

SEQUENCE LISTING

<110> PACT PHARMA INC.

<120> COMPOSITIONS AND METHODS FOR IDENTIFICATION OF ANTIGEN SPECIFIC T CELLS

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<150> 62/876,380

<151> 2019-07-19

<150> 62/867,165

<151> 2019-06-26

<150> 62/836,823

<151> 2019-03-29

<150> 62/804,649

<151> 2019-02-12

<160> 324

<170> PatentIn version 3.5

<210> 1

<211> 78

<212> DNA

<213> Homo sapiens

<400> 1

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ttacaggagg gctcagca 78

<210> 2

<211> 26

<212> PRT

<213> Homo sapiens

<400> 2

Met Ala Thr Gly Ser Arg Thr Ser Leu Leu Leu Ala Phe Gly Leu Leu

1 5 10 15

Cys Leu Pro Trp Leu Gln Glu Gly Ser Ala

20 25

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<211> 23
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 <213> Unknown

 <220>
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 Universal target sequence

 <400> 3
 cgtggttaca ggagggctca gca 23

 <210> 4
 <211> 19
 <212> DNA
 <213> Unknown

 <220>
 <223> Description of Unknown:
 Universal target sequence

 <400> 4
 ggatgcggag gatccggcg 19

 <210> 5
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 <213> Unknown

 <220>
 <223> Description of Unknown:
 Universal target sequence

 <400> 5
 ggaagcggag gatccggcg 19

 <210> 6
 <211> 21
 <212> DNA
 <213> Unknown

 <220>
 <223> Description of Unknown:
 Universal target sequence

 <400> 6
 ggaagcggag gatccaccag c 21

 <210> 7
 <211> 21
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<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic primer

<400> 7

atgtacgggc cagatatacg c

21

<210> 8

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic primer

<400> 8

acacccgccg cgcttaatg

19

<210> 9

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 9

Gly Gly Gly Gly Ser
1 5

<210> 10

<211> 15

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 10

ggcggcggcg gcagc

15

<210> 11

<211> 5

<212> PRT

<213> Artificial Sequence

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

<400> 11
Gly Ser Gly Gly Ser
1 5

<210> 12
<211> 15
<212> DNA
<213> Artificial Sequence

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

<400> 12
ggcagcggcg gcagc 15

<210> 13
<211> 5
<212> PRT
<213> Artificial Sequence

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

<400> 13
Gly Cys Gly Gly Ser
1 5

<210> 14
<211> 15
<212> DNA
<213> Artificial Sequence

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

<400> 14
ggctgcggcg gcagc 15

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

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 15

Gly Cys Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
1 5 10 15

<210> 16

<211> 45

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 16

ggctgaggcg gcagcggcgg cggcggcagc ggaggcgaggc gcagc 45

<210> 17

<211> 15

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 17

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
1 5 10 15

<210> 18

<211> 45

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 18

ggaggcgaggc gcagcggcgg cggcggcagc ggaggcgaggc gcagc 45

<210> 19

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 19

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly
1 5 10 15

Gly Gly Gly Ser
20

<210> 20

<211> 60

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 20

ggcggcggcg gcagcggcgg cggcggcagc ggcggcggcg gcagcggcgg cggcggcagc 60

<210> 21

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 21

Gly Ser Gly Gly Ser Gly Gly Ser Ala Gly Gly
1 5 10

<210> 22

<211> 33

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 22

ggcagcggcg gcagcggcgg cagcgcgggc ggc 33

<210> 23
 <211> 22
 <212> PRT
 <213> Homo sapiens

<400> 23
 Met Asp Met Arg Val Pro Ala Gln Leu Leu Gly Leu Leu Leu Leu Trp
 1 5 10 15

Leu Ser Gly Ala Arg Cys
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<210> 24
 <211> 66
 <212> DNA
 <213> Homo sapiens

<400> 24
 atggatatgc gcgtgccggc gcagctgctg ggcctgctgc tgctgtggct gagcggcgcg 60
 cgctgc 66

<210> 25
 <211> 20
 <212> PRT
 <213> Unknown

<220>
 <223> Description of Unknown:
 Beta 2 microglobulin sequence

<400> 25
 Met Ser Arg Ser Val Ala Leu Ala Val Leu Ala Leu Leu Ser Leu Ser
 1 5 10 15

Gly Leu Glu Ala
 20

<210> 26
 <211> 60
 <212> DNA
 <213> Unknown

<220>
 <223> Description of Unknown:
 Beta 2 microglobulin sequence

<400> 26
 atgagccgca gcgtggcgct ggcggtgctg gcgctgctga gcctgagcgg cctggaagcg 60

<210> 27
<211> 20
<212> PRT
<213> Unknown

<220>
<223> Description of Unknown:
IL2 signal sequence

<400> 27
Met Tyr Arg Met Gln Leu Leu Ser Cys Ile Ala Leu Ser Leu Ala Leu
1 5 10 15

Val Thr Asn Ser
20

<210> 28
<211> 60
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown:
IL2 signal sequence

<400> 28
atgtatcgca tgcagctgct gagctgcatt gcgctgagcc tggcgctggt gaccaacagc 60

<210> 29
<211> 45
<212> DNA
<213> Artificial Sequence

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

<400> 29
ggcctgaacg acatcttcga ggctcagaaa atcgaatggc acgaa 45

<210> 30
<211> 15
<212> PRT
<213> Artificial Sequence

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

<400> 30
 Gly Leu Asn Asp Ile Phe Glu Ala Gln Lys Ile Glu Trp His Glu
 1 5 10 15

<210> 31
 <211> 23
 <212> DNA
 <213> Unknown

<220>
 <223> Description of Unknown:
 TEV sequence

<400> 31
 gagagaacct gtacttccag ggc 23

<210> 32
 <211> 7
 <212> PRT
 <213> Unknown

<220>
 <223> Description of Unknown:
 TEV sequence

<400> 32
 Glu Asn Leu Tyr Phe Gln Gly
 1 5

<210> 33
 <211> 18
 <212> DNA
 <213> Artificial Sequence

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

<400> 33
 catcatcatc atcatcat 18

<210> 34
 <211> 6
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 6xHis tag

<400> 34

His His His His His His
1 5

<210> 35

<211> 66

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 35

catcatcatc atcatcatgg cggcggcagc ggcggcggca gcggcagcca tcatcatcat 60

catcat 66

<210> 36

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 36

His His His His His His Gly Gly Gly Ser Gly Gly Gly Ser Gly Ser
1 5 10 15

His His His His His His
20

<210> 37

<211> 49

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 37

Gly Leu Asn Asp Ile Phe Glu Ala Gln Lys Ile Glu Trp His Glu Gly
1 5 10 15

Gly Gly Glu Asn Leu Tyr Phe Gln Gly Gly Ser His His His His His

20

25

30

His Gly Gly Gly Ser Gly Gly Gly Ser Gly Ser His His His His His
 35 40 45

His

<210> 38

<211> 576

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
 polynucleotide

<400> 38

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cttacggtaa atggcccgcc tggctgaccg cccaacgacc cccgcccatt gacgtcaata	120
atgacgtatg ttcccatagt aacgccaata gggactttcc attgacgtca atgggtggag	180
tatttacggg aaactgccca cttggcagta catcaagtgt atcatatgcc aagtacgccc	240
cctattgacg tcaatgacgg taaatggccc gcctggcatt atgccagta catgacctta	300
tgggactttc ctacttggca gtacatctac gtattagtca tcgctattac catggtgatg	360
cggttttggc agtacatcaa tgggcgtgga tagcggtttg actcacgggg atttccaagt	420
ctccacccca ttgacgtcaa tgggagtttg ttttggcacc aaaatcaacg ggactttcca	480
aaatgtcgta acaactccgc cccattgacg caaatgggcg gtaggcgtgt acggtgggag	540
gtctatataa gcagagctgg tttagtgaac cgtcag	576

<210> 39

<211> 276

<212> PRT

<213> Homo sapiens

<400> 39

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

Arg Gly Glu Pro Arg Phe Ile Ala Val Gly Tyr Val Asp Asp Thr Gln	
20 25 30	

Phe Val Arg Phe Asp Ser Asp Ala Ala Ser Gln Lys Met Glu Pro Arg
35 40 45

Ala Pro Trp Ile Glu Gln Glu Gly Pro Glu Tyr Trp Asp Gln Glu Thr
50 55 60

Arg Asn Met Lys Ala His Ser Gln Thr Asp Arg Ala Asn Leu Gly Thr
65 70 75 80

Leu Arg Gly Cys Tyr Asn Gln Ser Glu Asp Gly Ser His Thr Ile Gln
85 90 95

Ile Met Tyr Gly Cys Asp Val Gly Pro Asp Gly Arg Phe Leu Arg Gly
100 105 110

Tyr Arg Gln Asp Ala Tyr Asp Gly Lys Asp Tyr Ile Ala Leu Asn Glu
115 120 125

Asp Leu Arg Ser Trp Thr Ala Ala Asp Met Ala Ala Gln Ile Thr Lys
130 135 140

Arg Lys Trp Glu Ala Val His Ala Ala Glu Gln Arg Arg Val Tyr Leu
145 150 155 160

Glu Gly Arg Cys Val Asp Gly Leu Arg Arg Tyr Leu Glu Asn Gly Lys
165 170 175

Glu Thr Leu Gln Arg Thr Asp Pro Pro Lys Thr His Met Thr His His
180 185 190

Pro Ile Ser Asp His Glu Ala Thr Leu Arg Cys Trp Ala Leu Gly Phe
195 200 205

Tyr Pro Ala Glu Ile Thr Leu Thr Trp Gln Arg Asp Gly Glu Asp Gln
210 215 220

Thr Gln Asp Thr Glu Leu Val Glu Thr Arg Pro Ala Gly Asp Gly Thr
225 230 235 240

Phe Gln Lys Trp Ala Ala Val Val Val Pro Ser Gly Glu Glu Gln Arg
245 250 255

Tyr Thr Cys His Val Gln His Glu Gly Leu Pro Lys Pro Leu Thr Leu
260 265 270

Arg Trp Glu Leu
275

<210> 40
<211> 276
<212> PRT
<213> Homo sapiens

<400> 40
Gly Ser His Ser Met Arg Tyr Phe Phe Thr Ser Val Ser Arg Pro Gly
1 5 10 15

Arg Gly Glu Pro Arg Phe Ile Ala Val Gly Tyr Val Asp Asp Thr Gln
20 25 30

Phe Val Arg Phe Asp Ser Asp Ala Ala Ser Gln Arg Met Glu Pro Arg
35 40 45

Ala Pro Trp Ile Glu Gln Glu Gly Pro Glu Tyr Trp Asp Gly Glu Thr
50 55 60

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

Leu Arg Gly Cys Tyr Asn Gln Ser Glu Ala Gly Ser His Thr Val Gln
85 90 95

Arg Met Tyr Gly Cys Asp Val Gly Ser Asp Trp Arg Phe Leu Arg Gly
100 105 110

Tyr His Gln Tyr Ala Tyr Asp Gly Lys Asp Tyr Ile Ala Leu Lys Glu
115 120 125

Asp Leu Arg Ser Trp Thr Ala Ala Asp Met Ala Ala Gln Thr Thr Lys
130 135 140

His Lys Trp Glu Ala Ala His Val Ala Glu Gln Leu Arg Ala Tyr Leu
 145 150 155 160

Glu Gly Thr Cys Val Glu Trp Leu Arg Arg Tyr Leu Glu Asn Gly Lys
 165 170 175

Glu Thr Leu Gln Arg Thr Asp Ala Pro Lys Thr His Met Thr His His
 180 185 190

Ala Val Ser Asp His Glu Ala Thr Leu Arg Cys Trp Ala Leu Ser Phe
 195 200 205

Tyr Pro Ala Glu Ile Thr Leu Thr Trp Gln Arg Asp Gly Glu Asp Gln
 210 215 220

Thr Gln Asp Thr Glu Leu Val Glu Thr Arg Pro Ala Gly Asp Gly Thr
 225 230 235 240

Phe Gln Lys Trp Ala Ala Val Val Val Pro Ser Gly Gln Glu Gln Arg
 245 250 255

Tyr Thr Cys His Val Gln His Glu Gly Leu Pro Lys Pro Leu Thr Leu
 260 265 270

Arg Trp Glu Pro
 275

<210> 41
 <211> 276
 <212> PRT
 <213> Homo sapiens

<400> 41
 Gly Ser His Ser Met Arg Tyr Phe Phe Thr Ser Val Ser Arg Pro Gly
 1 5 10 15

Arg Gly Glu Pro Arg Phe Ile Ala Val Gly Tyr Val Asp Asp Thr Gln
 20 25 30

Phe Val Arg Phe Asp Ser Asp Ala Ala Ser Gln Arg Met Glu Pro Arg
 35 40 45

Ala Pro Trp Ile Glu Gln Glu Gly Pro Glu Tyr Trp Asp Gln Glu Thr
50 55 60

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

Leu Arg Gly Cys Tyr Asn Gln Ser Glu Ala Gly Ser His Thr Ile Gln
85 90 95

Ile Met Tyr Gly Cys Asp Val Gly Ser Asp Gly Arg Phe Leu Arg Gly
100 105 110

Tyr Arg Gln Asp Ala Tyr Asp Gly Lys Asp Tyr Ile Ala Leu Asn Glu
115 120 125

Asp Leu Arg Ser Trp Thr Ala Ala Asp Met Ala Ala Gln Ile Thr Lys
130 135 140

Arg Lys Trp Glu Ala Ala His Glu Ala Glu Gln Leu Arg Ala Tyr Leu
145 150 155 160

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

Glu Thr Leu Gln Arg Thr Asp Pro Pro Lys Thr His Met Thr His His
180 185 190

Pro Ile Ser Asp His Glu Ala Thr Leu Arg Cys Trp Ala Leu Gly Phe
195 200 205

Tyr Pro Ala Glu Ile Thr Leu Thr Trp Gln Arg Asp Gly Glu Asp Gln
210 215 220

Thr Gln Asp Thr Glu Leu Val Glu Thr Arg Pro Ala Gly Asp Gly Thr
225 230 235 240

Phe Gln Lys Trp Ala Ala Val Val Val Pro Ser Gly Glu Glu Gln Arg
245 250 255

Tyr Thr Cys His Val Gln His Glu Gly Leu Pro Lys Pro Leu Thr Leu
260 265 270

Arg Trp Glu Leu
275

<210> 42
<211> 276
<212> PRT
<213> Homo sapiens

<400> 42
Gly Ser His Ser Met Arg Tyr Phe Ser Thr Ser Val Ser Arg Pro Gly
1 5 10 15

Arg Gly Glu Pro Arg Phe Ile Ala Val Gly Tyr Val Asp Asp Thr Gln
20 25 30

Phe Val Arg Phe Asp Ser Asp Ala Ala Ser Gln Arg Met Glu Pro Arg
35 40 45

Ala Pro Trp Ile Glu Gln Glu Gly Pro Glu Tyr Trp Asp Glu Glu Thr
50 55 60

Gly Lys Val Lys Ala His Ser Gln Thr Asp Arg Glu Asn Leu Arg Ile
65 70 75 80

Ala Leu Arg Cys Tyr Asn Gln Ser Glu Ala Gly Ser His Thr Leu Gln
85 90 95

Met Met Phe Gly Cys Asp Val Gly Ser Asp Gly Arg Phe Leu Arg Gly
100 105 110

Tyr His Gln Tyr Ala Tyr Asp Gly Lys Asp Tyr Ile Ala Leu Lys Glu
115 120 125

Asp Leu Arg Ser Trp Thr Ala Ala Asp Met Ala Ala Gln Ile Thr Lys
130 135 140

Arg Lys Trp Glu Ala Ala His Val Ala Glu Gln Gln Arg Ala Tyr Leu
145 150 155 160

Glu Gly Thr Cys Val Asp Gly Leu Arg Arg Tyr Leu Glu Asn Gly Lys
165 170 175

Glu Thr Leu Gln Arg Thr Asp Pro Pro Lys Thr His Met Thr His His
180 185 190

Pro Ile Ser Asp His Glu Ala Thr Leu Arg Cys Trp Ala Leu Gly Phe
195 200 205

Tyr Pro Ala Glu Ile Thr Leu Thr Trp Gln Arg Asp Gly Glu Asp Gln
210 215 220

Thr Gln Asp Thr Glu Leu Val Glu Thr Arg Pro Ala Gly Asp Gly Thr
225 230 235 240

Phe Gln Lys Trp Ala Ala Val Val Val Pro Ser Gly Glu Glu Gln Arg
245 250 255

Tyr Thr Cys His Val Gln His Glu Gly Leu Pro Lys Pro Leu Thr Leu
260 265 270

Arg Trp Glu Pro
275

<210> 43
<211> 276
<212> PRT
<213> Homo sapiens

<400> 43
Gly Ser His Ser Met Arg Tyr Phe Ser Thr Ser Val Ser Arg Pro Gly
1 5 10 15

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

Phe Val Arg Phe Asp Ser Asp Ala Ala Ser Gln Arg Met Glu Pro Arg
35 40 45

Ala Pro Trp Ile Glu Gln Glu Arg Pro Glu Tyr Trp Asp Gln Glu Thr
50 55 60

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

Leu Arg Gly Cys Tyr Asn Gln Ser Glu Ala Gly Ser His Thr Ile Gln
85 90 95

Ile Met Tyr Gly Cys Asp Val Gly Ser Asp Gly Arg Phe Leu Arg Gly
100 105 110

Tyr Glu Gln His Ala Tyr Asp Gly Lys Asp Tyr Ile Ala Leu Asn Glu
115 120 125

Asp Leu Arg Ser Trp Thr Ala Ala Asp Met Ala Ala Gln Ile Thr Gln
130 135 140

Arg Lys Trp Glu Ala Ala Arg Arg Ala Glu Gln Leu Arg Ala Tyr Leu
145 150 155 160

Glu Gly Thr Cys Val Glu Trp Leu Arg Arg Tyr Leu Glu Asn Gly Lys
165 170 175

Glu Thr Leu Gln Arg Thr Asp Pro Pro Lys Thr His Met Thr His His
180 185 190

Pro Ile Ser Asp His Glu Ala Thr Leu Arg Cys Trp Ala Leu Gly Phe
195 200 205

Tyr Pro Ala Glu Ile Thr Leu Thr Trp Gln Arg Asp Gly Glu Asp Gln
210 215 220

Thr Gln Asp Thr Glu Leu Val Glu Thr Arg Pro Ala Gly Asp Gly Thr
225 230 235 240

Phe Gln Lys Trp Ala Ala Val Val Val Pro Ser Gly Glu Glu Gln Arg
245 250 255

Tyr Thr Cys His Val Gln His Glu Gly Leu Pro Lys Pro Leu Thr Leu
260 265 270

Arg Trp Glu Leu
275

<210> 44
 <211> 276
 <212> PRT
 <213> Homo sapiens

<400> 44

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

Arg Gly Glu Pro Arg Phe Ile Ala Val Gly Tyr Val Asp Asp Thr Gln
 20 25 30

Phe Val Arg Phe Asp Ser Asp Ala Ala Ser Gln Arg Met Glu Pro Arg
 35 40 45

Ala Pro Trp Ile Glu Gln Glu Arg Pro Glu Tyr Trp Asp Gln Glu Thr
 50 55 60

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

Leu Arg Gly Cys Tyr Asn Gln Ser Glu Ala Gly Ser His Thr Ile Gln
 85 90 95

Met Met Tyr Gly Cys Asp Val Gly Ser Asp Gly Arg Phe Leu Arg Gly
 100 105 110

Tyr Gln Gln Asp Ala Tyr Asp Gly Lys Asp Tyr Ile Ala Leu Asn Glu
 115 120 125

Asp Leu Arg Ser Trp Thr Ala Ala Asp Met Ala Ala Gln Ile Thr Gln
 130 135 140

Arg Lys Trp Glu Ala Ala Arg Val Ala Glu Gln Leu Arg Ala Tyr Leu
 145 150 155 160

Glu Gly Thr Cys Val Glu Trp Leu Arg Arg Tyr Leu Glu Asn Gly Lys
 165 170 175

Glu Thr Leu Gln Arg Thr Asp Pro Pro Lys Thr His Met Thr His His
 180 185 190

Ala Val Ser Asp His Glu Ala Thr Leu Arg Cys Trp Ala Leu Ser Phe
195 200 205

Tyr Pro Ala Glu Ile Thr Leu Thr Trp Gln Arg Asp Gly Glu Asp Gln
210 215 220

Thr Gln Asp Thr Glu Leu Val Glu Thr Arg Pro Ala Gly Asp Gly Thr
225 230 235 240

Phe Gln Lys Trp Ala Ser Val Val Val Pro Ser Gly Gln Glu Gln Arg
245 250 255

Tyr Thr Cys His Val Gln His Glu Gly Leu Pro Lys Pro Leu Thr Leu
260 265 270

Arg Trp Glu Pro
275

<210> 45
<211> 276
<212> PRT
<213> Homo sapiens

<400> 45
Gly Ser His Ser Met Arg Tyr Phe Phe Thr Ser Val Ser Arg Pro Gly
1 5 10 15

Arg Gly Glu Pro Arg Phe Ile Ala Val Gly Tyr Val Asp Asp Thr Gln
20 25 30

Phe Val Arg Phe Asp Ser Asp Ala Ala Ser Gln Arg Met Glu Pro Arg
35 40 45

Ala Pro Trp Ile Glu Gln Glu Gly Pro Glu Tyr Trp Asp Gln Glu Thr
50 55 60

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

Ala Leu Arg Cys Tyr Asn Gln Ser Glu Ala Gly Ser His Thr Ile Gln
85 90 95

Met Met Tyr Gly Cys Asp Val Gly Pro Asp Gly Arg Leu Leu Arg Gly
 100 105 110

Tyr Gln Gln Asp Ala Tyr Asp Gly Lys Asp Tyr Ile Ala Leu Asn Glu
 115 120 125

Asp Leu Arg Ser Trp Thr Ala Ala Asp Met Ala Ala Gln Ile Thr Gln
 130 135 140

Arg Lys Trp Glu Ala Ala Arg Val Ala Glu Gln Leu Arg Ala Tyr Leu
 145 150 155 160

Glu Gly Thr Cys Val Glu Trp Leu Arg Arg Tyr Leu Glu Asn Gly Lys
 165 170 175

Glu Thr Leu Gln Arg Thr Asp Ala Pro Lys Thr His Met Thr His His
 180 185 190

Ala Val Ser Asp His Glu Ala Thr Leu Arg Cys Trp Ala Leu Ser Phe
 195 200 205

Tyr Pro Ala Glu Ile Thr Leu Thr Trp Gln Arg Asp Gly Glu Asp Gln
 210 215 220

Thr Gln Asp Thr Glu Leu Val Glu Thr Arg Pro Ala Gly Asp Gly Thr
 225 230 235 240

Phe Gln Lys Trp Ala Ser Val Val Val Pro Ser Gly Gln Glu Gln Arg
 245 250 255

Tyr Thr Cys His Val Gln His Glu Gly Leu Pro Lys Pro Leu Thr Leu
 260 265 270

Arg Trp Glu Pro
 275

<210> 46

<211> 276

<212> PRT

<213> Homo sapiens

<400> 46

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

Arg Gly Glu Pro Arg Phe Ile Ala Val Gly Tyr Val Asp Asp Thr Gln
 20 25 30

Phe Val Arg Phe Asp Ser Asp Ala Ala Ser Gln Arg Met Glu Pro Arg
 35 40 45

Ala Pro Trp Ile Glu Gln Glu Gly Pro Glu Tyr Trp Asp Arg Asn Thr
 50 55 60

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

Leu Arg Gly Cys Tyr Asn Gln Ser Glu Ala Gly Ser His Thr Ile Gln
 85 90 95

Met Met Tyr Gly Cys Asp Val Gly Ser Asp Gly Arg Phe Leu Arg Gly
 100 105 110

Tyr Gln Gln Asp Ala Tyr Asp Gly Lys Asp Tyr Ile Ala Leu Asn Glu
 115 120 125

Asp Leu Arg Ser Trp Thr Ala Ala Asp Met Ala Ala Gln Ile Thr Gln
 130 135 140

Arg Lys Trp Glu Ala Ala Arg Val Ala Glu Gln Leu Arg Ala Tyr Leu
 145 150 155 160

Glu Gly Thr Cys Val Glu Trp Leu Arg Arg His Leu Glu Asn Gly Lys
 165 170 175

Glu Thr Leu Gln Arg Thr Asp Pro Pro Arg Thr His Met Thr His His
 180 185 190

Ala Val Ser Asp His Glu Ala Thr Leu Arg Cys Trp Ala Leu Ser Phe
 195 200 205

Tyr Pro Ala Glu Ile Thr Leu Thr Trp Gln Arg Asp Gly Glu Asp Gln
 210 215 220

Thr Gln Asp Thr Glu Leu Val Glu Thr Arg Pro Ala Gly Asp Gly Thr
 225 230 235 240

Phe Gln Lys Trp Ala Ser Val Val Val Pro Ser Gly Gln Glu Gln Arg
 245 250 255

Tyr Thr Cys His Val Gln His Glu Gly Leu Pro Lys Pro Leu Thr Leu
 260 265 270

Arg Trp Glu Pro
 275

<210> 47
 <211> 276
 <212> PRT
 <213> Homo sapiens

<400> 47
 Gly Ser His Ser Met Arg Tyr Phe Tyr Thr Ser Val Ser Arg Pro Gly
 1 5 10 15

