

114386-5002-US_SL_original
SEQUENCE LISTING

<110> COMPUGEN, LTD.

<120> ANTI-PVRIG ANTIBODIES AND METHODS OF USE

<130> 114386-5002-US

<140> 15/048,967

<141> 2016-02-19

<150> 62/235,823

<151> 2015-10-01

<150> 62/141,120

<151> 2015-03-31

<150> 62/118,208

<151> 2015-02-19

<160> 1542

<170> PatentIn version 3.5

<210> 1

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 1

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

<210> 2

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic primer

<400> 2

cttgtgttca ccacctctgg

20

<210> 3

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic primer

<400> 3

tggttctcatc gcaggagggtc

20

<210> 4

<211> 20

<212> DNA

<213> Artificial Sequence

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

<400> 4
 ttggctgtgg atacctcctt 20

<210> 5
 <211> 20
 <212> DNA
 <213> Artificial Sequence

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

<400> 5
 ataagggtcg tggagagcag 20

<210> 6
 <211> 8
 <212> PRT
 <213> Artificial Sequence

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

<400> 6
 Asp Tyr Lys Asp Asp Asp Asp Lys
 1 5

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

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

<400> 7
 His His His His His His
 1 5

<210> 8
 <211> 204
 <212> PRT
 <213> Homo sapiens

<400> 8
 Met Gly His Arg Thr Leu Val Leu Pro Trp Val Leu Leu Thr Leu Cys
 1 5 10 15

Val Thr Ala Gly Thr Pro Glu Val Trp Val Gln Val Arg Met Glu Ala
 20 25 30

Thr Glu Leu Ser Ser Phe Thr Ile Arg Cys Gly Phe Leu Gly Ser Gly
 35 40 45

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

Gly Thr Thr Leu Ala Val Leu His Pro Glu Arg Gly Ile Arg Gln Trp
65 70 75 80

Ala Pro Ala Arg Gln Ala Arg Trp Glu Thr Gln Ser Ser Ile Ser Leu
85 90 95

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

Cys Cys Lys Phe Ala Ser Phe Pro Glu Gly Ser Trp Glu Ala Cys Gly
115 120 125

Ser Leu Pro Pro Ser Ser Asp Pro Gly Leu Ser Ala Pro Pro Thr Pro
130 135 140

Ala Pro Ile Leu Arg Ala Asp Leu Ala Gly Ile Leu Gly Val Ser Gly
145 150 155 160

Val Leu Leu Phe Gly Cys Val Tyr Leu Leu His Leu Leu Arg Arg His
165 170 175

Lys His Arg Pro Ala Pro Arg Leu Gln Pro Ser Arg Thr Ser Pro Gln
180 185 190

Ala Pro Arg Ala Arg Ala Trp Ala Pro Ser Gln Ala
195 200

<210> 9
<211> 224
<212> PRT
<213> Homo sapiens

<400> 9
Met Arg Thr Glu Ala Gln Val Pro Ala Leu Gln Pro Pro Glu Pro Gly
1 5 10 15

Leu Glu Gly Ala Met Gly His Arg Thr Leu Val Leu Pro Trp Val Leu
20 25 30

Leu Thr Leu Cys Val Thr Ala Gly Thr Pro Glu Val Trp Val Gln Val
35 40 45

Arg Met Glu Ala Thr Glu Leu Ser Ser Phe Thr Ile Arg Cys Gly Phe
50 55 60

Leu Gly Ser Gly Ser Ile Ser Leu Val Thr Val Ser Trp Gly Gly Pro
65 70 75 80

Asn Gly Ala Gly Gly Thr Thr Leu Ala Val Leu His Pro Glu Arg Gly
85 90 95

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Ile Arg Gln Trp Ala Pro Ala Arg Gln Ala Arg Trp Glu Thr Gln Ser
100 105 110

Ser Ile Ser Leu Ile Leu Glu Gly Ser Gly Ala Ser Ser Pro Cys Ala
115 120 125

Asn Thr Thr Phe Cys Cys Lys Phe Ala Ser Phe Pro Glu Gly Ser Trp
130 135 140

Glu Ala Cys Gly Ser Leu Pro Pro Ser Ser Asp Pro Gly Leu Ser Ala
145 150 155 160

Pro Pro Thr Pro Ala Pro Ile Leu Arg Ala Asp Leu Ala Gly Ile Leu
165 170 175

Gly Val Ser Gly Val Leu Leu Phe Gly Cys Val Tyr Leu Leu His Leu
180 185 190

Leu Arg Arg His Lys His Arg Pro Ala Pro Arg Leu Gln Pro Ser Arg
195 200 205

Thr Ser Pro Gln Ala Pro Arg Ala Arg Ala Trp Ala Pro Ser Gln Ala
210 215 220

<210> 10
<211> 19
<212> PRT
<213> Artificial Sequence

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

<400> 10
Met Gly Trp Ser Cys Ile Ile Leu Phe Leu Val Ala Thr Ala Thr Gly
1 5 10 15

Val His Ser

<210> 11
<211> 382
<212> PRT
<213> Artificial Sequence

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

<400> 11
Met Gly Trp Ser Cys Ile Ile Leu Phe Leu Val Ala Thr Ala Thr Gly
1 5 10 15

Val His Ser Thr Pro Glu Val Trp Val Gln Val Arg Met Glu Ala Thr
20 25 30

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Glu Leu Ser Ser Phe Thr Ile Arg Cys Gly Phe Leu Gly Ser Gly Ser
 35 40 45
 Ile Ser Leu Val Thr Val Ser Trp Gly Gly Pro Asn Gly Ala Gly Gly
 50 55 60
 Thr Thr Leu Ala Val Leu His Pro Glu Arg Gly Ile Arg Gln Trp Ala
 65 70 75 80
 Pro Ala Arg Gln Ala Arg Trp Glu Thr Gln Ser Ser Ile Ser Leu Ile
 85 90 95
 Leu Glu Gly Ser Gly Ala Ser Ser Pro Cys Ala Asn Thr Thr Phe Cys
 100 105 110
 Cys Lys Phe Ala Ser Phe Pro Glu Gly Ser Trp Glu Ala Cys Gly Ser
 115 120 125
 Leu Pro Pro Ser Ser Asp Pro Gly Leu Ser Ala Pro Pro Thr Pro Ala
 130 135 140
 Pro Ile Leu Arg Ala Asp Glu Pro Lys Ser Ser Asp Lys Thr His Thr
 145 150 155 160
 Ser Pro Pro Ser Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe
 165 170 175
 Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro
 180 185 190
 Glu Val Thr Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu Val
 195 200 205
 Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr
 210 215 220
 Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val
 225 230 235 240
 Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys
 245 250 255
 Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser
 260 265 270
 Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro
 275 280 285
 Ser Arg Asp Glu Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val
 290 295 300

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Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly
305 310 315 320

Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp
325 330 335

Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp
340 345 350

Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His
355 360 365

Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
370 375 380

<210> 12
<211> 479
<212> PRT
<213> Homo sapiens

<400> 12
Met Ala Arg Ala Ala Ala Leu Leu Pro Ser Arg Ser Pro Pro Thr Pro
1 5 10 15

Leu Leu Trp Pro Leu Leu Leu Leu Leu Leu Glu Thr Gly Ala Gln
20 25 30

Asp Val Arg Val Gln Val Leu Pro Glu Val Arg Gly Gln Leu Gly Gly
35 40 45

Thr Val Glu Leu Pro Cys His Leu Leu Pro Pro Val Pro Gly Leu Tyr
50 55 60

Ile Ser Leu Val Thr Trp Gln Arg Pro Asp Ala Pro Ala Asn His Gln
65 70 75 80

Asn Val Ala Ala Phe His Pro Lys Met Gly Pro Ser Phe Pro Ser Pro
85 90 95

Lys Pro Gly Ser Glu Arg Leu Ser Phe Val Ser Ala Lys Gln Ser Thr
100 105 110

Gly Gln Asp Thr Glu Ala Glu Leu Gln Asp Ala Thr Leu Ala Leu His
115 120 125

Gly Leu Thr Val Glu Asp Glu Gly Asn Tyr Thr Cys Glu Phe Ala Thr
130 135 140

Phe Pro Lys Gly Ser Val Arg Gly Met Thr Trp Leu Arg Val Ile Ala
145 150 155 160

Lys Pro Lys Asn Gln Ala Glu Ala Gln Lys Val Thr Phe Ser Gln Asp
 165 170 175
 Pro Thr Thr Val Ala Leu Cys Ile Ser Lys Glu Gly Arg Pro Pro Ala
 180 185 190
 Arg Ile Ser Trp Leu Ser Ser Leu Asp Trp Glu Ala Lys Glu Thr Gln
 195 200 205
 Val Ser Gly Thr Leu Ala Gly Thr Val Thr Val Thr Ser Arg Phe Thr
 210 215 220
 Leu Val Pro Ser Gly Arg Ala Asp Gly Val Thr Val Thr Cys Lys Val
 225 230 235 240
 Glu His Glu Ser Phe Glu Glu Pro Ala Leu Ile Pro Val Thr Leu Ser
 245 250 255
 Val Arg Tyr Pro Pro Glu Val Ser Ile Ser Gly Tyr Asp Asp Asn Trp
 260 265 270
 Tyr Leu Gly Arg Thr Asp Ala Thr Leu Ser Cys Asp Val Arg Ser Asn
 275 280 285
 Pro Glu Pro Thr Gly Tyr Asp Trp Ser Thr Thr Ser Gly Thr Phe Pro
 290 295 300
 Thr Ser Ala Val Ala Gln Gly Ser Gln Leu Val Ile His Ala Val Asp
 305 310 315 320
 Ser Leu Phe Asn Thr Thr Phe Val Cys Thr Val Thr Asn Ala Val Gly
 325 330 335
 Met Gly Arg Ala Glu Gln Val Ile Phe Val Arg Glu Thr Pro Arg Ala
 340 345 350
 Ser Pro Arg Asp Val Gly Pro Leu Val Trp Gly Ala Val Gly Gly Thr
 355 360 365
 Leu Leu Val Leu Leu Leu Leu Ala Gly Gly Ser Leu Ala Phe Ile Leu
 370 375 380
 Leu Arg Val Arg Arg Arg Arg Lys Ser Pro Gly Gly Ala Gly Gly Gly
 385 390 395 400
 Ala Ser Gly Asp Gly Gly Phe Tyr Asp Pro Lys Ala Gln Val Leu Gly
 405 410 415
 Asn Gly Asp Pro Val Phe Trp Thr Pro Val Val Pro Gly Pro Met Glu
 420 425 430

Pro Asp Gly Lys Asp Glu Glu Glu Glu Glu Glu Glu Lys Ala Glu
 435 440 445

Lys Gly Leu Met Leu Pro Pro Pro Pro Ala Leu Glu Asp Asp Met Glu
 450 455 460

Ser Gln Leu Asp Gly Ser Leu Ile Ser Arg Arg Ala Val Tyr Val
 465 470 475

<210> 13
 <211> 518
 <212> PRT
 <213> Homo sapiens

<400> 13
 Met Ala Arg Ala Ala Ala Leu Leu Pro Ser Arg Ser Pro Pro Thr Pro
 1 5 10 15

Leu Leu Trp Pro Leu Leu Leu Leu Leu Leu Leu Glu Thr Gly Ala Gln
 20 25 30

Asp Val Arg Val Gln Val Leu Pro Glu Val Arg Gly Gln Leu Gly Gly
 35 40 45

Thr Val Glu Leu Pro Cys His Leu Leu Pro Pro Val Pro Gly Leu Tyr
 50 55 60

Ile Ser Leu Val Thr Trp Gln Arg Pro Asp Ala Pro Ala Asn His Gln
 65 70 75 80

Asn Val Ala Ala Phe His Pro Lys Met Gly Pro Ser Phe Pro Ser Pro
 85 90 95

Lys Pro Gly Ser Glu Arg Leu Ser Phe Val Ser Ala Lys Gln Ser Thr
 100 105 110

Gly Gln Asp Thr Glu Ala Glu Leu Gln Asp Ala Thr Leu Ala Leu His
 115 120 125

Gly Leu Thr Val Glu Asp Glu Gly Asn Tyr Thr Cys Glu Phe Ala Thr
 130 135 140

Phe Pro Lys Gly Ser Val Arg Gly Met Thr Trp Leu Arg Val Ile Ala
 145 150 155 160

Lys Pro Lys Asn Gln Ala Glu Ala Gln Lys Val Thr Phe Ser Gln Asp
 165 170 175

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

Arg Ile Ser Trp Leu Ser Ser Leu Asp Trp Glu Ala Lys Glu Thr Gln
 195 200 205

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Val Ser Gly Thr Leu Ala Gly Thr Val Thr Val Thr Ser Arg Phe Thr
 210 215 220
 Leu Val Pro Ser Gly Arg Ala Asp Gly Val Thr Val Thr Cys Lys Val
 225 230 235 240
 Glu His Glu Ser Phe Glu Glu Pro Ala Leu Ile Pro Val Thr Leu Ser
 245 250 255
 Val Arg Tyr Pro Pro Glu Val Ser Ile Ser Gly Tyr Asp Asp Asn Trp
 260 265 270
 Tyr Leu Gly Arg Thr Asp Ala Thr Leu Ser Cys Asp Val Arg Ser Asn
 275 280 285
 Pro Glu Pro Thr Gly Tyr Asp Trp Ser Thr Thr Ser Gly Thr Phe Pro
 290 295 300
 Thr Ser Ala Val Ala Gln Gly Ser Gln Leu Val Ile His Ala Val Asp
 305 310 315 320
 Ser Leu Phe Asn Thr Thr Phe Val Cys Thr Val Thr Asn Ala Val Gly
 325 330 335
 Met Gly Arg Ala Glu Gln Val Ile Phe Val Arg Glu Thr Pro Asn Thr
 340 345 350
 Ala Gly Ala Gly Ala Thr Gly Gly Ile Ile Gly Gly Ile Ile Ala Ala
 355 360 365
 Ile Ile Ala Thr Ala Val Ala Ala Thr Gly Ile Leu Ile Cys Arg Gln
 370 375 380
 Gln Arg Lys Glu Gln Thr Leu Gln Gly Ala Glu Glu Asp Glu Asp Leu
 385 390 395 400
 Glu Gly Pro Pro Ser Tyr Lys Pro Pro Thr Pro Lys Ala Lys Leu Glu
 405 410 415
 Ala Gln Glu Met Pro Ser Gln Leu Phe Thr Leu Gly Ala Ser Glu His
 420 425 430
 Ser Pro Leu Lys Thr Pro Tyr Phe Asp Ala Gly Ala Ser Cys Thr Glu
 435 440 445
 Gln Glu Met Pro Arg Tyr His Glu Leu Pro Thr Leu Glu Glu Arg Ser
 450 455 460
 Gly Pro Leu His Pro Gly Ala Thr Ser Leu Gly Ser Pro Ile Pro Val
 465 470 475 480

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Pro Pro Gly Pro Pro Ala Val Glu Asp Val Ser Leu Asp Leu Glu Asp
485 490 495

Glu Glu Gly Glu Glu Glu Glu Tyr Leu Asp Lys Ile Asn Pro Ile
500 505 510

Tyr Asp Ala Leu Ser Tyr
515

<210> 14
<211> 8
<212> PRT
<213> Artificial Sequence

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

<400> 14
Gly Gly Thr Phe Ser Ser Tyr Ala
1 5

<210> 15
<211> 8
<212> PRT
<213> Artificial Sequence

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

<400> 15
Ile Ile Pro Ile Phe Gly Thr Ala
1 5

<210> 16
<211> 13
<212> PRT
<213> Artificial Sequence

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

<400> 16
Ala Arg Glu Glu Val Ser Ser Pro Tyr Gly Met Asp Val
1 5 10

<210> 17
<211> 9
<212> PRT
<213> Artificial Sequence

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

<400> 17
Thr Gly Ala Val Thr Ser Gly His Tyr
1 5

<210> 18
 <211> 3
 <212> PRT
 <213> Artificial Sequence

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

<400> 18
 Asp Thr Gly
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<210> 19
 <211> 10
 <212> PRT
 <213> Artificial Sequence

