (6)..(6)
<223> /replace="Gly"

<220>
<221> VARIANT
<222> (11)..(11)
<223> /replace="Ile" or "Asn" or "Val"

<220>

<221> SITE
<222> (1)..(11)
<223> /note="Variant residues given in the sequence have no preference with respect to those in the annotations for variant positions"

<400> 395
Gly Ser Ile Ser Ser Ser Ser Tyr Tyr Trp Gly
1 5 10

<210> 396
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<220>
<221> VARIANT
<222> (7)..(7)
<223> /replace="Thr"

<220>
<221> SITE
<222> (1)..(16)
<223> /note="Variant residues given in the sequence have no preference with respect to those in the annotations for variant positions"

<400> 396
Ser Ile Ser Tyr Ser Ala Ser Thr Tyr Tyr Asn Pro Ser Leu Lys Ser
1 5 10 15

<210> 397
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

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<220>
<221> VARIANT
<222> (1)..(1)
<223> /replace="Val"

<220>
<221> VARIANT
<222> (2)..(2)
<223> /replace="Ser" or "Gly"

<220>
<221> VARIANT
<222> (4)..(4)
<223> /replace="Tyr" or "Arg" or "Val" or "Ile" or "His" or
      "Thr" or "Glu"

<220>
<221> VARIANT
<222> (5)..(5)
<223> /replace="Asp" or "Glu" or "Asn"

<220>
<221> VARIANT
<222> (7)..(7)
<223> /replace="Ala" or "Thr"

<220>
<221> VARIANT
<222> (8)..(8)
<223> /replace="Gly" or "Thr" or "Ala"

<220>
<221> VARIANT
<222> (9)..(9)
<223> /replace="Ala" or "Arg" or "Gln" or "Val"

<220>
<221> VARIANT
<222> (10)..(10)
<223> /replace="Glu" or "Lys" or "Gly" or "Thr"

<220>
<221> VARIANT
<222> (12)..(12)
<223> /replace="Ile"

<220>
<221> VARIANT
<222> (13)..(13)
<223> /replace="Leu" or "Gln" or "Val" or "Asn" or "Gly"

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<220>
<221> VARIANT
<222> (14)..(14)
<223> /replace="Arg" or "Asn" or "Glu" or "Lys"

<220>
<221> SITE
<222> (1)..(14)
<223> /note="Variant residues given in the sequence have no preference with respect to those in the annotations for variant positions"

<400> 397
Ala Arg Asp Pro Ser Tyr Asp Ser Ile Ala Gly Met Asp Val
1 5 10

<210> 398
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<220>
<221> VARIANT
<222> (6)..(6)
<223> /replace="Ala"

<220>
<221> VARIANT
<222> (7)..(7)
<223> /replace="Thr"

<220>
<221> SITE
<222> (1)..(10)
<223> /note="Variant residues given in the sequence have no preference with respect to those in the annotations for variant positions"

<400> 398
Ser Ile Ser Tyr Ser Gly Ser Thr Tyr Tyr
1 5 10

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<210> 399
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
      peptide"

<220>
<221> VARIANT
<222> (2)..(2)
<223> /replace="Ala"

<220>
<221> VARIANT
<222> (4)..(4)
<223> /replace="Ala" or "Tyr" or "Asp" or "Ser" or "Arg" or "His"

<220>
<221> VARIANT
<222> (5)..(5)
<223> /replace="Gln" or "Ser" or "Gly" or "Lys" or "Glu" or "Arg"
      or "His"

<220>
<221> VARIANT
<222> (6)..(6)
<223> /replace="Arg"

<220>
<221> VARIANT
<222> (7)..(7)
<223> /replace="Gly" or "Ala" or "Leu" or "Ser" or "Asn" or "Val"
      or "Asp" or "Gln"

<220>
<221> VARIANT
<222> (8)..(8)
<223> /replace="Met" or "Leu"

<220>
<221> VARIANT
<222> (9)..(9)
<223> /replace="Phe" or "Tyr" or "Asn" or "Ser"

<220>

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<221> SITE
 <222> (1)..(9)
 <223> /note="Variant residues given in the sequence have no
 preference with respect to those in the annotations
 for variant positions"

<400> 399
 Phe Thr Phe Asn Asn Tyr Pro Ile His
 1 5

<210> 400
 <211> 11
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 peptide"

<220>
 <221> VARIANT
 <222> (4)..(4)
 <223> /replace="His"

<220>
 <221> VARIANT
 <222> (7)..(7)
 <223> /replace="Ala" or "Gly"

<220>
 <221> VARIANT
 <222> (11)..(11)
 <223> /replace="Thr" or "Ser" or "His" or "Leu" or "Ile" or "Asn"
 or "Val" or "Ala"

<220>
 <221> SITE
 <222> (1)..(11)
 <223> /note="Variant residues given in the sequence have no
 preference with respect to those in the annotations
 for variant positions"

<400> 400
 Gly Ser Ile Ser Ser Ser Ser Tyr Tyr Trp Gly
 1 5 10

```

<210> 401
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
      peptide"

<220>
<221> VARIANT
<222> (3)..(3)
<223> /replace="Ala"

<220>
<221> VARIANT
<222> (6)..(6)
<223> /replace="Ala" or "Ser"

<220>
<221> VARIANT
<222> (7)..(7)
<223> /replace="Thr"

<220>
<221> SITE
<222> (1)..(10)
<223> /note="Variant residues given in the sequence have no
      preference with respect to those in the annotations
      for variant positions"

<400> 401
Ser Ile Ser Tyr Ser Gly Ser Thr Tyr Tyr
1           5           10

```