Arg Gly Glu Pro Arg Phe Ile Ala Val Gly Tyr Val Asp Asp Thr Gln
 20 25 30

Phe Val Arg Phe Asp Ser Asp Ala Ala Ser Gln Arg Met Glu Pro Arg
 35 40 45

Ala Pro Trp Ile Glu Gln Glu Gly Pro Glu Tyr Trp Asp Arg Asn Thr
 50 55 60

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

Leu Arg Gly Cys Tyr Asn Gln Ser Glu Ala Gly Ser His Thr Ile Gln
 85 90 95

Met Met Tyr Gly Cys Asp Val Gly Ser Asp Gly Arg Phe Leu Arg Gly
 100 105 110

Tyr Arg Gln Asp Ala Tyr Asp Gly Lys Asp Tyr Ile Ala Leu Lys Glu
 115 120 125

Asp Leu Arg Ser Trp Thr Ala Ala Asp Met Ala Ala Gln Thr Thr Lys
 130 135 140

His Lys Trp Glu Ala Ala His Val Ala Glu Gln Trp Arg Ala Tyr Leu
 145 150 155 160

Glu Gly Thr Cys Val Glu Trp Leu Arg Arg Tyr Leu Glu Asn Gly Lys
 165 170 175

Glu Thr Leu Gln Arg Thr Asp Ala Pro Lys Thr His Met Thr His His
 180 185 190

Ala Val Ser Asp His Glu Ala Thr Leu Arg Cys Trp Ala Leu Ser Phe
 195 200 205

Tyr Pro Ala Glu Ile Thr Leu Thr Trp Gln Arg Asp Gly Glu Asp Gln
 210 215 220

Thr Gln Asp Thr Glu Leu Val Glu Thr Arg Pro Ala Gly Asp Gly Thr
 225 230 235 240

Phe Gln Lys Trp Val Ala Val Val Val Pro Ser Gly Gln Glu Gln Arg
 245 250 255

Tyr Thr Cys His Val Gln His Glu Gly Leu Pro Lys Pro Leu Thr Leu
 260 265 270

Arg Trp Glu Pro
 275

<210> 48
 <211> 276
 <212> PRT
 <213> Homo sapiens

<400> 48
 Gly Ser His Ser Met Arg Tyr Phe Tyr Thr Ser Val Ser Arg Pro Gly
 1 5 10 15

Arg Gly Glu Pro Arg Phe Ile Ser Val Gly Tyr Val Asp Asp Thr Gln
 20 25 30

Phe Val Arg Phe Asp Ser Asp Ala Ala Ser Pro Arg Glu Glu Pro Arg
35 40 45

Ala Pro Trp Ile Glu Gln Glu Gly Pro Glu Tyr Trp Asp Arg Asn Thr
50 55 60

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

Leu Arg Gly Cys Tyr Asn Gln Ser Glu Ala Gly Ser His Thr Leu Gln
85 90 95

Ser Met Tyr Gly Cys Asp Val Gly Pro Asp Gly Arg Leu Leu Arg Gly
100 105 110

His Asp Gln Tyr Ala Tyr Asp Gly Lys Asp Tyr Ile Ala Leu Asn Glu
115 120 125

Asp Leu Arg Ser Trp Thr Ala Ala Asp Thr Ala Ala Gln Ile Thr Gln
130 135 140

Arg Lys Trp Glu Ala Ala Arg Glu Ala Glu Gln Arg Arg Ala Tyr Leu
145 150 155 160

Glu Gly Glu Cys Val Glu Trp Leu Arg Arg Tyr Leu Glu Asn Gly Lys
165 170 175

Asp Lys Leu Glu Arg Ala Asp Pro Pro Lys Thr His Val Thr His His
180 185 190

Pro Ile Ser Asp His Glu Ala Thr Leu Arg Cys Trp Ala Leu Gly Phe
195 200 205

Tyr Pro Ala Glu Ile Thr Leu Thr Trp Gln Arg Asp Gly Glu Asp Gln
210 215 220

Thr Gln Asp Thr Glu Leu Val Glu Thr Arg Pro Ala Gly Asp Arg Thr
225 230 235 240

Phe Gln Lys Trp Ala Ala Val Val Val Pro Ser Gly Glu Glu Gln Arg
245 250 255

Tyr Thr Cys His Val Gln His Glu Gly Leu Pro Lys Pro Leu Thr Leu
260 265 270

Arg Trp Glu Pro
275

<210> 49
<211> 276
<212> PRT
<213> Homo sapiens

<400> 49
Gly Ser His Ser Met Arg Tyr Phe Tyr Thr Ala Val Ser Arg Pro Gly
1 5 10 15

Arg Gly Glu Pro Arg Phe Ile Ser Val Gly Tyr Val Asp Asp Thr Gln
20 25 30

Phe Val Arg Phe Asp Ser Asp Ala Ala Ser Pro Arg Glu Glu Pro Arg
35 40 45

Ala Pro Trp Ile Glu Gln Glu Gly Pro Glu Tyr Trp Asp Arg Asn Thr
50 55 60

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

Leu Arg Gly Cys Tyr Asn Gln Ser Glu Ala Gly Ser His Thr Leu Gln
85 90 95

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

Tyr Asn Gln Phe Ala Tyr Asp Gly Lys Asp Tyr Ile Ala Leu Asn Glu
115 120 125

Asp Leu Ser Ser Trp Thr Ala Ala Asp Thr Ala Ala Gln Ile Thr Gln
130 135 140

Arg Lys Trp Glu Ala Ala Arg Glu Ala Glu Gln Leu Arg Ala Tyr Leu
 145 150 155 160

Glu Gly Thr Cys Val Glu Trp Leu Arg Arg His Leu Glu Asn Gly Lys
 165 170 175

Glu Thr Leu Gln Arg Ala Asp Pro Pro Lys Thr His Val Thr His His
 180 185 190

Pro Ile Ser Asp His Glu Ala Thr Leu Arg Cys Trp Ala Leu Gly Phe
 195 200 205

Tyr Pro Ala Glu Ile Thr Leu Thr Trp Gln Arg Asp Gly Glu Asp Gln
 210 215 220

Thr Gln Asp Thr Glu Leu Val Glu Thr Arg Pro Ala Gly Asp Arg Thr
 225 230 235 240

Phe Gln Lys Trp Ala Ala Val Val Val Pro Ser Gly Glu Glu Gln Arg
 245 250 255

Tyr Thr Cys His Val Gln His Glu Gly Leu Pro Lys Pro Leu Thr Leu
 260 265 270

Arg Trp Glu Pro
 275

<210> 50
 <211> 276
 <212> PRT
 <213> Homo sapiens

<400> 50
 Gly Ser His Ser Met Arg Tyr Phe His Thr Ser Val Ser Arg Pro Gly
 1 5 10 15

Arg Gly Glu Pro Arg Phe Ile Ser Val Gly Tyr Val Asp Gly Thr Gln
 20 25 30

Phe Val Arg Phe Asp Ser Asp Ala Ala Ser Pro Arg Thr Glu Pro Arg
 35 40 45

Ala Pro Trp Ile Glu Gln Glu Gly Pro Glu Tyr Trp Asp Arg Asn Thr
50 55 60

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

Leu Arg Gly Cys Tyr Asn Gln Ser Glu Ala Gly Ser His Thr Leu Gln
85 90 95

Arg Met Tyr Gly Cys Asp Val Gly Pro Asp Gly Arg Leu Leu Arg Gly
100 105 110

His Asp Gln Ser Ala Tyr Asp Gly Lys Asp Tyr Ile Ala Leu Asn Glu
115 120 125

Asp Leu Ser Ser Trp Thr Ala Ala Asp Thr Ala Ala Gln Ile Thr Gln
130 135 140

Arg Lys Trp Glu Ala Ala Arg Val Ala Glu Gln Leu Arg Ala Tyr Leu
145 150 155 160

Glu Gly Thr Cys Val Glu Trp Leu Arg Arg His Leu Glu Asn Gly Lys
165 170 175

Glu Thr Leu Gln Arg Ala Asp Pro Pro Lys Thr His Val Thr His His
180 185 190

Pro Ile Ser Asp His Glu Ala Thr Leu Arg Cys Trp Ala Leu Gly Phe
195 200 205

Tyr Pro Ala Glu Ile Thr Leu Thr Trp Gln Arg Asp Gly Glu Asp Gln
210 215 220

Thr Gln Asp Thr Glu Leu Val Glu Thr Arg Pro Ala Gly Asp Arg Thr
225 230 235 240

Phe Gln Lys Trp Ala Ala Val Val Val Pro Ser Gly Glu Glu Gln Arg
245 250 255

Tyr Thr Cys His Val Gln His Glu Gly Leu Pro Lys Pro Leu Thr Leu
260 265 270

Arg Trp Glu Pro
275

<210> 51
<211> 276
<212> PRT
<213> Homo sapiens

<400> 51
Gly Ser His Ser Met Arg Tyr Phe His Thr Ser Val Ser Arg Pro Gly
1 5 10 15

Arg Gly Glu Pro Arg Phe Ile Thr Val Gly Tyr Val Asp Asp Thr Leu
20 25 30

Phe Val Arg Phe Asp Ser Asp Ala Ala Ser Pro Arg Glu Glu Pro Arg
35 40 45

Ala Pro Trp Ile Glu Gln Glu Gly Pro Glu Tyr Trp Asp Arg Glu Thr
50 55 60

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

Ala Leu Arg Cys Tyr Asn Gln Ser Glu Ala Gly Ser His Thr Leu Gln
85 90 95

Asn Met Tyr Gly Cys Asp Val Gly Pro Asp Gly Arg Leu Leu Arg Gly
100 105 110

Tyr His Gln Asp Ala Tyr Asp Gly Lys Asp Tyr Ile Ala Leu Asn Glu
115 120 125

Asp Leu Ser Ser Trp Thr Ala Ala Asp Thr Ala Ala Gln Ile Thr Gln
130 135 140

Arg Lys Trp Glu Ala Ala Arg Val Ala Glu Gln Leu Arg Ala Tyr Leu
145 150 155 160

Glu Gly Glu Cys Val Glu Trp Leu Arg Arg Tyr Leu Glu Asn Gly Lys
165 170 175

Glu Thr Leu Gln Arg Ala Asp Pro Pro Lys Thr His Val Thr His His
180 185 190

Pro Ile Ser Asp His Glu Ala Thr Leu Arg Cys Trp Ala Leu Gly Phe
195 200 205

Tyr Pro Ala Glu Ile Thr Leu Thr Trp Gln Arg Asp Gly Glu Asp Gln
210 215 220

Thr Gln Asp Thr Glu Leu Val Glu Thr Arg Pro Ala Gly Asp Arg Thr
225 230 235 240

Phe Gln Lys Trp Ala Ala Val Val Val Pro Ser Gly Glu Glu Gln Arg
245 250 255

Tyr Thr Cys His Val Gln His Glu Gly Leu Pro Lys Pro Leu Thr Leu
260 265 270

Arg Trp Glu Pro
275

<210> 52
<211> 276
<212> PRT
<213> Homo sapiens

<400> 52
Gly Ser His Ser Met Arg Tyr Phe Tyr Thr Ser Val Ser Arg Pro Gly
1 5 10 15

Arg Gly Glu Pro Arg Phe Ile Ser Val Gly Tyr Val Asp Asp Thr Gln
20 25 30

Phe Val Arg Phe Asp Ser Asp Ala Ala Ser Pro Arg Glu Glu Pro Arg
35 40 45

Ala Pro Trp Ile Glu Gln Glu Gly Pro Glu Tyr Trp Asp Arg Asn Thr
50 55 60

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

Leu Arg Gly Cys Tyr Asn Gln Ser Glu Ala Gly Ser His Thr Leu Gln
85 90 95

Arg Met Tyr Gly Cys Asp Val Gly Pro Asp Gly Arg Leu Leu Arg Gly
100 105 110

His Asn Gln Phe Ala Tyr Asp Gly Lys Asp Tyr Ile Ala Leu Asn Glu
115 120 125

Asp Leu Ser Ser Trp Thr Ala Ala Asp Thr Ala Ala Gln Ile Thr Gln
130 135 140

Arg Lys Trp Glu Ala Ala Arg Val Ala Glu Gln Leu Arg Thr Tyr Leu
145 150 155 160

Glu Gly Thr Cys Val Glu Trp Leu Arg Arg Tyr Leu Glu Asn Gly Lys
165 170 175

Glu Thr Leu Gln Arg Ala Asp Pro Pro Lys Thr His Val Thr His His
180 185 190

Pro Ile Ser Asp His Glu Ala Thr Leu Arg Cys Trp Ala Leu Gly Phe
195 200 205

Tyr Pro Ala Glu Ile Thr Leu Thr Trp Gln Arg Asp Gly Glu Asp Gln
210 215 220

Thr Gln Asp Thr Glu Leu Val Glu Thr Arg Pro Ala Gly Asp Arg Thr
225 230 235 240

Phe Gln Lys Trp Ala Ala Val Val Val Pro Ser Gly Glu Glu Gln Arg
245 250 255

Tyr Thr Cys His Val Gln His Glu Gly Leu Pro Lys Pro Leu Thr Leu
260 265 270

Arg Trp Glu Pro
275

<210> 53
 <211> 276
 <212> PRT
 <213> Homo sapiens

<400> 53

Gly Ser His Ser Met Arg Tyr Phe His Thr Ala Met Ser Arg Pro Gly
 1 5 10 15

Arg Gly Glu Pro Arg Phe Ile Thr Val Gly Tyr Val Asp Asp Thr Leu
 20 25 30

Phe Val Arg Phe Asp Ser Asp Ala Thr Ser Pro Arg Lys Glu Pro Arg
 35 40 45

Ala Pro Trp Ile Glu Gln Glu Gly Pro Glu Tyr Trp Asp Arg Glu Thr
 50 55 60

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

Leu Arg Gly Cys Tyr Asn Gln Ser Glu Ala Gly Ser His Thr Leu Gln
 85 90 95

Arg Met Tyr Gly Cys Asp Val Gly Pro Asp Gly Arg Leu Leu Arg Gly
 100 105 110

His Asn Gln Tyr Ala Tyr Asp Gly Lys Asp Tyr Ile Ala Leu Asn Glu
 115 120 125

Asp Leu Arg Ser Trp Thr Ala Ala Asp Thr Ala Ala Gln Ile Ser Gln
 130 135 140

Arg Lys Leu Glu Ala Ala Arg Val Ala Glu Gln Leu Arg Ala Tyr Leu
 145 150 155 160

Glu Gly Glu Cys Val Glu Trp Leu Arg Arg Tyr Leu Glu Asn Gly Lys
 165 170 175

Asp Lys Leu Glu Arg Ala Asp Pro Pro Lys Thr His Val Thr His His
 180 185 190

Pro Ile Ser Asp His Glu Ala Thr Leu Arg Cys Trp Ala Leu Gly Phe
195 200 205

Tyr Pro Ala Glu Ile Thr Leu Thr Trp Gln Arg Asp Gly Glu Asp Gln
210 215 220

Thr Gln Asp Thr Glu Leu Val Glu Thr Arg Pro Ala Gly Asp Arg Thr
225 230 235 240

Phe Gln Lys Trp Ala Ala Val Val Val Pro Ser Gly Glu Glu Gln Arg
245 250 255

Tyr Thr Cys His Val Gln His Glu Gly Leu Pro Lys Pro Leu Thr Leu
260 265 270

Arg Trp Glu Pro
275

<210> 54
<211> 276
<212> PRT
<213> Homo sapiens

<400> 54
Gly Ser His Ser Met Arg Tyr Phe Tyr Thr Ala Met Ser Arg Pro Gly
1 5 10 15

Arg Gly Glu Pro Arg Phe Ile Thr Val Gly Tyr Val Asp Asp Thr Leu
20 25 30

Phe Val Arg Phe Asp Ser Asp Ala Thr Ser Pro Arg Lys Glu Pro Arg
35 40 45

Ala Pro Trp Ile Glu Gln Glu Gly Pro Glu Tyr Trp Asp Arg Glu Thr
50 55 60

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

Ala Leu Arg Cys Tyr Asn Gln Ser Glu Ala Gly Ser His Ile Ile Gln
85 90 95

Arg Met Tyr Gly Cys Asp Val Gly Pro Asp Gly Arg Leu Leu Arg Gly
100 105 110

Tyr Asp Gln Asp Ala Tyr Asp Gly Lys Asp Tyr Ile Ala Leu Asn Glu
115 120 125

Asp Leu Ser Ser Trp Thr Ala Ala Asp Thr Ala Ala Gln Ile Thr Gln
130 135 140

Arg Lys Trp Glu Ala Ala Arg Val Ala Glu Gln Asp Arg Ala Tyr Leu
145 150 155 160

Glu Gly Leu Cys Val Glu Ser Leu Arg Arg Tyr Leu Glu Asn Gly Lys
165 170 175

Glu Thr Leu Gln Arg Ala Asp Pro Pro Lys Thr His Val Thr His His
180 185 190

Pro Ile Ser Asp His Glu Val Thr Leu Arg Cys Trp Ala Leu Gly Phe
195 200 205

Tyr Pro Ala Glu Ile Thr Leu Thr Trp Gln Arg Asp Gly Glu Asp Gln
210 215 220

Thr Gln Asp Thr Glu Leu Val Glu Thr Arg Pro Ala Gly Asp Arg Thr
225 230 235 240

Phe Gln Lys Trp Ala Ala Val Val Val Pro Ser Gly Glu Glu Gln Arg
245 250 255

Tyr Thr Cys His Val Gln His Glu Gly Leu Pro Lys Pro Leu Thr Leu
260 265 270

Arg Trp Glu Pro
275

<210> 55

<211> 276

<212> PRT

<213> Homo sapiens

<400> 55

Gly Ser His Ser Met Arg Tyr Phe Tyr Thr Ala Met Ser Arg Pro Gly
 1 5 10 15

Arg Gly Glu Pro Arg Phe Ile Ala Val Gly Tyr Val Asp Asp Thr Gln
 20 25 30

Phe Val Arg Phe Asp Ser Asp Ala Ala Ser Pro Arg Met Ala Pro Arg
 35 40 45

Ala Pro Trp Ile Glu Gln Glu Gly Pro Glu Tyr Trp Asp Arg Glu Thr
 50 55 60

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

Leu Arg Gly Cys Tyr Asn Gln Ser Glu Ala Gly Ser His Thr Leu Gln
 85 90 95

Arg Met Tyr Gly Cys Asp Val Gly Pro Asp Gly Arg Leu Leu Arg Gly
 100 105 110

His Asp Gln Ser Ala Tyr Asp Gly Lys Asp Tyr Ile Ala Leu Asn Glu
 115 120 125

Asp Leu Ser Ser Trp Thr Ala Ala Asp Thr Ala Ala Gln Ile Thr Gln
 130 135 140

Arg Lys Trp Glu Ala Ala Arg Glu Ala Glu Gln Trp Arg Ala Tyr Leu
 145 150 155 160

Glu Gly Leu Cys Val Glu Trp Leu Arg Arg Tyr Leu Glu Asn Gly Lys
 165 170 175

Glu Thr Leu Gln Arg Ala Asp Pro Pro Lys Thr His Val Thr His His
 180 185 190

Pro Ile Ser Asp His Glu Ala Thr Leu Arg Cys Trp Ala Leu Gly Phe
 195 200 205

Tyr Pro Ala Glu Ile Thr Leu Thr Trp Gln Arg Asp Gly Glu Asp Gln
 210 215 220

Thr Gln Asp Thr Glu Leu Val Glu Thr Arg Pro Ala Gly Asp Arg Thr
 225 230 235 240

Phe Gln Lys Trp Ala Ala Val Val Val Pro Ser Gly Glu Glu Gln Arg
 245 250 255

Tyr Thr Cys His Val Gln His Glu Gly Leu Pro Lys Pro Leu Thr Leu
 260 265 270

Arg Trp Glu Pro
 275

<210> 56
 <211> 276
 <212> PRT
 <213> Homo sapiens

<400> 56
 Gly Ser His Ser Met Arg Tyr Phe His Thr Ala Met Ser Arg Pro Gly
 1 5 10 15

Arg Gly Glu Pro Arg Phe Ile Thr Val Gly Tyr Val Asp Asp Thr Leu
 20 25 30

Phe Val Arg Phe Asp Ser Asp Ala Thr Ser Pro Arg Lys Glu Pro Arg
 35 40 45

Ala Pro Trp Ile Glu Gln Glu Gly Pro Glu Tyr Trp Asp Arg Glu Thr
 50 55 60

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

Leu Arg Gly Cys Tyr Asn Gln Ser Glu Ala Gly Ser His Thr Trp Gln
 85 90 95

Arg Met Tyr Gly Cys Asp Leu Gly Pro Asp Gly Arg Leu Leu Arg Gly
 100 105 110

Tyr Asn Gln Leu Ala Tyr Asp Gly Lys Asp Tyr Ile Ala Leu Asn Glu
 115 120 125

Asp Leu Ser Ser Trp Thr Ala Ala Asp Thr Ala Ala Gln Ile Thr Gln
 130 135 140

Arg Lys Trp Glu Ala Ala Arg Glu Ala Glu Gln Leu Arg Ala Tyr Leu
 145 150 155 160

Glu Gly Leu Cys Val Glu Trp Leu Arg Arg Tyr Leu Glu Asn Gly Lys
 165 170 175

Glu Thr Leu Gln Arg Ala Asp Pro Pro Lys Thr His Val Thr His His
 180 185 190

Pro Ile Ser Asp His Glu Ala Thr Leu Arg Cys Trp Ala Leu Gly Phe
 195 200 205

Tyr Pro Ala Glu Ile Thr Leu Thr Trp Gln Arg Asp Gly Glu Asp Gln
 210 215 220

Thr Gln Asp Thr Glu Leu Val Glu Thr Arg Pro Ala Gly Asp Arg Thr
 225 230 235 240

Phe Gln Lys Trp Ala Ala Val Val Val Pro Ser Gly Glu Glu Gln Arg
 245 250 255

Tyr Thr Cys His Val Gln His Glu Gly Leu Pro Lys Pro Leu Thr Leu
 260 265 270

Arg Trp Glu Pro
 275

<210> 57
 <211> 276
 <212> PRT
 <213> Homo sapiens

<400> 57
 Gly Ser His Ser Met Arg Tyr Phe Tyr Thr Ala Met Ser Arg Pro Gly
 1 5 10 15

Arg Gly Glu Pro Arg Phe Ile Ala Val Gly Tyr Val Asp Asp Thr Gln
 20 25 30

Phe Val Arg Phe Asp Ser Asp Ala Ala Ser Pro Arg Met Ala Pro Arg
35 40 45

Ala Pro Trp Ile Glu Gln Glu Gly Pro Glu Tyr Trp Asp Gly Glu Thr
50 55 60

Arg Asn Met Lys Ala Ser Ala Gln Thr Tyr Arg Glu Asn Leu Arg Ile
65 70 75 80

Ala Leu Arg Cys Tyr Asn Gln Ser Glu Ala Gly Ser His Ile Ile Gln
85 90 95

Val Met Tyr Gly Cys Asp Val Gly Pro Asp Gly Arg Leu Leu Arg Gly
100 105 110

His Asp Gln Ser Ala Tyr Asp Gly Lys Asp Tyr Ile Ala Leu Asn Glu
115 120 125

Asp Leu Ser Ser Trp Thr Ala Ala Asp Thr Ala Ala Gln Ile Thr Gln
130 135 140

Arg Lys Trp Glu Ala Ala Arg Val Ala Glu Gln Leu Arg Ala Tyr Leu
145 150 155 160

Glu Gly Leu Cys Val Glu Trp Leu Arg Arg Tyr Leu Glu Asn Gly Lys
165 170 175

Glu Thr Leu Gln Arg Ala Asp Pro Pro Lys Thr His Val Thr His His
180 185 190

Pro Ile Ser Asp His Glu Ala Thr Leu Arg Cys Trp Ala Leu Gly Phe
195 200 205

Tyr Pro Ala Glu Ile Thr Leu Thr Trp Gln Arg Asp Gly Glu Asp Gln
210 215 220

Thr Gln Asp Thr Glu Leu Val Glu Thr Arg Pro Ala Gly Asp Arg Thr
225 230 235 240

Phe Gln Lys Trp Ala Ala Val Val Val Pro Ser Gly Glu Glu Gln Arg
245 250 255

Tyr Thr Cys His Val Gln His Glu Gly Leu Pro Lys Pro Leu Thr Leu
260 265 270

Arg Trp Glu Pro
275

<210> 58
<211> 276
<212> PRT
<213> Homo sapiens

<400> 58
Gly Ser His Ser Met Arg Tyr Phe Tyr Thr Ala Met Ser Arg Pro Gly
1 5 10 15