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

<400> 19
 Leu Leu Ser Tyr Ser Gly Ala Ser Trp Val
 1 5 10

<210> 20
 <211> 8
 <212> PRT
 <213> Artificial Sequence

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

<400> 20
 Gly Phe Ser Leu Ser His Phe Ser
 1 5

<210> 21
 <211> 8
 <212> PRT
 <213> Artificial Sequence

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

<400> 21
 Phe Asp Pro Glu Glu Gly Gly Thr
 1 5

<210> 22
 <211> 14
 <212> PRT
 <213> Artificial Sequence

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

<400> 22

Ala Thr Gly Ile Trp Tyr Ser Ser Gly Trp Pro Val Asp Tyr
 1 5 10

<210> 23
 <211> 11
 <212> PRT
 <213> Artificial Sequence

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

<400> 23
 Gln Ser Leu Leu Asp Ser Ser Gly Tyr Asn Tyr
 1 5 10

<210> 24
 <211> 3
 <212> PRT
 <213> Artificial Sequence

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

<400> 24
 Leu Gly Ser
 1

<210> 25
 <211> 9
 <212> PRT
 <213> Artificial Sequence

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

<400> 25
 Met Gln Ala Leu Gln Thr Pro Ile Thr
 1 5

<210> 26
 <211> 8
 <212> PRT
 <213> Artificial Sequence

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

<400> 26
 Gly Tyr Thr Leu Thr Glu Leu Ser
 1 5

<210> 27
 <211> 8
 <212> PRT
 <213> Artificial Sequence

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

<400> 27

Phe Asp Pro Glu Asp Gly Glu Thr
1 5

<210> 28

<211> 18

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 28

Ala Thr Val Ser Arg Val Arg Gly Val Ile Asn Tyr Tyr Tyr Tyr Met
1 5 10 15

Asp Val

<210> 29

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 29

Gln Ser Leu Leu Tyr Arg Asn Gly Asn Asn Tyr
1 5 10

<210> 30

<211> 3

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 30

Leu Gly Ser
1

<210> 31

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 31

Met Gln Ala Leu Gln Thr Pro Pro Thr
1 5

<210> 32

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 32

Gly Gly Thr Phe Gly Thr Tyr Ala
1 5

<210> 33

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 33

Ile Thr Pro Ile Ser Ala Thr Ile
1 5

<210> 34

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 34

Ala Arg Gly Phe Glu Tyr Ser Asp Gly Leu Leu Asp Asp
1 5 10

<210> 35

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 35

Gln Ser Leu Phe Tyr Ser Asp Asp Gly Asn Thr Tyr
1 5 10

<210> 36

<211> 3

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 36

Arg Leu Ser
1

<210> 37

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 37

Met Gln His Met Glu Phe Pro Leu Thr
1 5

<210> 38

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 38

Ser Gly Ser Ile Ser Ser Thr Asn Trp
1 5

<210> 39

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 39

Ile Tyr His Ser Gly Ser Thr
1 5

<210> 40

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 40

Ala Arg Val Gly Pro Ala Ala Ile Tyr Tyr
1 5 10

<210> 41

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 41

Ser Asn Asn Val Gly Tyr Glu Gly
1 5

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

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

<400> 42
 Arg Asn Asn
 1

<210> 43
 <211> 11
 <212> PRT
 <213> Artificial Sequence

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

<400> 43
 Ser Ala Trp Asp Ser Ser Leu Asn Ala Val Val
 1 5 10

<210> 44
 <211> 8
 <212> PRT
 <213> Artificial Sequence

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

<400> 44
 Gly Tyr Thr Leu Thr Glu Leu Ser
 1 5

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

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

<400> 45
 Phe Asp Pro Glu Asp Gly Glu Thr
 1 5

<210> 46
 <211> 21
 <212> PRT
 <213> Artificial Sequence

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

<400> 46

Ala Thr Ala Lys Pro Gly Ile Ala Val Ala Gly Gln Asn Tyr Tyr Tyr
 1 5 10 15

Tyr Tyr Met Asp Val
 20

<210> 47
 <211> 11
 <212> PRT
 <213> Artificial Sequence

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

<400> 47
 Gln Ser Leu Leu Tyr Arg Asn Gly Asn Asn Tyr
 1 5 10

<210> 48
 <211> 3
 <212> PRT
 <213> Artificial Sequence

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

<400> 48
 Leu Gly Ser
 1

<210> 49
 <211> 9
 <212> PRT
 <213> Artificial Sequence

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

<400> 49
 Met Gln Ala Leu Gln Thr Pro Pro Thr
 1 5

<210> 50
 <211> 8
 <212> PRT
 <213> Artificial Sequence

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

<400> 50
 Gly Phe Thr Phe Ser Ser Tyr Ala
 1 5

<210> 51
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 51

Ile Ser Tyr Asp Gly Ser Asn Lys
1 5

<210> 52

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 52

Ala Ser Ser Pro Ile Gly Tyr Ser Tyr Gly Tyr Trp Gly Gly Met Asp
1 5 10 15

val

<210> 53

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 53

Ser Gly Ile Asp val Arg Thr Asn Lys
1 5

<210> 54

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 54

Phe Gln Ser Asp Ser Asp Lys
1 5

<210> 55

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 55

Leu Ile Trp His Thr Ser Gly Trp val
1 5

<210> 56
 <211> 8
 <212> PRT
 <213> Artificial Sequence

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

<400> 56
 Gly Tyr Thr Leu Thr Glu Leu Ser
 1 5

<210> 57
 <211> 8
 <212> PRT
 <213> Artificial Sequence

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

<400> 57
 Phe Asp Pro Glu Asp Gly Glu Thr
 1 5

<210> 58
 <211> 17
 <212> PRT
 <213> Artificial Sequence

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

<400> 58
 Ala Thr Gly Pro Ala Ala Ala Gly Val Gly Tyr Tyr Tyr Tyr Met Asp
 1 5 10 15

val

<210> 59
 <211> 11
 <212> PRT
 <213> Artificial Sequence

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

<400> 59
 Gln Ser Leu Leu Tyr Arg Asn Gly Tyr Asn Tyr
 1 5 10

<210> 60
 <211> 3
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 60
Leu Gly Ser
1

<210> 61
<211> 9
<212> PRT
<213> Artificial Sequence

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

<400> 61
Met Gln Ala Leu Gln Thr Pro Pro Thr
1 5

<210> 62
<211> 8
<212> PRT
<213> Artificial Sequence

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

<400> 62
Gly Phe Thr Phe Ser Ser Tyr Ala
1 5

<210> 63
<211> 8
<212> PRT
<213> Artificial Sequence

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

<400> 63
Ile Ser Tyr Asp Gly Ser Asn Lys
1 5

<210> 64
<211> 20
<212> PRT
<213> Artificial Sequence

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

<400> 64
Ala Arg Asp Val Met Val Tyr Cys Ser Ser Thr Ser Cys Tyr Phe Tyr
1 5 10 15

Gly Met Asp Val
20

<210> 65
 <211> 6
 <212> PRT
 <213> Artificial Sequence

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

<400> 65
 Gln Asp Ile Arg Asp Tyr
 1 5

<210> 66
 <211> 3
 <212> PRT
 <213> Artificial Sequence

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

<400> 66
 Asp Ala Ser
 1

<210> 67
 <211> 9
 <212> PRT
 <213> Artificial Sequence

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

<400> 67
 Gln Gln Phe Glu Asn Leu Pro Ile Thr
 1 5

<210> 68
 <211> 8
 <212> PRT
 <213> Artificial Sequence

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

<400> 68
 Gly Tyr Thr Leu Thr Glu Leu Ser
 1 5

<210> 69
 <211> 8
 <212> PRT
 <213> Artificial Sequence

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

<400> 69
 Phe Asp Pro Glu Asp Gly Glu Thr
 1 5

<210> 70
 <211> 18
 <212> PRT
 <213> Artificial Sequence

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

<400> 70
 Ala Thr Gly Gly Tyr Ser Ser Gly Phe Asn Tyr Tyr Tyr Tyr Tyr Met
 1 5 10 15

Asp Val

<210> 71
 <211> 11
 <212> PRT
 <213> Artificial Sequence

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

<400> 71
 Gln Ser Leu Leu Tyr Arg Asn Gly Asn Asn Tyr
 1 5 10

<210> 72
 <211> 3
 <212> PRT
 <213> Artificial Sequence

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

<400> 72
 Leu Gly Ser
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<210> 73
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<220>
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<400> 73
 Met Gln Ala Leu Gln Thr Pro Pro Thr
 1 5

<210> 74
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 74

Gly Tyr Thr Leu Thr Glu Leu Ser
1 5

<210> 75

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 75

Phe Asp Pro Glu Asp Gly Glu Thr
1 5

<210> 76

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 76

Ala Thr Gly Val Thr Thr Tyr Tyr Tyr Tyr Gly Met Asp Val
1 5 10

<210> 77

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 77

Gln Ser Leu Leu Tyr Ser Asn Gly Asn Asn Phe
1 5 10

<210> 78

<211> 3

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 78

Leu Gly Ser
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<210> 79

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 79

Met Gln Ala Leu Gln Thr Pro Pro Thr
1 5

<210> 80

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 80

Gly Phe Thr Phe Ser Ser Tyr Gly
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<210> 81

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 81

Ile Arg Tyr Asp Gly Ser Asn Lys
1 5

<210> 82

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 82

Ala Arg Asp Leu Phe Asp Phe Trp Trp Asp Gly Met Asp Val
1 5 10

<210> 83

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 83

Gln Ser Val Ser Ser Met Tyr
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<210> 84

<211> 3

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<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 84

Gly Ala Ser

1

<210> 85

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 85

Gln Gln Tyr Val Ser Ser Pro Met Tyr Thr

1

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10

<210> 86

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 86

Gly Gly Thr Phe Asn Asn Tyr Gly

1

5

<210> 87

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 87

Ile Ile Pro Leu Phe Gly Thr Thr

1

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<210> 88

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 88

Ala Arg Asp Arg Met Ala Ala Asp Gly Met Ala Val Phe Asp Tyr

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<210> 89

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 89

Ser Ser Asn Ile Gly Arg His Phe
1 5

<210> 90

<211> 3

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 90

Lys Asn Asp
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<210> 91

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 91

Ser Ser Trp Asp Ala Ala Leu Asn Gly Val Val
1 5 10

<210> 92

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 92

Gly Tyr Thr Leu Thr Glu Leu Ser
1 5

<210> 93

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 93

Phe Asp Pro Glu Asp Gly Glu Thr
1 5

<210> 94
 <211> 19
 <212> PRT
 <213> Artificial Sequence

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

<400> 94
 Ala Thr Glu Val Pro Met Val Arg Gly Ala Arg Arg Tyr Tyr Tyr Tyr
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Met Asp Val

<210> 95
 <211> 11
 <212> PRT
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<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 95
 Gln Thr Leu Leu Tyr Ile Asn Glu Asn Asn Tyr
 1 5 10

<210> 96
 <211> 3
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<220>
 <223> Description of Artificial Sequence: Synthetic peptide

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 Leu Gly Ser
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<210> 97
 <211> 9
 <212> PRT
 <213> Artificial Sequence

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

<400> 97
 Met Gln Gly Leu Gln Thr Pro Pro Thr
 1 5

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

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 98

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

<210> 99

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 99

Ile Tyr Tyr Ser Gly Ser Thr
1 5

<210> 100

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 100

Ala Arg Gly Ala Trp Glu Leu Ser Leu Gly Asp Trp Phe Asp Pro
1 5 10 15

<210> 101

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 101

Ser Ser Asn Ile Gly Ala Gly Tyr Asp
1 5

<210> 102

<211> 3

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 102

Gly Asn Asn
1

<210> 103

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 103

Gln Ser Tyr Asp Ser Ser Leu Ser Val Tyr Val Val
1 5 10

<210> 104

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 104

Gly Phe Thr Phe Gly Thr Ser Ser
1 5

<210> 105

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 105

Ile Ser Phe Asp Gly Thr Glu Ile
1 5

<210> 106

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 106

Ala Lys Gly Ser Gly Asn Ile Tyr Phe Tyr Ser Gly Met Asp Val
1 5 10 15

<210> 107

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

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Gln Ser Ile Ser Gly Trp
1 5

<210> 108

<211> 3

<212> PRT
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<220>
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 Glu Thr Ser
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<210> 109
 <211> 9
 <212> PRT
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<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 109
 Gln Gln Tyr Tyr Ser Tyr Pro Leu Thr
 1 5

<210> 110
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 110
 Gly Tyr Thr Leu Thr Glu Leu Ser
 1 5

<210> 111
 <211> 8
 <212> PRT
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<220>
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<400> 111
 Phe Asp Pro Glu Asp Gly Glu Thr
 1 5

<210> 112
 <211> 19
 <212> PRT
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<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 112
 Ala Thr Gly Val Pro Ala Ala Ile Gly Val Tyr Tyr Tyr Tyr Tyr Tyr
 1 5 10 15

Met Asp Val

<210> 113
 <211> 11
 <212> PRT
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<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 113
 Gln Ser Leu Leu Tyr Ser Asn Gly Tyr Asn Tyr
 1 5 10

<210> 114
 <211> 3
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<220>
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<400> 114
 Leu Gly Ser
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<210> 115
 <211> 9
 <212> PRT
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<220>
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<400> 115
 Met Gln Ala Leu Gln Ser Pro Val Thr
 1 5

<210> 116
 <211> 8
 <212> PRT
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<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 116
 Gly Tyr Thr Leu Thr Glu Leu Ser
 1 5

<210> 117
 <211> 8
 <212> PRT
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 <223> Description of Artificial Sequence: Synthetic peptide

<400> 117
Phe Asp Pro Glu Asp Gly Glu Thr
1 5

<210> 118
<211> 20
<212> PRT
<213> Artificial Sequence

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

<400> 118
Ala Thr Asp Ser Arg Asp Gly Pro Ala Ala Arg Gly Gly Tyr Tyr Tyr
1 5 10 15

Tyr Met Asp Val
20

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

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

<400> 119
Gln Ser Leu Leu Tyr Ile Asn Gly Tyr Asn Tyr
1 5 10

<210> 120
<211> 3
<212> PRT
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<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 120
Leu Gly Ser
1

<210> 121
<211> 9
<212> PRT
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<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 121
Met Gln Ala Leu Gln Thr Pro Pro Thr
1 5

<210> 122
<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 122

Gly Gly Thr Phe Ser Ser Tyr Ala
1 5

<210> 123

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 123

Ile Ile Pro Ile Phe Gly Thr Ala
1 5

<210> 124

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 124

Ala Arg Asp Ala Tyr Tyr Tyr Asp Ser Ser Gly Tyr Tyr Asn Pro Asp
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<210> 125

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 125

Gln Ser Leu Leu His Ser Asn Gly Tyr Asn Tyr
1 5 10

<210> 126

<211> 3

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 126

Leu Gly Ser
1

<210> 127
<211> 9
<212> PRT
<213> Artificial Sequence

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

<400> 127
Met Gln Gly Leu Gln Thr Pro Arg Thr
1 5

<210> 128
<211> 8
<212> PRT
<213> Artificial Sequence

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

<400> 128
Gly Gly Thr Phe Ser Ser Ser Ala
1 5

<210> 129
<211> 8
<212> PRT
<213> Artificial Sequence

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

<400> 129
Ile Ile Pro Ile Tyr Gly Ile Thr
1 5

<210> 130
<211> 22
<212> PRT
<213> Artificial Sequence

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

<400> 130
Ala Arg Asp Asp Thr Ala Arg Arg Val Arg Gly Val Pro Tyr Tyr Tyr
1 5 10 15

Tyr Tyr Ala Met Asp Val
20

<210> 131
<211> 6
<212> PRT
<213> Artificial Sequence

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

<400> 131
Gln Asp Ile Asp Asp Asp
1 5

<210> 132
<211> 3
<212> PRT
<213> Artificial Sequence

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

<400> 132
Glu Ala Ser
1

<210> 133
<211> 9
<212> PRT
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<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 133
Leu Gln His Asp Asn Leu Pro Leu Thr
1 5

<210> 134
<211> 8
<212> PRT
<213> Artificial Sequence

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

<400> 134
Gly Tyr Thr Leu Thr Glu Leu Ser
1 5

<210> 135
<211> 8
<212> PRT
<213> Artificial Sequence

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

<400> 135
Phe Asp Pro Glu Asp Gly Glu Thr
1 5

<210> 136
<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 136

Ala Thr Glu Asp Pro Gly Pro Val Ala Gly Pro Tyr Tyr Tyr Tyr Gly
1 5 10 15

Met Asp Val

<210> 137

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 137

Gln Ser Leu Leu Tyr Ile Asn Gly Tyr His Tyr
1 5 10

<210> 138

<211> 3

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 138

Leu Gly Ser
1

<210> 139

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 139

Met Gln Ala Leu Gln Thr Pro Pro Thr
1 5

<210> 140

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 140

Gly Gly Thr Phe Ser Ser Ser Ala
1 5

<210> 141
<211> 8
<212> PRT
<213> Artificial Sequence

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

<400> 141
Ile Ile Pro Ile Tyr Gly Ile Thr
1 5

<210> 142
<211> 22
<212> PRT
<213> Artificial Sequence

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

<400> 142
Ala Arg Asp Asp Thr Ala Arg Arg Val Arg Gly Val Pro Tyr Tyr Tyr
1 5 10 15

Tyr Tyr Ala Met Asp Val
20

<210> 143
<211> 12
<212> PRT
<213> Artificial Sequence

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

<400> 143
Gln Ser Leu Leu Asp Ser Asp Asp Gly Asn Thr Tyr
1 5 10

<210> 144
<211> 3
<212> PRT
<213> Artificial Sequence

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

<400> 144
Thr Leu Ser
1

<210> 145
<211> 9
<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 145

Met Gln Arg Leu Gln Phe Pro Leu Thr
1 5

<210> 146

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 146

Gly Tyr Thr Leu Thr Glu Leu Ser
1 5

<210> 147

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 147

Phe Asp Pro Glu Asp Gly Glu Thr
1 5

<210> 148

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 148

Ala Thr Gly Val Pro Ala Ala Ile Gly Val Tyr Tyr Tyr Tyr Tyr Tyr
1 5 10 15

Met Asp Val

<210> 149

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 149

Gln Ser Leu Leu Tyr Arg Asn Gly Tyr Asn Tyr
1 5 10

<210> 150
 <211> 3
 <212> PRT
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<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 150
 Trp Gly Ser
 1

<210> 151
 <211> 9
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<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 151
 Met Gln Ala Val Gln Asn Pro Pro Thr
 1 5

<210> 152
 <211> 8
 <212> PRT
 <213> Artificial Sequence

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

<400> 152
 Gly Gly Thr Phe Ser Ser Ser Ala
 1 5

<210> 153
 <211> 8
 <212> PRT
 <213> Artificial Sequence

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

<400> 153
 Ile Ile Pro Ile Tyr Gly Ile Thr
 1 5

<210> 154
 <211> 22
 <212> PRT
 <213> Artificial Sequence

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

<400> 154

Ala Arg Asp Asp Thr Ala Arg Arg Val Arg Gly Val Pro Tyr Tyr Tyr
 1 5 10 15

Tyr Tyr Ala Met Asp Val
 20

<210> 155
 <211> 6
 <212> PRT
 <213> Artificial Sequence

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

<400> 155
 Gln Thr Met Asn Asn Tyr
 1 5

<210> 156
 <211> 3
 <212> PRT
 <213> Artificial Sequence

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

<400> 156
 Asp Ala Ser
 1

<210> 157
 <211> 10
 <212> PRT
 <213> Artificial Sequence

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

<400> 157
 Gln Gln Tyr Gly Asp Trp Leu Pro Ile Thr
 1 5 10

<210> 158
 <211> 8
 <212> PRT
 <213> Artificial Sequence

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

<400> 158
 Gly Tyr Thr Leu Thr Glu Leu Ser
 1 5

<210> 159
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 159

Phe Asp Pro Glu Asp Gly Glu Thr
1 5

<210> 160

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 160

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

Val

<210> 161

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 161

Gln Ser Leu Leu Tyr Arg Asn Gly Tyr Asn Tyr
1 5 10

<210> 162

<211> 3

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 162

Trp Gly Ser
1

<210> 163

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 163

Met Gln Ala Val Gln Asn Pro Pro Thr
1 5

<210> 164
 <211> 8
 <212> PRT
 <213> Artificial Sequence

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

<400> 164
 Gly Gly Thr Phe Ser Ser Ser Ala
 1 5

<210> 165
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 165
 Ile Ile Pro Ile Tyr Gly Ile Thr
 1 5

<210> 166
 <211> 22
 <212> PRT
 <213> Artificial Sequence

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

<400> 166
 Ala Arg Asp Asp Thr Ala Arg Arg Val Arg Gly Val Pro Tyr Tyr Tyr
 1 5 10 15

Tyr Tyr Ala Met Asp Val
 20

<210> 167
 <211> 12
 <212> PRT
 <213> Artificial Sequence

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

<400> 167
 Arg Ser Leu Leu Asp Ser Asp Asp Gly Asn Thr His
 1 5 10

<210> 168
 <211> 3
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 168
Ser Leu Ser
1

<210> 169
<211> 9
<212> PRT
<213> Artificial Sequence

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

<400> 169
Met Gln Arg Lys Glu Phe Pro Leu Thr
1 5

<210> 170
<211> 8
<212> PRT
<213> Artificial Sequence

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

<400> 170
Gly Gly Thr Phe Ser Ser Tyr Ala
1 5

<210> 171
<211> 8
<212> PRT
<213> Artificial Sequence

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

<400> 171
Ile Ile Pro Ile Phe Gly Thr Ala
1 5

<210> 172
<211> 21
<212> PRT
<213> Artificial Sequence

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

<400> 172
Ala Arg Gly Pro Trp Tyr Tyr Asp Ser Ser Gly Tyr Ser Ser Tyr Ala
1 5 10 15