Arg Gly Glu Pro Arg Phe Ile Ala Val Gly Tyr Val Asp Asp Thr Gln
20 25 30

Phe Val Arg Phe Asp Ser Asp Ala Ala Ser Pro Arg Thr Glu Pro Arg
35 40 45

Ala Pro Trp Ile Glu Gln Glu Gly Pro Glu Tyr Trp Asp Gly Glu Thr
50 55 60

Arg Asn Met Lys Ala Ser Ala Gln Thr Tyr Arg Glu Asn Leu Arg Ile
65 70 75 80

Ala Leu Arg Cys Tyr Asn Gln Ser Glu Ala Gly Ser His Ile Ile Gln
85 90 95

Arg Met Tyr Gly Cys Asp Leu Gly Pro Asp Gly Arg Leu Leu Arg Gly
100 105 110

His Asp Gln Ser Ala Tyr Asp Gly Lys Asp Tyr Ile Ala Leu Asn Glu
115 120 125

Asp Leu Ser Ser Trp Thr Ala Ala Asp Thr Ala Ala Gln Ile Thr Gln
130 135 140

Arg Lys Trp Glu Ala Ala Arg Val Ala Glu Gln Leu Arg Ala Tyr Leu
 145 150 155 160

Glu Gly Leu Cys Val Glu Trp Leu Arg Arg Tyr Leu Glu Asn Gly Lys
 165 170 175

Glu Thr Leu Gln Arg Ala Asp Pro Pro Lys Thr His Val Thr His His
 180 185 190

Pro Val Ser Asp His Glu Ala Thr Leu Arg Cys Trp Ala Leu Gly Phe
 195 200 205

Tyr Pro Ala Glu Ile Thr Leu Thr Trp Gln Arg Asp Gly Glu Asp Gln
 210 215 220

Thr Gln Asp Thr Glu Leu Val Glu Thr Arg Pro Ala Gly Asp Arg Thr
 225 230 235 240

Phe Gln Lys Trp Ala Ala Val Val Val Pro Ser Gly Glu Glu Gln Arg
 245 250 255

Tyr Thr Cys His Val Gln His Glu Gly Leu Pro Lys Pro Leu Thr Leu
 260 265 270

Arg Trp Glu Pro
 275

<210> 59
 <211> 276
 <212> PRT
 <213> Homo sapiens

<400> 59
 Cys Ser His Ser Met Arg Tyr Phe Tyr Thr Ala Val Ser Arg Pro Ser
 1 5 10 15

Arg Gly Glu Pro His Phe Ile Ala Val Gly Tyr Val Asp Asp Thr Gln
 20 25 30

Phe Val Arg Phe Asp Ser Asp Ala Ala Ser Pro Arg Gly Glu Pro Arg
 35 40 45

Ala Pro Trp Val Glu Gln Glu Gly Pro Glu Tyr Trp Asp Arg Glu Thr
50 55 60

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

Leu Arg Gly Cys Tyr Asn Gln Ser Glu Ala Gly Ser His Thr Leu Gln
85 90 95

Arg Met Tyr Gly Cys Asp Leu Gly Pro Asp Gly Arg Leu Leu Arg Gly
100 105 110

Tyr Asp Gln Ser Ala Tyr Asp Gly Lys Asp Tyr Ile Ala Leu Asn Glu
115 120 125

Asp Leu Arg Ser Trp Thr Ala Ala Asp Thr Ala Ala Gln Ile Thr Gln
130 135 140

Arg Lys Trp Glu Ala Ala Arg Glu Ala Glu Gln Trp Arg Ala Tyr Leu
145 150 155 160

Glu Gly Glu Cys Val Glu Trp Leu Arg Arg Tyr Leu Glu Asn Gly Lys
165 170 175

Glu Thr Leu Gln Arg Ala Glu His Pro Lys Thr His Val Thr His His
180 185 190

Pro Val Ser Asp His Glu Ala Thr Leu Arg Cys Trp Ala Leu Gly Phe
195 200 205

Tyr Pro Thr Glu Ile Thr Leu Thr Trp Gln Arg Asp Gly Glu Asp Gln
210 215 220

Thr Gln Asp Thr Glu Leu Val Glu Thr Arg Pro Ala Gly Asp Gly Thr
225 230 235 240

Phe Gln Lys Trp Ala Ala Val Val Val Pro Ser Gly Glu Glu Gln Arg
245 250 255

Tyr Thr Cys His Val Gln His Glu Gly Leu Pro Glu Pro Leu Thr Leu
260 265 270

Arg Trp Glu Pro
275

<210> 60
<211> 276
<212> PRT
<213> Homo sapiens

<400> 60
Gly Ser His Ser Met Arg Tyr Phe Tyr Thr Ala Val Ser Arg Pro Gly
1 5 10 15

Arg Gly Glu Pro His Phe Ile Ala Val Gly Tyr Val Asp Asp Thr Gln
20 25 30

Phe Val Arg Phe Asp Ser Asp Ala Ala Ser Pro Arg Gly Glu Pro Arg
35 40 45

Ala Pro Trp Val Glu Gln Glu Gly Pro Glu Tyr Trp Asp Arg Glu Thr
50 55 60

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

Leu Arg Gly Cys Tyr Asn Gln Ser Glu Ala Gly Ser His Ile Ile Gln
85 90 95

Arg Met Tyr Gly Cys Asp Val Gly Pro Asp Gly Arg Leu Leu Arg Gly
100 105 110

Tyr Asp Gln Tyr Ala Tyr Asp Gly Lys Asp Tyr Ile Ala Leu Asn Glu
115 120 125

Asp Leu Arg Ser Trp Thr Ala Ala Asp Thr Ala Ala Gln Ile Thr Gln
130 135 140

Arg Lys Trp Glu Ala Ala Arg Glu Ala Glu Gln Leu Arg Ala Tyr Leu
145 150 155 160

Glu Gly Leu Cys Val Glu Trp Leu Arg Arg Tyr Leu Lys Asn Gly Lys
165 170 175

Glu Thr Leu Gln Arg Ala Glu His Pro Lys Thr His Val Thr His His
180 185 190

Pro Val Ser Asp His Glu Ala Thr Leu Arg Cys Trp Ala Leu Gly Phe
195 200 205

Tyr Pro Ala Glu Ile Thr Leu Thr Trp Gln Trp Asp Gly Glu Asp Gln
210 215 220

Thr Gln Asp Thr Glu Leu Val Glu Thr Arg Pro Ala Gly Asp Gly Thr
225 230 235 240

Phe Gln Lys Trp Ala Ala Val Val Val Pro Ser Gly Glu Glu Gln Arg
245 250 255

Tyr Thr Cys His Val Gln His Glu Gly Leu Pro Glu Pro Leu Thr Leu
260 265 270

Arg Trp Glu Pro
275

<210> 61
<211> 276
<212> PRT
<213> Homo sapiens

<400> 61
Cys Ser His Ser Met Arg Tyr Phe Tyr Thr Ala Val Ser Arg Pro Gly
1 5 10 15

Arg Gly Glu Pro Arg Phe Ile Ala Val Gly Tyr Val Asp Asp Thr Gln
20 25 30

Phe Val Gln Phe Asp Ser Asp Ala Ala Ser Pro Arg Gly Glu Pro Arg
35 40 45

Ala Pro Trp Val Glu Gln Glu Gly Pro Glu Tyr Trp Asp Arg Glu Thr
50 55 60

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

Leu Arg Gly Cys Tyr Asn Gln Ser Glu Ala Gly Ser His Thr Leu Gln
85 90 95

Arg Met Tyr Gly Cys Asp Leu Gly Pro Asp Gly Arg Leu Leu Arg Gly
100 105 110

Tyr Asn Gln Phe Ala Tyr Asp Gly Lys Asp Tyr Ile Ala Leu Asn Glu
115 120 125

Asp Leu Arg Ser Trp Thr Ala Ala Asp Lys Ala Ala Gln Ile Thr Gln
130 135 140

Arg Lys Trp Glu Ala Ala Arg Glu Ala Glu Gln Arg Arg Ala Tyr Leu
145 150 155 160

Glu Gly Thr Cys Val Glu Trp Leu Arg Arg Tyr Leu Glu Asn Gly Lys
165 170 175

Lys Thr Leu Gln Arg Ala Glu His Pro Lys Thr His Val Thr His His
180 185 190

Pro Val Ser Asp His Glu Ala Thr Leu Arg Cys Trp Ala Leu Gly Phe
195 200 205

Tyr Pro Ala Glu Ile Thr Leu Thr Trp Gln Arg Asp Gly Glu Asp Gln
210 215 220

Thr Gln Asp Thr Glu Leu Val Glu Thr Arg Pro Ala Gly Asp Gly Thr
225 230 235 240

Phe Gln Lys Trp Ala Ala Val Val Val Pro Ser Gly Glu Glu Gln Arg
245 250 255

Tyr Thr Cys His Val Gln His Glu Gly Leu Pro Glu Pro Leu Thr Leu
260 265 270

Arg Trp Gly Pro
275

<210> 62
 <211> 276
 <212> PRT
 <213> Homo sapiens

<400> 62

Cys Ser His Ser Met Arg Tyr Phe Asp Thr Ala Val Ser Arg Pro Gly
 1 5 10 15

Arg Gly Glu Pro Arg Phe Ile Ser Val Gly Tyr Val Asp Asp Thr Gln
 20 25 30

Phe Val Arg Phe Asp Ser Asp Ala Ala Ser Pro Arg Gly Glu Pro Arg
 35 40 45

Ala Pro Trp Val Glu Gln Glu Gly Pro Glu Tyr Trp Asp Arg Glu Thr
 50 55 60

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

Leu Arg Gly Cys Tyr Asn Gln Ser Glu Asp Gly Ser His Thr Leu Gln
 85 90 95

Arg Met Tyr Gly Cys Asp Leu Gly Pro Asp Gly Arg Leu Leu Arg Gly
 100 105 110

Tyr Asp Gln Ser Ala Tyr Asp Gly Lys Asp Tyr Ile Ala Leu Asn Glu
 115 120 125

Asp Leu Arg Ser Trp Thr Ala Ala Asp Thr Ala Ala Gln Ile Thr Gln
 130 135 140

Arg Lys Leu Glu Ala Ala Arg Ala Ala Glu Gln Leu Arg Ala Tyr Leu
 145 150 155 160

Glu Gly Thr Cys Val Glu Trp Leu Arg Arg Tyr Leu Glu Asn Gly Lys
 165 170 175

Glu Thr Leu Gln Arg Ala Glu Pro Pro Lys Thr His Val Thr His His
 180 185 190

Pro Leu Ser Asp His Glu Ala Thr Leu Arg Cys Trp Ala Leu Gly Phe
195 200 205

Tyr Pro Ala Glu Ile Thr Leu Thr Trp Gln Arg Asp Gly Glu Asp Gln
210 215 220

Thr Gln Asp Thr Glu Leu Val Glu Thr Arg Pro Ala Gly Asp Gly Thr
225 230 235 240

Phe Gln Lys Trp Ala Ala Val Val Val Pro Ser Gly Gln Glu Gln Arg
245 250 255

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

Ser Trp Glu Pro
275

<210> 63
<211> 276
<212> PRT
<213> Homo sapiens

<400> 63
Gly Ser His Ser Met Arg Tyr Phe Tyr Thr Ser Val Ser Arg Pro Gly
1 5 10 15

Arg Gly Glu Pro Arg Phe Ile Ala Val Gly Tyr Val Asp Asp Thr Gln
20 25 30

Phe Val Arg Phe Asp Ser Asp Ala Ala Ser Gln Arg Met Glu Pro Arg
35 40 45

Ala Pro Trp Ile Glu Gln Glu Gly Pro Glu Tyr Trp Asp Gln Glu Thr
50 55 60

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

Leu Arg Gly Cys Tyr Asn Gln Ser Glu Asp Gly Ser His Thr Ile Gln
85 90 95

Ile Met Tyr Gly Cys Asp Val Gly Pro Asp Gly Arg Phe Leu Arg Gly
100 105 110

Tyr Arg Gln Asp Ala Tyr Asp Gly Lys Asp Tyr Ile Ala Leu Asn Glu
115 120 125

Asp Leu Arg Ser Trp Thr Ala Ala Asp Met Ala Ala Gln Ile Thr Lys
130 135 140

Arg Lys Trp Glu Ala Ala His Ala Ala Glu Gln Gln Arg Ala Tyr Leu
145 150 155 160

Glu Gly Arg Cys Val Glu Trp Leu Arg Arg Tyr Leu Glu Asn Gly Lys
165 170 175

Glu Thr Leu Gln Arg Thr Asp Pro Pro Lys Thr His Met Thr His His
180 185 190

Pro Ile Ser Asp His Glu Ala Thr Leu Arg Cys Trp Ala Leu Gly Phe
195 200 205

Tyr Pro Ala Glu Ile Thr Leu Thr Trp Gln Arg Asp Gly Glu Asp Gln
210 215 220

Thr Gln Asp Thr Glu Leu Val Glu Thr Arg Pro Ala Gly Asp Gly Thr
225 230 235 240

Phe Gln Lys Trp Ala Ala Val Val Val Pro Ser Gly Glu Glu Gln Arg
245 250 255

Tyr Thr Cys His Val Gln His Glu Gly Leu Pro Lys Pro Leu Thr Leu
260 265 270

Arg Trp Glu Leu
275

<210> 64

<211> 276

<212> PRT

<213> Homo sapiens

<400> 64

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

Arg Gly Glu Pro Arg Phe Ile Ala Val Gly Tyr Val Asp Asp Thr Gln
 20 25 30

Phe Val Arg Phe Asp Ser Asp Ala Ala Ser Gln Arg Met Glu Pro Arg
 35 40 45

Ala Pro Trp Ile Glu Gln Glu Gly Pro Glu Tyr Trp Asp Glu Glu Thr
 50 55 60

Gly Lys Val Lys Ala His Ser Gln Thr Asp Arg Glu Asn Leu Arg Ile
 65 70 75 80

Ala Leu Arg Cys Tyr Asn Gln Ser Glu Ala Gly Ser His Thr Leu Gln
 85 90 95

Met Met Phe Gly Cys Asp Val Gly Ser Asp Gly Arg Phe Leu Arg Gly
 100 105 110

Tyr His Gln Tyr Ala Tyr Asp Gly Lys Asp Tyr Ile Ala Leu Lys Glu
 115 120 125

Asp Leu Arg Ser Trp Thr Ala Ala Asp Met Ala Ala Gln Ile Thr Gln
 130 135 140

Arg Lys Trp Glu Ala Ala Arg Val Ala Glu Gln Leu Arg Ala Tyr Leu
 145 150 155 160

Glu Gly Thr Cys Val Asp Gly Leu Arg Arg Tyr Leu Glu Asn Gly Lys
 165 170 175

Glu Thr Leu Gln Arg Thr Asp Pro Pro Lys Thr His Met Thr His His
 180 185 190

Pro Ile Ser Asp His Glu Ala Thr Leu Arg Cys Trp Ala Leu Gly Phe
 195 200 205

Tyr Pro Ala Glu Ile Thr Leu Thr Trp Gln Arg Asp Gly Glu Asp Gln
 210 215 220

Thr Gln Asp Thr Glu Leu Val Glu Thr Arg Pro Ala Gly Asp Gly Thr
 225 230 235 240

Phe Gln Lys Trp Ala Ala Val Val Val Pro Ser Gly Glu Glu Gln Arg
 245 250 255

Tyr Thr Cys His Val Gln His Glu Gly Leu Pro Lys Pro Leu Thr Leu
 260 265 270

Arg Trp Glu Pro
 275

<210> 65
 <211> 276
 <212> PRT
 <213> Homo sapiens

<400> 65
 Gly Ser His Ser Met Arg Tyr Phe Ser Thr Ser Val Ser Arg Pro Gly
 1 5 10 15

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

Phe Val Arg Phe Asp Ser Asp Ala Ala Ser Gln Arg Met Glu Pro Arg
 35 40 45

Ala Pro Trp Ile Glu Gln Glu Arg Pro Glu Tyr Trp Asp Gln Glu Thr
 50 55 60

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

Leu Arg Gly Cys Tyr Asn Gln Ser Glu Ala Gly Ser His Thr Ile Gln
 85 90 95

Ile Met Tyr Gly Cys Asp Val Gly Ser Asp Gly Arg Phe Leu Arg Gly
 100 105 110

Tyr Glu Gln His Ala Tyr Asp Gly Lys Asp Tyr Ile Ala Leu Asn Glu
 115 120 125

Asp Leu Arg Ser Trp Thr Ala Ala Asp Met Ala Ala Gln Ile Thr Gln
 130 135 140

Arg Lys Trp Glu Ala Ala Arg Trp Ala Glu Gln Leu Arg Ala Tyr Leu
 145 150 155 160

Glu Gly Thr Cys Val Glu Trp Leu Arg Arg Tyr Leu Glu Asn Gly Lys
 165 170 175

Glu Thr Leu Gln Arg Thr Asp Pro Pro Lys Thr His Met Thr His His
 180 185 190

Pro Ile Ser Asp His Glu Ala Thr Leu Arg Cys Trp Ala Leu Gly Phe
 195 200 205

Tyr Pro Ala Glu Ile Thr Leu Thr Trp Gln Arg Asp Gly Glu Asp Gln
 210 215 220

Thr Gln Asp Thr Glu Leu Val Glu Thr Arg Pro Ala Gly Asp Gly Thr
 225 230 235 240

Phe Gln Lys Trp Ala Ala Val Val Val Pro Ser Gly Glu Glu Gln Arg
 245 250 255

Tyr Thr Cys His Val Gln His Glu Gly Leu Pro Lys Pro Leu Thr Leu
 260 265 270

Arg Trp Glu Leu
 275

<210> 66
 <211> 276
 <212> PRT
 <213> Homo sapiens

<400> 66
 Gly Ser His Ser Met Arg Tyr Phe Thr Thr Ser Val Ser Arg Pro Gly
 1 5 10 15

Arg Gly Glu Pro Arg Phe Ile Ala Val Gly Tyr Val Asp Asp Thr Gln
 20 25 30

Phe Val Arg Phe Asp Ser Asp Ala Ala Ser Gln Arg Met Glu Pro Arg
35 40 45

Ala Pro Trp Ile Glu Gln Glu Gly Pro Glu Tyr Trp Asp Arg Asn Thr
50 55 60

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

Leu Arg Gly Cys Tyr Asn Gln Ser Glu Ala Gly Ser His Thr Ile Gln
85 90 95

Met Met Tyr Gly Cys Asp Val Gly Ser Asp Gly Arg Phe Leu Arg Gly
100 105 110

Tyr Gln Gln Asp Ala Tyr Asp Gly Lys Asp Tyr Ile Ala Leu Asn Glu
115 120 125

Asp Leu Arg Ser Trp Thr Ala Ala Asp Met Ala Ala Gln Ile Thr Gln
130 135 140

Arg Lys Trp Glu Ala Ala Arg Val Ala Glu Gln Leu Arg Ala Tyr Leu
145 150 155 160

Glu Gly Thr Cys Val Glu Trp Leu Arg Arg Tyr Leu Glu Asn Gly Lys
165 170 175

Glu Thr Leu Gln Arg Thr Asp Pro Pro Lys Thr His Met Thr His His
180 185 190

Ala Val Ser Asp His Glu Ala Thr Leu Arg Cys Trp Ala Leu Ser Phe
195 200 205

Tyr Pro Ala Glu Ile Thr Leu Thr Trp Gln Arg Asp Gly Glu Asp Gln
210 215 220

Thr Gln Asp Thr Glu Leu Val Glu Thr Arg Pro Ala Gly Asp Gly Thr
225 230 235 240

Phe Gln Lys Trp Ala Ser Val Val Val Pro Ser Gly Gln Glu Gln Arg
245 250 255

Tyr Thr Cys His Val Gln His Glu Gly Leu Pro Lys Pro Leu Thr Leu
260 265 270

Arg Trp Glu Pro
275

<210> 67
<211> 276
<212> PRT
<213> Homo sapiens

<400> 67
Gly Ser His Ser Met Arg Tyr Phe Asp Thr Ala Met Ser Arg Pro Gly
1 5 10 15

Arg Gly Glu Pro Arg Phe Ile Ser Val Gly Tyr Val Asp Asp Thr Gln
20 25 30

Phe Val Arg Phe Asp Ser Asp Ala Ala Ser Pro Arg Glu Glu Pro Arg
35 40 45

Ala Pro Trp Ile Glu Gln Glu Gly Pro Glu Tyr Trp Asp Arg Asn Thr
50 55 60

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

Leu Arg Gly Cys Tyr Asn Gln Ser Glu Ala Gly Ser His Thr Leu Gln
85 90 95

Ser Met Tyr Gly Cys Asp Val Gly Pro Asp Gly Arg Leu Leu Arg Gly
100 105 110

His Asn Gln Tyr Ala Tyr Asp Gly Lys Asp Tyr Ile Ala Leu Asn Glu
115 120 125

Asp Leu Arg Ser Trp Thr Ala Ala Asp Thr Ala Ala Gln Ile Thr Gln
130 135 140

Arg Lys Trp Glu Ala Ala Arg Val Ala Glu Gln Asp Arg Ala Tyr Leu
 145 150 155 160

Glu Gly Thr Cys Val Glu Trp Leu Arg Arg Tyr Leu Glu Asn Gly Lys
 165 170 175

Asp Thr Leu Glu Arg Ala Asp Pro Pro Lys Thr His Val Thr His His
 180 185 190

Pro Ile Ser Asp His Glu Ala Thr Leu Arg Cys Trp Ala Leu Gly Phe
 195 200 205

Tyr Pro Ala Glu Ile Thr Leu Thr Trp Gln Arg Asp Gly Glu Asp Gln
 210 215 220

Thr Gln Asp Thr Glu Leu Val Glu Thr Arg Pro Ala Gly Asp Arg Thr
 225 230 235 240

Phe Gln Lys Trp Ala Ala Val Val Val Pro Ser Gly Glu Glu Gln Arg
 245 250 255

Tyr Thr Cys His Val Gln His Glu Gly Leu Pro Lys Pro Leu Thr Leu
 260 265 270

Arg Trp Glu Pro
 275

<210> 68
 <211> 276
 <212> PRT
 <213> Homo sapiens

<400> 68
 Gly Ser His Ser Met Arg Tyr Phe Tyr Thr Ala Met Ser Arg Pro Gly
 1 5 10 15

Arg Gly Glu Pro Arg Phe Ile Ala Val Gly Tyr Val Asp Asp Thr Gln
 20 25 30

Phe Val Arg Phe Asp Ser Asp Ala Ala Ser Pro Arg Met Ala Pro Arg
 35 40 45

Ala Pro Trp Ile Glu Gln Glu Gly Pro Glu Tyr Trp Asp Arg Glu Thr
50 55 60

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

Leu Arg Gly Cys Tyr Asn Gln Ser Glu Ala Gly Ser His Thr Leu Gln
85 90 95

Arg Met Tyr Gly Cys Asp Val Gly Pro Asp Gly Arg Leu Leu Arg Gly
100 105 110

His Asp Gln Ser Ala Tyr Asp Gly Lys Asp Tyr Ile Ala Leu Asn Glu
115 120 125

Asp Leu Ser Ser Trp Thr Ala Ala Asp Thr Ala Ala Gln Ile Thr Gln
130 135 140

Arg Lys Trp Glu Ala Ala Arg Glu Ala Glu Gln Trp Arg Ala Tyr Leu
145 150 155 160

Glu Gly Leu Cys Val Glu Trp Leu Arg Arg Tyr Leu Glu Asn Gly Lys
165 170 175

Glu Thr Leu Gln Arg Ala Asp Pro Pro Lys Thr His Val Thr His His
180 185 190

Pro Ile Ser Asp His Glu Ala Thr Leu Arg Cys Trp Ala Leu Gly Phe
195 200 205

Tyr Pro Ala Glu Ile Thr Leu Thr Trp Gln Arg Asp Gly Glu Asp Gln
210 215 220

Thr Gln Asp Thr Glu Leu Val Glu Thr Arg Pro Ala Gly Asp Arg Thr
225 230 235 240

Phe Gln Lys Trp Ala Ala Val Val Val Pro Ser Gly Glu Glu Gln Arg
245 250 255

Tyr Thr Cys His Val Gln His Glu Gly Leu Pro Lys Pro Leu Thr Leu
260 265 270

Arg Trp Glu Pro
275

<210> 69
<211> 276
<212> PRT
<213> Homo sapiens

<400> 69
Gly Ser His Ser Met Arg Tyr Phe Tyr Thr Ala Met Ser Arg Pro Gly
1 5 10 15

Arg Gly Glu Pro Arg Phe Ile Ser Val Gly Tyr Val Asp Asp Thr Gln
20 25 30

Phe Val Arg Phe Asp Ser Asp Ala Ala Ser Pro Arg Glu Glu Pro Arg
35 40 45

Ala Pro Trp Ile Glu Gln Glu Gly Pro Glu Tyr Trp Asp Arg Glu Thr
50 55 60

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

Leu Arg Gly Cys Tyr Asn Gln Ser Glu Ala Gly Ser His Thr Leu Gln
85 90 95

Arg Met Tyr Gly Cys Asp Val Gly Pro Asp Gly Arg Leu Leu Arg Gly
100 105 110

His Asp Gln Ser Ala Tyr Asp Gly Lys Asp Tyr Ile Ala Leu Asn Glu
115 120 125

Asp Leu Ser Ser Trp Thr Ala Ala Asp Thr Ala Ala Gln Ile Thr Gln
130 135 140

Arg Lys Trp Glu Ala Ala Arg Glu Ala Glu Gln Leu Arg Ala Tyr Leu
145 150 155 160

Glu Gly Leu Cys Val Glu Trp Leu Arg Arg Tyr Leu Glu Asn Gly Lys
165 170 175

Glu Thr Leu Gln Arg Ala Asp Pro Pro Lys Thr His Val Thr His His
180 185 190

Pro Ile Ser Asp His Glu Ala Thr Leu Arg Cys Trp Ala Leu Gly Phe
195 200 205

Tyr Pro Ala Glu Ile Thr Leu Thr Trp Gln Arg Asp Gly Glu Asp Gln
210 215 220

Thr Gln Asp Thr Glu Leu Val Glu Thr Arg Pro Ala Gly Asp Arg Thr
225 230 235 240

Phe Gln Lys Trp Ala Ala Val Val Val Pro Ser Gly Glu Glu Gln Arg
245 250 255

Tyr Thr Cys His Val Gln His Glu Gly Leu Pro Lys Pro Leu Thr Leu
260 265 270

Arg Trp Glu Pro
275

<210> 70
<211> 276
<212> PRT
<213> Homo sapiens

<400> 70
Gly Ser His Ser Met Arg Tyr Phe Tyr Thr Ala Met Ser Arg Pro Gly
1 5 10 15

Arg Gly Glu Pro Arg Phe Ile Ala Val Gly Tyr Val Asp Asp Thr Gln
20 25 30

Phe Val Arg Phe Asp Ser Asp Ala Ala Ser Pro Arg Thr Glu Pro Arg
35 40 45

Ala Pro Trp Ile Glu Gln Glu Gly Pro Glu Tyr Trp Asp Arg Asn Thr
50 55 60

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

Leu Arg Gly Cys Tyr Asn Gln Ser Glu Ala Gly Ser His Ile Ile Gln
85 90 95

Arg Met Tyr Gly Cys Asp Leu Gly Pro Asp Gly Arg Leu Leu Arg Gly
100 105 110

His Asp Gln Ser Ala Tyr Asp Gly Lys Asp Tyr Ile Ala Leu Asn Glu
115 120 125

Asp Leu Ser Ser Trp Thr Ala Ala Asp Thr Ala Ala Gln Ile Thr Gln
130 135 140

Arg Lys Trp Glu Ala Ala Arg Val Ala Glu Gln Leu Arg Ala Tyr Leu
145 150 155 160

Glu Gly Leu Cys Val Glu Trp Leu Arg Arg Tyr Leu Glu Asn Gly Lys
165 170 175

Glu Thr Leu Gln Arg Ala Asp Pro Pro Lys Thr His Val Thr His His
180 185 190

Pro Val Ser Asp His Glu Ala Thr Leu Arg Cys Trp Ala Leu Gly Phe
195 200 205

Tyr Pro Ala Glu Ile Thr Leu Thr Trp Gln Arg Asp Gly Glu Asp Gln
210 215 220

Thr Gln Asp Thr Glu Leu Val Glu Thr Arg Pro Ala Gly Asp Arg Thr
225 230 235 240

Phe Gln Lys Trp Ala Ala Val Val Val Pro Ser Gly Glu Glu Gln Arg
245 250 255

Tyr Thr Cys His Val Gln His Glu Gly Leu Pro Lys Pro Leu Thr Leu
260 265 270

Arg Trp Glu Pro
275

<210> 71
 <211> 276
 <212> PRT
 <213> Homo sapiens

<400> 71

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

Arg Gly Glu Pro Arg Phe Ile Thr Val Gly Tyr Val Asp Asp Thr Leu
 20 25 30

Phe Val Arg Phe Asp Ser Asp Ala Thr Ser Pro Arg Lys Glu Pro Arg
 35 40 45

Ala Pro Trp Ile Glu Gln Glu Gly Pro Glu Tyr Trp Asp Arg Glu Thr
 50 55 60

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

Leu Arg Gly Cys Tyr Asn Gln Ser Glu Ala Gly Ser His Thr Leu Gln
 85 90 95

Ser Met Tyr Gly Cys Asp Val Gly Pro Asp Gly Arg Leu Leu Arg Gly
 100 105 110

His Asn Gln Tyr Ala Tyr Asp Gly Lys Asp Tyr Ile Ala Leu Asn Glu
 115 120 125

Asp Leu Arg Ser Trp Thr Ala Ala Asp Thr Ala Ala Gln Ile Thr Gln
 130 135 140

Arg Lys Trp Glu Ala Ala Arg Val Ala Glu Gln Leu Arg Ala Tyr Leu
 145 150 155 160

Glu Gly Glu Cys Val Glu Trp Leu Arg Arg Tyr Leu Glu Asn Gly Lys
 165 170 175

Glu Thr Leu Gln Arg Ala Asp Pro Pro Lys Thr His Val Thr His His
 180 185 190

Pro Ile Ser Asp His Glu Ala Thr Leu Arg Cys Trp Ala Leu Gly Phe
195 200 205

Tyr Pro Ala Glu Ile Thr Leu Thr Trp Gln Arg Asp Gly Glu Asp Gln
210 215 220

Thr Gln Asp Thr Glu Leu Val Glu Thr Arg Pro Ala Gly Asp Arg Thr
225 230 235 240

Phe Gln Lys Trp Ala Ala Val Val Val Pro Ser Gly Glu Glu Gln Arg
245 250 255

Tyr Thr Cys His Val Gln His Glu Gly Leu Pro Lys Pro Leu Thr Leu
260 265 270

Arg Trp Glu Pro
275

<210> 72
<211> 276
<212> PRT
<213> Homo sapiens

<400> 72
Gly Ser His Ser Met Arg Tyr Phe Tyr Thr Ser Val Ser Arg Pro Gly
1 5 10 15

Arg Gly Glu Pro Arg Phe Ile Ser Val Gly Tyr Val Asp Asp Thr Gln
20 25 30

Phe Val Arg Phe Asp Ser Asp Ala Ala Ser Pro Arg Glu Glu Pro Arg
35 40 45

Ala Pro Trp Ile Glu Gln Glu Gly Pro Glu Tyr Trp Asp Arg Asn Thr
50 55 60

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

Leu Arg Gly Cys Tyr Asn Gln Ser Glu Ala Gly Ser His Thr Leu Gln
85 90 95

Ser Met Tyr Gly Cys Asp Val Gly Pro Asp Gly Arg Leu Leu Arg Gly
100 105 110

His Asn Gln Tyr Ala Tyr Asp Gly Lys Asp Tyr Ile Ala Leu Asn Glu
115 120 125

Asp Leu Arg Ser Trp Thr Ala Ala Asp Thr Ala Ala Gln Ile Thr Gln
130 135 140

Arg Lys Trp Glu Ala Ala Arg Val Ala Glu Gln Asp Arg Ala Tyr Leu
145 150 155 160

Glu Gly Thr Cys Val Glu Trp Leu Arg Arg Tyr Leu Glu Asn Gly Lys
165 170 175

Asp Thr Leu Glu Arg Ala Asp Pro Pro Lys Thr His Val Thr His His
180 185 190

Pro Ile Ser Asp His Glu Ala Thr Leu Arg Cys Trp Ala Leu Gly Phe
195 200 205

Tyr Pro Ala Glu Ile Thr Leu Thr Trp Gln Arg Asp Gly Glu Asp Gln
210 215 220

Thr Gln Asp Thr Glu Leu Val Glu Thr Arg Pro Ala Gly Asp Arg Thr
225 230 235 240

Phe Gln Lys Trp Ala Ala Val Val Val Pro Ser Gly Glu Glu Gln Arg
245 250 255

Tyr Thr Cys His Val Gln His Glu Gly Leu Pro Lys Pro Leu Thr Leu
260 265 270

Arg Trp Glu Pro
275

<210> 73

<211> 276

<212> PRT

<213> Homo sapiens

<400> 73

Gly Ser His Ser Met Arg Tyr Phe Tyr Thr Ala Met Ser Arg Pro Gly
 1 5 10 15

Arg Gly Glu Pro Arg Phe Ile Thr Val Gly Tyr Val Asp Asp Thr Leu
 20 25 30

Phe Val Arg Phe Asp Ser Asp Ala Thr Ser Pro Arg Lys Glu Pro Arg
 35 40 45

Ala Pro Trp Ile Glu Gln Glu Gly Pro Glu Tyr Trp Asp Arg Glu Thr
 50 55 60

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

Ala Leu Arg Cys Tyr Asn Gln Ser Glu Ala Gly Ser His Ile Ile Gln
 85 90 95

Arg Met Tyr Gly Cys Asp Val Gly Pro Asp Gly Arg Leu Leu Arg Gly
 100 105 110

Tyr Asp Gln Asp Ala Tyr Asp Gly Lys Asp Tyr Ile Ala Leu Asn Glu
 115 120 125

Asp Leu Ser Ser Trp Thr Ala Ala Asp Thr Ala Ala Gln Ile Thr Gln
 130 135 140

Arg Lys Trp Glu Ala Ala Arg Val Ala Glu Gln Leu Arg Ala Tyr Leu
 145 150 155 160

Glu Gly Leu Cys Val Glu Ser Leu Arg Arg Tyr Leu Glu Asn Gly Lys
 165 170 175

Glu Thr Leu Gln Arg Ala Asp Pro Pro Lys Thr His Val Thr His His
 180 185 190

Pro Ile Ser Asp His Glu Val Thr Leu Arg Cys Trp Ala Leu Gly Phe
 195 200 205

Tyr Pro Ala Glu Ile Thr Leu Thr Trp Gln Arg Asp Gly Glu Asp Gln
 210 215 220

Thr Gln Asp Thr Glu Leu Val Glu Thr Arg Pro Ala Gly Asp Arg Thr
 225 230 235 240

Phe Gln Lys Trp Ala Ala Val Val Val Pro Ser Gly Glu Glu Gln Arg
 245 250 255

Tyr Thr Cys His Val Gln His Glu Gly Leu Pro Lys Pro Leu Thr Leu
 260 265 270

Arg Trp Glu Pro
 275

<210> 74
 <211> 276
 <212> PRT
 <213> Homo sapiens

<400> 74
 Gly Ser His Ser Met Arg Tyr Phe Tyr Thr Ala Met Ser Arg Pro Gly
 1 5 10 15

Arg Gly Glu Pro Arg Phe Ile Ala Val Gly Tyr Val Asp Asp Thr Gln
 20 25 30

Phe Val Arg Phe Asp Ser Asp Ala Ala Ser Pro Arg Thr Glu Pro Arg
 35 40 45

Ala Pro Trp Ile Glu Gln Glu Gly Pro Glu Tyr Trp Asp Arg Asn Thr
 50 55 60

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

Ala Leu Arg Cys Tyr Asn Gln Ser Glu Ala Gly Ser His Thr Trp Gln
 85 90 95

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

His Asn Gln Tyr Ala Tyr Asp Gly Lys Asp Tyr Ile Ala Leu Asn Glu
 115 120 125

Asp Leu Ser Ser Trp Thr Ala Ala Asp Thr Ala Ala Gln Ile Thr Gln
 130 135 140

Arg Lys Trp Glu Ala Ala Arg Glu Ala Glu Gln Leu Arg Ala Tyr Leu
 145 150 155 160

Glu Gly Leu Cys Val Glu Trp Leu Arg Arg His Leu Glu Asn Gly Lys
 165 170 175

Glu Thr Leu Gln Arg Ala Asp Pro Pro Lys Thr His Val Thr His His
 180 185 190

Pro Val Ser Asp His Glu Ala Thr Leu Arg Cys Trp Ala Leu Gly Phe
 195 200 205

Tyr Pro Ala Glu Ile Thr Leu Thr Trp Gln Arg Asp Gly Glu Asp Gln
 210 215 220

Thr Gln Asp Thr Glu Leu Val Glu Thr Arg Pro Ala Gly Asp Arg Thr
 225 230 235 240

Phe Gln Lys Trp Ala Ala Val Val Val Pro Ser Gly Glu Glu Gln Arg
 245 250 255

Tyr Thr Cys His Val Gln His Glu Gly Leu Pro Lys Pro Leu Thr Leu
 260 265 270

Arg Trp Glu Pro
 275

<210> 75
 <211> 276
 <212> PRT
 <213> Homo sapiens

<400> 75
 Gly Ser His Ser Met Arg Tyr Phe Tyr Thr Ala Met Ser Arg Pro Gly
 1 5 10 15

Arg Gly Glu Pro Arg Phe Ile Ala Val Gly Tyr Val Asp Asp Thr Gln
 20 25 30

Phe Val Arg Phe Asp Ser Asp Ala Ala Ser Pro Arg Thr Glu Pro Arg
35 40 45

Ala Pro Trp Ile Glu Gln Glu Gly Pro Glu Tyr Trp Asp Arg Asn Thr
50 55 60

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

Ala Leu Arg Cys Tyr Asn Gln Ser Glu Ala Gly Ser His Ile Ile Gln
85 90 95

Arg Met Tyr Gly Cys Asp Leu Gly Pro Asp Gly Arg Leu Leu Arg Gly
100 105 110

His Asp Gln Ser Ala Tyr Asp Gly Lys Asp Tyr Ile Ala Leu Asn Glu
115 120 125

Asp Leu Ser Ser Trp Thr Ala Ala Asp Thr Ala Ala Gln Ile Thr Gln
130 135 140

Arg Lys Trp Glu Ala Ala Arg Val Ala Glu Gln Leu Arg Ala Tyr Leu
145 150 155 160

Glu Gly Leu Cys Val Glu Trp Leu Arg Arg Tyr Leu Glu Asn Gly Lys
165 170 175

Glu Thr Leu Gln Arg Ala Asp Pro Pro Lys Thr His Val Thr His His
180 185 190

Pro Val Ser Asp His Glu Ala Thr Leu Arg Cys Trp Ala Leu Gly Phe
195 200 205

Tyr Pro Ala Glu Ile Thr Leu Thr Trp Gln Arg Asp Gly Glu Asp Gln
210 215 220

Thr Gln Asp Thr Glu Leu Val Glu Thr Arg Pro Ala Gly Asp Arg Thr
225 230 235 240

Phe Gln Lys Trp Ala Ala Val Val Val Pro Ser Gly Glu Glu Gln Arg
245 250 255

Tyr Thr Cys His Val Gln His Glu Gly Leu Pro Lys Pro Leu Thr Leu
260 265 270

Arg Trp Glu Pro
275

<210> 76
<211> 276
<212> PRT
<213> Homo sapiens

<400> 76
Cys Ser His Ser Met Lys Tyr Phe Phe Thr Ser Val Ser Arg Pro Gly
1 5 10 15

Arg Gly Glu Pro Arg Phe Ile Ser Val Gly Tyr Val Asp Asp Thr Gln
20 25 30

Phe Val Arg Phe Asp Ser Asp Ala Ala Ser Pro Arg Gly Glu Pro Arg
35 40 45

Ala Pro Trp Val Glu Gln Glu Gly Pro Glu Tyr Trp Asp Arg Glu Thr
50 55 60

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

Leu Arg Gly Cys Tyr Asn Gln Ser Glu Ala Gly Ser His Thr Leu Gln
85 90 95

Trp Met Cys Gly Cys Asp Leu Gly Pro Asp Gly Arg Leu Leu Arg Gly
100 105 110

Tyr Asp Gln Tyr Ala Tyr Asp Gly Lys Asp Tyr Ile Ala Leu Asn Glu
115 120 125

Asp Leu Arg Ser Trp Thr Ala Ala Asp Thr Ala Ala Gln Ile Thr Gln
130 135 140

Arg Lys Trp Glu Ala Ala Arg Glu Ala Glu Gln Arg Arg Ala Tyr Leu
145 150 155 160

Glu Gly Thr Cys Val Glu Trp Leu Arg Arg Tyr Leu Glu Asn Gly Lys
165 170 175

Glu Thr Leu Gln Arg Ala Glu His Pro Lys Thr His Val Thr His His
180 185 190

Pro Val Ser Asp His Glu Ala Thr Leu Arg Cys Trp Ala Leu Gly Phe
195 200 205

Tyr Pro Ala Glu Ile Thr Leu Thr Trp Gln Trp Asp Gly Glu Asp Gln
210 215 220

Thr Gln Asp Thr Glu Leu Val Glu Thr Arg Pro Ala Gly Asp Gly Thr
225 230 235 240

Phe Gln Lys Trp Ala Ala Val Met Val Pro Ser Gly Glu Glu Gln Arg
245 250 255

Tyr Thr Cys His Val Gln His Glu Gly Leu Pro Glu Pro Leu Thr Leu
260 265 270

Arg Trp Glu Pro
275

<210> 77
<211> 276
<212> PRT
<213> Homo sapiens

<400> 77
Gly Ser His Ser Met Arg Tyr Phe Ser Thr Ser Val Ser Trp Pro Gly
1 5 10 15

Arg Gly Glu Pro Arg Phe Ile Ala Val Gly Tyr Val Asp Asp Thr Gln
20 25 30

Phe Val Arg Phe Asp Ser Asp Ala Ala Ser Pro Arg Gly Glu Pro Arg
35 40 45

Glu Pro Trp Val Glu Gln Glu Gly Pro Glu Tyr Trp Asp Arg Glu Thr
50 55 60

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

Leu Arg Gly Cys Tyr Asn Gln Ser Glu Asp Gly Ser His Thr Leu Gln
85 90 95

Arg Met Phe Gly Cys Asp Leu Gly Pro Asp Gly Arg Leu Leu Arg Gly
100 105 110

Tyr Asn Gln Phe Ala Tyr Asp Gly Lys Asp Tyr Ile Ala Leu Asn Glu
115 120 125

Asp Leu Arg Ser Trp Thr Ala Ala Asp Thr Ala Ala Gln Ile Thr Gln
130 135 140

Arg Lys Trp Glu Ala Ala Arg Glu Ala Glu Gln Arg Arg Ala Tyr Leu
145 150 155 160

Glu Gly Thr Cys Val Glu Trp Leu Arg Arg Tyr Leu Glu Asn Gly Lys
165 170 175

Glu Thr Leu Gln Arg Ala Glu His Pro Lys Thr His Val Thr His His
180 185 190

Pro Val Ser Asp His Glu Ala Thr Leu Arg Cys Trp Ala Leu Gly Phe
195 200 205

Tyr Pro Ala Glu Ile Thr Leu Thr Trp Gln Trp Asp Gly Glu Asp Gln
210 215 220

Thr Gln Asp Thr Glu Leu Val Glu Thr Arg Pro Ala Gly Asp Gly Thr
225 230 235 240

Phe Gln Lys Trp Ala Ala Val Val Val Pro Ser Gly Glu Glu Gln Arg
245 250 255

Tyr Thr Cys His Val Gln His Glu Gly Leu Pro Glu Pro Leu Thr Leu
260 265 270

Arg Trp Lys Pro
275

<210> 78
<211> 275
<212> PRT
<213> Homo sapiens

<400> 78
Cys Ser His Ser Met Arg Tyr Phe Asp Thr Ala Val Ser Arg Pro Gly
1 5 10 15

Arg Gly Glu Pro Arg Phe Ile Ser Val Gly Tyr Val Asp Asp Thr Gln
20 25 30

Phe Val Arg Phe Asp Ser Asp Ala Ala Ser Pro Arg Gly Glu Pro Arg
35 40 45

Ala Pro Trp Val Glu Gln Glu Gly Pro Glu Tyr Trp Asp Arg Glu Thr
50 55 60

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

Leu Arg Gly Cys Tyr Asn Gln Ser Glu Asp Gly Ser His Thr Leu Gln
85 90 95

Trp Met Tyr Gly Cys Asp Leu Gly Pro Asp Gly Arg Leu Leu Arg Gly
100 105 110

Tyr Asp Gln Ser Ala Tyr Asp Gly Lys Asp Tyr Ile Ala Leu Asn Glu
115 120 125

Asp Leu Arg Ser Trp Thr Ala Ala Asp Thr Ala Ala Gln Ile Thr Gln
130 135 140

Arg Lys Trp Glu Ala Ala Arg Glu Ala Glu Gln Trp Arg Ala Tyr Leu
145 150 155 160

Glu Gly Thr Cys Val Glu Trp Leu Arg Arg Tyr Leu Glu Asn Gly Lys
165 170 175

Glu Thr Leu Gln Arg Ala Glu His Pro Lys Thr His Val Thr His His
180 185 190

Pro Val Ser Asp His Glu Ala Thr Leu Arg Cys Trp Ala Leu Gly Phe
195 200 205

Tyr Pro Ala Glu Ile Thr Leu Thr Trp Gln Arg Asp Gly Glu Asp Gln
210 215 220

Thr Gln Asp Thr Glu Leu Val Glu Thr Arg Pro Ala Gly Asp Gly Thr
225 230 235 240

Phe Gln Lys Trp Ala Ala Val Val Val Pro Ser Gly Glu Glu Gln Arg
245 250 255

Tyr Thr Cys His Val Gln His Glu Gly Leu Pro Glu Pro Leu Thr Leu
260 265 270

Arg Trp Glu
275

<210> 79
<211> 276
<212> PRT
<213> Homo sapiens

<400> 79
Cys Ser His Ser Met Arg Tyr Phe Asp Thr Ala Val Ser Arg Pro Gly
1 5 10 15

Arg Gly Glu Pro Arg Phe Ile Ser Val Gly Tyr Val Asp Asp Thr Gln
20 25 30

Phe Val Arg Phe Asp Ser Asp Ala Ala Ser Pro Arg Gly Glu Pro Arg
35 40 45

Ala Pro Trp Val Glu Gln Glu Gly Pro Glu Tyr Trp Asp Arg Glu Thr
50 55 60

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

Leu Arg Gly Cys Tyr Asn Gln Ser Glu Asp Gly Ser His Thr Leu Gln
85 90 95

Arg Met Ser Gly Cys Asp Leu Gly Pro Asp Gly Arg Leu Leu Arg Gly
100 105 110

Tyr Asp Gln Ser Ala Tyr Asp Gly Lys Asp Tyr Ile Ala Leu Asn Glu
115 120 125

Asp Leu Arg Ser Trp Thr Ala Ala Asp Thr Ala Ala Gln Ile Thr Gln
130 135 140

Arg Lys Leu Glu Ala Ala Arg Ala Ala Glu Gln Leu Arg Ala Tyr Leu
145 150 155 160

Glu Gly Thr Cys Val Glu Trp Leu Arg Arg Tyr Leu Glu Asn Gly Lys
165 170 175

Glu Thr Leu Gln Arg Ala Glu Pro Pro Lys Thr His Val Thr His His
180 185 190

Pro Leu Ser Asp His Glu Ala Thr Leu Arg Cys Trp Ala Leu Gly Phe
195 200 205

Tyr Pro Ala Glu Ile Thr Leu Thr Trp Gln Arg Asp Gly Glu Asp Gln
210 215 220

Thr Gln Asp Thr Glu Leu Val Glu Thr Arg Pro Ala Gly Asp Gly Thr
225 230 235 240

Phe Gln Lys Trp Ala Ala Val Val Val Pro Ser Gly Gln Glu Gln Arg
245 250 255

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

Ser Trp Glu Pro
275

<210> 80
 <211> 276
 <212> PRT
 <213> Homo sapiens

<400> 80

Cys Ser His Ser Met Arg Tyr Phe Tyr Thr Ala Val Ser Arg Pro Gly
 1 5 10 15

Arg Gly Glu Pro Arg Phe Ile Ala Val Gly Tyr Val Asp Asp Thr Gln
 20 25 30

Phe Val Arg Phe Asp Ser Asp Ala Ala Ser Pro Arg Gly Glu Pro Arg
 35 40 45

Ala Pro Trp Val Glu Gln Glu Gly Pro Glu Tyr Trp Asp Arg Glu Thr
 50 55 60

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

Leu Arg Gly Cys Tyr Asn Gln Ser Glu Ala Gly Ser His Thr Leu Gln
 85 90 95

Trp Met Tyr Gly Cys Asp Leu Gly Pro Asp Gly Arg Leu Leu Arg Gly
 100 105 110

Tyr Asp Gln Ser Ala Tyr Asp Gly Lys Asp Tyr Ile Ala Leu Asn Glu
 115 120 125

Asp Leu Arg Ser Trp Thr Ala Ala Asp Thr Ala Ala Gln Ile Thr Gln
 130 135 140

Arg Lys Trp Glu Ala Ala Arg Ala Ala Glu Gln Gln Arg Ala Tyr Leu
 145 150 155 160

Glu Gly Thr Cys Val Glu Trp Leu Arg Arg Tyr Leu Glu Asn Gly Lys
 165 170 175

Glu Thr Leu Gln Arg Ala Glu His Pro Lys Thr His Val Thr His His
 180 185 190

Leu Val Ser Asp His Glu Ala Thr Leu Arg Cys Trp Ala Leu Gly Phe
195 200 205

Tyr Pro Ala Glu Ile Thr Leu Thr Trp Gln Arg Asp Gly Glu Asp Gln
210 215 220

Thr Gln Asp Thr Glu Leu Val Glu Thr Arg Pro Ala Gly Asp Gly Thr
225 230 235 240

Phe Gln Lys Trp Ala Ala Val Val Val Pro Ser Gly Glu Glu Gln Arg
245 250 255

Tyr Thr Cys His Val Gln His Glu Gly Leu Pro Glu Pro Leu Thr Leu
260 265 270

Arg Trp Glu Pro
275

<210> 81
<211> 276
<212> PRT
<213> Homo sapiens

<400> 81
Gly Ser His Ser Met Arg Tyr Phe Tyr Thr Ser Val Ser Arg Pro Gly
1 5 10 15