Tyr Tyr Met Asp Val
20

<210> 173

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 173

Gln Ser Leu Leu His Ser Asp Gly Tyr Asn Tyr
1 5 10

<210> 174

<211> 3

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 174

Leu Gly Ser
1

<210> 175

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 175

Met Gln Ala Leu His Thr Pro Gly Val Thr
1 5 10

<210> 176

<211> 120

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 176

Gln Met Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser
1 5 10 15Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Ser Ser Tyr
20 25 30Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
35 40 45Gly Gly Ile Ile Pro Ile Phe Gly Thr Ala Asn Tyr Ala Gln Lys Phe
50 55 60

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

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

Ala Arg Glu Glu Val Ser Ser Pro Tyr Gly Met Asp Val Trp Gly Gln
100 105 110

Gly Thr Thr Val Thr Val Ser Ser
115 120

<210> 177
<211> 8
<212> PRT
<213> Artificial Sequence

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

<400> 177
Gly Gly Thr Phe Ser Ser Tyr Ala
1 5

<210> 178
<211> 8
<212> PRT
<213> Artificial Sequence

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

<400> 178
Ile Ile Pro Ile Phe Gly Thr Ala
1 5

<210> 179
<211> 13
<212> PRT
<213> Artificial Sequence

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

<400> 179
Ala Arg Glu Glu Val Ser Ser Pro Tyr Gly Met Asp Val
1 5 10

<210> 180
<211> 450
<212> PRT
<213> Artificial Sequence

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

<400> 180

Gln Met Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser
 1 5 10 15
 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Ser Ser Tyr
 20 25 30
 Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
 35 40 45
 Gly Gly Ile Ile Pro Ile Phe Gly Thr Ala Asn Tyr Ala Gln Lys Phe
 50 55 60
 Gln Gly Arg Val Thr Ile Thr Ala Asp Glu Ser Thr Ser Thr Ala Tyr
 65 70 75 80
 Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Arg Glu Glu Val Ser Ser Pro Tyr Gly Met Asp Val Trp Gly Gln
 100 105 110
 Gly Thr Thr Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val
 115 120 125
 Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala Ala
 130 135 140
 Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser
 145 150 155 160
 Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala Val
 165 170 175
 Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro
 180 185 190
 Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His Lys
 195 200 205
 Pro Ser Asn Thr Lys Val Asp Lys Lys Val Glu Pro Lys Ser Cys Asp
 210 215 220
 Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly
 225 230 235 240
 Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile
 245 250 255
 Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His Glu
 260 265 270

Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His
275 280 285

Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg
290 295 300

Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys
305 310 315 320

Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu
325 330 335

Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr
340 345 350

Thr Leu Pro Pro Ser Arg Glu Glu Met Thr Lys Asn Gln Val Ser Leu
355 360 365

Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp
370 375 380

Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val
385 390 395 400

Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp
405 410 415

Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His
420 425 430

Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro
435 440 445

Gly Lys
450

<210> 181

<211> 111

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 181

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

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

His Tyr Pro Tyr Trp Phe Gln Gln Lys Pro Gly Gln Ala Pro Lys Thr
35 40 45

Leu Ile Tyr Asp Thr Gly Asn Lys His Ser Trp Thr Pro Ala Arg Phe
50 55 60

Ser Gly Ser Leu Leu Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly Ala
65 70 75 80

Gln Pro Glu Asp Glu Ala Asp Tyr Tyr Cys Leu Leu Ser Tyr Ser Gly
85 90 95

Ala Ser Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly
100 105 110

<210> 182

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 182

Thr Gly Ala Val Thr Ser Gly His Tyr
1 5

<210> 183

<211> 3

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 183

Asp Thr Gly
1

<210> 184

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 184

Leu Leu Ser Tyr Ser Gly Ala Ser Trp Val
1 5 10

<210> 185

<211> 216

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

114386-5002-US_SL_original

<400> 185

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

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

His Tyr Pro Tyr Trp Phe Gln Gln Lys Pro Gly Gln Ala Pro Lys Thr
35 40 45

Leu Ile Tyr Asp Thr Gly Asn Lys His Ser Trp Thr Pro Ala Arg Phe
50 55 60

Ser Gly Ser Leu Leu Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly Ala
65 70 75 80

Gln Pro Glu Asp Glu Ala Asp Tyr Tyr Cys Leu Leu Ser Tyr Ser Gly
85 90 95

Ala Ser Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gln
100 105 110

Pro Lys Ala Ala Pro Ser Val Thr Leu Phe Pro Pro Ser Ser Glu Glu
115 120 125

Leu Gln Ala Asn Lys Ala Thr Leu Val Cys Leu Ile Ser Asp Phe Tyr
130 135 140

Pro Gly Ala Val Thr Val Ala Trp Lys Ala Asp Ser Ser Pro Val Lys
145 150 155 160

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

Ala Ala Ser Ser Tyr Leu Ser Leu Thr Pro Glu Gln Trp Lys Ser His
180 185 190

Arg Ser Tyr Ser Cys Gln Val Thr His Glu Gly Ser Thr Val Glu Lys
195 200 205

Thr Val Ala Pro Thr Glu Cys Ser
210 215

<210> 186

<211> 121

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 186

114386-5002-US_SL_original

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

Ser Val Lys Val Ser Cys Lys Val Ser Gly Phe Ser Leu Ser His Phe
20 25 30

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

Gly Gly Phe Asp Pro Glu Glu Gly Gly Thr Ile Pro Ala Gln Lys Phe
50 55 60

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

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

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

Pro Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 187
<211> 8
<212> PRT
<213> Artificial Sequence

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

<400> 187
Gly Phe Ser Leu Ser His Phe Ser
1 5

<210> 188
<211> 8
<212> PRT
<213> Artificial Sequence

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

<400> 188
Phe Asp Pro Glu Glu Gly Gly Thr
1 5

<210> 189
<211> 14
<212> PRT
<213> Artificial Sequence

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

114386-5002-US_SL_original

<400> 189

Ala Thr Gly Ile Trp Tyr Ser Ser Gly Trp Pro Val Asp Tyr
1 5 10

<210> 190

<211> 458

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 190

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

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

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

Gly Gly Ile Ile Pro Ile Phe Gly Thr Ala Asn Tyr Ala Gln Lys Phe
50 55 60

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

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

Ala Arg Gly Pro Trp Tyr Tyr Asp Ser Ser Gly Tyr Ser Ser Tyr Ala
100 105 110

Tyr Tyr Met Asp Val Trp Gly Gln Gly Thr Thr Val Thr Val Ser Ser
115 120 125

Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser Lys
130 135 140

Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr
145 150 155 160

Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser
165 170 175

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

Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr
195 200 205

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

Lys Val Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys
 225 230 235 240

Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro
 245 250 255

Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys
 260 265 270

Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp
 275 280 285

Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu
 290 295 300

Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu
 305 310 315 320

His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn
 325 330 335

Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly
 340 345 350

Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu
 355 360 365

Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr
 370 375 380

Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn
 385 390 395 400

Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe
 405 410 415

Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn
 420 425 430

Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr
 435 440 445

Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
 450 455

<210> 191

<211> 113

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 191

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

Gly Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu Asp Ser
20 25 30

Ser Gly Tyr Asn Tyr Val Asp Trp Tyr Leu Gln Lys Pro Gly Gln Ser
35 40 45

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

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

Ser Arg Val Glu Ala Glu Asp Val Gly Ile Tyr Tyr Cys Met Gln Ala
85 90 95

Leu Gln Thr Pro Ile Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys
100 105 110

Arg

<210> 192

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 192

Gln Ser Leu Leu Asp Ser Ser Gly Tyr Asn Tyr
1 5 10

<210> 193

<211> 3

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 193

Leu Gly Ser
1

<210> 194

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 194

Met Gln Ala Leu Gln Thr Pro Ile Thr
1 5

<210> 195

<211> 219

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 195

Asp Val Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro Gly
1 5 10 15Gly Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu Asp Ser
20 25 30Ser Gly Tyr Asn Tyr Val Asp Trp Tyr Leu Gln Lys Pro Gly Gln Ser
35 40 45Pro Gln Leu Leu Ile Ser Leu Gly Ser Asp Arg Ala Ser Gly Val Pro
50 55 60Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile
65 70 75 80Ser Arg Val Glu Ala Glu Asp Val Gly Ile Tyr Tyr Cys Met Gln Ala
85 90 95Leu Gln Thr Pro Ile Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys
100 105 110Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu
115 120 125Gln Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe
130 135 140Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln
145 150 155 160Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser
165 170 175Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu
180 185 190

Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser
195 200 205

Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
210 215

<210> 196
<211> 125
<212> PRT
<213> Artificial Sequence

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

<400> 196
Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
1 5 10 15

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

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

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

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

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

Ala Thr Val Ser Arg Val Arg Gly Val Ile Asn Tyr Tyr Tyr Tyr Met
100 105 110

Asp Val Trp Gly Lys Gly Thr Thr Val Thr Val Ser Ser
115 120 125

<210> 197
<211> 8
<212> PRT
<213> Artificial Sequence

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

<400> 197
Gly Tyr Thr Leu Thr Glu Leu Ser
1 5

<210> 198
<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 198

Phe Asp Pro Glu Asp Gly Glu Thr
1 5

<210> 199

<211> 18

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 199

Ala Thr Val Ser Arg Val Arg Gly Val Ile Asn Tyr Tyr Tyr Tyr Met
1 5 10 15

Asp Val

<210> 200

<211> 455

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 200

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
1 5 10 15Ser Val Lys Val Ser Cys Lys Val Ser Gly Tyr Thr Leu Thr Glu Leu
20 25 30Ser Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Met
35 40 45Gly Gly Phe Asp Pro Glu Asp Gly Glu Thr Ile Tyr Ala Gln Lys Phe
50 55 60Gln Gly Arg Val Thr Met Thr Glu Asp Thr Ser Thr Asp Thr Ala Tyr
65 70 75 80Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95Ala Thr Val Ser Arg Val Arg Gly Val Ile Asn Tyr Tyr Tyr Tyr Met
100 105 110

Asp Val Trp Gly Lys Gly Thr Thr Val Thr Val Ser Ser Ala Ser Thr
 115 120 125
 Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr Ser
 130 135 140
 Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu
 145 150 155 160
 Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His
 165 170 175
 Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser
 180 185 190
 Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys
 195 200 205
 Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys Lys Val Glu
 210 215 220
 Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro
 225 230 235 240
 Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys
 245 250 255
 Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val
 260 265 270
 Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp
 275 280 285
 Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr
 290 295 300
 Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp
 305 310 315 320
 Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu
 325 330 335
 Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg
 340 345 350
 Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu Met Thr Lys
 355 360 365
 Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp
 370 375 380

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Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys
385 390 395 400

Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser
405 410 415

Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser
420 425 430

Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser
435 440 445

Leu Ser Leu Ser Pro Gly Lys
450 455

<210> 201
<211> 113
<212> PRT
<213> Artificial Sequence

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

<400> 201
Asp Val Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro Gly
1 5 10 15

Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu Tyr Arg
20 25 30

Asn Gly Asn Asn Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln Ser
35 40 45

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

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

Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln Ala
85 90 95

Leu Gln Thr Pro Pro Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
100 105 110

Arg

<210> 202
<211> 11
<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 202

Gln Ser Leu Leu Tyr Arg Asn Gly Asn Asn Tyr
1 5 10

<210> 203

<211> 3

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 203

Leu Gly Ser
1

<210> 204

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 204

Met Gln Ala Leu Gln Thr Pro Pro Thr
1 5

<210> 205

<211> 219

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 205

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

Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu Tyr Arg
20 25 30

Asn Gly Asn Asn Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln Ser
35 40 45

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

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

Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln Ala
85 90 95

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Leu Gln Thr Pro Pro Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
100 105 110

Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu
115 120 125

Gln Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe
130 135 140

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

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

Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu
180 185 190

Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser
195 200 205

Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
210 215

<210> 206

<211> 120

<212> PRT

<213> Artificial sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 206

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

Ser Val Arg Val Ser Cys Lys Pro Ser Gly Gly Thr Phe Gly Thr Tyr
20 25 30

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

Gly Gly Ile Thr Pro Ile Ser Ala Thr Ile Asn Arg Ala Gln Asn Leu
50 55 60

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

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

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Ala Arg Gly Phe Glu Tyr Ser Asp Gly Leu Leu Asp Asp Trp Gly Gln
100 105 110

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 207
<211> 8
<212> PRT
<213> Artificial Sequence

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

<400> 207
Gly Gly Thr Phe Gly Thr Tyr Ala
1 5

<210> 208
<211> 8
<212> PRT
<213> Artificial Sequence

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

<400> 208
Ile Thr Pro Ile Ser Ala Thr Ile
1 5

<210> 209
<211> 13
<212> PRT
<213> Artificial Sequence

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

<400> 209
Ala Arg Gly Phe Glu Tyr Ser Asp Gly Leu Leu Asp Asp
1 5 10

<210> 210
<211> 450
<212> PRT
<213> Artificial Sequence

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

<400> 210
Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Arg Arg Pro Gly Ser
1 5 10 15

Ser Val Arg Val Ser Cys Lys Pro Ser Gly Gly Thr Phe Gly Thr Tyr
20 25 30

Ala Phe Thr Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
 35 40 45
 Gly Gly Ile Thr Pro Ile Ser Ala Thr Ile Asn Arg Ala Gln Asn Leu
 50 55 60
 Gln Asp Arg Leu Thr Ile Thr Ala Asp Glu Ser Thr Thr Thr Val His
 65 70 75 80
 Met Asp Leu Thr Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Arg Gly Phe Glu Tyr Ser Asp Gly Leu Leu Asp Asp Trp Gly Gln
 100 105 110
 Gly Thr Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val
 115 120 125
 Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala Ala
 130 135 140
 Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser
 145 150 155 160
 Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala Val
 165 170 175
 Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro
 180 185 190
 Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His Lys
 195 200 205
 Pro Ser Asn Thr Lys Val Asp Lys Lys Val Glu Pro Lys Ser Cys Asp
 210 215 220
 Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly
 225 230 235 240
 Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile
 245 250 255
 Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His Glu
 260 265 270
 Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His
 275 280 285
 Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg
 290 295 300

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Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys
305 310 315 320

Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu
325 330 335

Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr
340 345 350

Thr Leu Pro Pro Ser Arg Glu Glu Met Thr Lys Asn Gln Val Ser Leu
355 360 365

Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp
370 375 380

Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val
385 390 395 400

Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp
405 410 415

Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His
420 425 430

Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro
435 440 445

Gly Lys
450

<210> 211

<211> 114

<212> PRT

<213> Artificial sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 211

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

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

Asp Asp Gly Asn Thr Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln
35 40 45

Ser Pro Gln Leu Leu Ile Tyr Arg Leu Ser His Arg Ala Ser Gly Val
50 55 60

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

Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln
85 90 95

His Met Glu Phe Pro Leu Thr Phe Gly Gly Gly Thr Lys Val Glu Ile
100 105 110

Lys Arg

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

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

<400> 212
Gln Ser Leu Phe Tyr Ser Asp Asp Gly Asn Thr Tyr
1 5 10

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

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

<400> 213
Arg Leu Ser
1

<210> 214
<211> 9
<212> PRT
<213> Artificial Sequence

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

<400> 214
Met Gln His Met Glu Phe Pro Leu Thr
1 5

<210> 215
<211> 220
<212> PRT
<213> Artificial Sequence

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

<400> 215
Asp Ile Val Met Thr Gln Thr Pro Leu Ser Leu Pro Val Ile Pro Gly
1 5 10 15

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

Asp Asp Gly Asn Thr Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln
35 40 45

Ser Pro Gln Leu Leu Ile Tyr Arg Leu Ser His Arg Ala Ser Gly Val
50 55 60

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

Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln
85 90 95

His Met Glu Phe Pro Leu Thr Phe Gly Gly Gly Thr Lys Val Glu Ile
100 105 110

Lys Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp
115 120 125

Glu Gln Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn
130 135 140

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

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

Ser Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr
180 185 190

Glu Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser
195 200 205

Ser Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
210 215 220

<210> 216

<211> 117

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 216

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

Thr Leu Ser Leu Thr Cys Val Val Ser Ser Gly Ser Ile Ser Ser Thr
 20 25 30

Asn Trp Trp Thr Trp Val Arg Gln Pro Pro Gly Lys Gly Leu Glu Trp
 35 40 45

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

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

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

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

Val Thr Val Ser Ser
 115

<210> 217
 <211> 9
 <212> PRT
 <213> Artificial Sequence

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

<400> 217
 Ser Gly Ser Ile Ser Ser Thr Asn Trp
 1 5

<210> 218
 <211> 7
 <212> PRT
 <213> Artificial Sequence

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

<400> 218
 Ile Tyr His Ser Gly Ser Thr
 1 5

<210> 219
 <211> 10
 <212> PRT
 <213> Artificial Sequence

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

<400> 219
 Ala Arg Val Gly Pro Ala Ala Ile Tyr Tyr
 1 5 10

<210> 220
 <211> 447
 <212> PRT
 <213> Artificial Sequence

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

<400> 220
 Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Gly
 1 5 10 15
 Thr Leu Ser Leu Thr Cys Val Val Ser Ser Gly Ser Ile Ser Ser Thr
 20 25 30
 Asn Trp Trp Thr Trp Val Arg Gln Pro Pro Gly Lys Gly Leu Glu Trp
 35 40 45
 Ile Gly Glu Ile Tyr His Ser Gly Ser Thr Ser Tyr Asn Ser Ser Leu
 50 55 60
 Lys Ser Arg Val Thr Ile Ser Glu Asp Lys Ser Lys Asn Gln Ile Ser
 65 70 75 80
 Leu Arg Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Arg Val Gly Pro Ala Ala Ile Tyr Tyr Trp Gly Gln Gly Thr Leu
 100 105 110
 Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu
 115 120 125
 Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys
 130 135 140
 Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser
 145 150 155 160
 Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala Val Leu Gln Ser
 165 170 175
 Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser
 180 185 190
 Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn
 195 200 205
 Thr Lys Val Asp Lys Lys Val Glu Pro Lys Ser Cys Asp Lys Thr His
 210 215 220

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

Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr
 245 250 255

Pro Glu Val Thr Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu
 260 265 270

Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys
 275 280 285

Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser
 290 295 300

Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys
 305 310 315 320

Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile
 325 330 335

Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro
 340 345 350

Pro Ser Arg Glu Glu Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu
 355 360 365

Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn
 370 375 380

Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser
 385 390 395 400

Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg
 405 410 415

Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu
 420 425 430

His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
 435 440 445

<210> 221

<211> 111

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 221

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

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

Gly Ala Ala Trp Leu Gln Gln His Gln Gly His Ala Pro Lys Leu Leu
35 40 45

Leu Tyr Arg Asn Asn Asn Arg Pro Ser Gly Ile Ser Lys Arg Phe Ser
50 55 60

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

Pro Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ala Trp Asp Ser Ser Leu
85 90 95