Arg Gly Glu Pro Arg Phe Ile Ala Val Gly Tyr Val Asp Asp Thr Gln
20 25 30

Phe Val Arg Phe Asp Ser Asp Ala Ala Ser Gln Arg Met Glu Pro Arg
35 40 45

Ala Pro Trp Ile Glu Gln Glu Gly Pro Glu Tyr Trp Asp Arg Asn Thr
50 55 60

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

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

Arg Met Tyr Gly Cys Asp Val Gly Pro Asp Gly Arg Phe Leu Arg Gly
100 105 110

Tyr Gln Gln Asp Ala Tyr Asp Gly Lys Asp Tyr Ile Ala Leu Asn Glu
115 120 125

Asp Leu Arg Ser Trp Thr Ala Ala Asp Met Ala Ala Gln Ile Thr Gln
130 135 140

Arg Lys Trp Glu Thr Ala His Glu Ala Glu Gln Trp Arg Ala Tyr Leu
145 150 155 160

Glu Gly Arg Cys Val Glu Trp Leu Arg Arg Tyr Leu Glu Asn Gly Lys
165 170 175

Glu Thr Leu Gln Arg Thr Asp Ala Pro Lys Thr His Met Thr His His
180 185 190

Ala Val Ser Asp His Glu Ala Thr Leu Arg Cys Trp Ala Leu Ser Phe
195 200 205

Tyr Pro Ala Glu Ile Thr Leu Thr Trp Gln Arg Asp Gly Glu Asp Gln
210 215 220

Thr Gln Asp Thr Glu Leu Val Glu Thr Arg Pro Ala Gly Asp Gly Thr
225 230 235 240

Phe Gln Lys Trp Ala Ser Val Val Val Pro Ser Gly Gln Glu Gln Arg
245 250 255

Tyr Thr Cys His Val Gln His Glu Gly Leu Pro Lys Pro Leu Thr Leu
260 265 270

Arg Trp Glu Pro
275

<210> 82

<211> 276

<212> PRT

<213> Homo sapiens

<400> 82

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

Arg Gly Glu Pro Arg Phe Ile Ala Val Gly Tyr Val Asp Asp Thr Gln
 20 25 30

Phe Val Arg Phe Asp Ser Asp Ala Ala Ser Gln Arg Met Glu Pro Arg
 35 40 45

Ala Pro Trp Ile Glu Gln Glu Gly Pro Glu Tyr Trp Asp Arg Asn Thr
 50 55 60

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

Leu Arg Gly Cys Tyr Asn Gln Ser Glu Asp Gly Ser His Thr Ile Gln
 85 90 95

Arg Met Tyr Gly Cys Asp Val Gly Pro Asp Gly Arg Phe Leu Arg Gly
 100 105 110

Tyr Gln Gln Asp Ala Tyr Asp Gly Lys Asp Tyr Ile Ala Leu Asn Glu
 115 120 125

Asp Leu Arg Ser Trp Thr Ala Ala Asp Met Ala Ala Gln Ile Thr Gln
 130 135 140

Arg Lys Trp Glu Thr Ala His Glu Ala Glu Gln Trp Arg Ala Tyr Leu
 145 150 155 160

Glu Gly Arg Cys Val Glu Trp Leu Arg Arg Tyr Leu Glu Asn Gly Lys
 165 170 175

Glu Thr Leu Gln Arg Thr Asp Ala Pro Lys Thr His Met Thr His His
 180 185 190

Ala Val Ser Asp His Glu Ala Thr Leu Arg Cys Trp Ala Leu Ser Phe
 195 200 205

Tyr Pro Ala Glu Ile Thr Leu Thr Trp Gln Arg Asp Gly Glu Asp Gln
 210 215 220

Thr Gln Asp Thr Glu Leu Val Glu Thr Arg Pro Ala Gly Asp Gly Thr
 225 230 235 240

Phe Gln Lys Trp Ala Ser Val Val Val Pro Ser Gly Gln Glu Gln Arg
 245 250 255

Tyr Thr Cys His Val Gln His Glu Gly Leu Pro Lys Pro Leu Thr Leu
 260 265 270

Arg Trp Glu Pro
 275

<210> 83
 <211> 276
 <212> PRT
 <213> Homo sapiens

<400> 83
 Gly Ser His Ser Met Arg Tyr Phe Thr Thr Ser Val Ser Arg Pro Gly
 1 5 10 15

Arg Gly Glu Pro Arg Phe Ile Ala Val Gly Tyr Val Asp Asp Thr Gln
 20 25 30

Phe Val Arg Phe Asp Ser Asp Ala Ala Ser Gln Arg Met Glu Pro Arg
 35 40 45

Ala Pro Trp Ile Glu Gln Glu Gly Pro Glu Tyr Trp Asp Leu Gln Thr
 50 55 60

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

Leu Arg Gly Cys Tyr Asn Gln Ser Glu Ala Gly Ser His Thr Ile Gln
 85 90 95

Met Met Tyr Gly Cys Asp Val Gly Ser Asp Gly Arg Phe Leu Arg Gly
 100 105 110

Tyr Arg Gln Asp Ala Tyr Asp Gly Lys Asp Tyr Ile Ala Leu Asn Glu
 115 120 125

Asp Leu Arg Ser Trp Thr Ala Ala Asp Met Ala Ala Gln Ile Thr Gln
 130 135 140

Arg Lys Trp Glu Ala Ala Arg Val Ala Glu Gln Leu Arg Ala Tyr Leu
 145 150 155 160

Glu Gly Thr Cys Val Glu Trp Leu Arg Arg Tyr Leu Glu Asn Gly Lys
 165 170 175

Glu Thr Leu Gln Arg Thr Asp Ala Pro Lys Thr His Met Thr His His
 180 185 190

Ala Val Ser Asp His Glu Ala Thr Leu Arg Cys Trp Ala Leu Ser Phe
 195 200 205

Tyr Pro Ala Glu Ile Thr Leu Thr Trp Gln Arg Asp Gly Glu Asp Gln
 210 215 220

Thr Gln Asp Thr Glu Leu Val Glu Thr Arg Pro Ala Gly Asp Gly Thr
 225 230 235 240

Phe Gln Lys Trp Ala Ser Val Val Val Pro Ser Gly Gln Glu Gln Arg
 245 250 255

Tyr Thr Cys His Val Gln His Glu Gly Leu Pro Lys Pro Leu Thr Leu
 260 265 270

Arg Trp Glu Pro
 275

<210> 84
 <211> 276
 <212> PRT
 <213> Homo sapiens

<400> 84
 Gly Ser His Ser Met Arg Tyr Phe Tyr Thr Ser Met Ser Arg Pro Gly
 1 5 10 15

Arg Gly Glu Pro Arg Phe Ile Ala Val Gly Tyr Val Asp Asp Thr Gln
 20 25 30

Phe Val Arg Phe Asp Ser Asp Ala Ala Ser Gln Arg Met Glu Pro Arg
35 40 45

Ala Pro Trp Ile Glu Gln Glu Gly Pro Glu Tyr Trp Asp Arg Asn Thr
50 55 60

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

Leu Arg Gly Cys Tyr Asn Gln Ser Glu Ala Gly Ser His Thr Ile Gln
85 90 95

Arg Met Tyr Gly Cys Asp Val Gly Pro Asp Gly Arg Phe Leu Arg Gly
100 105 110

Tyr His Gln Tyr Ala Tyr Asp Gly Lys Asp Tyr Ile Ala Leu Lys Glu
115 120 125

Asp Leu Arg Ser Trp Thr Ala Ala Asp Met Ala Ala Gln Thr Thr Lys
130 135 140

His Lys Trp Glu Ala Ala His Val Ala Glu Gln Trp Arg Ala Tyr Leu
145 150 155 160

Glu Gly Thr Cys Val Glu Trp Leu Arg Arg Tyr Leu Glu Asn Gly Lys
165 170 175

Glu Thr Leu Gln Arg Thr Asp Ala Pro Lys Thr His Met Thr His His
180 185 190

Ala Val Ser Asp His Glu Ala Thr Leu Arg Cys Trp Ala Leu Ser Phe
195 200 205

Tyr Pro Ala Glu Ile Thr Leu Thr Trp Gln Arg Asp Gly Glu Asp Gln
210 215 220

Thr Gln Asp Thr Glu Leu Val Glu Thr Arg Pro Ala Gly Asp Gly Thr
225 230 235 240

Phe Gln Lys Trp Val Ala Val Val Val Pro Ser Gly Gln Glu Gln Arg
245 250 255

Tyr Thr Cys His Val Gln His Glu Gly Leu Pro Lys Pro Leu Thr Leu
260 265 270

Arg Trp Glu Pro
275

<210> 85
<211> 276
<212> PRT
<213> Homo sapiens

<400> 85
Gly Ser His Ser Met Arg Tyr Phe Tyr Thr Ala Met Ser Arg Pro Gly
1 5 10 15

Arg Gly Glu Pro Arg Phe Ile Thr Val Gly Tyr Val Asp Asp Thr Gln
20 25 30

Phe Val Arg Phe Asp Ser Asp Ala Thr Ser Pro Arg Met Ala Pro Arg
35 40 45

Ala Pro Trp Ile Glu Gln Glu Gly Pro Glu Tyr Trp Asp Arg Glu Thr
50 55 60

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

Ala Leu Arg Cys Tyr Asn Gln Ser Glu Ala Gly Ser His Thr Trp Gln
85 90 95

Thr Met Tyr Gly Cys Asp Leu Gly Pro Asp Gly Arg Leu Leu Arg Gly
100 105 110

His Asn Gln Leu Ala Tyr Asp Gly Lys Asp Tyr Ile Ala Leu Asn Glu
115 120 125

Asp Leu Ser Ser Trp Thr Ala Ala Asp Thr Ala Ala Gln Ile Thr Gln
130 135 140

Leu Lys Trp Glu Ala Ala Arg Val Ala Glu Gln Leu Arg Ala Tyr Leu
 145 150 155 160

Glu Gly Glu Cys Val Glu Trp Leu Arg Arg Tyr Leu Glu Asn Gly Lys
 165 170 175

Glu Thr Leu Gln Arg Ala Asp Pro Pro Lys Thr His Val Thr His His
 180 185 190

Pro Ile Ser Asp His Glu Ala Thr Leu Arg Cys Trp Ala Leu Gly Phe
 195 200 205

Tyr Pro Ala Glu Ile Thr Leu Thr Trp Gln Arg Asp Gly Glu Asp Gln
 210 215 220

Thr Gln Asp Thr Glu Leu Val Glu Thr Arg Pro Ala Gly Asp Arg Thr
 225 230 235 240

Phe Gln Lys Trp Ala Ala Val Val Val Pro Ser Gly Glu Glu Gln Arg
 245 250 255

Tyr Thr Cys His Val Gln His Glu Gly Leu Pro Lys Pro Leu Thr Leu
 260 265 270

Arg Trp Glu Pro
 275

<210> 86
 <211> 276
 <212> PRT
 <213> Homo sapiens

<400> 86
 Gly Ser His Ser Met Arg Tyr Phe Tyr Thr Ala Met Ser Arg Pro Gly
 1 5 10 15

Arg Gly Glu Pro Arg Phe Ile Ala Val Gly Tyr Val Asp Asp Thr Gln
 20 25 30

Phe Val Arg Phe Asp Ser Asp Ala Ala Ser Pro Arg Met Ala Pro Arg
 35 40 45

Ala Pro Trp Ile Glu Gln Glu Gly Pro Glu Tyr Trp Asp Arg Glu Thr
50 55 60

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

Leu Arg Gly Cys Tyr Asn Gln Ser Glu Ala Gly Ser His Thr Leu Gln
85 90 95

Ser Met Tyr Gly Cys Asp Val Gly Pro Asp Gly Arg Leu Leu Arg Gly
100 105 110

His Asp Gln Ser Ala Tyr Asp Gly Lys Asp Tyr Ile Ala Leu Asn Glu
115 120 125

Asp Leu Ser Ser Trp Thr Ala Ala Asp Thr Ala Ala Gln Ile Thr Gln
130 135 140

Arg Lys Trp Glu Ala Ala Arg Glu Ala Glu Gln Trp Arg Ala Tyr Leu
145 150 155 160

Glu Gly Leu Cys Val Glu Trp Leu Arg Arg Tyr Leu Glu Asn Gly Lys
165 170 175

Glu Thr Leu Gln Arg Ala Asp Pro Pro Lys Thr His Val Thr His His
180 185 190

Pro Ile Ser Asp His Glu Ala Thr Leu Arg Cys Trp Ala Leu Gly Phe
195 200 205

Tyr Pro Ala Glu Ile Thr Leu Thr Trp Gln Arg Asp Gly Glu Asp Gln
210 215 220

Thr Gln Asp Thr Glu Leu Val Glu Thr Arg Pro Ala Gly Asp Arg Thr
225 230 235 240

Phe Gln Lys Trp Ala Ala Val Val Val Pro Ser Gly Glu Glu Gln Arg
245 250 255

Tyr Thr Cys His Val Gln His Glu Gly Leu Pro Lys Pro Leu Thr Leu
260 265 270

Arg Trp Glu Pro
275

<210> 87
<211> 276
<212> PRT
<213> Homo sapiens

<400> 87
Gly Ser His Ser Met Arg Tyr Phe His Thr Ser Val Ser Arg Pro Gly
1 5 10 15

Arg Gly Glu Pro Arg Phe Ile Thr Val Gly Tyr Val Asp Asp Thr Leu
20 25 30

Phe Val Arg Phe Asp Ser Asp Ala Ala Ser Pro Arg Glu Glu Pro Arg
35 40 45

Ala Pro Trp Ile Glu Gln Glu Gly Pro Glu Tyr Trp Asp Arg Glu Thr
50 55 60

Gln Ile Cys Lys Ala Lys Ala Gln Thr Asp Arg Glu Asp Leu Arg Thr
65 70 75 80

Leu Leu Arg Cys Tyr Asn Gln Ser Glu Ala Gly Ser His Thr Leu Gln
85 90 95

Asn Met Tyr Gly Cys Asp Val Gly Pro Asp Gly Arg Leu Leu Arg Gly
100 105 110

Tyr His Gln Asp Ala Tyr Asp Gly Lys Asp Tyr Ile Ala Leu Asn Glu
115 120 125

Asp Leu Ser Ser Trp Thr Ala Ala Asp Thr Ala Ala Gln Ile Thr Gln
130 135 140

Arg Lys Trp Glu Ala Ala Arg Val Ala Glu Gln Leu Arg Ala Tyr Leu
145 150 155 160

Glu Gly Glu Cys Val Glu Trp Leu Arg Arg Tyr Leu Glu Asn Gly Lys
165 170 175

Glu Thr Leu Gln Arg Ala Asp Pro Pro Lys Thr His Val Thr His His
180 185 190

Pro Ile Ser Asp His Glu Ala Thr Leu Arg Cys Trp Ala Leu Gly Phe
195 200 205

Tyr Pro Ala Glu Ile Thr Leu Thr Trp Gln Arg Asp Gly Glu Asp Gln
210 215 220

Thr Gln Asp Thr Glu Leu Val Glu Thr Arg Pro Ala Gly Asp Arg Thr
225 230 235 240

Phe Gln Lys Trp Ala Ala Val Val Val Pro Ser Gly Glu Glu Gln Arg
245 250 255

Tyr Thr Cys His Val Gln His Glu Gly Leu Pro Lys Pro Leu Thr Leu
260 265 270

Arg Trp Glu Pro
275

<210> 88
<211> 276
<212> PRT
<213> Homo sapiens

<400> 88
Gly Ser His Ser Met Arg Tyr Phe Tyr Thr Ala Met Ser Arg Pro Gly
1 5 10 15

Arg Gly Glu Pro Arg Phe Ile Ala Val Gly Tyr Val Asp Asp Thr Gln
20 25 30

Phe Val Arg Phe Asp Ser Asp Ala Ala Ser Pro Arg Thr Glu Pro Arg
35 40 45

Ala Pro Trp Ile Glu Gln Glu Gly Pro Glu Tyr Trp Asp Arg Asn Thr
50 55 60

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

Leu Arg Gly Cys Tyr Asn Gln Ser Glu Ala Gly Ser His Ile Ile Gln
85 90 95

Arg Met Tyr Gly Cys Asp Leu Gly Pro Asp Gly Arg Leu Leu Arg Gly
100 105 110

His Asp Gln Phe Ala Tyr Asp Gly Lys Asp Tyr Ile Ala Leu Asn Glu
115 120 125

Asp Leu Ser Ser Trp Thr Ala Ala Asp Thr Ala Ala Gln Ile Thr Gln
130 135 140

Arg Lys Trp Glu Ala Ala Arg Val Ala Glu Gln Leu Arg Ala Tyr Leu
145 150 155 160

Glu Gly Leu Cys Val Glu Trp Leu Arg Arg Tyr Leu Glu Asn Gly Lys
165 170 175

Glu Thr Leu Gln Arg Ala Asp Pro Pro Lys Thr His Val Thr His His
180 185 190

Pro Val Ser Asp His Glu Ala Thr Leu Arg Cys Trp Ala Leu Gly Phe
195 200 205

Tyr Pro Ala Glu Ile Thr Leu Thr Trp Gln Arg Asp Gly Glu Asp Gln
210 215 220

Thr Gln Asp Thr Glu Leu Val Glu Thr Arg Pro Ala Gly Asp Arg Thr
225 230 235 240

Phe Gln Lys Trp Ala Ala Val Val Val Pro Ser Gly Glu Glu Gln Arg
245 250 255

Tyr Thr Cys His Val Gln His Glu Gly Leu Pro Lys Pro Leu Thr Leu
260 265 270

Arg Trp Glu Pro
275

<210> 89
 <211> 276
 <212> PRT
 <213> Homo sapiens

<400> 89

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

Arg Gly Glu Pro Arg Phe Ile Ser Val Gly Tyr Val Asp Asp Thr Gln
 20 25 30

Phe Val Arg Phe Asp Ser Asp Ala Ala Ser Pro Arg Thr Glu Pro Arg
 35 40 45

Ala Pro Trp Ile Glu Gln Glu Gly Pro Glu Tyr Trp Asp Arg Glu Thr
 50 55 60

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

Leu Leu Arg Cys Tyr Asn Gln Ser Glu Ala Gly Ser His Thr Ile Gln
 85 90 95

Arg Met Ser Gly Cys Asp Val Gly Pro Asp Gly Arg Leu Leu Arg Gly
 100 105 110

Tyr Asn Gln Phe Ala Tyr Asp Gly Lys Asp Tyr Ile Ala Leu Asn Glu
 115 120 125

Asp Leu Ser Ser Trp Thr Ala Ala Asp Thr Ala Ala Gln Ile Thr Gln
 130 135 140

Arg Lys Trp Glu Ala Ala Arg Val Ala Glu Gln Asp Arg Ala Tyr Leu
 145 150 155 160

Glu Gly Thr Cys Val Glu Trp Leu Arg Arg Tyr Leu Glu Asn Gly Lys
 165 170 175

Glu Thr Leu Gln Arg Ala Asp Pro Pro Lys Thr His Val Thr His His
 180 185 190

Pro Ile Ser Asp His Glu Ala Thr Leu Arg Cys Trp Ala Leu Gly Phe
195 200 205

Tyr Pro Ala Glu Ile Thr Leu Thr Trp Gln Arg Asp Gly Glu Asp Gln
210 215 220

Thr Gln Asp Thr Glu Leu Val Glu Thr Arg Pro Ala Gly Asp Arg Thr
225 230 235 240

Phe Gln Lys Trp Ala Ala Val Val Val Pro Ser Gly Glu Glu Gln Arg
245 250 255

Tyr Thr Cys His Val Gln His Glu Gly Leu Pro Lys Pro Leu Thr Leu
260 265 270

Arg Trp Glu Pro
275

<210> 90
<211> 276
<212> PRT
<213> Homo sapiens

<400> 90
Gly Ser His Ser Met Arg Tyr Phe Tyr Thr Ser Val Ser Arg Pro Gly
1 5 10 15

Arg Gly Glu Pro Arg Phe Ile Ser Val Gly Tyr Val Asp Asp Thr Gln
20 25 30

Phe Val Arg Phe Asp Ser Asp Ala Ala Ser Pro Arg Glu Glu Pro Arg
35 40 45

Ala Pro Trp Ile Glu Gln Glu Gly Pro Glu Tyr Trp Asp Arg Asn Thr
50 55 60

Gln Ile Cys Lys Thr Asn Thr Gln Thr Tyr Arg Glu Asn Leu Arg Ile
65 70 75 80

Ala Leu Arg Cys Tyr Asn Gln Ser Glu Ala Gly Ser His Thr Leu Gln
85 90 95

Arg Met Tyr Gly Cys Asp Val Gly Pro Asp Gly Arg Leu Leu Arg Gly
100 105 110

His Asn Gln Phe Ala Tyr Asp Gly Lys Asp Tyr Ile Ala Leu Asn Glu
115 120 125

Asp Leu Ser Ser Trp Thr Ala Ala Asp Thr Ala Ala Gln Ile Thr Gln
130 135 140

Arg Lys Trp Glu Ala Ala Arg Val Ala Glu Gln Leu Arg Thr Tyr Leu
145 150 155 160

Glu Gly Thr Cys Val Glu Trp Leu Arg Arg Tyr Leu Glu Asn Gly Lys
165 170 175

Glu Thr Leu Gln Arg Ala Asp Pro Pro Lys Thr His Val Thr His His
180 185 190

Pro Ile Ser Asp His Glu Ala Thr Leu Arg Cys Trp Ala Leu Gly Phe
195 200 205

Tyr Pro Ala Glu Ile Thr Leu Thr Trp Gln Arg Asp Gly Glu Asp Gln
210 215 220

Thr Gln Asp Thr Glu Leu Val Glu Thr Arg Pro Ala Gly Asp Arg Thr
225 230 235 240

Phe Gln Lys Trp Ala Ala Val Val Val Pro Ser Gly Glu Glu Gln Arg
245 250 255

Tyr Thr Cys His Val Gln His Glu Gly Leu Pro Lys Pro Leu Thr Leu
260 265 270

Arg Trp Glu Pro
275

<210> 91

<211> 276

<212> PRT

<213> Homo sapiens

<400> 91

Gly Ser His Ser Met Arg Tyr Phe His Thr Ala Met Ser Arg Pro Gly
 1 5 10 15

Arg Gly Glu Pro Arg Phe Ile Thr Val Gly Tyr Val Asp Asp Thr Leu
 20 25 30

Phe Val Arg Phe Asp Ser Asp Ala Thr Ser Pro Arg Lys Glu Pro Arg
 35 40 45

Ala Pro Trp Ile Glu Gln Glu Gly Pro Glu Tyr Trp Asp Arg Glu Thr
 50 55 60

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

Leu Arg Gly Cys Tyr Asn Gln Ser Glu Ala Gly Ser His Thr Leu Gln
 85 90 95

Ser Met Tyr Gly Cys Asp Val Gly Pro Asp Gly Arg Leu Leu Arg Gly
 100 105 110

His Asn Gln Tyr Ala Tyr Asp Gly Lys Asp Tyr Ile Ala Leu Asn Glu
 115 120 125

Asp Leu Arg Ser Trp Thr Ala Ala Asp Thr Ala Ala Gln Ile Thr Gln
 130 135 140

Arg Lys Trp Glu Ala Ala Arg Val Ala Glu Gln Asp Arg Ala Tyr Leu
 145 150 155 160

Glu Gly Thr Cys Val Glu Trp Leu Arg Arg Tyr Leu Glu Asn Gly Lys
 165 170 175

Asp Thr Leu Glu Arg Ala Asp Pro Pro Lys Thr His Val Thr His His
 180 185 190

Pro Ile Ser Asp His Glu Ala Thr Leu Arg Cys Trp Ala Leu Gly Phe
 195 200 205

Tyr Pro Ala Glu Ile Thr Leu Thr Trp Gln Arg Asp Gly Glu Asp Gln
 210 215 220

Thr Gln Asp Thr Glu Leu Val Glu Thr Arg Pro Ala Gly Asp Arg Thr
 225 230 235 240

Phe Gln Lys Trp Ala Ala Val Val Val Pro Ser Gly Glu Glu Gln Arg
 245 250 255

Tyr Thr Cys His Val Gln His Glu Gly Leu Pro Lys Pro Leu Thr Leu
 260 265 270

Arg Trp Glu Pro
 275

<210> 92
 <211> 276
 <212> PRT
 <213> Homo sapiens

<400> 92
 Gly Ser His Ser Met Arg Tyr Phe Tyr Thr Ala Met Ser Arg Pro Gly
 1 5 10 15

Arg Gly Glu Pro Arg Phe Ile Thr Val Gly Tyr Val Asp Asp Thr Leu
 20 25 30

Phe Val Arg Phe Asp Ser Asp Ala Thr Ser Pro Arg Lys Glu Pro Arg
 35 40 45

Ala Pro Trp Ile Glu Gln Glu Gly Pro Glu Tyr Trp Asp Arg Glu Thr
 50 55 60

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

Ala Leu Arg Cys Tyr Asn Gln Ser Glu Ala Gly Ser His Ile Ile Gln
 85 90 95

Arg Met Tyr Gly Cys Asp Val Gly Pro Asp Gly Arg Leu Leu Arg Gly
 100 105 110

Tyr Asp Gln Tyr Ala Tyr Asp Gly Lys Asp Tyr Ile Ala Leu Asn Glu
 115 120 125

Asp Leu Ser Ser Trp Thr Ala Ala Asp Thr Ala Ala Gln Ile Thr Gln
 130 135 140

Arg Lys Trp Glu Ala Ala Arg Val Ala Glu Gln Asp Arg Ala Tyr Leu
 145 150 155 160

Glu Gly Leu Cys Val Glu Ser Leu Arg Arg Tyr Leu Glu Asn Gly Lys
 165 170 175

Glu Thr Leu Gln Arg Ala Asp Pro Pro Lys Thr His Val Thr His His
 180 185 190

Pro Ile Ser Asp His Glu Val Thr Leu Arg Cys Trp Ala Leu Gly Phe
 195 200 205

Tyr Pro Ala Glu Ile Thr Leu Thr Trp Gln Arg Asp Gly Glu Asp Gln
 210 215 220

Thr Gln Asp Thr Glu Leu Val Glu Thr Arg Pro Ala Gly Asp Arg Thr
 225 230 235 240

Phe Gln Lys Trp Ala Ala Val Val Val Pro Ser Gly Glu Glu Gln Arg
 245 250 255

Tyr Thr Cys His Val Gln His Glu Gly Leu Pro Lys Pro Leu Thr Leu
 260 265 270

Arg Trp Glu Pro
 275

<210> 93
 <211> 276
 <212> PRT
 <213> Homo sapiens

<400> 93
 Gly Ser His Ser Met Arg Tyr Phe His Thr Ala Met Ser Arg Pro Gly
 1 5 10 15

Arg Gly Glu Pro Arg Phe Ile Thr Val Gly Tyr Val Asp Asp Thr Leu
 20 25 30

Phe Val Arg Phe Asp Ser Asp Ala Thr Ser Pro Arg Lys Glu Pro Arg
35 40 45

Ala Pro Trp Ile Glu Gln Glu Gly Pro Glu Tyr Trp Asp Arg Glu Thr
50 55 60

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

Ala Leu Arg Cys Tyr Asn Gln Ser Glu Ala Gly Ser His Thr Trp Gln
85 90 95

Arg Met Tyr Gly Cys Asp Leu Gly Pro Asp Gly Arg Leu Leu Arg Gly
100 105 110

Tyr Asn Gln Leu Ala Tyr Asp Gly Lys Asp Tyr Ile Ala Leu Asn Glu
115 120 125

Asp Leu Ser Ser Trp Thr Ala Ala Asp Thr Ala Ala Gln Ile Thr Gln
130 135 140

Arg Lys Trp Glu Ala Ala Arg Glu Ala Glu Gln Leu Arg Ala Tyr Leu
145 150 155 160

Glu Gly Leu Cys Val Glu Trp Leu Arg Arg Tyr Leu Glu Asn Gly Lys
165 170 175

Glu Thr Leu Gln Arg Ala Asp Pro Pro Lys Thr His Val Thr His His
180 185 190

Pro Ile Ser Asp His Glu Ala Thr Leu Arg Cys Trp Ala Leu Gly Phe
195 200 205

Tyr Pro Ala Glu Ile Thr Leu Thr Trp Gln Arg Asp Gly Glu Asp Gln
210 215 220

Thr Gln Asp Thr Glu Leu Val Glu Thr Arg Pro Ala Gly Asp Arg Thr
225 230 235 240

Phe Gln Lys Trp Ala Ala Val Val Val Pro Ser Gly Glu Glu Gln Arg
245 250 255

Tyr Thr Cys His Val Gln His Glu Gly Leu Pro Lys Pro Leu Thr Leu
260 265 270

Arg Trp Glu Pro
275

<210> 94
<211> 276
<212> PRT
<213> Homo sapiens

<400> 94
Gly Ser His Ser Met Arg Tyr Phe Tyr Thr Ala Met Ser Arg Pro Gly
1 5 10 15

Arg Gly Glu Pro Arg Phe Ile Ala Val Gly Tyr Val Asp Asp Thr Gln
20 25 30

Phe Val Arg Phe Asp Ser Asp Ala Ala Ser Pro Arg Thr Glu Pro Arg
35 40 45

Ala Pro Trp Ile Glu Gln Glu Gly Pro Glu Tyr Trp Asp Arg Glu Thr
50 55 60

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

Ala Leu Arg Cys Tyr Asn Gln Ser Glu Ala Gly Ser His Thr Trp Gln
85 90 95

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

His Asn Gln Tyr Ala Tyr Asp Gly Lys Asp Tyr Ile Ala Leu Asn Glu
115 120 125

Asp Leu Ser Ser Trp Thr Ala Ala Asp Thr Ala Ala Gln Ile Thr Gln
130 135 140

Arg Lys Trp Glu Ala Ala Arg Glu Ala Glu Gln Leu Arg Ala Tyr Leu
 145 150 155 160

Glu Gly Leu Cys Val Glu Trp Leu Arg Arg His Leu Glu Asn Gly Lys
 165 170 175

Glu Thr Leu Gln Arg Ala Asp Pro Pro Lys Thr His Val Thr His His
 180 185 190

Pro Val Ser Asp His Glu Ala Thr Leu Arg Cys Trp Ala Leu Gly Phe
 195 200 205

Tyr Pro Ala Glu Ile Thr Leu Thr Trp Gln Arg Asp Gly Glu Asp Gln
 210 215 220

Thr Gln Asp Thr Glu Leu Val Glu Thr Arg Pro Ala Gly Asp Arg Thr
 225 230 235 240

Phe Gln Lys Trp Ala Ala Val Val Val Pro Ser Gly Glu Glu Gln Arg
 245 250 255

Tyr Thr Cys His Val Gln His Glu Gly Leu Pro Lys Pro Leu Thr Leu
 260 265 270

Arg Trp Glu Pro
 275

<210> 95
 <211> 276
 <212> PRT
 <213> Homo sapiens

<400> 95
 Gly Ser His Ser Met Arg Tyr Phe Tyr Thr Ala Met Ser Arg Pro Gly
 1 5 10 15

Arg Gly Glu Pro Arg Phe Ile Ala Val Gly Tyr Val Asp Asp Thr Gln
 20 25 30

Phe Val Arg Phe Asp Ser Asp Ala Ala Ser Pro Arg Glu Glu Pro Arg
 35 40 45

Ala Pro Trp Ile Glu Gln Glu Gly Pro Glu Tyr Trp Asp Arg Asn Thr
50 55 60

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

Leu Arg Gly Cys Tyr Asn Gln Ser Glu Ala Gly Ser His Thr Trp Gln
85 90 95

Thr Met Tyr Gly Cys Asp Leu Gly Pro Asp Gly Arg Leu Leu Arg Gly
100 105 110

His Asn Gln Leu Ala Tyr Asp Gly Lys Asp Tyr Ile Ala Leu Asn Glu
115 120 125

Asp Leu Ser Ser Trp Thr Ala Ala Asp Thr Ala Ala Gln Ile Thr Gln
130 135 140

Arg Lys Trp Glu Ala Ala Arg Glu Ala Glu Gln Leu Arg Ala Tyr Leu
145 150 155 160

Glu Gly Thr Cys Val Glu Trp Leu Arg Arg Tyr Leu Glu Asn Gly Lys
165 170 175

Glu Thr Leu Gln Arg Ala Asp Pro Pro Lys Thr His Val Thr His His
180 185 190

Pro Ile Ser Asp His Glu Ala Thr Leu Arg Cys Trp Ala Leu Gly Phe
195 200 205

Tyr Pro Ala Glu Ile Thr Leu Thr Trp Gln Arg Asp Gly Glu Asp Gln
210 215 220

Thr Gln Asp Thr Glu Leu Val Glu Thr Arg Pro Ala Gly Asp Arg Thr
225 230 235 240

Phe Gln Lys Trp Ala Ala Val Val Val Pro Ser Gly Glu Glu Gln Arg
245 250 255

Tyr Thr Cys His Val Gln His Glu Gly Leu Pro Lys Pro Leu Thr Leu
260 265 270

Arg Trp Glu Pro
275

<210> 96
<211> 276
<212> PRT
<213> Homo sapiens

<400> 96
Gly Ser His Ser Met Arg Tyr Phe Tyr Thr Ala Val Ser Arg Pro Gly
1 5 10 15

Arg Gly Glu Pro His Phe Ile Ala Val Gly Tyr Val Asp Asp Thr Gln
20 25 30

Phe Val Arg Phe Asp Ser Asp Ala Ala Ser Pro Arg Gly Glu Pro Arg
35 40 45

Ala Pro Trp Val Glu Gln Glu Gly Pro Glu Tyr Trp Asp Arg Glu Thr
50 55 60

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

Leu Arg Gly Cys Tyr Asn Gln Ser Glu Ala Arg Ser His Ile Ile Gln
85 90 95

Arg Met Tyr Gly Cys Asp Val Gly Pro Asp Gly Arg Leu Leu Arg Gly
100 105 110

Tyr Asp Gln Tyr Ala Tyr Asp Gly Lys Asp Tyr Ile Ala Leu Asn Glu
115 120 125

Asp Leu Arg Ser Trp Thr Ala Ala Asp Thr Ala Ala Gln Ile Thr Gln
130 135 140

Arg Lys Trp Glu Ala Ala Arg Glu Ala Glu Gln Leu Arg Ala Tyr Leu
145 150 155 160

Glu Gly Leu Cys Val Glu Trp Leu Arg Arg Tyr Leu Lys Asn Gly Lys
165 170 175

Glu Thr Leu Gln Arg Ala Glu His Pro Lys Thr His Val Thr His His
180 185 190

Pro Val Ser Asp His Glu Ala Thr Leu Arg Cys Trp Ala Leu Gly Phe
195 200 205

Tyr Pro Ala Glu Ile Thr Leu Thr Trp Gln Trp Asp Gly Glu Asp Gln
210 215 220

Thr Gln Asp Thr Glu Leu Val Glu Thr Arg Pro Ala Gly Asp Gly Thr
225 230 235 240

Phe Gln Lys Trp Ala Ala Val Val Val Pro Ser Gly Glu Glu Gln Arg
245 250 255

Tyr Thr Cys His Val Gln His Glu Gly Leu Pro Glu Pro Leu Thr Leu
260 265 270

Arg Trp Glu Pro
275

<210> 97
<211> 276
<212> PRT
<213> Homo sapiens

<400> 97
Cys Ser His Ser Met Arg Tyr Phe Asp Thr Ala Val Ser Arg Pro Gly
1 5 10 15

Arg Gly Glu Pro Arg Phe Ile Ser Val Gly Tyr Val Asp Asp Thr Gln
20 25 30

Phe Val Arg Phe Asp Ser Asp Ala Ala Ser Pro Arg Gly Glu Pro Arg
35 40 45

Ala Pro Trp Val Glu Gln Glu Gly Pro Glu Tyr Trp Asp Arg Glu Thr
50 55 60

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

Leu Arg Gly Cys Tyr Asn Gln Ser Glu Asp Gly Ser His Thr Phe Gln
85 90 95

Arg Met Tyr Gly Cys Asp Leu Gly Pro Asp Gly Arg Leu Leu Arg Gly
100 105 110

Tyr Asp Gln Phe Ala Tyr Asp Gly Lys Asp Tyr Ile Ala Leu Asn Glu
115 120 125

Asp Leu Arg Ser Trp Thr Ala Ala Asp Thr Ala Ala Gln Ile Thr Gln
130 135 140

Arg Lys Leu Glu Ala Ala Arg Ala Ala Glu Gln Asp Arg Ala Tyr Leu
145 150 155 160

Glu Gly Thr Cys Val Glu Trp Leu Arg Arg Tyr Leu Glu Asn Gly Lys
165 170 175

Lys Thr Leu Gln Arg Ala Glu Pro Pro Lys Thr His Val Thr His His
180 185 190

Pro Leu Ser Asp His Glu Ala Thr Leu Arg Cys Trp Ala Leu Gly Phe
195 200 205

Tyr Pro Ala Glu Ile Thr Leu Thr Trp Gln Arg Asp Gly Glu Asp Gln
210 215 220

Thr Gln Asp Thr Glu Leu Val Glu Thr Arg Pro Ala Gly Asp Gly Thr
225 230 235 240

Phe Gln Lys Trp Ala Ala Val Val Val Pro Ser Gly Gln Glu Gln Arg
245 250 255

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

Ser Trp Glu Pro
275

<210> 98
 <211> 276
 <212> PRT
 <213> Homo sapiens

<400> 98

Cys Ser His Ser Met Arg Tyr Phe Tyr Thr Ala Val Ser Arg Pro Gly
 1 5 10 15

Arg Gly Glu Pro Arg Phe Ile Ala Val Gly Tyr Val Asp Asp Thr Gln
 20 25 30

Phe Val Gln Phe Asp Ser Asp Ala Ala Ser Pro Arg Gly Glu Pro Arg
 35 40 45

Ala Pro Trp Val Glu Gln Glu Gly Pro Glu Tyr Trp Asp Arg Glu Thr
 50 55 60

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

Leu Arg Gly Cys Tyr Asn Gln Ser Glu Ala Gly Ser His Thr Leu Gln
 85 90 95

Arg Met Tyr Gly Cys Asp Leu Gly Pro Asp Gly Arg Leu Leu Arg Gly
 100 105 110

Tyr Asn Gln Phe Ala Tyr Asp Gly Lys Asp Tyr Ile Ala Leu Asn Glu
 115 120 125

Asp Leu Arg Ser Trp Thr Ala Ala Asp Thr Ala Ala Gln Ile Thr Gln
 130 135 140

Arg Lys Trp Glu Ala Ala Arg Thr Ala Glu Gln Leu Arg Ala Tyr Leu
 145 150 155 160

Glu Gly Thr Cys Val Glu Trp Leu Arg Arg Tyr Leu Glu Asn Gly Lys
 165 170 175

Lys Thr Leu Gln Arg Ala Glu His Pro Lys Thr His Val Thr His His
 180 185 190

Pro Val Ser Asp His Glu Ala Thr Leu Arg Cys Trp Ala Leu Gly Phe
195 200 205

Tyr Pro Ala Glu Ile Thr Leu Thr Trp Gln Arg Asp Gly Glu Asp Gln
210 215 220

Thr Gln Asp Thr Glu Leu Val Glu Thr Arg Pro Ala Gly Asp Gly Thr
225 230 235 240

Phe Gln Lys Trp Ala Ala Val Val Val Pro Ser Gly Glu Glu Gln Arg
245 250 255

Tyr Thr Cys His Val Gln His Glu Gly Leu Pro Glu Pro Leu Thr Leu
260 265 270

Arg Trp Gly Pro
275

<210> 99
<211> 276
<212> PRT
<213> Homo sapiens

<400> 99
Cys Ser His Ser Met Arg Tyr Phe Tyr Thr Ala Val Ser Arg Pro Gly
1 5 10 15

Arg Gly Glu Pro Arg Phe Ile Ala Val Gly Tyr Val Asp Asp Thr Gln
20 25 30

Phe Val Gln Phe Asp Ser Asp Ala Ala Ser Pro Arg Gly Glu Pro Arg
35 40 45

Ala Pro Trp Val Glu Gln Glu Gly Pro Glu Tyr Trp Asp Arg Glu Thr
50 55 60

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

Leu Arg Gly Cys Tyr Asn Gln Ser Glu Ala Gly Ser His Thr Leu Gln
85 90 95

Arg Met Tyr Gly Cys Asp Leu Gly Pro Asp Gly Arg Leu Leu Arg Gly
100 105 110

Tyr Asn Gln Phe Ala Tyr Asp Gly Lys Asp Tyr Ile Ala Leu Asn Glu
115 120 125

Asp Leu Arg Ser Trp Thr Ala Ala Asp Lys Ala Ala Gln Ile Thr Gln
130 135 140

Arg Lys Trp Glu Ala Ala Arg Glu Ala Glu Gln Arg Arg Ala Tyr Leu
145 150 155 160

Glu Gly Thr Cys Val Glu Trp Leu Arg Arg Tyr Leu Glu Asn Gly Lys
165 170 175

Lys Thr Leu Gln Arg Ala Glu His Pro Lys Thr His Val Thr His His
180 185 190

Pro Val Ser Asp His Glu Ala Thr Leu Arg Cys Trp Ala Leu Gly Phe
195 200 205

Tyr Pro Ala Glu Ile Thr Leu Thr Trp Gln Arg Asp Gly Glu Asp Gln
210 215 220

Thr Gln Asp Thr Glu Leu Val Glu Thr Arg Pro Ala Gly Asp Gly Thr
225 230 235 240

Phe Gln Lys Trp Ala Ala Val Val Val Pro Ser Gly Glu Glu Gln Arg
245 250 255

Tyr Thr Cys His Val Gln His Glu Gly Leu Pro Glu Pro Leu Thr Leu
260 265 270

Arg Trp Gly Pro
275

<210> 100

<211> 276

<212> PRT

<213> Homo sapiens

<400> 100

Cys Ser His Ser Met Arg Tyr Phe Tyr Thr Ala Val Ser Arg Pro Gly
 1 5 10 15

Arg Gly Glu Pro Arg Phe Ile Ala Val Gly Tyr Val Asp Asp Thr Gln
 20 25 30

Phe Val Arg Phe Asp Ser Asp Ala Ala Ser Pro Arg Gly Glu Pro Arg
 35 40 45

Ala Pro Trp Val Glu Gln Glu Gly Pro Glu Tyr Trp Asp Arg Glu Thr
 50 55 60

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

Leu Arg Gly Cys Tyr Asn Gln Ser Glu Ala Gly Ser His Thr Leu Gln
 85 90 95

Arg Met Tyr Gly Cys Asp Leu Gly Pro Asp Gly Arg Leu Leu Arg Gly
 100 105 110

Tyr Asp Gln Ser Ala Tyr Asp Gly Lys Asp Tyr Ile Ala Leu Asn Glu
 115 120 125

Asp Leu Arg Ser Trp Thr Ala Ala Asp Thr Ala Ala Gln Ile Thr Gln
 130 135 140

Arg Lys Trp Glu Ala Ala Arg Glu Ala Glu Gln Trp Arg Ala Tyr Leu
 145 150 155 160

Glu Gly Thr Cys Val Glu Trp Leu Arg Arg Tyr Leu Glu Asn Gly Lys
 165 170 175

Glu Thr Leu Gln Arg Ala Glu His Pro Lys Thr His Val Thr His His
 180 185 190

Pro Val Ser Asp His Glu Ala Thr Leu Arg Cys Trp Ala Leu Gly Phe
 195 200 205

Tyr Pro Ala Glu Ile Thr Leu Thr Trp Gln Arg Asp Gly Glu Asp Gln
 210 215 220

Thr Gln Asp Thr Glu Leu Val Glu Thr Arg Pro Ala Gly Asp Gly Thr
 225 230 235 240

Phe Gln Lys Trp Ala Ala Val Val Val Pro Ser Gly Glu Glu Gln Arg
 245 250 255

Tyr Thr Cys His Val Gln His Glu Gly Leu Pro Glu Pro Leu Thr Leu
 260 265 270

Arg Trp Glu Pro
 275

<210> 101
 <211> 276
 <212> PRT
 <213> Homo sapiens

<400> 101
 Cys Ser His Ser Met Arg Tyr Phe Tyr Thr Ala Val Ser Arg Pro Gly
 1 5 10 15

Arg Gly Glu Pro Arg Phe Ile Ala Val Gly Tyr Val Asp Asp Thr Gln
 20 25 30

Phe Val Arg Phe Asp Ser Asp Ala Ala Ser Pro Arg Gly Glu Pro Arg
 35 40 45

Ala Pro Trp Val Glu Gln Glu Gly Pro Glu Tyr Trp Asp Arg Glu Thr
 50 55 60

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

Leu Arg Gly Cys Tyr Asn Gln Ser Glu Ala Gly Ser His Thr Leu Gln
 85 90 95

Trp Met Tyr Gly Cys Asp Leu Gly Pro Asp Gly Arg Leu Leu Arg Gly
 100 105 110

Tyr Asp Gln Ser Ala Tyr Asp Gly Lys Asp Tyr Ile Ala Leu Asn Glu
 115 120 125

Asp Leu Arg Ser Trp Thr Ala Ala Asp Thr Ala Ala Gln Ile Thr Gln
 130 135 140

Arg Lys Trp Glu Ala Ala Arg Glu Ala Glu Gln Trp Arg Ala Tyr Leu
 145 150 155 160

Glu Gly Thr Cys Val Glu Trp Leu Arg Arg Tyr Leu Glu Asn Gly Lys
 165 170 175

Glu Thr Leu Gln Arg Ala Glu His Pro Lys Thr His Val Thr His His
 180 185 190

Pro Val Ser Asp His Glu Ala Thr Leu Arg Cys Trp Ala Leu Gly Phe
 195 200 205

Tyr Pro Ala Glu Ile Thr Leu Thr Trp Gln Arg Asp Gly Glu Asp Gln
 210 215 220

Thr Gln Asp Thr Glu Leu Val Glu Thr Arg Pro Ala Gly Asp Gly Thr
 225 230 235 240

Phe Gln Lys Trp Ala Ala Val Val Val Pro Ser Gly Glu Glu Gln Arg
 245 250 255

Tyr Thr Cys His Val Gln His Glu Gly Leu Pro Glu Pro Leu Thr Leu
 260 265 270

Arg Trp Glu Pro
 275

<210> 102
 <211> 276
 <212> PRT
 <213> Homo sapiens

<400> 102
 Cys Ser His Ser Met Arg Tyr Phe Ser Thr Ser Val Ser Arg Pro Gly
 1 5 10 15

Arg Gly Glu Pro Arg Phe Ile Ala Val Gly Tyr Val Asp Asp Thr Gln
 20 25 30

Phe Val Arg Phe Asp Ser Asp Ala Ala Ser Pro Arg Gly Glu Pro Arg
35 40 45

Ala Pro Trp Val Glu Gln Glu Gly Pro Glu Tyr Trp Asp Arg Glu Thr
50 55 60

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

Leu Arg Gly Cys Tyr Asn Gln Ser Glu Ala Gly Ser His Thr Leu Gln
85 90 95

Trp Met Phe Gly Cys Asp Leu Gly Pro Asp Gly Arg Leu Leu Arg Gly
100 105 110

Tyr Asp Gln Ser Ala Tyr Asp Gly Lys Asp Tyr Ile Ala Leu Asn Glu
115 120 125

Asp Leu Arg Ser Trp Thr Ala Ala Asp Thr Ala Ala Gln Ile Thr Gln
130 135 140

Arg Lys Trp Glu Ala Ala Arg Glu Ala Glu Gln Arg Arg Ala Tyr Leu
145 150 155 160

Glu Gly Thr Cys Val Glu Trp Leu Arg Arg Tyr Leu Glu Asn Gly Lys
165 170 175

Glu Thr Leu Gln Arg Ala Glu His Pro Lys Thr His Val Thr His His
180 185 190

Pro Val Ser Asp His Glu Ala Thr Leu Arg Cys Trp Ala Leu Gly Phe
195 200 205

Tyr Pro Ala Glu Ile Thr Leu Thr Trp Gln Trp Asp Gly Glu Asp Gln
210 215 220

Thr Gln Asp Thr Glu Leu Val Glu Thr Arg Pro Ala Gly Asp Gly Thr
225 230 235 240

Phe Gln Lys Trp Ala Ala Val Val Val Pro Ser Gly Glu Glu Gln Arg
245 250 255

Tyr Thr Cys His Val Gln His Glu Gly Leu Pro Glu Pro Leu Thr Leu
260 265 270

Arg Trp Glu Pro
275

<210> 103
<211> 276
<212> PRT
<213> Homo sapiens

<400> 103
Cys Ser His Ser Met Arg Tyr Phe Tyr Thr Ala Val Ser Arg Pro Gly
1 5 10 15