Asn Ala Val Val Phe Gly Gly Gly Thr Gln Leu Thr Val Leu Gly
100 105 110

<210> 222
<211> 8
<212> PRT
<213> Artificial Sequence

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

<400> 222
Ser Asn Asn Val Gly Tyr Glu Gly
1 5

<210> 223
<211> 3
<212> PRT
<213> Artificial Sequence

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

<400> 223
Arg Asn Asn
1

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

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

<400> 224
Ser Ala Trp Asp Ser Ser Leu Asn Ala Val Val
1 5 10

<210> 225

<211> 216

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 225

Gln Ala Gly Leu Thr Gln Pro Pro Ser Val Ser Lys Gly Leu Arg Gln
1 5 10 15Thr Ala Thr Leu Thr Cys Thr Gly Asn Ser Asn Asn Val Gly Tyr Glu
20 25 30Gly Ala Ala Trp Leu Gln Gln His Gln Gly His Ala Pro Lys Leu Leu
35 40 45Leu Tyr Arg Asn Asn Asn Arg Pro Ser Gly Ile Ser Lys Arg Phe Ser
50 55 60Ala Ser Arg Ser Gly Asn Thr Ala Ser Leu Thr Ile Thr Gly Leu Gln
65 70 75 80Pro Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ala Trp Asp Ser Ser Leu
85 90 95Asn Ala Val Val Phe Gly Gly Gly Thr Gln Leu Thr Val Leu Gly Gln
100 105 110Pro Lys Ala Ala Pro Ser Val Thr Leu Phe Pro Pro Ser Ser Glu Glu
115 120 125Leu Gln Ala Asn Lys Ala Thr Leu Val Cys Leu Ile Ser Asp Phe Tyr
130 135 140Pro Gly Ala Val Thr Val Ala Trp Lys Ala Asp Ser Ser Pro Val Lys
145 150 155 160Ala Gly Val Glu Thr Thr Thr Pro Ser Lys Gln Ser Asn Asn Lys Tyr
165 170 175Ala Ala Ser Ser Tyr Leu Ser Leu Thr Pro Glu Gln Trp Lys Ser His
180 185 190Arg Ser Tyr Ser Cys Gln Val Thr His Glu Gly Ser Thr Val Glu Lys
195 200 205Thr Val Ala Pro Thr Glu Cys Ser
210 215

<210> 226

<211> 128

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 226

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

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

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

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

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

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

Ala Thr Ala Lys Pro Gly Ile Ala Val Ala Gly Gln Asn Tyr Tyr Tyr
 100 105 110

Tyr Tyr Met Asp Val Trp Gly Lys Gly Thr Thr Val Thr Val Ser Ser
 115 120 125

<210> 227

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 227

Gly Tyr Thr Leu Thr Glu Leu Ser
 1 5

<210> 228

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 228

Phe Asp Pro Glu Asp Gly Glu Thr
 1 5

<210> 229

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 229

Ala Thr Ala Lys Pro Gly Ile Ala Val Ala Gly Gln Asn Tyr Tyr Tyr
1 5 10 15Tyr Tyr Met Asp Val
20

<210> 230

<211> 458

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 230

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
1 5 10 15Ser Val Lys Val Ser Cys Lys Val Ser Gly Tyr Thr Leu Thr Glu Leu
20 25 30Ser Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Met
35 40 45Gly Gly Phe Asp Pro Glu Asp Gly Glu Thr Ile Tyr Ala Gln Lys Phe
50 55 60Gln Gly Arg Val Thr Met Thr Glu Asp Thr Ser Thr Asp Thr Ala Tyr
65 70 75 80Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95Ala Thr Ala Lys Pro Gly Ile Ala Val Ala Gly Gln Asn Tyr Tyr Tyr
100 105 110Tyr Tyr Met Asp Val Trp Gly Lys Gly Thr Thr Val Thr Val Ser Ser
115 120 125Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser Lys
130 135 140Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr
145 150 155 160

Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser
165 170 175

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

Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr
195 200 205

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

Lys Val Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys
225 230 235 240

Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro
245 250 255

Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys
260 265 270

Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp
275 280 285

Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu
290 295 300

Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu
305 310 315 320

His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn
325 330 335

Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly
340 345 350

Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu
355 360 365

Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr
370 375 380

Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn
385 390 395 400

Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe
405 410 415

Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn
420 425 430

Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr
 435 440 445

Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
 450 455

<210> 231
 <211> 113
 <212> PRT
 <213> Artificial Sequence

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

<400> 231
 Asp Val Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro Gly
 1 5 10 15

Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu Tyr Arg
 20 25 30

Asn Gly Asn Asn Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln Ser
 35 40 45

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

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

Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln Ala
 85 90 95

Leu Gln Thr Pro Pro Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
 100 105 110

Arg

<210> 232
 <211> 11
 <212> PRT
 <213> Artificial Sequence

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

<400> 232
 Gln Ser Leu Leu Tyr Arg Asn Gly Asn Asn Tyr
 1 5 10

<210> 233
 <211> 3
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 233

Leu Gly Ser

1

<210> 234

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 234

Met Gln Ala Leu Gln Thr Pro Pro Thr

1

5

<210> 235

<211> 219

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 235

Asp Val Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro Gly

1

5

10

15

Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu Tyr Arg

20

25

30

Asn Gly Asn Asn Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln Ser

35

40

45

Pro Gln Leu Leu Ile Tyr Leu Gly Ser Asn Arg Ala Ser Gly Val Pro

50

55

60

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

65

70

75

80

Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln Ala

85

90

95

Leu Gln Thr Pro Pro Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys

100

105

110

Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu

115

120

125

Gln Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe

130

135

140

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

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

Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu
180 185 190

Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser
195 200 205

Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
210 215

<210> 236

<211> 124

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 236

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

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

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

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

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

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

Ala Ser Ser Pro Ile Gly Tyr Ser Tyr Gly Tyr Trp Gly Gly Met Asp
100 105 110

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

<210> 237

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 237

Gly Phe Thr Phe Ser Ser Tyr Ala
1 5

<210> 238

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 238

Ile Ser Tyr Asp Gly Ser Asn Lys
1 5

<210> 239

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 239

Ala Ser Ser Pro Ile Gly Tyr Ser Tyr Gly Tyr Trp Gly Gly Met Asp
1 5 10 15

val

<210> 240

<211> 454

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 240

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Arg
1 5 10 15Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr
20 25 30Ala Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
35 40 45Ala Val Ile Ser Tyr Asp Gly Ser Asn Lys Tyr Tyr Ala Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Ser Ser Pro Ile Gly Tyr Ser Tyr Gly Tyr Trp Gly Gly Met Asp
 100 105 110
 Val Trp Gly Gln Gly Thr Thr Val Thr Val Ser Ser Ala Ser Thr Lys
 115 120 125
 Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr Ser Gly
 130 135 140
 Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro
 145 150 155 160
 Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr
 165 170 175
 Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val
 180 185 190
 Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn
 195 200 205
 Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys Lys Val Glu Pro
 210 215 220
 Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu
 225 230 235 240
 Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp
 245 250 255
 Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp
 260 265 270
 Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly
 275 280 285
 Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn
 290 295 300
 Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp
 305 310 315 320
 Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro
 325 330 335

Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu
 340 345 350

Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu Met Thr Lys Asn
 355 360 365

Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile
 370 375 380

Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr
 385 390 395 400

Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys
 405 410 415

Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys
 420 425 430

Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu
 435 440 445

Ser Leu Ser Pro Gly Lys
 450

<210> 241

<211> 116

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 241

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

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

Asn Lys Ile Phe Trp Tyr Gln Val Lys Pro Gly Ser Pro Pro Gln His
 35 40 45

Leu Leu Thr Phe Gln Ser Asp Ser Asp Lys Gln Gln Gly Ser Gly Val
 50 55 60

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

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

Leu Ile Trp His Thr Ser Gly Trp Val Phe Gly Gly Gly Thr Gln Leu
 100 105 110

Thr Val Leu Gly
115

<210> 242
<211> 9
<212> PRT
<213> Artificial Sequence

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

<400> 242
Ser Gly Ile Asp Val Arg Thr Asn Lys
1 5

<210> 243
<211> 7
<212> PRT
<213> Artificial Sequence

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

<400> 243
Phe Gln Ser Asp Ser Asp Lys
1 5

<210> 244
<211> 9
<212> PRT
<213> Artificial Sequence

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

<400> 244
Leu Ile Trp His Thr Ser Gly Trp Val
1 5

<210> 245
<211> 221
<212> PRT
<213> Artificial Sequence

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

<400> 245
Gln Ala Val Leu Thr Gln Pro Ala Ser Leu Ser Ala Ser Pro Gly Ala
1 5 10 15

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

Asn Lys Ile Phe Trp Tyr Gln Val Lys Pro Gly Ser Pro Pro Gln His
35 40 45

Leu Leu Thr Phe Gln Ser Asp Ser Asp Lys Gln Gln Gly Ser Gly Val
50 55 60

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

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

Leu Ile Trp His Thr Ser Gly Trp Val Phe Gly Gly Gly Thr Gln Leu
100 105 110

Thr Val Leu Gly Gln Pro Lys Ala Ala Pro Ser Val Thr Leu Phe Pro
115 120 125

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

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

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

Ser Asn Asn Lys Tyr Ala Ala Ser Ser Tyr Leu Ser Leu Thr Pro Glu
180 185 190

Gln Trp Lys Ser His Arg Ser Tyr Ser Cys Gln Val Thr His Glu Gly
195 200 205

Ser Thr Val Glu Lys Thr Val Ala Pro Thr Glu Cys Ser
210 215 220

<210> 246

<211> 124

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 246

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

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

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

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

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

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

Ala Thr Gly Pro Ala Ala Ala Gly Val Gly Tyr Tyr Tyr Tyr Met Asp
100 105 110

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

<210> 247
<211> 8
<212> PRT
<213> Artificial Sequence

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

<400> 247
Gly Tyr Thr Leu Thr Glu Leu Ser
1 5

<210> 248
<211> 8
<212> PRT
<213> Artificial Sequence

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

<400> 248
Phe Asp Pro Glu Asp Gly Glu Thr
1 5

<210> 249
<211> 17
<212> PRT
<213> Artificial Sequence

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

<400> 249
Ala Thr Gly Pro Ala Ala Ala Gly Val Gly Tyr Tyr Tyr Tyr Met Asp
1 5 10 15

Val

<210> 250
<211> 454

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 250

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

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

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

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

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

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

Ala Thr Gly Pro Ala Ala Ala Gly Val Gly Tyr Tyr Tyr Tyr Met Asp
 100 105 110

Val Trp Gly Lys Gly Thr Thr Val Thr Val Ser Ser Ala Ser Thr Lys
 115 120 125

Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr Ser Gly
 130 135 140

Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro
 145 150 155 160

Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr
 165 170 175

Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val
 180 185 190

Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn
 195 200 205

Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys Lys Val Glu Pro
 210 215 220

Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu
 225 230 235 240

Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp
245 250 255

Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp
260 265 270

Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly
275 280 285

Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn
290 295 300

Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp
305 310 315 320

Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro
325 330 335

Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu
340 345 350

Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu Met Thr Lys Asn
355 360 365

Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile
370 375 380

Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr
385 390 395 400

Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys
405 410 415

Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys
420 425 430

Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu
435 440 445

Ser Leu Ser Pro Gly Lys
450

<210> 251

<211> 113

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 251

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

Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu Tyr Arg
20 25 30

Asn Gly Tyr Asn Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln Ser
35 40 45

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

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

Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln Ala
85 90 95

Leu Gln Thr Pro Pro Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
100 105 110

Arg

<210> 252
<211> 11
<212> PRT
<213> Artificial Sequence

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

<400> 252
Gln Ser Leu Leu Tyr Arg Asn Gly Tyr Asn Tyr
1 5 10

<210> 253
<211> 3
<212> PRT
<213> Artificial Sequence

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

<400> 253
Leu Gly Ser
1

<210> 254
<211> 9
<212> PRT
<213> Artificial Sequence

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

<400> 254

Met Gln Ala Leu Gln Thr Pro Pro Thr
1 5

<210> 255

<211> 219

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 255

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

Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu Tyr Arg
20 25 30

Asn Gly Tyr Asn Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln Ser
35 40 45

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

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

Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln Ala
85 90 95

Leu Gln Thr Pro Pro Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
100 105 110

Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu
115 120 125

Gln Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe
130 135 140

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

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

Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu
180 185 190

Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser
195 200 205

Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
210 215

<210> 256
 <211> 127
 <212> PRT
 <213> Artificial Sequence

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

<400> 256
 Glu Val Gln Leu Val Glu Thr Gly Gly Gly Leu Ile Gln Pro Gly Arg
 1 5 10 15

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

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

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

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

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

Ala Arg Asp Val Met Val Tyr Cys Ser Ser Thr Ser Cys Tyr Phe Tyr
 100 105 110

Gly Met Asp Val Trp Gly Gln Gly Thr Thr Val Thr Val Ser Ser
 115 120 125

<210> 257
 <211> 8
 <212> PRT
 <213> Artificial Sequence

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

<400> 257
 Gly Phe Thr Phe Ser Ser Tyr Ala
 1 5

<210> 258
 <211> 8
 <212> PRT
 <213> Artificial Sequence

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

<400> 258

Ile Ser Tyr Asp Gly Ser Asn Lys
1 5

<210> 259
<211> 20
<212> PRT
<213> Artificial Sequence

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

<400> 259
Ala Arg Asp Val Met Val Tyr Cys Ser Ser Thr Ser Cys Tyr Phe Tyr
1 5 10 15

Gly Met Asp Val
20

<210> 260
<211> 457
<212> PRT
<213> Artificial Sequence

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

<400> 260
Glu Val Gln Leu Val Glu Thr Gly Gly Gly Leu Ile Gln Pro Gly Arg
1 5 10 15

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

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

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

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

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

Ala Arg Asp Val Met Val Tyr Cys Ser Ser Thr Ser Cys Tyr Phe Tyr
100 105 110

Gly Met Asp Val Trp Gly Gln Gly Thr Thr Val Thr Val Ser Ser Ala
115 120 125

Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser Lys Ser
130 135 140

Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe
 145 150 155 160
 Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly
 165 170 175
 Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu
 180 185 190
 Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr
 195 200 205
 Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys Lys
 210 215 220
 Val Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro
 225 230 235 240
 Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys
 245 250 255
 Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val
 260 265 270
 Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr
 275 280 285
 Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu
 290 295 300
 Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His
 305 310 315 320
 Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys
 325 330 335
 Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln
 340 345 350
 Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu Met
 355 360 365
 Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro
 370 375 380
 Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn
 385 390 395 400
 Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu
 405 410 415

Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val
 420 425 430

Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln
 435 440 445

Lys Ser Leu Ser Leu Ser Pro Gly Lys
 450 455

<210> 261

<211> 108

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 261

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

Asp Arg Val Thr Val Thr Cys Gln Ala Ser Gln Asp Ile Arg Asp Tyr
 20 25 30

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

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

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

Glu Asp Val Ala Thr Tyr Tyr Cys Gln Gln Phe Glu Asn Leu Pro Ile
 85 90 95

Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys Arg
 100 105

<210> 262

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 262

Gln Asp Ile Arg Asp Tyr
 1 5

<210> 263

<211> 3

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 263

Asp Ala Ser

1

<210> 264

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 264

Gln Gln Phe Glu Asn Leu Pro Ile Thr

1

5

<210> 265

<211> 214

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 265

Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly

1

5

10

15

Asp Arg Val Thr Val Thr Cys Gln Ala Ser Gln Asp Ile Arg Asp Tyr

20

25

30

Leu Asn Trp Tyr Gln Lys Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile

35

40

45

Tyr Asp Ala Ser Asn Leu Glu Ala Gly Val Pro Ser Arg Phe Ser Gly

50

55

60

Ser Gly Ser Gly Thr Asp Phe Thr Phe Thr Ile Ser Gly Leu Gln Pro

65

70

75

80

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

85

90

95

Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys Arg Thr Val Ala Ala

100

105

110

Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu Lys Ser Gly

115

120

125

Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro Arg Glu Ala

130

135

140

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Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly Asn Ser Gln
145 150 155 160

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

Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys His Lys Val Tyr
180 185 190

Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro Val Thr Lys Ser
195 200 205

Phe Asn Arg Gly Glu Cys
210

<210> 266

<211> 125

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 266

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

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

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

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

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

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

Ala Thr Gly Gly Tyr Ser Ser Gly Phe Asn Tyr Tyr Tyr Tyr Tyr Met
100 105 110

Asp Val Trp Gly Lys Gly Thr Thr Val Thr Val Ser Ser
115 120 125

<210> 267

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 267

Gly Tyr Thr Leu Thr Glu Leu Ser
1 5

<210> 268

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 268

Phe Asp Pro Glu Asp Gly Glu Thr
1 5

<210> 269

<211> 18

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 269

Ala Thr Gly Gly Tyr Ser Ser Gly Phe Asn Tyr Tyr Tyr Tyr Tyr Met
1 5 10 15

Asp Val

<210> 270

<211> 455

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 270

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

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

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

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

Gln Gly Arg Val Thr Met Thr Glu Asp Thr Ser Thr Asp Thr Ala Tyr
 65 70 75 80
 Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Thr Gly Gly Tyr Ser Ser Gly Phe Asn Tyr Tyr Tyr Tyr Tyr Met
 100 105 110
 Asp Val Trp Gly Lys Gly Thr Thr Val Thr Val Ser Ser Ala Ser Thr
 115 120 125
 Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr Ser
 130 135 140
 Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu
 145 150 155 160
 Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His
 165 170 175
 Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser
 180 185 190
 Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys
 195 200 205
 Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys Lys Val Glu
 210 215 220
 Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro
 225 230 235 240
 Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys
 245 250 255
 Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val
 260 265 270
 Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp
 275 280 285
 Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr
 290 295 300
 Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp
 305 310 315 320
 Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu
 325 330 335

Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg
 340 345 350

Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu Met Thr Lys
 355 360 365

Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp
 370 375 380

Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys
 385 390 395 400

Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser
 405 410 415

Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser
 420 425 430

Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser
 435 440 445

Leu Ser Leu Ser Pro Gly Lys
 450 455

<210> 271

<211> 113

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 271

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

Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu Tyr Arg
 20 25 30

Asn Gly Asn Asn Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln Ser
 35 40 45

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

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

Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln Ala
 85 90 95

Leu Gln Thr Pro Pro Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
 100 105 110

Arg

<210> 272
 <211> 11
 <212> PRT
 <213> Artificial Sequence

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

<400> 272
 Gln Ser Leu Leu Tyr Arg Asn Gly Asn Asn Tyr
 1 5 10

<210> 273
 <211> 3
 <212> PRT
 <213> Artificial Sequence

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

<400> 273
 Leu Gly Ser
 1

<210> 274
 <211> 9
 <212> PRT
 <213> Artificial Sequence

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

<400> 274
 Met Gln Ala Leu Gln Thr Pro Pro Thr
 1 5

<210> 275
 <211> 219
 <212> PRT
 <213> Artificial Sequence

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

<400> 275
 Asp Val Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro Gly
 1 5 10 15

Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu Tyr Arg
 20 25 30

Asn Gly Asn Asn Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln Ser
 35 40 45

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

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

Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln Ala
85 90 95

Leu Gln Thr Pro Pro Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
100 105 110

Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu
115 120 125

Gln Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe
130 135 140

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

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

Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu
180 185 190

Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser
195 200 205

Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
210 215

<210> 276

<211> 121

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 276

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

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

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

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

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

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

Ala Thr Gly Val Thr Thr Tyr Tyr Tyr Tyr Gly Met Asp Val Trp Gly
100 105 110

Gln Gly Thr Thr Val Thr Val Ser Ser
115 120

<210> 277
<211> 8
<212> PRT
<213> Artificial Sequence

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

<400> 277
Gly Tyr Thr Leu Thr Glu Leu Ser
1 5

<210> 278
<211> 8
<212> PRT
<213> Artificial Sequence

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

<400> 278
Phe Asp Pro Glu Asp Gly Glu Thr
1 5

<210> 279
<211> 14
<212> PRT
<213> Artificial Sequence

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

<400> 279
Ala Thr Gly Val Thr Thr Tyr Tyr Tyr Tyr Gly Met Asp Val
1 5 10

<210> 280
<211> 451
<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 280

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

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

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

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

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

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

Ala Thr Gly Val Thr Thr Tyr Tyr Tyr Tyr Gly Met Asp Val Trp Gly
100 105 110

Gln Gly Thr Thr Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser
115 120 125

Val Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala
130 135 140

Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val
145 150 155 160

Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala
165 170 175

Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val
180 185 190

Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His
195 200 205

Lys Pro Ser Asn Thr Lys Val Asp Lys Lys Val Glu Pro Lys Ser Cys
210 215 220

Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly
225 230 235 240

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

Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His
260 265 270

Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val
275 280 285

His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr
290 295 300

Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly
305 310 315 320

Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile
325 330 335

Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val
340 345 350

Tyr Thr Leu Pro Pro Ser Arg Glu Glu Met Thr Lys Asn Gln Val Ser
355 360 365

Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu
370 375 380

Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro
385 390 395 400

Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val
405 410 415

Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met
420 425 430

His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser
435 440 445

Pro Gly Lys
450

<210> 281

<211> 113

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 281

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

Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu Tyr Ser
20 25 30

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Asn Gly Asn Asn Phe Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln Ser
35 40 45

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

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

Ser Arg Val Glu Ala Glu Asp Val Gly Ile Tyr Tyr Cys Met Gln Ala
85 90 95

Leu Gln Thr Pro Pro Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
100 105 110

Arg

<210> 282
<211> 11
<212> PRT
<213> Artificial Sequence

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

<400> 282
Gln Ser Leu Leu Tyr Ser Asn Gly Asn Asn Phe
1 5 10

<210> 283
<211> 3
<212> PRT
<213> Artificial Sequence

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

<400> 283
Leu Gly Ser
1

<210> 284
<211> 9
<212> PRT
<213> Artificial Sequence

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

<400> 284
Met Gln Ala Leu Gln Thr Pro Pro Thr
1 5

<210> 285

<211> 219

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 285

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

Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu Tyr Ser
 20 25 30

Asn Gly Asn Asn Phe Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln Ser
 35 40 45

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

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

Ser Arg Val Glu Ala Glu Asp Val Gly Ile Tyr Tyr Cys Met Gln Ala
 85 90 95

Leu Gln Thr Pro Pro Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105 110

Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu
 115 120 125

Gln Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe
 130 135 140

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

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

Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu
 180 185 190

Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser
 195 200 205

Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
 210 215

<210> 286

<211> 121

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 286

Gln Ile Thr Leu Lys Glu Ser Gly Gly Gly Val Val Gln Pro Gly Gly
1 5 10 15Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr
20 25 30Gly Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
35 40 45Ala Phe Ile Arg Tyr Asp Gly Ser Asn Lys Tyr Tyr Ala Asp Ser Val
50 55 60Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
65 70 75 80Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95Ala Arg Asp Leu Phe Asp Phe Trp Trp Asp Gly Met Asp Val Trp Gly
100 105 110Gln Gly Thr Thr Val Thr Val Ser Ser
115 120

<210> 287

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 287

Gly Phe Thr Phe Ser Ser Tyr Gly
1 5

<210> 288

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 288

Ile Arg Tyr Asp Gly Ser Asn Lys
1 5

<210> 289

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 289

Ala Arg Asp Leu Phe Asp Phe Trp Trp Asp Gly Met Asp Val
1 5 10

<210> 290

<211> 451

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 290

Gln Ile Thr Leu Lys Glu Ser Gly Gly Gly Val Val Gln Pro Gly Gly
1 5 10 15Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr
20 25 30Gly Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
35 40 45Ala Phe Ile Arg Tyr Asp Gly Ser Asn Lys Tyr Tyr Ala Asp Ser Val
50 55 60Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
65 70 75 80Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95Ala Arg Asp Leu Phe Asp Phe Trp Trp Asp Gly Met Asp Val Trp Gly
100 105 110Gln Gly Thr Thr Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser
115 120 125Val Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala
130 135 140Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val
145 150 155 160Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala
165 170 175

Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val
 180 185 190
 Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His
 195 200 205
 Lys Pro Ser Asn Thr Lys Val Asp Lys Lys Val Glu Pro Lys Ser Cys
 210 215 220
 Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly
 225 230 235 240
 Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met
 245 250 255
 Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His
 260 265 270
 Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val
 275 280 285
 His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr
 290 295 300
 Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly
 305 310 315 320
 Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile
 325 330 335
 Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val
 340 345 350
 Tyr Thr Leu Pro Pro Ser Arg Glu Glu Met Thr Lys Asn Gln Val Ser
 355 360 365
 Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu
 370 375 380
 Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro
 385 390 395 400
 Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val
 405 410 415
 Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met
 420 425 430
 His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser
 435 440 445

Pro Gly Lys
450

<210> 291
<211> 110
<212> PRT
<213> Artificial Sequence

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

<400> 291
Glu Ile Val Leu Thr Gln Ser Pro Gly Thr Leu Ser Leu Ser Pro Gly
1 5 10 15

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

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

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

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

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

Met Tyr Thr Phe Gly Leu Gly Thr Lys Leu Glu Ile Lys Arg
100 105 110

<210> 292
<211> 7
<212> PRT
<213> Artificial Sequence

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

<400> 292
Gln Ser Val Ser Ser Met Tyr
1 5

<210> 293
<211> 3
<212> PRT
<213> Artificial Sequence

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

<400> 293
Gly Ala Ser
1

<210> 294
 <211> 10
 <212> PRT
 <213> Artificial Sequence

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

<400> 294
 Gln Gln Tyr Val Ser Ser Pro Met Tyr Thr
 1 5 10

<210> 295
 <211> 216
 <212> PRT
 <213> Artificial Sequence

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

<400> 295
 Glu Ile Val Leu Thr Gln Ser Pro Gly Thr Leu Ser Leu Ser Pro Gly
 1 5 10 15

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

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

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

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

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

Met Tyr Thr Phe Gly Leu Gly Thr Lys Leu Glu Ile Lys Arg Thr Val
 100 105 110

Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu Lys
 115 120 125

Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro Arg
 130 135 140

Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly Asn
 145 150 155 160

Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr Ser
 165 170 175

Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys His Lys
180 185 190

Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro Val Thr
195 200 205

Lys Ser Phe Asn Arg Gly Glu Cys
210 215

<210> 296

<211> 122

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 296

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

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

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

Gly Gln Ile Ile Pro Leu Phe Gly Thr Thr Lys Tyr Ala Gln Lys Phe
50 55 60

Gln Gly Arg Val Thr Ile Ala Ala Asp Glu Pro Thr Ser Thr Ala Tyr
65 70 75 80

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

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

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

<210> 297

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 297

Gly Gly Thr Phe Asn Asn Tyr Gly
1 5

<210> 298
 <211> 8
 <212> PRT
 <213> Artificial Sequence

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

<400> 298
 Ile Ile Pro Leu Phe Gly Thr Thr
 1 5

<210> 299
 <211> 15
 <212> PRT
 <213> Artificial Sequence

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

<400> 299
 Ala Arg Asp Arg Met Ala Ala Asp Gly Met Ala Val Phe Asp Tyr
 1 5 10 15

<210> 300
 <211> 452
 <212> PRT
 <213> Artificial Sequence

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

<400> 300
 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser
 1 5 10 15

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

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

Gly Gln Ile Ile Pro Leu Phe Gly Thr Thr Lys Tyr Ala Gln Lys Phe
 50 55 60

Gln Gly Arg Val Thr Ile Ala Ala Asp Glu Pro Thr Ser Thr Ala Tyr
 65 70 75 80

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

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

Gly Gln Gly Thr Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro
 115 120 125
 Ser Val Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr
 130 135 140
 Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr
 145 150 155 160
 Val Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro
 165 170 175
 Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr
 180 185 190
 Val Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn
 195 200 205
 His Lys Pro Ser Asn Thr Lys Val Asp Lys Lys Val Glu Pro Lys Ser
 210 215 220
 Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu
 225 230 235 240
 Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu
 245 250 255
 Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser
 260 265 270
 His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu
 275 280 285
 Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr
 290 295 300
 Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn
 305 310 315 320
 Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro
 325 330 335
 Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln
 340 345 350
 Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu Met Thr Lys Asn Gln Val
 355 360 365
 Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val
 370 375 380

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Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro
385 390 395 400

Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr
405 410 415

Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val
420 425 430

Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu
435 440 445

Ser Pro Gly Lys
450

<210> 301
<211> 111
<212> PRT
<213> Artificial Sequence

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

<400> 301
Gln Ser Val Leu Thr Gln Pro Pro Ser Val Ser Gly Thr Pro Gly Gln
1 5 10 15

Lys Val Ile Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Arg His
20 25 30

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

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

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

Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Trp Asp Ala Ala Leu
85 90 95

Asn Gly Val Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly
100 105 110

<210> 302
<211> 8
<212> PRT
<213> Artificial Sequence

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

<400> 302

Ser Ser Asn Ile Gly Arg His Phe
1 5

<210> 303
<211> 3
<212> PRT
<213> Artificial Sequence

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

<400> 303
Lys Asn Asp
1

<210> 304
<211> 11
<212> PRT
<213> Artificial Sequence

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

<400> 304
Ser Ser Trp Asp Ala Ala Leu Asn Gly Val Val
1 5 10

<210> 305
<211> 216
<212> PRT
<213> Artificial Sequence

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

<400> 305
Gln Ser Val Leu Thr Gln Pro Pro Ser Val Ser Gly Thr Pro Gly Gln
1 5 10 15

Lys Val Ile Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Arg His
20 25 30

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

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

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

Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Trp Asp Ala Ala Leu
85 90 95

Asn Gly Val Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gln
100 105 110

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Pro Lys Ala Ala Pro Ser Val Thr Leu Phe Pro Pro Ser Ser Glu Glu
115 120 125

Leu Gln Ala Asn Lys Ala Thr Leu Val Cys Leu Ile Ser Asp Phe Tyr
130 135 140

Pro Gly Ala Val Thr Val Ala Trp Lys Ala Asp Ser Ser Pro Val Lys
145 150 155 160

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

Ala Ala Ser Ser Tyr Leu Ser Leu Thr Pro Glu Gln Trp Lys Ser His
180 185 190

Arg Ser Tyr Ser Cys Gln Val Thr His Glu Gly Ser Thr Val Glu Lys
195 200 205

Thr Val Ala Pro Thr Glu Cys Ser
210 215

<210> 306

<211> 126

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 306

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

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

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

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

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

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

Ala Thr Glu Val Pro Met Val Arg Gly Ala Arg Arg Tyr Tyr Tyr Tyr
100 105 110

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Met Asp Val Trp Gly Lys Gly Thr Thr Val Thr Val Ser Ser
115 120 125

<210> 307
<211> 8
<212> PRT
<213> Artificial Sequence

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

<400> 307
Gly Tyr Thr Leu Thr Glu Leu Ser
1 5

<210> 308
<211> 8
<212> PRT
<213> Artificial Sequence

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

<400> 308
Phe Asp Pro Glu Asp Gly Glu Thr
1 5

<210> 309
<211> 19
<212> PRT
<213> Artificial Sequence

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

<400> 309
Ala Thr Glu Val Pro Met Val Arg Gly Ala Arg Arg Tyr Tyr Tyr Tyr
1 5 10 15

Met Asp Val

<210> 310
<211> 456
<212> PRT
<213> Artificial Sequence

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

<400> 310
Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
1 5 10 15

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

Ser Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Met
 35 40 45
 Gly Gly Phe Asp Pro Glu Asp Gly Glu Thr Ile Tyr Ala Gln Lys Phe
 50 55 60
 Gln Gly Arg Val Thr Met Thr Glu Asp Thr Ser Thr Asp Thr Ala Tyr
 65 70 75 80
 Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Thr Glu Val Pro Met Val Arg Gly Ala Arg Arg Tyr Tyr Tyr Tyr
 100 105 110
 Met Asp Val Trp Gly Lys Gly Thr Thr Val Thr Val Ser Ser Ala Ser
 115 120 125
 Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr
 130 135 140
 Ser Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro
 145 150 155 160
 Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val
 165 170 175
 His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser
 180 185 190
 Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile
 195 200 205
 Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys Lys Val
 210 215 220
 Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala
 225 230 235 240
 Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro
 245 250 255
 Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val
 260 265 270
 Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val
 275 280 285
 Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln
 290 295 300

Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln
 305 310 315 320

Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala
 325 330 335

Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro
 340 345 350

Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu Met Thr
 355 360 365

Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser
 370 375 380

Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr
 385 390 395 400

Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr
 405 410 415

Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe
 420 425 430

Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys
 435 440 445

Ser Leu Ser Leu Ser Pro Gly Lys
 450 455

<210> 311

<211> 113

<212> PRT

<213> Artificial sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 311

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

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

Asn Glu Asn Asn Tyr Leu Asp Trp Tyr Val Gln Lys Pro Gly Gln Ser
 35 40 45

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

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

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

Leu Gln Thr Pro Pro Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys
100 105 110

Arg

<210> 312
<211> 11
<212> PRT
<213> Artificial Sequence

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

<400> 312
Gln Thr Leu Leu Tyr Ile Asn Glu Asn Asn Tyr
1 5 10

<210> 313
<211> 3
<212> PRT
<213> Artificial Sequence

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

<400> 313
Leu Gly Ser
1

<210> 314
<211> 9
<212> PRT
<213> Artificial Sequence

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

<400> 314
Met Gln Gly Leu Gln Thr Pro Pro Thr
1 5

<210> 315
<211> 219
<212> PRT
<213> Artificial Sequence

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

<400> 315
Asp Val Val Met Thr Gln Ser Pro Leu Phe Leu Ala Val Thr Pro Gly
1 5 10 15

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

Asn Glu Asn Asn Tyr Leu Asp Trp Tyr Val Gln Lys Pro Gly Gln Ser
35 40 45

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

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

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

Leu Gln Thr Pro Pro Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys
100 105 110

Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu
115 120 125

Gln Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe
130 135 140

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

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

Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu
180 185 190

Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser
195 200 205

Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
210 215

<210> 316

<211> 123

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 316

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

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

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

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

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

Ser Leu Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr
 85 90 95

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

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

<210> 317

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 317

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

<210> 318

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 318

Ile Tyr Tyr Ser Gly Ser Thr
 1 5

<210> 319

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 319

Ala Arg Gly Ala Trp Glu Leu Ser Leu Gly Asp Trp Phe Asp Pro
 1 5 10 15

<210> 320
 <211> 453
 <212> PRT
 <213> Artificial Sequence

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

<400> 320
 Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Ser Ser Glu
 1 5 10 15
 Thr Leu Ser Leu Thr Cys Ser Val Ser Gly Gly Ser Ile Ser Asn Ser
 20 25 30
 Asn Tyr Tyr Trp Gly Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu Glu
 35 40 45
 Trp Ile Gly Gly Ile Tyr Tyr Ser Gly Ser Thr Tyr Tyr Asn Pro Ser
 50 55 60
 Leu Glu Ser Arg Val Thr Ile Ser Glu Asp Thr Ser Lys Asn Gln Ile
 65 70 75 80
 Ser Leu Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr
 85 90 95
 Cys Ala Arg Gly Ala Trp Glu Leu Ser Leu Gly Asp Trp Phe Asp Pro
 100 105 110
 Trp Gly Pro Gly Thr Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly
 115 120 125
 Pro Ser Val Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly
 130 135 140
 Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val
 145 150 155 160
 Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe
 165 170 175
 Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val
 180 185 190
 Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val
 195 200 205
 Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys Lys Val Glu Pro Lys
 210 215 220

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Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu
225 230 235 240

Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr
245 250 255

Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val
260 265 270

Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val
275 280 285

Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser
290 295 300

Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu
305 310 315 320

Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala
325 330 335

Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro
340 345 350

Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu Met Thr Lys Asn Gln
355 360 365

Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala
370 375 380

Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr
385 390 395 400

Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu
405 410 415

Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser
420 425 430

Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser
435 440 445

Leu Ser Pro Gly Lys
450

<210> 321

<211> 113

<212> PRT

<213> Artificial sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 321

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

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

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

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

Ser Gly Ser Arg Ser Gly Thr Ser Ala Ser Leu Ala Ile Thr Gly Leu
65 70 75 80

Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Gln Ser Tyr Asp Ser Ser
85 90 95

Leu Ser Val Tyr Val Val Phe Gly Gly Gly Thr Gln Leu Thr Val Leu
100 105 110

Gly

<210> 322

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 322

Ser Ser Asn Ile Gly Ala Gly Tyr Asp
1 5

<210> 323

<211> 3

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 323

Gly Asn Asn
1

<210> 324

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 324

Gln Ser Tyr Asp Ser Ser Leu Ser Val Tyr Val Val
1 5 10

<210> 325

<211> 218

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 325

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

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

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

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

Ser Gly Ser Arg Ser Gly Thr Ser Ala Ser Leu Ala Ile Thr Gly Leu
65 70 75 80

Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Gln Ser Tyr Asp Ser Ser
85 90 95

Leu Ser Val Tyr Val Val Phe Gly Gly Gly Thr Gln Leu Thr Val Leu
100 105 110

Gly Gln Pro Lys Ala Ala Pro Ser Val Thr Leu Phe Pro Pro Ser Ser
115 120 125

Glu Glu Leu Gln Ala Asn Lys Ala Thr Leu Val Cys Leu Ile Ser Asp
130 135 140

Phe Tyr Pro Gly Ala Val Thr Val Ala Trp Lys Ala Asp Ser Ser Pro
145 150 155 160

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

Lys Tyr Ala Ala Ser Ser Tyr Leu Ser Leu Thr Pro Glu Gln Trp Lys
180 185 190

Ser His Arg Ser Tyr Ser Cys Gln Val Thr His Glu Gly Ser Thr Val
195 200 205

Glu Lys Thr Val Ala Pro Thr Glu Cys Ser
210 215

<210> 326
<211> 122
<212> PRT
<213> Artificial Sequence

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

<400> 326
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Lys Pro Gly Gly
1 5 10 15