Arg Gly Glu Pro His Phe Ile Ala Val Gly Tyr Val Asp Asp Thr Gln
20 25 30

Phe Val Arg Phe Asp Ser Asp Ala Ala Ser Pro Arg Gly Glu Pro Arg
35 40 45

Ala Pro Trp Val Glu Gln Glu Gly Pro Glu Tyr Trp Asp Arg Glu Thr
50 55 60

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

Leu Arg Gly Cys Tyr Asn Gln Ser Glu Ala Gly Ser His Ile Ile Gln
85 90 95

Arg Met Tyr Gly Cys Asp Leu Gly Pro Asp Gly Arg Leu Leu Arg Gly
100 105 110

His Asp Gln Leu Ala Tyr Asp Gly Lys Asp Tyr Ile Ala Leu Asn Glu
115 120 125

Asp Leu Arg Ser Trp Thr Ala Ala Asp Thr Ala Ala Gln Ile Thr Gln
130 135 140

Arg Lys Trp Glu Ala Ala Arg Glu Ala Glu Gln Leu Arg Ala Tyr Leu
 145 150 155 160

Glu Gly Thr Cys Val Glu Trp Leu Arg Arg Tyr Leu Glu Asn Gly Lys
 165 170 175

Glu Thr Leu Gln Arg Ala Glu His Pro Lys Thr His Val Thr His His
 180 185 190

Pro Val Ser Asp His Glu Ala Thr Leu Arg Cys Trp Ala Leu Gly Phe
 195 200 205

Tyr Pro Ala Glu Ile Thr Leu Thr Trp Gln Arg Asp Gly Glu Asp Gln
 210 215 220

Thr Gln Asp Thr Glu Leu Val Glu Thr Arg Pro Ala Gly Asp Gly Thr
 225 230 235 240

Phe Gln Lys Trp Ala Ala Val Val Val Pro Ser Gly Glu Glu Gln Arg
 245 250 255

Tyr Thr Cys His Val Gln His Glu Gly Leu Pro Glu Pro Leu Thr Leu
 260 265 270

Arg Trp Glu Pro
 275

<210> 104
 <211> 276
 <212> PRT
 <213> Homo sapiens

<400> 104
 Gly Ser His Ser Met Arg Tyr Phe Tyr Thr Ala Val Ser Arg Pro Gly
 1 5 10 15

Arg Gly Glu Pro Arg Phe Ile Ala Val Gly Tyr Val Asp Asp Thr Gln
 20 25 30

Phe Val Arg Phe Asp Ser Asp Ala Ala Ser Pro Arg Gly Glu Pro Arg
 35 40 45

Ala Pro Trp Val Glu Gln Glu Gly Pro Glu Tyr Trp Asp Arg Glu Thr
50 55 60

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

Leu Arg Gly Cys Tyr Asn Gln Ser Glu Ala Gly Ser His Thr Ile Gln
85 90 95

Arg Met Tyr Gly Cys Asp Leu Gly Pro Asp Gly Arg Leu Leu Arg Gly
100 105 110

Tyr Asn Gln Phe Ala Tyr Asp Gly Lys Asp Tyr Ile Ala Leu Asn Glu
115 120 125

Asp Leu Arg Ser Trp Thr Ala Ala Asp Thr Ala Ala Gln Ile Ser Gln
130 135 140

Arg Lys Leu Glu Ala Ala Arg Glu Ala Glu Gln Leu Arg Ala Tyr Leu
145 150 155 160

Glu Gly Glu Cys Val Glu Trp Leu Arg Gly Tyr Leu Glu Asn Gly Lys
165 170 175

Glu Thr Leu Gln Arg Ala Glu Arg Pro Lys Thr His Val Thr His His
180 185 190

Pro Val Ser Asp His Glu Ala Thr Leu Arg Cys Trp Ala Leu Gly Phe
195 200 205

Tyr Pro Ala Glu Ile Thr Leu Thr Trp Gln Arg Asp Gly Glu Asp Gln
210 215 220

Thr Gln Asp Thr Glu Leu Val Glu Thr Arg Pro Ala Gly Asp Gly Thr
225 230 235 240

Phe Gln Lys Trp Ala Ala Val Val Val Pro Ser Gly Gln Glu Gln Arg
245 250 255

Tyr Thr Cys His Val Gln His Glu Gly Leu Gln Glu Pro Cys Thr Leu
260 265 270

Arg Trp Lys Pro
275

<210> 105
<211> 99
<212> PRT
<213> Unknown

<220>
<223> Description of Unknown:
Beta 2 microglobulin sequence

<400> 105
Ile Gln Arg Thr Pro Lys Ile Gln Val Tyr Ser Arg His Pro Ala Glu
1 5 10 15

Asn Gly Lys Ser Asn Phe Leu Asn Cys Tyr Val Ser Gly Phe His Pro
20 25 30

Ser Asp Ile Glu Val Asp Leu Leu Lys Asn Gly Glu Arg Ile Glu Lys
35 40 45

Val Glu His Ser Asp Leu Ser Phe Ser Lys Asp Trp Ser Phe Tyr Leu
50 55 60

Leu Tyr Tyr Thr Glu Phe Thr Pro Thr Glu Lys Asp Glu Tyr Ala Cys
65 70 75 80

Arg Val Asn His Val Thr Leu Ser Gln Pro Lys Ile Val Lys Trp Asp
85 90 95

Arg Asp Met

<210> 106
<211> 297
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown:
Beta 2 microglobulin sequence

<400> 106

atccagcgta ctccaaagat tcaggtttac tcacgtcatc cagcagagaa tggaaagtca 60
aatttcctga attgctatgt gtctggggtt catccatccg acattgaagt tgacttactg 120
aagaatggag agagaattga aaaagtggag cattcagact tgtctttcag caaggactgg 180
tctttctatc tcttgtacta cactgaattc acccccactg aaaaagatga gtatgcctgc 240
cgtgtgaacc atgtgacttt gtcacagccc aagatagtta agtgggatcg agacatg 297

<210> 107

<211> 99

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 107

Ile Gln Arg Thr Pro Lys Ile Gln Val Tyr Ser Arg His Pro Ala Glu
1 5 10 15

Asn Gly Lys Ser Asn Phe Leu Asn Cys Tyr Val Ser Gly Phe His Pro
20 25 30

Ser Asp Ile Glu Val Asp Leu Leu Lys Asn Gly Glu Arg Ile Glu Lys
35 40 45

Val Glu His Ser Asp Leu Ser Phe Ser Lys Asp Trp Ser Phe Tyr Leu
50 55 60

Leu Tyr Tyr Thr Glu Phe Thr Pro Thr Glu Lys Asp Glu Tyr Ala Cys
65 70 75 80

Arg Val Asn His Val Thr Leu Cys Gln Pro Lys Ile Val Lys Trp Asp
85 90 95

Arg Asp Met

<210> 108

<211> 297

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polynucleotide

<400> 108

atccagcgta ctccaaagat tcaggtttac tcacgtcatc cagcagagaa tggaaagtca	60
aatttcctga attgctatgt gtctgggttt catccatccg acattgaagt tgacttactg	120
aagaatggag agagaattga aaaagtggag cattcagact tgtctttcag caaggactgg	180
tctttctatc tcttgacta cactgaattc acccccactg aaaaagatga gtatgcctgc	240
cgtgtgaacc atgtgacttt gtgccagccc aagatagtta agtgggatcg agacatg	297

<210> 109

<211> 828

<212> DNA

<213> Homo sapiens

<400> 109

ggctcccact ccatgaggtta tttcttcaca tccgtgtccc ggcccggccg cggggagccc	60
cgcttcatcg ccgtgggcta cgtggacgac acgcagttcg tgcggttcga cagcgacgcc	120
gcgagccaga agatggagcc gcgggcgccg tggatagagc aggaggggcc ggagtattgg	180
gaccaggaga cacggaatat gaaggccac tcacagactg accgagcgaa cctggggacc	240
ctgcgaggct gctacaacca gagcgaggac ggttctcaca ccatccagat aatgtatggc	300
tgcgacgtgg ggccggacgg gcgcttcctc cgcggggtacc ggcaggacgc ctacgacggc	360
aaggattaca tcgccctgaa cgaggacctg cgctcttgga ccgcggcgga catggcagct	420
cagatcacca agcgcaagtg ggaggcggtc catgcggcgg agcagcggag agtctacctg	480
gagggccggt gcgtggacgg gctccgcaga tacctggaga acgggaagga gacgctgcag	540
cgcacggacc cccccaagac acatatgacc caccaccca tctctgacca tgaggccacc	600
ctgaggtgct gggccctggg cttctaccct gcggagatca cactgacctg gcagcgggat	660
ggggaggacc agaccagga cacggagctc gtggagacca ggcctgcagg ggatggaacc	720
ttccagaagt gggcggctgt ggtggtgcct tctggagagg agcagagata cacctgcat	780
gtgcagcatg agggctctgcc caagcccctc accctgagat gggagctg	828

<210> 110

<211> 828

<212> DNA

<213> Homo sapiens

<400> 110

ggctctcact ccatgaggta tttcttcaca tccgtgtccc ggcccggccg cggggagccc	60
cgcttcatcg cagtgggcta cgtggacgac acgcagttcg tgcggttcga cagcgacgcc	120
gcgagccaga ggatggagcc gcgggcgccg tggatagagc aggagggtcc cgagtattgg	180
gacggggaga cacggaaagt gaaggccac tcacagactc accgagtgga cctggggacc	240
ctgcgcggct gctacaacca gagcgaggcc ggttctcaca ccgtccagag gatgtatggc	300
tgcgacgtgg ggtcggactg gcgcttcctc cgcgggtacc accagtacgc ctacgacggc	360
aaggattaca tcgccctgaa agaggacctg cgctcttgga ccgcggcgga catggcagct	420
cagaccacca agcacaagtg ggaggcggcc catgtggcgg agcagttgag agcctacctg	480
gagggcacgt gcgtggagtg gctccgcaga tacctggaga acgggaagga gacgtgcag	540
cgcacggacg cccccaaaac gcatatgact caccacgctg tctctgacca tgaagccacc	600
ctgaggtgct gggccctgag cttctaccct gcggagatca cactgacctg gcagcgggat	660
ggggaggacc agaccagga cacggagctc gtggagacca ggcctgcagg ggatggaacc	720
ttccagaagt gggcggctgt ggtggtgcct tctggacagg agcagagata cacctgcat	780
gtgcagcatg agggtttgcc caagcccctc accctgagat gggagccg	828

<210> 111

<211> 828

<212> DNA

<213> Homo sapiens

<400> 111

ggctcccact ccatgaggta tttcttcaca tccgtgtccc ggcccggccg cggggagccc	60
cgcttcatcg ccgtgggcta cgtggacgac acgcagttcg tgcggttcga cagcgacgcc	120
gcgagccaga ggatggagcc gcgggcgccg tggatagagc aggaggggcc ggagtattgg	180
gaccaggaga cacggaatgt gaaggcccag tcacagactg accgagtgga cctggggacc	240
ctgcgcggct gctacaacca gagcgaggcc ggttctcaca ccatccagat aatgtatggc	300
tgcgacgtgg ggtcggacgg gcgcttcctc cgcgggtacc ggcaggacgc ctacgacggc	360
aaggattaca tcgccctgaa cgaggacctg cgctcttgga ccgcggcgga catggcggct	420
cagatcacca agcgcaagtg ggaggcggcc catgaggcgg agcagttgag agcctacctg	480

gatggcacgt gcgtggagtg gctccgcaga tacctggaga acgggaagga gacgctgcag	540
cgcacggacc cccccaagac acatatgacc caccaccca tctctgacca tgaggccacc	600
ctgaggtgct gggccctggg cttctaccct gcggagatca cactgacctg gcagcgggat	660
ggggaggacc agaccagga cacggagctc gtggagacca ggcctgcagg ggatggaacc	720
ttccagaagt gggcggctgt ggtggtgcct tctggagagg agcagagata cacctgccat	780
gtgcagcatg agggctctgcc caagcccctc accctgagat gggagctg	828

<210> 112

<211> 828

<212> DNA

<213> Homo sapiens

<400> 112

ggctcccact ccatgaggta tttctccaca tccgtgtccc ggcccggccg cggggagccc	60
cgcttcatcg ccgtgggcta cgtggacgac acgcagttcg tgcggttcga cagcgacgcc	120
gcgagccaga ggatggagcc gcgggcgccg tggatagagc aggagggggc ggagtattgg	180
gacgaggaga cagggaaagt gaaggccac tcacagactg accgagagaa cctgcggatc	240
gcgctccgct gctacaacca gagcgaggcc ggttctcaca ccctccagat gatgtttggc	300
tgcgacgtgg ggtcggacgg gcgcttcctc cgcgggtacc accagtacgc ctacgacggc	360
aaggattaca tcgccctgaa agaggacctg cgctcttgga ccgcggcgga catggcggct	420
cagatcacca agcgcaagtg ggaggcggcc catgtggcgg agcagcagag agcctacctg	480
gagggcacgt gcgtggacgg gctccgcaga tacctggaga acgggaagga gacgctgcag	540
cgcacggacc cccccaagac acatatgacc caccaccca tctctgacca tgaggccact	600
ctgagatgct gggccctggg cttctaccct gcggagatca cactgacctg gcagcgggat	660
ggggaggacc agaccagga cacggagctt gtggagacca ggcctgcagg ggatggaacc	720
ttccagaagt gggcagctgt ggtggtacct tctggagagg agcagagata cacctgccat	780
gtgcagcatg agggctctgcc caagcccctc accctgagat gggagcca	828

<210> 113

<211> 828

<212> DNA

<213> Homo sapiens

<400> 113

ggctcccact ccatgaggta tttctccaca tccgtgtccc ggcccggcag tggagagccc	60
cgcttcatcg cagtgggcta cgtggacgac acgcagttcg tgcggttcga cagcgacgcc	120
gcgagccaga ggatggagcc gcgggcgccg tggatagagc aggagaggcc tgagtattgg	180
gaccaggaga cacggaatgt gaaggccac tcacagactg accgagagaa cctggggacc	240
ctgcgcggct gctacaacca gagcgaggcc ggttctcaca ccatccagat aatgtatggc	300
tgcgacgtgg ggtcggacgg gcgcttcctc cgcggttatg aacagcacgc ctacgacggc	360
aaggattaca tcgccctgaa cgaggacctg cgctcttgga ccgcggcgga catggcggct	420
cagatcacc agcgcaagt ggaggcggcc cgtcgggcgg agcagttgag agcctacctg	480
gagggcacgt gcgtggagt gctccgcaga tacctggaga acgggaagga gacgctgcag	540
cgcacggacc cccccaagac acatatgacc caccaccca tctctgacca tgaggccacc	600
ctgaggtgct gggccctggg cttctaccct gcggagatca cactgacctg gcagcgggat	660
ggggaggacc agaccagga cacggagctc gtggagacca ggcctgcagg ggatggaacc	720
ttccagaagt gggcggctgt ggtggtgcct tctggagagg agcagagata cacctgcat	780
gtgcagcatg agggctctgcc caagcccctc accctgagat gggagctg	828

<210> 114

<211> 828

<212> DNA

<213> Homo sapiens

<400> 114

ggctcccact ccatgaggta tttcaccaca tccgtgtccc ggcccggccg cggggagccc	60
cgcttcatcg ccgtgggcta cgtggacgac acgcagttcg tgcggttcga cagcgacgcc	120
gcgagccaga ggatggagcc gcgggcgccg tggatagagc aggagaggcc tgagtattgg	180
gaccaggaga cacggaatgt gaaggccac tcacagattg accgagtgga cctggggacc	240
ctgcgcggct gctacaacca gagcgaggcc ggttctcaca ccatccagat gatgtatggc	300
tgcgacgtgg ggtcggacgg gcgcttcctc cgcggttacc agcaggacgc ctacgacggc	360
aaggattaca tcgccttgaa cgaggacctg cgctcttgga ccgcggcgga catggcggct	420
cagatcacc agcgcaagt ggaggcggcc cgtgtggcgg agcagttgag agcctacctg	480
gagggcacgt gcgtggagt gctccgcaga tacctggaga acgggaagga gacgctgcag	540
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 <212> DNA
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 <212> DNA
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<211> 828

<212> DNA

<213> Homo sapiens

<400> 117

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<211> 828

<212> DNA

<213> Homo sapiens

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<211> 828

<212> DNA

<213> Homo sapiens

<400> 123

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<210> 126

<211> 828

<212> DNA

<213> Homo sapiens

<400> 126

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<211> 828

<212> DNA

<213> Homo sapiens

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<211> 828

<212> DNA

<213> Homo sapiens

<400> 128

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<211> 828

<212> DNA

<213> Homo sapiens

<400> 129

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<212> DNA

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<212> DNA

<213> Homo sapiens

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828

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<211> 180

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polynucleotide

<400> 175

ggcagcggcg gcagcggggg ctccgccggc ggaggcctga acgacatctt cgaagcccag 60

aagatcgagt ggcacgaggg cgggggagag aacctgtact tccagggcgg cagccaccac 120

catcaccacc atggcggcgg aagcggcggc ggttcggca gccaccatca ccatcaccat 180

<210> 176

<211> 60

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 176

Gly Ser Gly Gly Ser Gly Gly Ser Ala Gly Gly Gly Leu Asn Asp Ile
1 5 10 15

Phe Glu Ala Gln Lys Ile Glu Trp His Glu Gly Gly Gly Glu Asn Leu
20 25 30

Tyr Phe Gln Gly Gly Ser His His His His His Gly Gly Gly Ser
35 40 45

Gly Gly Gly Ser Gly Ser His His His His His His
50 55 60

<210> 177

<211> 78

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown:

Signal sequence universal target sequence

<400> 177
 atggcgacgg gttcaagaac ttccctactt cttgcatttg gcctgctttg tttgccgtgg 60
 ttacaggagg gctcagca 78

<210> 178
 <211> 26
 <212> PRT
 <213> Unknown

<220>
 <223> Description of Unknown:
 Signal sequence universal target sequence

<400> 178
 Met Ala Thr Gly Ser Arg Thr Ser Leu Leu Leu Ala Phe Gly Leu Leu
 1 5 10 15

Cys Leu Pro Trp Leu Gln Glu Gly Ser Ala
 20 25

<210> 179
 <211> 225
 <212> DNA
 <213> Bos taurus

<400> 179
 tgtgccttct agttgccagc catctgttgt ttgccctcc cccgtgcctt ccttgaccct 60
 ggaagggtgcc actcccactg tcctttccta ataaaatgag gaaattgcat cgcattgtct 120
 gagtaggtgt cattctattc tgggggggtgg ggtggggcag gacagcaagg gggaggattg 180
 ggaagacaat agcaggcatg ctggggatgc ggtgggctct atggc 225

<210> 180
 <211> 131
 <212> DNA
 <213> Simian virus 40

<400> 180
 acttgtttat tgcagcttat aatggttaca aataaagcaa tagcatcaca aatttcacaa 60
 ataaagcatt tttttcactg cattctagtt gtggtttgtc caaactcatc aatgtatctt 120
 atcatgtctg t 131

<210> 181
 <211> 479
 <212> DNA
 <213> Homo sapiens

<400> 181
 acgggtggca tccctgtgac ccctccccag tgcctctcct ggccctggaa gttgccactc 60
 cagtgtccac cagccttgct ctaataaaat taagttgcat cttttgtct gactaggtgt 120
 ctttctataa tattatgggg tggagggggg tggatatggag caaggggcaa gttgggaaga 180
 caacctgtag ggcctgcggg gtctattggg aaccaagctg gaggcagtg gcacaatctt 240
 ggctcactgc aatctccgcc tcctgggttc aagcgattct cctgcctcag cttcccgagt 300
 tgttgggatt ccaggcatgc atgaccaggc tcagctaatt tttgtttttt tggttagagac 360
 ggggtttcac catattggcc aggctggctt ccaactccta atctcaggtg atctaccac 420
 cttggcctcc caaattgctg ggattacagg cgtgaaccac tgctcccttc cctgtcctt 479

<210> 182
 <211> 527
 <212> DNA
 <213> Unknown

<220>
 <223> Description of Unknown:
 rbGlob polyA sequence

<400> 182
 ttcactcctc aggtgcaggc tgcctatcag aaggtggtgg ctggtgtggc caatgccctg 60
 gtcacaaat accactgaga tctttttccc tctgcaaaa attatgggga catcatgaag 120
 ccccttgagc atctgacttc tggctaataa aggaaattta ttttcattgc aatagtgtgt 180
 tggaattttt tgtgtctctc actcggaagg acatatggga gggcaaatca tttaaaacat 240
 cagaatgagt atttggttta gagtttggca acatatgccc atatgctggc tgccatgaac 300
 aaagggtggc tataaagagg tcatcagtat atgaaacagc cccctgctgt ccattcctta 360
 ttccatagaa aagccttgac ttgaggtag atttttttta tttttgttt tgtgttattt 420
 ttttcttta catccctaaa attttcctta catgttttac tagccagatt tttcctcctc 480
 tcctgactac tcccagtcac agctgtccct cttctcttat ggagatc 527

<210> 183
 <211> 6

<212> PRT
<213> Unknown

<220>

<223> Description of Unknown:
Thrombin cleavage site sequence

<400> 183
Leu Val Pro Arg Gly Ser
1 5

<210> 184
<211> 18
<212> DNA
<213> Unknown

<220>

<223> Description of Unknown:
Thrombin cleavage site sequence

<400> 184
ctggtgccgc gcggcagc

18

<210> 185
<211> 4
<212> PRT
<213> Unknown

<220>

<223> Description of Unknown:
Factor Xa site sequence

<400> 185
Ile Glu Gly Arg
1

<210> 186
<211> 12
<212> DNA
<213> Unknown

<220>

<223> Description of Unknown:
Factor Xa site sequence

<400> 186
attgaaggcc gc

12

<210> 187
<211> 8

<212> PRT
<213> Unknown

<220>

<223> Description of Unknown:
Rhinovirus 3C site sequence

<400> 187
Leu Glu Val Leu Phe Gln Gly Pro
1 5

<210> 188
<211> 24
<212> DNA
<213> Unknown

<220>

<223> Description of Unknown:
Rhinovirus 3C site sequence

<400> 188
ctggaagtgc tgtttcaggg cccg

24

<210> 189
<211> 5
<212> PRT
<213> Unknown

<220>

<223> Description of Unknown:
Enterokinase site sequence

<400> 189
Asp Asp Asp Asp Lys
1 5

<210> 190
<211> 15
<212> DNA
<213> Unknown

<220>

<223> Description of Unknown:
Enterokinase site sequence

<400> 190
gatgatgatg ataaa

15

<210> 191
<211> 24

<212> DNA
 <213> Artificial Sequence

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

 <400> 191
 gattacaagg atgacgacga taag 24

 <210> 192
 <211> 8
 <212> PRT
 <213> Artificial Sequence

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

 <400> 192
 Asp Tyr Lys Asp Asp Asp Asp Lys
 1 5

 <210> 193
 <211> 27
 <212> DNA
 <213> Artificial Sequence

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

 <400> 193
 tacccatacg atgttcaga ttacgct 27

 <210> 194
 <211> 9
 <212> PRT
 <213> Artificial Sequence

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

 <400> 194
 Tyr Pro Tyr Asp Val Pro Asp Tyr Ala
 1 5

 <210> 195
 <211> 30

<212> DNA
 <213> Artificial Sequence

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

<400> 195
 gaacaaaaac ttatttctga agaagatctg 30

<210> 196
 <211> 10
 <212> PRT
 <213> Artificial Sequence

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

<400> 196
 Glu Gln Lys Leu Ile Ser Glu Glu Asp Leu
 1 5 10

<210> 197
 <211> 549
 <212> DNA
 <213> Artificial Sequence

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

<400> 197
 cgcaagatcg tcgttgacgc catcgccgtt tccctgacca cggctctgat tacggccagc 60
 gcttcggcag acccctccaa ggactcgaag gcccaggtct cggccgccga ggccggcatc 120
 accggcacct ggtacaacca gctcggctcg accttcatcg tgaccgcggg cgccgacggc 180
 gccctgaccg gaacctacga gtcggccgtc ggcaacgccg agagccgcta cgtcctgacc 240
 ggctcgttacg acagcgcccc ggccaccgac ggacgcggca ccgccctcgg ttggacgggtg 300
 gcctggaaga ataactaccg caacgccac tccgcgacca cgtggagcgg ccagtacgtc 360
 ggccggcgccg aggcgaggat caacaccag tggctgctga cctccggcac caccgaggcc 420
 aacgcctgga agtccacgct ggtcggccac gacaccttca ccaaggtgaa gccgtccgcc 480
 gcctccatcg acgcggcgaa gaaggccggc gtcaacaacg gcaacccgct cgacgccgtt 540
 cagcagtag 549