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

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

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

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

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

Ala Lys Gly Ser Gly Asn Ile Tyr Phe Tyr Ser Gly Met Asp Val Trp
100 105 110

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

<210> 327
<211> 8
<212> PRT
<213> Artificial Sequence

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

<400> 327
Gly Phe Thr Phe Gly Thr Ser Ser
1 5

<210> 328
<211> 8
<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 328
Ile Ser Phe Asp Gly Thr Glu Ile
1 5

<210> 329
<211> 15
<212> PRT
<213> Artificial Sequence

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

<400> 329
Ala Lys Gly Ser Gly Asn Ile Tyr Phe Tyr Ser Gly Met Asp Val
1 5 10 15

<210> 330
<211> 452
<212> PRT
<213> Artificial Sequence

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

<400> 330
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Lys Pro Gly Gly
1 5 10 15

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

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

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

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

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

Ala Lys Gly Ser Gly Asn Ile Tyr Phe Tyr Ser Gly Met Asp Val Trp
100 105 110

Gly Gln Gly Thr Thr Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro
115 120 125

Ser Val Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr
130 135 140

Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr
 145 150 155 160
 Val Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro
 165 170 175
 Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr
 180 185 190
 Val Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn
 195 200 205
 His Lys Pro Ser Asn Thr Lys Val Asp Lys Lys Val Glu Pro Lys Ser
 210 215 220
 Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu
 225 230 235 240
 Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu
 245 250 255
 Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser
 260 265 270
 His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu
 275 280 285
 Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr
 290 295 300
 Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn
 305 310 315 320
 Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro
 325 330 335
 Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln
 340 345 350
 Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu Met Thr Lys Asn Gln Val
 355 360 365
 Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val
 370 375 380
 Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro
 385 390 395 400
 Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr
 405 410 415

Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val
 420 425 430

Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu
 435 440 445

Ser Pro Gly Lys
 450

<210> 331
 <211> 108
 <212> PRT
 <213> Artificial Sequence

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

<400> 331
 Asp Ile Gln Met Thr Gln Ser Pro Ser Thr Leu Ser Ala Ser Val Gly
 1 5 10 15

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

Leu Ala Trp Phe Gln Gln Lys Pro Gly Lys Ala Pro Asn Leu Leu Ile
 35 40 45

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

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

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

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

<210> 332
 <211> 6
 <212> PRT
 <213> Artificial Sequence

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

<400> 332
 Gln Ser Ile Ser Gly Trp
 1 5

<210> 333
 <211> 3
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 333

Glu Thr Ser

1

<210> 334

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 334

Gln Gln Tyr Tyr Ser Tyr Pro Leu Thr

1

5

<210> 335

<211> 214

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 335

Asp Ile Gln Met Thr Gln Ser Pro Ser Thr Leu Ser Ala Ser Val Gly

1

5

10

15

Asp Arg Val Thr Ile Thr Cys Arg Ala Gly Gln Ser Ile Ser Gly Trp

20

25

30

Leu Ala Trp Phe Gln Gln Lys Pro Gly Lys Ala Pro Asn Leu Leu Ile

35

40

45

Tyr Glu Thr Ser Thr Leu Glu Ser Gly Val Pro Ser Arg Phe Ser Gly

50

55

60

Ser Gly Ser Gly Thr Glu Tyr Thr Leu Thr Ile Ser Ser Leu Gln Pro

65

70

75

80

Asp Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Tyr Tyr Ser Tyr Pro Leu

85

90

95

Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg Thr Val Ala Ala

100

105

110

Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu Lys Ser Gly

115

120

125

Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro Arg Glu Ala

130

135

140

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Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly Asn Ser Gln
145 150 155 160

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

Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys His Lys Val Tyr
180 185 190

Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro Val Thr Lys Ser
195 200 205

Phe Asn Arg Gly Glu Cys
210

<210> 336

<211> 126

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 336

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

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

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

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

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

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

Ala Thr Gly Val Pro Ala Ala Ile Gly Val Tyr Tyr Tyr Tyr Tyr Tyr
100 105 110

Met Asp Val Trp Gly Lys Gly Thr Thr Val Thr Val Ser Ser
115 120 125

<210> 337

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 337

Gly Tyr Thr Leu Thr Glu Leu Ser
1 5

<210> 338

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 338

Phe Asp Pro Glu Asp Gly Glu Thr
1 5

<210> 339

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 339

Ala Thr Gly Val Pro Ala Ala Ile Gly Val Tyr Tyr Tyr Tyr Tyr Tyr
1 5 10 15

Met Asp Val

<210> 340

<211> 456

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 340

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

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

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

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

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

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

Ala Thr Gly Val Pro Ala Ala Ile Gly Val Tyr Tyr Tyr Tyr Tyr Tyr
100 105 110

Met Asp Val Trp Gly Lys Gly Thr Thr Val Thr Val Ser Ser Ala Ser
115 120 125

Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr
130 135 140

Ser Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro
145 150 155 160

Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val
165 170 175

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

Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile
195 200 205

Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys Lys Val
210 215 220

Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala
225 230 235 240

Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro
245 250 255

Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val
260 265 270

Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val
275 280 285

Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln
290 295 300

Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln
305 310 315 320

Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala
325 330 335

Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro
 340 345 350

Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu Met Thr
 355 360 365

Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser
 370 375 380

Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr
 385 390 395 400

Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr
 405 410 415

Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe
 420 425 430

Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys
 435 440 445

Ser Leu Ser Leu Ser Pro Gly Lys
 450 455

<210> 341

<211> 113

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 341

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

Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu Tyr Ser
 20 25 30

Asn Gly Tyr Asn Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln Ser
 35 40 45

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

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

Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln Ala
 85 90 95

Leu Gln Ser Pro Val Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
 100 105 110

Arg

<210> 342
 <211> 11
 <212> PRT
 <213> Artificial Sequence

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

<400> 342
 Gln Ser Leu Leu Tyr Ser Asn Gly Tyr Asn Tyr
 1 5 10

<210> 343
 <211> 3
 <212> PRT
 <213> Artificial Sequence

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

<400> 343
 Leu Gly Ser
 1

<210> 344
 <211> 9
 <212> PRT
 <213> Artificial Sequence

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

<400> 344
 Met Gln Ala Leu Gln Ser Pro Val Thr
 1 5

<210> 345
 <211> 219
 <212> PRT
 <213> Artificial Sequence

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

<400> 345
 Asp Val Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro Gly
 1 5 10 15

Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu Tyr Ser
 20 25 30

Asn Gly Tyr Asn Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln Ser
 35 40 45

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

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

Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln Ala
85 90 95

Leu Gln Ser Pro Val Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
100 105 110

Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu
115 120 125

Gln Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe
130 135 140

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

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

Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu
180 185 190

Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser
195 200 205

Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
210 215

<210> 346

<211> 127

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 346

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

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

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

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

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

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

Ala Thr Asp Ser Arg Asp Gly Pro Ala Ala Arg Gly Gly Tyr Tyr Tyr
100 105 110

Tyr Met Asp Val Trp Gly Gln Gly Thr Thr Val Thr Val Ser Ser
115 120 125

<210> 347
<211> 8
<212> PRT
<213> Artificial Sequence

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

<400> 347
Gly Tyr Thr Leu Thr Glu Leu Ser
1 5

<210> 348
<211> 8
<212> PRT
<213> Artificial Sequence

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

<400> 348
Phe Asp Pro Glu Asp Gly Glu Thr
1 5

<210> 349
<211> 20
<212> PRT
<213> Artificial Sequence

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

<400> 349
Ala Thr Asp Ser Arg Asp Gly Pro Ala Ala Arg Gly Gly Tyr Tyr Tyr
1 5 10 15

Tyr Met Asp Val
20

<210> 350
<211> 457

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 350

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

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

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

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

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

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

Ala Thr Asp Ser Arg Asp Gly Pro Ala Ala Arg Gly Gly Tyr Tyr Tyr
 100 105 110

Tyr Met Asp Val Trp Gly Gln Gly Thr Thr Val Thr Val Ser Ser Ala
 115 120 125

Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser Lys Ser
 130 135 140

Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe
 145 150 155 160

Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly
 165 170 175

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

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

Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys Lys
 210 215 220

Val Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro
 225 230 235 240

Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys
 245 250 255

Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val
 260 265 270

Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr
 275 280 285

Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu
 290 295 300

Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His
 305 310 315 320

Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys
 325 330 335

Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln
 340 345 350

Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu Met
 355 360 365

Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro
 370 375 380

Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn
 385 390 395 400

Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu
 405 410 415

Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val
 420 425 430

Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln
 435 440 445

Lys Ser Leu Ser Leu Ser Pro Gly Lys
 450 455

<210> 351

<211> 113

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 351

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

Gln Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu Tyr Ile
20 25 30

Asn Gly Tyr Asn Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln Ser
35 40 45

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

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

Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln Ala
85 90 95

Leu Gln Thr Pro Pro Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
100 105 110

Arg

<210> 352
<211> 11
<212> PRT
<213> Artificial Sequence

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

<400> 352
Gln Ser Leu Leu Tyr Ile Asn Gly Tyr Asn Tyr
1 5 10

<210> 353
<211> 3
<212> PRT
<213> Artificial Sequence

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

<400> 353
Leu Gly Ser
1

<210> 354
<211> 9
<212> PRT
<213> Artificial Sequence

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

<400> 354

Met Gln Ala Leu Gln Thr Pro Pro Thr
1 5

<210> 355

<211> 219

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 355

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

Gln Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu Tyr Ile
20 25 30

Asn Gly Tyr Asn Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln Ser
35 40 45

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

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

Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln Ala
85 90 95

Leu Gln Thr Pro Pro Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
100 105 110

Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu
115 120 125

Gln Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe
130 135 140

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

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

Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu
180 185 190

Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser
195 200 205

Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
210 215

<210> 356
 <211> 127
 <212> PRT
 <213> Artificial Sequence

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

<400> 356
 Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser
 1 5 10 15

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

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

Gly Gly Ile Ile Pro Ile Phe Gly Thr Ala Asn Tyr Ala Gln Lys Phe
 50 55 60

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

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

Ala Arg Asp Ala Tyr Tyr Tyr Asp Ser Ser Gly Tyr Tyr Asn Pro Asp
 100 105 110

Ala Phe Asp Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser
 115 120 125

<210> 357
 <211> 8
 <212> PRT
 <213> Artificial Sequence

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

<400> 357
 Gly Gly Thr Phe Ser Ser Tyr Ala
 1 5

<210> 358
 <211> 8
 <212> PRT
 <213> Artificial Sequence

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

<400> 358

Ile Ile Pro Ile Phe Gly Thr Ala
1 5

<210> 359

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 359

Ala Arg Asp Ala Tyr Tyr Tyr Asp Ser Ser Gly Tyr Tyr Asn Pro Asp
1 5 10 15

Ala Phe Asp Ile
20

<210> 360

<211> 457

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 360

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

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

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

Gly Gly Ile Ile Pro Ile Phe Gly Thr Ala Asn Tyr Ala Gln Lys Phe
50 55 60

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

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

Ala Arg Asp Ala Tyr Tyr Tyr Asp Ser Ser Gly Tyr Tyr Asn Pro Asp
100 105 110

Ala Phe Asp Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Ala
115 120 125

Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser Lys Ser
130 135 140

Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe
 145 150 155 160
 Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly
 165 170 175
 Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu
 180 185 190
 Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr
 195 200 205
 Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys Lys
 210 215 220
 Val Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro
 225 230 235 240
 Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys
 245 250 255
 Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val
 260 265 270
 Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr
 275 280 285
 Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu
 290 295 300
 Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His
 305 310 315 320
 Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys
 325 330 335
 Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln
 340 345 350
 Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu Met
 355 360 365
 Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro
 370 375 380
 Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn
 385 390 395 400
 Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu
 405 410 415

Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val
 420 425 430

Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln
 435 440 445

Lys Ser Leu Ser Leu Ser Pro Gly Lys
 450 455

<210> 361

<211> 113

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 361

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

Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu His Ser
 20 25 30

Asn Gly Tyr Asn Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln Ser
 35 40 45

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

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

Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln Gly
 85 90 95

Leu Gln Thr Pro Arg Thr Phe Gly Arg Gly Thr Lys Leu Glu Ile Lys
 100 105 110

Arg

<210> 362

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 362

Gln Ser Leu Leu His Ser Asn Gly Tyr Asn Tyr
 1 5 10

<210> 363

<211> 3

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 363

Leu Gly Ser

1

<210> 364

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 364

Met Gln Gly Leu Gln Thr Pro Arg Thr

1

5

<210> 365

<211> 219

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 365

Asp Val Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro Gly

1

5

10

15

Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu His Ser

20

25

30

Asn Gly Tyr Asn Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln Ser

35

40

45

Pro Gln Leu Leu Ile Tyr Leu Gly Ser Ser Arg Ala Ser Gly Val Pro

50

55

60

Asp Arg Phe Ser Gly Ser Val Ser Gly Thr Asp Phe Thr Leu Lys Ile

65

70

75

80

Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln Gly

85

90

95

Leu Gln Thr Pro Arg Thr Phe Gly Arg Gly Thr Lys Leu Glu Ile Lys

100

105

110

Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu

115

120

125

Gln Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe
 130 135 140

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

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

Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu
 180 185 190

Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser
 195 200 205

Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
 210 215

<210> 366

<211> 129

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 366

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

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

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

Gly Gly Ile Ile Pro Ile Tyr Gly Ile Thr Asp Tyr Ala Gln Lys Phe
 50 55 60

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

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

Ala Arg Asp Asp Thr Ala Arg Arg Val Arg Gly Val Pro Tyr Tyr Tyr
 100 105 110

Tyr Tyr Ala Met Asp Val Trp Gly Gln Gly Thr Thr Val Thr Val Ser
 115 120 125

Ser

<210> 367
 <211> 8
 <212> PRT
 <213> Artificial Sequence

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

<400> 367
 Gly Gly Thr Phe Ser Ser Ser Ala
 1 5

<210> 368
 <211> 8
 <212> PRT
 <213> Artificial Sequence

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

<400> 368
 Ile Ile Pro Ile Tyr Gly Ile Thr
 1 5

<210> 369
 <211> 22
 <212> PRT
 <213> Artificial Sequence

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

<400> 369
 Ala Arg Asp Asp Thr Ala Arg Arg Val Arg Gly Val Pro Tyr Tyr Tyr
 1 5 10 15

Tyr Tyr Ala Met Asp Val
 20

<210> 370
 <211> 459
 <212> PRT
 <213> Artificial Sequence

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

<400> 370
 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser
 1 5 10 15

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

Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Phe Glu Trp Met
 35 40 45
 Gly Gly Ile Ile Pro Ile Tyr Gly Ile Thr Asp Tyr Ala Gln Lys Phe
 50 55 60
 Gln Gly Arg Val Thr Ile Thr Thr Asp Glu Ser Thr Ser Thr Ala Tyr
 65 70 75 80
 Met Glu Leu Ser Ser Leu Thr Ser Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Arg Asp Asp Thr Ala Arg Arg Val Arg Gly Val Pro Tyr Tyr Tyr
 100 105 110
 Tyr Tyr Ala Met Asp Val Trp Gly Gln Gly Thr Thr Val Thr Val Ser
 115 120 125
 Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser
 130 135 140
 Lys Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp
 145 150 155 160
 Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr
 165 170 175
 Ser Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr
 180 185 190
 Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln
 195 200 205
 Thr Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp
 210 215 220
 Lys Lys Val Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro
 225 230 235 240
 Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro
 245 250 255
 Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr
 260 265 270
 Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn
 275 280 285
 Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg
 290 295 300

Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val
305 310 315 320

Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser
325 330 335

Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys
340 345 350

Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu
355 360 365

Glu Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe
370 375 380

Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu
385 390 395 400

Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe
405 410 415

Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly
420 425 430

Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr
435 440 445

Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
450 455

<210> 371

<211> 108

<212> PRT

<213> Artificial sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 371

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

Asp Glu Val Asn Ile Ser Cys Lys Ala Ser Gln Asp Ile Asp Asp Asp
20 25 30

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

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

Ser Gly Phe Gly Thr Asp Phe Thr Leu Thr Ile Lys Asn Met Glu Ser
65 70 75 80

Glu Asp Ala Ala Tyr Tyr Phe Cys Leu Gln His Asp Asn Leu Pro Leu
85 90

Thr Phe Gly Gly Gly Thr Lys Val Asp Ile Lys Arg
100 105

<210> 372
<211> 6
<212> PRT
<213> Artificial Sequence

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

<400> 372
Gln Asp Ile Asp Asp Asp
1 5

<210> 373
<211> 3
<212> PRT
<213> Artificial Sequence

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

<400> 373
Glu Ala Ser
1

<210> 374
<211> 9
<212> PRT
<213> Artificial Sequence

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

<400> 374
Leu Gln His Asp Asn Leu Pro Leu Thr
1 5

<210> 375
<211> 214
<212> PRT
<213> Artificial Sequence

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

<400> 375
Glu Thr Thr Leu Thr Gln Ser Pro Ala Phe Met Ser Ala Thr Pro Gly
1 5 10 15

Asp Glu Val Asn Ile Ser Cys Lys Ala Ser Gln Asp Ile Asp Asp Asp
20 25 30

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

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

Ser Gly Phe Gly Thr Asp Phe Thr Leu Thr Ile Lys Asn Met Glu Ser
65 70 75 80

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

Thr Phe Gly Gly Gly Thr Lys Val Asp Ile Lys Arg Thr Val Ala Ala
100 105 110

Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu Lys Ser Gly
115 120 125

Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro Arg Glu Ala
130 135 140

Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly Asn Ser Gln
145 150 155 160

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

Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys His Lys Val Tyr
180 185 190

Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro Val Thr Lys Ser
195 200 205

Phe Asn Arg Gly Glu Cys
210

<210> 376

<211> 126

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 376

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

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

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

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

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

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

Ala Thr Glu Asp Pro Gly Pro Val Ala Gly Pro Tyr Tyr Tyr Tyr Gly
 100 105 110

Met Asp Val Trp Gly Gln Gly Thr Thr Val Thr Val Ser Ser
 115 120 125

<210> 377
 <211> 8
 <212> PRT
 <213> Artificial Sequence

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

<400> 377
 Gly Tyr Thr Leu Thr Glu Leu Ser
 1 5

<210> 378
 <211> 8
 <212> PRT
 <213> Artificial Sequence

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

<400> 378
 Phe Asp Pro Glu Asp Gly Glu Thr
 1 5

<210> 379
 <211> 19
 <212> PRT
 <213> Artificial Sequence

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

<400> 379
 Ala Thr Glu Asp Pro Gly Pro Val Ala Gly Pro Tyr Tyr Tyr Tyr Gly
 1 5 10 15

Met Asp Val

<210> 380
 <211> 456
 <212> PRT
 <213> Artificial Sequence

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

<400> 380
 Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
 1 5 10 15
 Ser Val Lys Val Ser Cys Lys Val Ser Gly Tyr Thr Leu Thr Glu Leu
 20 25 30
 Ser Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Met
 35 40 45
 Gly Gly Phe Asp Pro Glu Asp Gly Glu Thr Ile Tyr Ala Gln Lys Phe
 50 55 60
 Gln Gly Arg Val Thr Met Thr Glu Asp Thr Ser Thr Asp Thr Ala Tyr
 65 70 75 80
 Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Thr Glu Asp Pro Gly Pro Val Ala Gly Pro Tyr Tyr Tyr Tyr Gly
 100 105 110
 Met Asp Val Trp Gly Gln Gly Thr Thr Val Thr Val Ser Ser Ala Ser
 115 120 125
 Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr
 130 135 140
 Ser Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro
 145 150 155 160
 Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val
 165 170 175
 His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser
 180 185 190
 Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile
 195 200 205
 Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys Lys Val
 210 215 220

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Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala
 225 230 235 240

Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro
 245 250 255

Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val
 260 265 270

Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val
 275 280 285

Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln
 290 295 300

Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln
 305 310 315 320

Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala
 325 330 335

Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro
 340 345 350

Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu Met Thr
 355 360 365

Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser
 370 375 380

Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr
 385 390 395 400

Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr
 405 410 415

Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe
 420 425 430

Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys
 435 440 445

Ser Leu Ser Leu Ser Pro Gly Lys
 450 455

<210> 381

<211> 113

<212> PRT

<213> Artificial sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 381

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

Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu Tyr Ile
20 25 30

Asn Gly Tyr His Tyr Leu Asp Trp Tyr Val Gln Arg Pro Gly Gln Ser
35 40 45

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

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

Ser Lys Val Glu Ala Glu Asp Val Gly Ile Tyr Phe Cys Met Gln Ala
85 90 95

Leu Gln Thr Pro Pro Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
100 105 110

Arg

<210> 382

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 382

Gln Ser Leu Leu Tyr Ile Asn Gly Tyr His Tyr
1 5 10

<210> 383

<211> 3

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 383

Leu Gly Ser
1

<210> 384

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 384

Met Gln Ala Leu Gln Thr Pro Pro Thr
1 5

<210> 385

<211> 219

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 385

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

Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu Tyr Ile
20 25 30

Asn Gly Tyr His Tyr Leu Asp Trp Tyr Val Gln Arg Pro Gly Gln Ser
35 40 45

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

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

Ser Lys Val Glu Ala Glu Asp Val Gly Ile Tyr Phe Cys Met Gln Ala
85 90 95

Leu Gln Thr Pro Pro Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
100 105 110

Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu
115 120 125

Gln Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe
130 135 140

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

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

Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu
180 185 190

Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser
195 200 205

Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
210 215

<210> 386
<211> 129
<212> PRT
<213> Artificial Sequence

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

<400> 386
Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser
1 5 10 15

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

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

Gly Gly Ile Ile Pro Ile Tyr Gly Ile Thr Asp Tyr Ala Gln Lys Phe
50 55 60

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

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

Ala Arg Asp Asp Thr Ala Arg Arg Val Arg Gly Val Pro Tyr Tyr Tyr
100 105 110

Tyr Tyr Ala Met Asp Val Trp Gly Gln Gly Thr Thr Val Thr Val Ser
115 120 125

Ser

<210> 387
<211> 8
<212> PRT
<213> Artificial Sequence

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

<400> 387
Gly Gly Thr Phe Ser Ser Ser Ala
1 5

<210> 388
<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 388

Ile Ile Pro Ile Tyr Gly Ile Thr
1 5

<210> 389

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 389

Ala Arg Asp Asp Thr Ala Arg Arg Val Arg Gly Val Pro Tyr Tyr Tyr
1 5 10 15Tyr Tyr Ala Met Asp Val
20

<210> 390

<211> 459

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 390

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser
1 5 10 15Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Ser Ser Ser
20 25 30Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Phe Glu Trp Met
35 40 45Gly Gly Ile Ile Pro Ile Tyr Gly Ile Thr Asp Tyr Ala Gln Lys Phe
50 55 60Gln Gly Arg Val Thr Ile Thr Thr Asp Glu Ser Thr Ser Thr Ala Tyr
65 70 75 80Met Glu Leu Ser Ser Leu Thr Ser Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95Ala Arg Asp Asp Thr Ala Arg Arg Val Arg Gly Val Pro Tyr Tyr Tyr
100 105 110

Tyr Tyr Ala Met Asp Val Trp Gly Gln Gly Thr Thr Val Thr Val Ser
 115 120 125
 Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser
 130 135 140
 Lys Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp
 145 150 155 160
 Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr
 165 170 175
 Ser Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr
 180 185 190
 Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln
 195 200 205
 Thr Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp
 210 215 220
 Lys Lys Val Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro
 225 230 235 240
 Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro
 245 250 255
 Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr
 260 265 270
 Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn
 275 280 285
 Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg
 290 295 300
 Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val
 305 310 315 320
 Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser
 325 330 335
 Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys
 340 345 350
 Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu
 355 360 365
 Glu Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe
 370 375 380

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Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu
385 390 395 400

Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe
405 410 415

Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly
420 425 430

Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr
435 440 445

Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
450 455

<210> 391

<211> 114

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 391

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

Glu Pro Ala Ser Ile Ser Cys Arg Pro Ser Gln Ser Leu Leu Asp Ser
20 25 30

Asp Asp Gly Asn Thr Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln
35 40 45

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

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

Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln
85 90 95

Arg Leu Gln Phe Pro Leu Thr Phe Gly Gly Gly Thr Lys Val Glu Ile
100 105 110

Lys Arg

<210> 392

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 392

Gln Ser Leu Leu Asp Ser Asp Asp Gly Asn Thr Tyr
1 5 10

<210> 393

<211> 3

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 393

Thr Leu Ser

1

<210> 394

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 394

Met Gln Arg Leu Gln Phe Pro Leu Thr
1 5

<210> 395

<211> 220

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 395

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

Glu Pro Ala Ser Ile Ser Cys Arg Pro Ser Gln Ser Leu Leu Asp Ser
20 25 30

Asp Asp Gly Asn Thr Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln
35 40 45

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

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

Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln
85 90 95

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Arg Leu Gln Phe Pro Leu Thr Phe Gly Gly Gly Thr Lys Val Glu Ile
100 105 110

Lys Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp
115 120 125

Glu Gln Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn
130 135 140

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

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

Ser Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr
180 185 190

Glu Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser
195 200 205

Ser Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
210 215 220

<210> 396

<211> 126

<212> PRT

<213> Artificial sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 396

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

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

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

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

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

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

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Ala Thr Gly Val Pro Ala Ala Ile Gly Val Tyr Tyr Tyr Tyr Tyr Tyr
 100 105 110

Met Asp Val Trp Gly Lys Gly Thr Thr Val Thr Val Ser Ser
 115 120 125

<210> 397
 <211> 8
 <212> PRT
 <213> Artificial Sequence

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

<400> 397
 Gly Tyr Thr Leu Thr Glu Leu Ser
 1 5

<210> 398
 <211> 8
 <212> PRT
 <213> Artificial Sequence

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

<400> 398
 Phe Asp Pro Glu Asp Gly Glu Thr
 1 5

<210> 399
 <211> 19
 <212> PRT
 <213> Artificial Sequence

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

<400> 399
 Ala Thr Gly Val Pro Ala Ala Ile Gly Val Tyr Tyr Tyr Tyr Tyr Tyr
 1 5 10 15

Met Asp Val

<210> 400
 <211> 456
 <212> PRT
 <213> Artificial Sequence

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

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

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

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

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

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

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

Ala Thr Gly Val Pro Ala Ala Ile Gly Val Tyr Tyr Tyr Tyr Tyr Tyr
100 105 110

Met Asp Val Trp Gly Lys Gly Thr Thr Val Thr Val Ser Ser Ala Ser
115 120 125

Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr
130 135 140

Ser Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro
145 150 155 160

Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val
165 170 175

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

Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile
195 200 205

Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys Lys Val
210 215 220

Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala
225 230 235 240

Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro
245 250 255

Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val
260 265 270

Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val
275 280 285

Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln
290 295 300

Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln
305 310 315 320

Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala
325 330 335

Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro
340 345 350

Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu Met Thr
355 360 365

Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser
370 375 380

Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr
385 390 395 400

Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr
405 410 415

Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe
420 425 430

Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys
435 440 445

Ser Leu Ser Leu Ser Pro Gly Lys
450 455

<210> 401

<211> 113

<212> PRT

<213> Artificial sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 401

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

Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu Tyr Arg
20 25 30

Asn Gly Tyr Asn Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln Ser
35 40 45

Pro Gln Leu Leu Ile Tyr Trp Gly Ser Tyr Arg Ala Ser Gly Val Pro
50 55 60

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

Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln Ala
85 90 95

Val Gln Asn Pro Pro Thr Phe Gly Gln Gly Thr Lys Val Asp Ile Lys
100 105 110

Arg

<210> 402
<211> 11
<212> PRT
<213> Artificial Sequence

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

<400> 402
Gln Ser Leu Leu Tyr Arg Asn Gly Tyr Asn Tyr
1 5 10

<210> 403
<211> 3
<212> PRT
<213> Artificial Sequence

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

<400> 403
Trp Gly Ser
1

<210> 404
<211> 9
<212> PRT
<213> Artificial Sequence

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

<400> 404
Met Gln Ala Val Gln Asn Pro Pro Thr
1 5

<210> 405
<211> 219
<212> PRT
<213> Artificial Sequence

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

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<400> 405

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

Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu Tyr Arg
20 25 30

Asn Gly Tyr Asn Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln Ser
35 40 45

Pro Gln Leu Leu Ile Tyr Trp Gly Ser Tyr Arg Ala Ser Gly Val Pro
50 55 60

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

Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln Ala
85 90 95

Val Gln Asn Pro Pro Thr Phe Gly Gln Gly Thr Lys Val Asp Ile Lys
100 105 110

Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu
115 120 125

Gln Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe
130 135 140

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

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

Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu
180 185 190

Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser
195 200 205

Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
210 215

<210> 406

<211> 129

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 406

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

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

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

Gly Gly Ile Ile Pro Ile Tyr Gly Ile Thr Asp Tyr Ala Gln Lys Phe
 50 55 60

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

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

Ala Arg Asp Asp Thr Ala Arg Arg Val Arg Gly Val Pro Tyr Tyr Tyr
 100 105 110

Tyr Tyr Ala Met Asp Val Trp Gly Gln Gly Thr Thr Val Thr Val Ser
 115 120 125

Ser

<210> 407

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 407

Gly Gly Thr Phe Ser Ser Ser Ala
 1 5

<210> 408

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 408

Ile Ile Pro Ile Tyr Gly Ile Thr
 1 5

<210> 409

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 409

Ala Arg Asp Asp Thr Ala Arg Arg Val Arg Gly Val Pro Tyr Tyr Tyr
 1 5 10 15

Tyr Tyr Ala Met Asp Val
 20

<210> 410

<211> 459

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 410

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

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

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

Gly Gly Ile Ile Pro Ile Tyr Gly Ile Thr Asp Tyr Ala Gln Lys Phe
 50 55 60

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

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

Ala Arg Asp Asp Thr Ala Arg Arg Val Arg Gly Val Pro Tyr Tyr Tyr
 100 105 110

Tyr Tyr Ala Met Asp Val Trp Gly Gln Gly Thr Thr Val Thr Val Ser
 115 120 125

Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser
 130 135 140

Lys Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp
 145 150 155 160

Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr
 165 170 175

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

Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln
 195 200 205

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

Lys Lys Val Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro
 225 230 235 240

Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro
 245 250 255

Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr
 260 265 270

Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn
 275 280 285

Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg
 290 295 300

Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val
 305 310 315 320

Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser
 325 330 335

Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys
 340 345 350

Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu
 355 360 365

Glu Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe
 370 375 380

Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu
 385 390 395 400

Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe
 405 410 415

Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly
 420 425 430

Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr
 435 440 445

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 Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
 450 455

<210> 411
 <211> 109
 <212> PRT
 <213> Artificial Sequence

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

<400> 411
 Asp Val Val Met Thr Gln Ser Pro Ala Phe Leu Ser Val Thr Pro Gly
 1 5 10 15

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

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

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

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

Glu Asp Phe Ala Leu Tyr Tyr Cys Gln Gln Tyr Gly Asp Trp Leu Pro
 85 90 95

Ile Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys Arg
 100 105

<210> 412
 <211> 6
 <212> PRT
 <213> Artificial Sequence

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

<400> 412
 Gln Thr Met Asn Asn Tyr
 1 5

<210> 413
 <211> 3
 <212> PRT
 <213> Artificial Sequence

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

<400> 413
 Asp Ala Ser
 1

<210> 414
 <211> 10
 <212> PRT
 <213> Artificial Sequence

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

<400> 414
 Gln Gln Tyr Gly Asp Trp Leu Pro Ile Thr
 1 5 10

<210> 415
 <211> 215
 <212> PRT
 <213> Artificial Sequence

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

<400> 415
 Asp Val Val Met Thr Gln Ser Pro Ala Phe Leu Ser Val Thr Pro Gly
 1 5 10 15

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

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

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

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

Glu Asp Phe Ala Leu Tyr Tyr Cys Gln Gln Tyr Gly Asp Trp Leu Pro
 85 90 95

Ile Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys Arg Thr Val Ala
 100 105 110

Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu Lys Ser
 115 120 125

Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro Arg Glu
 130 135 140

Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly Asn Ser
 145 150 155 160

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

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Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys His Lys Val
180 185 190

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

Ser Phe Asn Arg Gly Glu Cys
210 215

<210> 416

<211> 124

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 416

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

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

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

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

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

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

Ala Thr Ala Phe Pro Glu Ala Thr Ile Ser Tyr Tyr Tyr Tyr Met Asp
100 105 110

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

<210> 417

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 417

Gly Tyr Thr Leu Thr Glu Leu Ser
1 5

<210> 418
 <211> 8
 <212> PRT
 <213> Artificial Sequence

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

<400> 418
 Phe Asp Pro Glu Asp Gly Glu Thr
 1 5

<210> 419
 <211> 17
 <212> PRT
 <213> Artificial Sequence

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

<400> 419
 Ala Thr Ala Phe Pro Glu Ala Thr Ile Ser Tyr Tyr Tyr Tyr Met Asp
 1 5 10 15

Val

<210> 420
 <211> 454
 <212> PRT
 <213> Artificial Sequence

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

<400> 420
 Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
 1 5 10 15

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

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

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

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

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

Ala Thr Ala Phe Pro Glu Ala Thr Ile Ser Tyr Tyr Tyr Tyr Met Asp
 100 105 110
 Val Trp Gly Lys Gly Thr Thr Val Thr Val Ser Ser Ala Ser Thr Lys
 115 120 125
 Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr Ser Gly
 130 135 140
 Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro
 145 150 155 160
 Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr
 165 170 175
 Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val
 180 185 190
 Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn
 195 200 205
 Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys Lys Val Glu Pro
 210 215 220
 Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu
 225 230 235 240
 Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp
 245 250 255
 Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp
 260 265 270
 Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly
 275 280 285
 Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn
 290 295 300
 Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp
 305 310 315 320
 Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro
 325 330 335
 Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu
 340 345 350
 Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu Met Thr Lys Asn
 355 360 365

Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile
 370 375 380

Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr
 385 390 395 400

Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys
 405 410 415

Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys
 420 425 430

Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu
 435 440 445

Ser Leu Ser Pro Gly Lys
 450

<210> 421

<211> 113

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 421

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

Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu Tyr Arg
 20 25 30

Asn Gly Tyr Asn Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln Ser
 35 40 45

Pro Gln Leu Leu Ile Tyr Trp Gly Ser Tyr Arg Ala Ser Gly Val Pro
 50 55 60

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

Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln Ala
 85 90 95

Val Gln Asn Pro Pro Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105 110

Arg

<210> 422

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 422

Gln Ser Leu Leu Tyr Arg Asn Gly Tyr Asn Tyr
1 5 10

<210> 423

<211> 3

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 423

Trp Gly Ser
1

<210> 424

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 424

Met Gln Ala Val Gln Asn Pro Pro Thr
1 5

<210> 425

<211> 219

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 425

Asp Val Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro Gly
1 5 10 15Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu Tyr Arg
20 25 30Asn Gly Tyr Asn Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln Ser
35 40 45Pro Gln Leu Leu Ile Tyr Trp Gly Ser Tyr Arg Ala Ser Gly Val Pro
50 55 60Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile
65 70 75 80

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Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln Ala
85 90 95

Val Gln Asn Pro Pro Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
100 105 110

Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu
115 120 125

Gln Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe
130 135 140

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

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

Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu
180 185 190

Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser
195 200 205

Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
210 215

<210> 426

<211> 129

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 426

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

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

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

Gly Gly Ile Ile Pro Ile Tyr Gly Ile Thr Asp Tyr Ala Gln Lys Phe
50 55 60

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

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

Ala Arg Asp Asp Thr Ala Arg Arg Val Arg Gly Val Pro Tyr Tyr Tyr
 100 105 110

Tyr Tyr Ala Met Asp Val Trp Gly Gln Gly Thr Thr Val Thr Val Ser
 115 120 125

Ser

<210> 427
 <211> 8
 <212> PRT
 <213> Artificial Sequence

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

<400> 427
 Gly Gly Thr Phe Ser Ser Ser Ala
 1 5

<210> 428
 <211> 8
 <212> PRT
 <213> Artificial Sequence

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

<400> 428
 Ile Ile Pro Ile Tyr Gly Ile Thr
 1 5

<210> 429
 <211> 22
 <212> PRT
 <213> Artificial Sequence

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

<400> 429
 Ala Arg Asp Asp Thr Ala Arg Arg Val Arg Gly Val Pro Tyr Tyr Tyr
 1 5 10 15

Tyr Tyr Ala Met Asp Val
 20

<210> 430
 <211> 459
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 430

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

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

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

Gly Gly Ile Ile Pro Ile Tyr Gly Ile Thr Asp Tyr Ala Gln Lys Phe
50     55     60

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

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

Ala Arg Asp Asp Thr Ala Arg Arg Val Arg Gly Val Pro Tyr Tyr Tyr
100    105    110

Tyr Tyr Ala Met Asp Val Trp Gly Gln Gly Thr Thr Val Thr Val Ser
115    120    125

Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser
130    135    140

Lys Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp
145    150    155    160

Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr
165    170    175

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

Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln
195    200    205

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

Lys Lys Val Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro
225    230    235    240

Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro
245    250    255

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Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr
260 265 270

Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn
275 280 285

Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg
290 295 300

Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val
305 310 315 320

Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser
325 330 335

Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys
340 345 350

Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu
355 360 365

Glu Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe
370 375 380

Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu
385 390 395 400

Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe
405 410 415

Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly
420 425 430

Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr
435 440 445

Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
450 455

<210> 431

<211> 114

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 431

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

Glu Pro Ala Ser Met Ser Cys Arg Ser Ser Arg Ser Leu Leu Asp Ser
20 25 30

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Asp Asp Gly Asn Thr His Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln
35 40 45