<210> 198

<211> 182

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 198

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

Ile Thr Ala Ser Ala Ser Ala Asp Pro Ser Lys Asp Ser Lys Ala Gln
20 25 30

Val Ser Ala Ala Glu Ala Gly Ile Thr Gly Thr Trp Tyr Asn Gln Leu
35 40 45

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

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

Gly Arg Tyr Asp Ser Ala Pro Ala Thr Asp Gly Ser Gly Thr Ala Leu
85 90 95

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

Thr Thr Trp Ser Gly Gln Tyr Val Gly Gly Ala Glu Ala Arg Ile Asn
115 120 125

Thr Gln Trp Leu Leu Thr Ser Gly Thr Thr Glu Ala Asn Ala Trp Lys
130 135 140

Ser Thr Leu Val Gly His Asp Thr Phe Thr Lys Val Lys Pro Ser Ala
145 150 155 160

Ala Ser Ile Asp Ala Ala Lys Lys Ala Gly Val Asn Asn Gly Asn Pro
165 170 175

Leu Asp Ala Val Gln Gln
180

<210> 199
<211> 9
<212> PRT
<213> Unknown

<220>
<223> Description of Unknown:
Neo12 epitope sequence

<400> 199
Tyr Leu Tyr His Arg Val Asp Val Ile
1 5

<210> 200
<211> 10
<212> PRT
<213> Unknown

<220>
<223> Description of Unknown:
MART1 epitope sequence

<400> 200
Glu Leu Ala Gly Ile Gly Ile Leu Thr Val
1 5 10

<210> 201
<211> 4
<212> PRT
<213> Artificial Sequence

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

<400> 201
Gly Gly Gly Ser
1

<210> 202
<211> 77
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<220>

<221> modified_base

<222> (30)..(35)

<223> a, c, t, g, unknown or other

<220>

<221> modified_base

<222> (44)..(49)

<223> a, c, t, g, unknown or other

<400> 202

ctcgccacgt cggctatcct gatcggatgn nnnntcaat ccgnnnnnnc tggacgtgag 60

caagctacag cgacctc 77

<210> 203

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 203

Glu Tyr Ile Pro Gly Thr Thr Phe Leu

1 5

<210> 204

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 204

Ile Tyr Asn Ile Ile Val Thr Thr Leu

1 5

<210> 205

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 205

Lys Thr Ser Val Ala Leu His Leu Ile
1 5

<210> 206

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 206

His Leu Ser Leu Glu Leu Leu Gly Val Asp
1 5 10

<210> 207

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 207

Asp Glu Tyr Ile Pro Gly Thr Thr Phe
1 5

<210> 208

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 208

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

<210> 209

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 209

Cys Ala Val Arg Asp Val Ser Ala Arg Leu Met Phe
1 5 10

<210> 210

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 210

Cys Ala Arg Asn Thr Gly Asn Gln Phe Tyr Phe
1 5 10

<210> 211

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 211

Cys Ala Val Leu Met Asp Ser Asn Tyr Gln Leu Ile Trp
1 5 10

<210> 212

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 212

Cys Ala Val Arg Asp Val Asn Ala Arg Leu Met Phe
1 5 10

<210> 213

<211> 12

<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 213

Cys	Ala	Val	Met	Leu	Tyr	Thr	Asp	Lys	Leu	Ile	Phe
1				5					10		

<210> 214

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 214

Cys	Ala	Phe	Asn	Asp	Tyr	Lys	Leu	Ser	Phe
1				5					10

<210> 215

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 215

Cys	Ala	Val	Phe	Phe	Gly	Asn	Val	Leu	His	Cys
1				5					10	

<210> 216

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 216

Cys	Ala	Ser	Ser	Pro	Val	Ala	Gly	Asn	Asn	Arg	Lys	Leu	Ile	Trp
1					5				10					15

<210> 217
 <211> 11
 <212> PRT
 <213> Artificial Sequence

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

 <400> 217
 Cys Ile Leu Val Asn Asn Asn Asp Met Arg Phe
 1 5 10

<210> 218
 <211> 13
 <212> PRT
 <213> Artificial Sequence

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

 <400> 218
 Cys Ala Val Leu Arg Asp Ser Asn Tyr Gln Leu Ile Trp
 1 5 10

<210> 219
 <211> 10
 <212> PRT
 <213> Artificial Sequence

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

 <400> 219
 Cys Ala Leu Val Tyr Asp Lys Ile Ile Phe
 1 5 10

<210> 220
 <211> 12
 <212> PRT
 <213> Artificial Sequence

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

 <400> 220
 Cys Ala Phe Pro Tyr Gly Ser Asn Arg Leu Ala Phe
 1 5 10

<210> 221
<211> 11
<212> PRT
<213> Artificial Sequence

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

<400> 221
Cys Ala His Asn Tyr Gly Gln Asn Phe Val Phe
1 5 10

<210> 222
<211> 16
<212> PRT
<213> Artificial Sequence

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

<400> 222
Cys Ala Gly Pro His Ala Gly Gly Thr Ser Tyr Gly Lys Leu Thr Phe
1 5 10 15

<210> 223
<211> 9
<212> PRT
<213> Artificial Sequence

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

<400> 223
Cys Phe Ser Glu Val Ser Ala Lys Phe
1 5

<210> 224
<211> 10
<212> PRT
<213> Artificial Sequence

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

<220>
 <221> MOD_RES
 <222> (4)..(4)
 <223> Phe or Ser

 <400> 224
 Lys Thr Tyr Xaa Lys Pro Phe His Pro Lys
 1 5 10

 <210> 225
 <211> 9
 <212> PRT
 <213> Artificial Sequence

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

 <220>
 <221> MOD_RES
 <222> (2)..(2)
 <223> Phe or Ser

 <400> 225
 Tyr Xaa Lys Pro Phe His Pro Lys Phe
 1 5

 <210> 226
 <211> 9
 <212> PRT
 <213> Artificial Sequence

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

 <400> 226
 Ala Met Met Asp Tyr Phe Phe Gln Arg
 1 5

 <210> 227
 <211> 9
 <212> PRT
 <213> Artificial Sequence

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

 <400> 227

Tyr Phe Lys Pro Phe His Pro Lys Phe
1 5

<210> 228
<211> 15
<212> PRT
<213> Artificial Sequence

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

<400> 228
Cys Ala Glu Ser Ser Pro Ser Gly Gly Tyr Asn Lys Leu Ile Phe
1 5 10 15

<210> 229
<211> 13
<212> PRT
<213> Artificial Sequence

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

<400> 229
Cys Ala Val Asn Ser Gly Ser Ala Arg Gln Leu Thr Phe
1 5 10

<210> 230
<211> 13
<212> PRT
<213> Artificial Sequence

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

<400> 230
Cys Val Val Asn Gly Glu Asn Asp Tyr Lys Leu Ser Phe
1 5 10

<210> 231
<211> 12
<212> PRT
<213> Artificial Sequence

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

<400> 231
Cys Ala Met Thr Tyr Gly Asn Asn Arg Leu Ala Phe
1 5 10

<210> 232
<211> 16
<212> PRT
<213> Artificial Sequence

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

<400> 232
Cys Ala Val Arg Arg Gly Ser Gly Ala Gly Ser Tyr Gln Leu Thr Phe
1 5 10 15

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

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

<400> 233
Cys Ala Val Arg Asp Tyr Asn Gln Gly Gly Lys Leu Ile Phe
1 5 10

<210> 234
<211> 13
<212> PRT
<213> Artificial Sequence

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

<400> 234
Cys Ala Val Asn Asp Pro Asn Asp Tyr Lys Leu Ser Phe
1 5 10

<210> 235
<211> 13
<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 235

Cys Ala Gly Tyr Gln Gly Gly Ser Glu Lys Leu Val Phe
1 5 10

<210> 236

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 236

Cys Ala Val Gly Ser Asn Ala Gly Gly Thr Ser Tyr Gly Lys Leu Thr
1 5 10 15

Phe

<210> 237

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 237

Cys Val Val Asn Val Pro Asn Asp Tyr Lys Leu Ser Phe
1 5 10

<210> 238

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 238

Cys Val Val Asn Pro Ser Gly Gly Ser Tyr Ile Pro Thr Phe
1 5 10

<210> 239
<211> 13
<212> PRT
<213> Artificial Sequence

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

<400> 239
Cys Val Val Asn Leu Ser Asn Asp Tyr Lys Leu Ser Phe
1 5 10

<210> 240
<211> 12
<212> PRT
<213> Artificial Sequence

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

<400> 240
Cys Ala Val Ser Gly Asp Asp Tyr Lys Leu Ser Phe
1 5 10

<210> 241
<211> 12
<212> PRT
<213> Artificial Sequence

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

<400> 241
Cys Val Val Asn Ser Asn Asp Tyr Lys Leu Ser Phe
1 5 10

<210> 242
<211> 13
<212> PRT
<213> Artificial Sequence

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

<400> 242
Cys Ala Ser Ser Ala Ile Arg Thr Tyr Glu Gln Tyr Phe
1 5 10

<210> 243
 <211> 11
 <212> PRT
 <213> Artificial Sequence

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

<400> 243
 Cys Ala Ser Ser Asn Asn Asn Glu Gln Phe Phe
 1 5 10

<210> 244
 <211> 13
 <212> PRT
 <213> Artificial Sequence

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

<400> 244
 Cys Ala Ser Gln Arg Met Tyr Asp Asn Glu Gln Phe Phe
 1 5 10

<210> 245
 <211> 14
 <212> PRT
 <213> Artificial Sequence

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

<400> 245
 Cys Ala Ser Ser Met Gly Gln Gly Ala Asp Glu Gln Tyr Phe
 1 5 10

<210> 246
 <211> 14
 <212> PRT
 <213> Artificial Sequence

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

<400> 246

Cys Ala Ser Gly Pro Asp Thr Pro Leu Tyr Gly Tyr Thr Phe
1 5 10

<210> 247
<211> 13
<212> PRT
<213> Artificial Sequence

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

<400> 247
Cys Ala Ser Ser Glu Ala Trp Gly Tyr Glu Gln Tyr Phe
1 5 10

<210> 248
<211> 13
<212> PRT
<213> Artificial Sequence

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

<400> 248
Cys Ala Ser Ser His Lys Trp Ser Thr Glu Ala Phe Phe
1 5 10

<210> 249
<211> 11
<212> PRT
<213> Artificial Sequence

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

<400> 249
Cys Ala Ser Ser Gln Asn Asn Glu Gln Tyr Phe
1 5 10

<210> 250
<211> 13
<212> PRT
<213> Artificial Sequence

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

<400> 250

Cys Ala Ser Ser Ser Asp Arg Ala Pro Pro Leu His Phe
1 5 10

<210> 251

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 251

Cys Ala Ser Ser Leu Ala Tyr Arg Val Glu Gln Tyr Phe
1 5 10

<210> 252

<211> 18

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 252

Cys Ala Ser Ser Tyr Glu Gly Gly Leu Ala Ala Phe Thr Gly Glu Leu
1 5 10 15

Phe Phe

<210> 253

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 253

Cys Ala Ser Ser Ser Ser Trp Asn Thr Glu Ala Phe Phe
1 5 10

<210> 254

<211> 13

<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 254

Cys	Ala	Ser	Ser	Ser	Ser	Thr	Val	Val	Glu	Gln	Tyr	Phe
1				5					10			

<210> 255

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 255

Cys	Ala	Ser	Ser	Pro	Arg	Trp	Ser	Thr	Glu	Ala	Phe	Phe
1				5					10			

<210> 256

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 256

Lys	Thr	Tyr	Phe	Lys	Pro	Phe	His	Pro	Lys
1				5					10

<210> 257

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 257

Arg	Leu	Gln	Asn	His	Met	Ala	Val	Ala
1				5				

<210> 258
<211> 15
<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 258

Cys Ala Val Gly Glu Leu Asp Thr Gly Phe Gln Lys Leu Val Phe
1 5 10 15

<210> 259
<211> 11
<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 259

Cys Ala Tyr Pro Ser Gly Asn Gln Phe Tyr Phe
1 5 10

<210> 260
<211> 12
<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 260

Cys Ala Val Glu Asp Ser Gly Tyr Ala Leu Asn Phe
1 5 10

<210> 261
<211> 12
<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 261

Cys Ala Leu Gln Asp Ser Asn Tyr Gln Leu Ile Trp
1 5 10

<210> 262
<211> 11
<212> PRT
<213> Artificial Sequence

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

<400> 262
Cys Ala Phe Gly Asn Phe Asn Lys Phe Tyr Phe
1 5 10

<210> 263
<211> 9
<212> PRT
<213> Artificial Sequence

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

<400> 263
Cys Ala Glu Asp Tyr Asp Met Arg Phe
1 5

<210> 264
<211> 12
<212> PRT
<213> Artificial Sequence

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

<400> 264
Cys Ala Ser Ser Glu Asp Ser Tyr Glu Gln Tyr Phe
1 5 10

<210> 265
<211> 16
<212> PRT
<213> Artificial Sequence

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

<400> 265

Cys Ala Ser Trp Gly Ala Gly Leu Pro Leu Asn Thr Glu Ala Phe Phe
 1 5 10 15

<210> 266
 <211> 13
 <212> PRT
 <213> Artificial Sequence

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

<400> 266
 Cys Ser Ala Ser Arg Pro Thr Asp Gly Glu Gln Phe Phe
 1 5 10

<210> 267
 <211> 13
 <212> PRT
 <213> Artificial Sequence

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

<400> 267
 Cys Ser Ala Ile Ala Gly Leu Thr Asp Thr Gln Tyr Phe
 1 5 10

<210> 268
 <211> 14
 <212> PRT
 <213> Artificial Sequence

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

<400> 268
 Cys Ala Ser Ser Leu Gln Val Pro Tyr Asn Glu Gln Phe Phe
 1 5 10

<210> 269
 <211> 15
 <212> PRT
 <213> Artificial Sequence

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

<400> 269
 Cys Ala Ser Leu Lys Glu Gly Glu Ala Gln Asn Ile Gln Tyr Phe
 1 5 10 15

<210> 270
 <211> 60
 <212> DNA
 <213> Artificial Sequence

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

<400> 270
 ggagggctca gcatgactcg agataaaatg tgaataatga ggatgcggag gatccggcgg 60

<210> 271
 <211> 43
 <212> DNA
 <213> Artificial Sequence

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

<400> 271
 tcagcatacc tgtaccaccg ggtggacgtg atcggatgcg gag 43

<210> 272
 <211> 10
 <212> DNA
 <213> Artificial Sequence

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

<400> 272
 gatccggcgg 10

<210> 273
 <211> 10
 <212> DNA
 <213> Artificial Sequence

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

<400> 273 tgagccctcc	10
<210> 274 <211> 44 <212> DNA <213> Artificial Sequence	
<220> <223> Description of Artificial Sequence: Synthetic oligonucleotide	
<400> 274 gatcctccgc atccgatcac gtccacccgg tggtagaggt atgc	44
<210> 275 <211> 56 <212> DNA <213> Artificial Sequence	
<220> <223> Description of Artificial Sequence: Synthetic oligonucleotide	
<220> <221> modified_base <222> (1)..(3) <223> a, c, t, g, unknown or other	
<400> 275 nnngctcagc atacctgtac caccgggtgg acgtgatcgg aagcggagga tccggc	56
<210> 276 <211> 22 <212> DNA <213> Artificial Sequence	
<220> <223> Description of Artificial Sequence: Synthetic oligonucleotide	
<220> <221> modified_base <222> (1)..(4) <223> a, c, t, g, unknown or other	
<400> 276 nnnngccggt acctccgctt cc	22

<210> 277
<211> 200
<212> DNA
<213> Artificial Sequence

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

<400> 277
gtttaaactt aagcttgagg cgcctatggc gacgggttca agaacttccc tacttcttgc 60
atttggcctg ctttgtttgc cgtgggttaca ggagggttca gcatactgt accaccgggt 120
ggacgtgatc ggatgcggag gatccggcgg aggcggggagc ggaggcggag ggtctatcca 180
gcgtactcca aagattcagg 200

<210> 278
<211> 43
<212> DNA
<213> Artificial Sequence

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

<400> 278
tcagcatacc tgtaccaccg ggtggacgtg atcggtatgc gag 43

<210> 279
<211> 44
<212> DNA
<213> Artificial Sequence

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

<400> 279
gatcctccgc atccgatcac gtccaccggg tggtacaggt atgc 44

<210> 280
<211> 42
<212> PRT
<213> Artificial Sequence

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

<400> 280

Gly Ser Gly Gly Ser Gly Gly Ser Ala Gly Gly Gly Leu Asn Asp Ile
1 5 10 15

Phe Glu Ala Gln Lys Ile Glu Trp His Glu Gly Gly Gly Glu Asn Leu
20 25 30

Tyr Phe Gln Gly His His His His His His
35 40

<210> 281

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 281

Gly Gly Gly Leu Asn Asp Ile Phe Glu Ala Gln Lys Ile Glu Trp His
1 5 10 15

<210> 282

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 282

Cys Ala Val Arg Asp Leu Tyr Ser Ser Ala Ser Lys Ile Ile Phe
1 5 10 15

<210> 283

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 283

Cys Ala Ser Ser Tyr Lys Gly Pro Glu Ala Phe Phe
1 5 10

<210> 284
<211> 9
<212> PRT
<213> Artificial Sequence

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

<400> 284
Ile Thr Phe His Asp Met Glu Ser Val
1 5

<210> 285
<211> 12
<212> PRT
<213> Artificial Sequence

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

<400> 285
Cys Ala Ser Ser Ser Ser Gly Asn Thr Ile Tyr Phe
1 5 10

<210> 286
<211> 17
<212> PRT
<213> Artificial Sequence

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

<400> 286
Cys Ala Ser Ser Leu Lys Ser Arg Asp Ser Thr Asn Tyr Gly Tyr Thr
1 5 10 15

Phe

<210> 287
<211> 15
<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 287

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

<210> 288

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 288

Cys	Ala	Ser	Ser	Leu	Lys	Leu	Arg	Gly	Thr	Gly	Asp	Tyr	Glu	Gln	Tyr
1				5					10					15	

Phe

<210> 289

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 289

Cys	Ser	Val	Thr	Pro	Trp	Gly	Ser	Gly	Ser	Tyr	Asn	Glu	Gln	Phe	Phe
1				5					10					15	

<210> 290

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 290

Cys	Ala	Ser	Ser	Leu	Lys	Asp	Arg	Asp	Ser	Ser	Asn	Gln	Pro	Gln	His
1				5					10					15	

Phe

<210> 291
<211> 13
<212> PRT
<213> Artificial Sequence

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

<400> 291
Cys Ala Ser Ser Ser Gly Leu Ala Asp Thr Gln Tyr Phe
1 5 10

<210> 292
<211> 14
<212> PRT
<213> Artificial Sequence

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

<400> 292
Cys Ala Ser Arg Phe Leu Gln Gly Ser Thr Glu Ala Phe Phe
1 5 10

<210> 293
<211> 16
<212> PRT
<213> Artificial Sequence

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

<400> 293
Cys Ala Val Pro Gln Thr Ser Gly Ala Gly Ser Tyr Gln Leu Thr Phe
1 5 10 15

<210> 294
<211> 16
<212> PRT
<213> Artificial Sequence

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

<400> 294

Cys Ala Val Arg Thr Asn Tyr Gly Gly Ser Gln Gly Asn Leu Ile Phe
1 5 10 15

<210> 295

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 295

Cys Ala Val Arg Leu Thr Gly Gly Gly Asn Lys Leu Thr Phe
1 5 10

<210> 296

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 296

Cys Ala Leu Ala Asn Gln Ala Gly Thr Ala Leu Ile Phe
1 5 10

<210> 297

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 297

Cys Ala Tyr Arg Asn Phe Gly Asn Glu Lys Leu Thr Phe
1 5 10

<210> 298

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 298

Cys Ala Val Arg Gly Arg Asp Ser Asn Tyr Gln Leu Ile Trp
1 5 10

<210> 299

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 299

Cys Ala Val Asn Ser Asn Tyr Gln Leu Ile Trp
1 5 10

<210> 300

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 300

Cys Ala Val Trp Pro Asn Asn Asn Asp Met Arg Phe
1 5 10

<210> 301

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 301

Asp Glu Tyr Ile Pro Gly Thr Thr Phe Leu
1 5 10

<210> 302

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 302

His Leu Ser Leu Glu Leu Leu Gly Val
1 5

<210> 303

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 303

Cys Ala Ser Ser Trp Gly Leu Ala Ala Thr Lys Thr Tyr Glu Gln Tyr
1 5 10 15

Phe

<210> 304

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 304

Cys Ala Ser Ser Ser Gly Thr Ser Gly Gly Asn Ile Gln Tyr Phe
1 5 10 15

<210> 305

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 305

Cys Ala Ser Ser Phe Gly Leu Ser Gly Glu Gln Tyr Phe
1 5 10

<210> 306
<211> 9
<212> PRT
<213> Artificial Sequence

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

<400> 306
Leu Gln Glu Gln Val Ala Leu Lys Tyr
1 5

<210> 307
<211> 9
<212> PRT
<213> Artificial Sequence

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

<400> 307
Leu Thr Arg Pro Phe Asn Phe Val Tyr
1 5

<210> 308
<211> 13
<212> PRT
<213> Artificial Sequence

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

<400> 308
Cys Ala Pro Arg Gly Asp Ala Gly Asn Met Leu Thr Phe
1 5 10

<210> 309
<211> 12
<212> PRT
<213> Artificial Sequence

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

<400> 309

Cys Leu Val Gly Asp Asn Asn Asn Asp Met Arg Phe
1 5 10

<210> 310
<211> 15
<212> PRT
<213> Artificial Sequence

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

<400> 310
Cys Ala Val Arg Asp Ser Met Glu Tyr Gly Asn Lys Leu Val Phe
1 5 10 15

<210> 311
<211> 15
<212> PRT
<213> Artificial Sequence

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

<400> 311
Cys Ala Val Arg Asp Ser Asp Asn Tyr Gly Gln Asn Phe Val Phe
1 5 10 15

<210> 312
<211> 16
<212> PRT
<213> Artificial Sequence

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

<400> 312
Cys Ala Ser Leu Gly Ala Gly Gly Thr Ser Tyr Gly Lys Leu Thr Phe
1 5 10 15

<210> 313
<211> 14
<212> PRT
<213> Artificial Sequence

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

<400> 313
 Cys Ala Ser Ser Leu Ser Asp Gly Pro Gln Pro Gln His Phe
 1 5 10

<210> 314
 <211> 15
 <212> PRT
 <213> Artificial Sequence

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

<400> 314
 Cys Ala Ser Ser Leu Glu Ala Gly Ser Thr Tyr Glu Gln Tyr Phe
 1 5 10 15

<210> 315
 <211> 9
 <212> PRT
 <213> Artificial Sequence

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

<220>
 <221> MOD_RES
 <222> (3)..(3)
 <223> Tyr or Asp

<400> 315
 Thr Leu Xaa His Gln Leu Gln Pro Leu
 1 5

<210> 316
 <211> 10
 <212> PRT
 <213> Artificial Sequence

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

<220>
 <221> MOD_RES
 <222> (8)..(8)
 <223> Ser or Arg

<400> 316
Leu Leu Phe Gly Asp Leu Leu Xaa Val Ala
1 5 10

<210> 317
<211> 9
<212> PRT
<213> Artificial Sequence

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

<220>
<221> MOD_RES
<222> (5)..(5)
<223> His or Arg

<400> 317
Ser Val Lys Leu Xaa Asn Arg Val Val
1 5

<210> 318
<211> 10
<212> PRT
<213> Artificial Sequence

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

<220>
<221> MOD_RES
<222> (8)..(8)
<223> Leu or Ser

<400> 318
Glu Thr Ile Lys Asn Pro Arg Xaa Thr Val
1 5 10

<210> 319
<211> 9
<212> PRT
<213> Artificial Sequence

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

<220>
<221> MOD_RES
<222> (9)..(9)
<223> Leu or Pro

<400> 319
Lys Gln Ser Phe Ile Leu Arg Val Xaa
1 5

<210> 320
<211> 9
<212> PRT
<213> Artificial Sequence

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

<220>
<221> MOD_RES
<222> (6)..(6)
<223> Ser or Cys

<400> 320
Ser Thr Asp Ser Pro Xaa Ser Thr Leu
1 5

<210> 321
<211> 9
<212> PRT
<213> Artificial Sequence

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

<220>
<221> MOD_RES
<222> (8)..(8)
<223> Met or Val

<400> 321
Ala Arg Ser Val Ser Ser Ile Xaa Arg
1 5

<210> 322
<211> 9

<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<220>

<221> MOD_RES

<222> (2)..(2)

<223> Ala or Asp

<400> 322

Arg Xaa Ile Asp Lys Ile Tyr Val Arg
1 5

<210> 323

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<220>

<221> MOD_RES

<222> (7)..(7)

<223> Ile or Leu

<400> 323

Leu Ala Thr Ala Ala Ala Xaa Thr Tyr Gly
1 5 10

<210> 324

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 324

Arg Leu Tyr Thr Arg Thr Leu Tyr Leu
1 5