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

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

Ile Ser Arg Val Glu Ala Glu Asp Val Gly Ile Tyr Tyr Cys Met Gln
85 90 95

Arg Lys Glu Phe Pro Leu Thr Phe Gly Gly Gly Thr Lys Val Glu Ile
100 105 110

Lys Arg

<210> 432
<211> 12
<212> PRT
<213> Artificial Sequence

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

<400> 432
Arg Ser Leu Leu Asp Ser Asp Asp Gly Asn Thr His
1 5 10

<210> 433
<211> 3
<212> PRT
<213> Artificial Sequence

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

<400> 433
Ser Leu Ser
1

<210> 434
<211> 9
<212> PRT
<213> Artificial Sequence

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

<400> 434
Met Gln Arg Lys Glu Phe Pro Leu Thr
1 5

<210> 435

<211> 220

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 435

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

Glu Pro Ala Ser Met Ser Cys Arg Ser Ser Arg Ser Leu Leu Asp Ser
 20 25 30

Asp Asp Gly Asn Thr His Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln
 35 40 45

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

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

Ile Ser Arg Val Glu Ala Glu Asp Val Gly Ile Tyr Tyr Cys Met Gln
 85 90 95

Arg Lys Glu Phe Pro Leu Thr Phe Gly Gly Gly Thr Lys Val Glu Ile
 100 105 110

Lys Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp
 115 120 125

Glu Gln Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn
 130 135 140

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

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

Ser Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr
 180 185 190

Glu Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser
 195 200 205

Ser Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
 210 215 220

<210> 436

<211> 128

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 436

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

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

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

Gly Gly Ile Ile Pro Ile Phe Gly Thr Ala Asn Tyr Ala Gln Lys Phe
 50 55 60

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

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

Ala Arg Gly Pro Trp Tyr Tyr Asp Ser Ser Gly Tyr Ser Ser Tyr Ala
 100 105 110

Tyr Tyr Met Asp Val Trp Gly Gln Gly Thr Thr Val Thr Val Ser Ser
 115 120 125

<210> 437

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 437

Gly Gly Thr Phe Ser Ser Tyr Ala
 1 5

<210> 438

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 438

Ile Ile Pro Ile Phe Gly Thr Ala
 1 5

<210> 439

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 439

Ala Arg Gly Pro Trp Tyr Tyr Asp Ser Ser Gly Tyr Ser Ser Tyr Ala
1 5 10 15Tyr Tyr Met Asp Val
20

<210> 440

<211> 458

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 440

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser
1 5 10 15Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Ser Ser Tyr
20 25 30Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
35 40 45Gly Gly Ile Ile Pro Ile Phe Gly Thr Ala Asn Tyr Ala Gln Lys Phe
50 55 60Gln Gly Arg Val Thr Ile Thr Ala Asp Lys Ser Thr Ser Thr Ala Tyr
65 70 75 80Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95Ala Arg Gly Pro Trp Tyr Tyr Asp Ser Ser Gly Tyr Ser Ser Tyr Ala
100 105 110Tyr Tyr Met Asp Val Trp Gly Gln Gly Thr Thr Val Thr Val Ser Ser
115 120 125Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser Lys
130 135 140Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr
145 150 155 160

Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser
 165 170 175
 Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser
 180 185 190
 Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr
 195 200 205
 Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys
 210 215 220
 Lys Val Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys
 225 230 235 240
 Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro
 245 250 255
 Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys
 260 265 270
 Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp
 275 280 285
 Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu
 290 295 300
 Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu
 305 310 315 320
 His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn
 325 330 335
 Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly
 340 345 350
 Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu
 355 360 365
 Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr
 370 375 380
 Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn
 385 390 395 400
 Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe
 405 410 415
 Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn
 420 425 430

Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr
 435 440 445

Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
 450 455

<210> 441
 <211> 114
 <212> PRT
 <213> Artificial Sequence

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

<400> 441
 Asp Val Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro Gly
 1 5 10 15

Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu His Ser
 20 25 30

Asp Gly Tyr Asn Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln Ser
 35 40 45

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

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

Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln Ala
 85 90 95

Leu His Thr Pro Gly Val Thr Phe Gly Gly Gly Thr Lys Val Glu Ile
 100 105 110

Lys Arg

<210> 442
 <211> 11
 <212> PRT
 <213> Artificial Sequence

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

<400> 442
 Gln Ser Leu Leu His Ser Asp Gly Tyr Asn Tyr
 1 5 10

<210> 443
 <211> 3
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 443

Leu Gly Ser

1

<210> 444

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 444

Met Gln Ala Leu His Thr Pro Gly Val Thr

1

5

10

<210> 445

<211> 220

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 445

Asp Val Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro Gly

1

5

10

15

Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu His Ser

20

25

30

Asp Gly Tyr Asn Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln Ser

35

40

45

Pro Gln Leu Leu Ile Tyr Leu Gly Ser Asn Arg Ala Ser Gly Val Pro

50

55

60

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

65

70

75

80

Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln Ala

85

90

95

Leu His Thr Pro Gly Val Thr Phe Gly Gly Gly Thr Lys Val Glu Ile

100

105

110

Lys Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp

115

120

125

Glu Gln Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn

130

135

140

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

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

Ser Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr
180 185 190

Glu Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser
195 200 205

Ser Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
210 215 220

<210> 446

<211> 123

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 446

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

Thr Leu Ser Leu Thr Cys Thr Val Thr Gly Gly Ser Ile Ser Ser Ser
20 25 30

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

Trp Ile Gly Gly Ile Tyr Tyr Ser Gly Ser Thr Tyr Tyr Asn Val Ser
50 55 60

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

Ser Leu Lys Leu Thr Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr
85 90 95

Cys Ala Arg Gly Ala Trp Glu Leu Arg Leu Gly Asp Trp Phe Asp Pro
100 105 110

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

<210> 447

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 447

Gly Gly Ser Ile Ser Ser Ser Ser Tyr Tyr
1 5 10

<210> 448

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 448

Ile Tyr Tyr Ser Gly Ser Thr
1 5

<210> 449

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 449

Ala Arg Gly Ala Trp Glu Leu Arg Leu Gly Asp Trp Phe Asp Pro
1 5 10 15

<210> 450

<211> 453

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 450

Gln Leu Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Glu
1 5 10 15Thr Leu Ser Leu Thr Cys Thr Val Thr Gly Gly Ser Ile Ser Ser Ser
20 25 30Ser Tyr Tyr Trp Ala Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu Glu
35 40 45Trp Ile Gly Gly Ile Tyr Tyr Ser Gly Ser Thr Tyr Tyr Asn Val Ser
50 55 60Leu Glu Ser Arg Val Thr Ile Ser Gln Asp Thr Ser Lys Asn Gln Phe
65 70 75 80

Ser Leu Lys Leu Thr Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr
 85 90 95
 Cys Ala Arg Gly Ala Trp Glu Leu Arg Leu Gly Asp Trp Phe Asp Pro
 100 105 110
 Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly
 115 120 125
 Pro Ser Val Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly
 130 135 140
 Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val
 145 150 155 160
 Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe
 165 170 175
 Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val
 180 185 190
 Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val
 195 200 205
 Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys Lys Val Glu Pro Lys
 210 215 220
 Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu
 225 230 235 240
 Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr
 245 250 255
 Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val
 260 265 270
 Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val
 275 280 285
 Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser
 290 295 300
 Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu
 305 310 315 320
 Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala
 325 330 335
 Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro
 340 345 350

Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu Met Thr Lys Asn Gln
355 360 365

Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala
370 375 380

Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr
385 390 395 400

Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu
405 410 415

Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser
420 425 430

Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser
435 440 445

Leu Ser Pro Gly Lys
450

<210> 451

<211> 118

<212> PRT

<213> Artificial sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 451

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

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

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

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

Ser Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Thr Gly Leu
65 70 75 80

Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Gln Ser Tyr Asp Ser Ser
85 90 95

Leu Ser Val Tyr Val Val Phe Gly Gly Gly Thr Gln Leu Thr Val Leu
100 105 110

Gly Gln Pro Lys Ala Ala
115

<210> 452
 <211> 9
 <212> PRT
 <213> Artificial Sequence

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

<400> 452
 Ser Ser Asn Ile Gly Ala Gly Tyr Asp
 1 5

<210> 453
 <211> 3
 <212> PRT
 <213> Artificial Sequence

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

<400> 453
 Gly Tyr Ser
 1

<210> 454
 <211> 12
 <212> PRT
 <213> Artificial Sequence

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

<400> 454
 Gln Ser Tyr Asp Ser Ser Leu Ser Val Tyr Val Val
 1 5 10

<210> 455
 <211> 218
 <212> PRT
 <213> Artificial Sequence

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

<400> 455
 Gln Ser Val Leu Thr Gln Pro Pro Ser Val Ser Gly Ala Pro Gly Gln
 1 5 10 15

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

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

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

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Ser Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Thr Gly Leu
65 70 75 80

Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Gln Ser Tyr Asp Ser Ser
85 90 95

Leu Ser Val Tyr Val Val Phe Gly Gly Gly Thr Gln Leu Thr Val Leu
100 105 110

Gly Gln Pro Lys Ala Ala Pro Ser Val Thr Leu Phe Pro Pro Ser Ser
115 120 125

Glu Glu Leu Gln Ala Asn Lys Ala Thr Leu Val Cys Leu Ile Ser Asp
130 135 140

Phe Tyr Pro Gly Ala Val Thr Val Ala Trp Lys Ala Asp Ser Ser Pro
145 150 155 160

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

Lys Tyr Ala Ala Ser Ser Tyr Leu Ser Leu Thr Pro Glu Gln Trp Lys
180 185 190

Ser His Arg Ser Tyr Ser Cys Gln Val Thr His Glu Gly Ser Thr Val
195 200 205

Glu Lys Thr Val Ala Pro Thr Glu Cys Ser
210 215

<210> 456

<211> 122

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 456

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

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

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

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

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

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

Val Lys Asp Pro Thr Leu Val Ala Thr Asp Arg Ala Phe Asn Ile Trp
100 105 110

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

<210> 457

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 457

Arg Phe Thr Phe Glu Asp Tyr Ala
1 5

<210> 458

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 458

Ile Ser Trp Lys Ser Gly Gly Ile
1 5

<210> 459

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 459

Val Lys Asp Pro Thr Leu Val Ala Thr Asp Arg Ala Phe Asn Ile
1 5 10 15

<210> 460

<211> 452

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 460

Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Val Val Gln Pro Gly Gly
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Arg Phe Thr Phe Glu Asp Tyr
 20 25 30
 Ala Met His Trp Val Arg Gln Pro Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45
 Ser Gly Ile Ser Trp Lys Ser Gly Gly Ile Asn Tyr Ala Asp Ser Val
 50 55 60
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Gln Asn Ser Leu Tyr
 65 70 75 80
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Leu Tyr Tyr Cys
 85 90 95
 Val Lys Asp Pro Thr Leu Val Ala Thr Asp Arg Ala Phe Asn Ile Trp
 100 105 110
 Gly Gln Gly Thr Met Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro
 115 120 125
 Ser Val Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr
 130 135 140
 Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr
 145 150 155 160
 Val Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro
 165 170 175
 Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr
 180 185 190
 Val Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn
 195 200 205
 His Lys Pro Ser Asn Thr Lys Val Asp Lys Lys Val Glu Pro Lys Ser
 210 215 220
 Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu
 225 230 235 240
 Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu
 245 250 255
 Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser
 260 265 270

His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu
 275 280 285

Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr
 290 295 300

Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn
 305 310 315 320

Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro
 325 330 335

Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln
 340 345 350

Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu Met Thr Lys Asn Gln Val
 355 360 365

Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val
 370 375 380

Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro
 385 390 395 400

Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr
 405 410 415

Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val
 420 425 430

Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu
 435 440 445

Ser Pro Gly Lys
 450

<210> 461

<211> 117

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 461

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

Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu His Ser
 20 25 30

Asn Gly Tyr Asn Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln Ser
 35 40 45

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

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

Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln Tyr
85 90 95

Leu Gln Thr Pro Asp Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
100 105 110

Arg Ala Ala Pro Ser
115

<210> 462
<211> 11
<212> PRT
<213> Artificial Sequence

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

<400> 462
Gln Ser Leu Leu His Ser Asn Gly Tyr Asn Tyr
1 5 10

<210> 463
<211> 3
<212> PRT
<213> Artificial Sequence

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

<400> 463
Leu Gly Ser
1

<210> 464
<211> 9
<212> PRT
<213> Artificial Sequence

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

<400> 464
Met Gln Tyr Leu Gln Thr Pro Asp Thr
1 5

<210> 465
<211> 219
<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 465

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

Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu His Ser
 20 25 30

Asn Gly Tyr Asn Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln Ser
 35 40 45

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

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

Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln Tyr
 85 90 95

Leu Gln Thr Pro Asp Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
 100 105 110

Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu
 115 120 125

Gln Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe
 130 135 140

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

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

Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu
 180 185 190

Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser
 195 200 205

Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
 210 215

<210> 466

<211> 129

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 466

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

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

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

Gly Gly Ile Ile Pro Ile Tyr Gly Ile Thr Asp Tyr Ala Gln Lys Phe
50 55 60

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

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

Ala Arg Asp Asp Thr Ala Arg Arg Val Arg Gly Val Pro Tyr Tyr Tyr
100 105 110

Tyr Tyr Ala Met Asp Val Trp Gly Gln Gly Thr Thr Val Thr Val Ser
115 120 125

Ser

<210> 467

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 467

Gly Gly Thr Phe Ser Ser Ser Ala
1 5

<210> 468

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 468

Ile Ile Pro Ile Tyr Gly Ile Thr
1 5

<210> 469

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 469

Ala Arg Asp Asp Thr Ala Arg Arg Val Arg Gly Val Pro Tyr Tyr Tyr
1 5 10 15Tyr Tyr Ala Met Asp Val
20

<210> 470

<211> 459

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 470

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser
1 5 10 15Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Ser Ser Ser
20 25 30Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Phe Glu Trp Met
35 40 45Gly Gly Ile Ile Pro Ile Tyr Gly Ile Thr Asp Tyr Ala Gln Lys Phe
50 55 60Gln Gly Arg Val Thr Ile Thr Thr Asp Glu Ser Thr Ser Thr Ala Tyr
65 70 75 80Met Glu Leu Ser Ser Leu Thr Ser Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95Ala Arg Asp Asp Thr Ala Arg Arg Val Arg Gly Val Pro Tyr Tyr Tyr
100 105 110Tyr Tyr Ala Met Asp Val Trp Gly Gln Gly Thr Thr Val Thr Val Ser
115 120 125Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser
130 135 140Lys Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp
145 150 155 160

Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr
165 170 175

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

Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln
195 200 205

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

Lys Lys Val Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro
225 230 235 240

Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro
245 250 255

Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr
260 265 270

Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn
275 280 285

Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg
290 295 300

Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val
305 310 315 320

Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser
325 330 335

Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys
340 345 350

Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu
355 360 365

Glu Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe
370 375 380

Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu
385 390 395 400

Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe
405 410 415

Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly
420 425 430

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 Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr
 435 440 445

Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
 450 455

<210> 471
 <211> 114
 <212> PRT
 <213> Artificial Sequence

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

<400> 471
 Glu Ile Val Leu Thr Gln Ser Pro Asp Phe Gln Ser Val Thr Pro Lys
 1 5 10 15

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

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

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

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

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

Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Arg Arg Thr Val Ala Ala
 100 105 110

Pro Ser

<210> 472
 <211> 6
 <212> PRT
 <213> Artificial Sequence

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

<400> 472
 Gln Asn Ile Asp Ser Ser
 1 5

<210> 473
 <211> 3
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 473

Tyr Ala Ser

1

<210> 474

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 474

His Gln Ser Ser Ser Leu Pro Leu Thr

1

5

<210> 475

<211> 218

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 475

Gln Ser Val Leu Thr Gln Pro Pro Ser Val Ser Gly Ala Pro Gly Gln

1

5

10

15

Arg Val Thr Ile Ser Cys Thr Gly Ser Ser Ser Asn Ile Gly Ala Gly

20

25

30

Tyr Asp Ile Gln Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu

35

40

45

Leu Ile Tyr Gly Tyr Ser Asn Arg Pro Ser Gly Val Pro Asp Arg Phe

50

55

60

Ser Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Thr Gly Leu

65

70

75

80

Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Gln Ser Tyr Asp Ser Ser

85

90

95

Leu Ser Val Tyr Val Val Phe Gly Gly Gly Thr Gln Leu Thr Val Leu

100

105

110

Gly Gln Pro Lys Ala Ala Pro Ser Val Thr Leu Phe Pro Pro Ser Ser

115

120

125

Glu Glu Leu Gln Ala Asn Lys Ala Thr Leu Val Cys Leu Ile Ser Asp

130

135

140

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Phe Tyr Pro Gly Ala Val Thr Val Ala Trp Lys Ala Asp Ser Ser Pro
145 150 155 160

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

Lys Tyr Ala Ala Ser Ser Tyr Leu Ser Leu Thr Pro Glu Gln Trp Lys
180 185 190

Ser His Arg Ser Tyr Ser Cys Gln Val Thr His Glu Gly Ser Thr Val
195 200 205

Glu Lys Thr Val Ala Pro Thr Glu Cys Ser
210 215

<210> 476

<211> 129

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 476

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

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

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

Gly Gly Ile Ile Pro Ile Tyr Gly Ile Thr Asp Tyr Ala Gln Lys Phe
50 55 60

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

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

Ala Arg Asp Asp Thr Ala Arg Arg Val Arg Gly Val Pro Tyr Tyr Tyr
100 105 110

Tyr Tyr Ala Met Asp Val Trp Gly Gln Gly Thr Thr Val Thr Val Ser
115 120 125

Ser

<210> 477

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 477

Gly Gly Thr Phe Ser Ser Ser Ala
1 5

<210> 478

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 478

Ile Ile Pro Ile Tyr Gly Ile Thr
1 5

<210> 479

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 479

Ala Arg Asp Asp Thr Ala Arg Arg Val Arg Gly Val Pro Tyr Tyr Tyr
1 5 10 15Tyr Tyr Ala Met Asp Val
20

<210> 480

<211> 459

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 480

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser
1 5 10 15Ser Val Lys Val Ser Cys Lys Thr Ser Gly Gly Thr Phe Ser Ser Ser
20 25 30Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Phe Glu Trp Met
35 40 45

Gly Gly Ile Ile Pro Ile Tyr Gly Ile Thr Asp Tyr Ala Gln Lys Phe
 50 55 60
 Gln Gly Arg Val Thr Ile Thr Thr Asp Glu Ser Thr Ser Thr Ala Tyr
 65 70 75 80
 Met Glu Leu Ser Ser Leu Thr Ser Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Arg Asp Asp Thr Ala Arg Arg Val Arg Gly Val Pro Tyr Tyr Tyr
 100 105 110
 Tyr Tyr Ala Met Asp Val Trp Gly Gln Gly Thr Thr Val Thr Val Ser
 115 120 125
 Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser
 130 135 140
 Lys Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp
 145 150 155 160
 Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr
 165 170 175
 Ser Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr
 180 185 190
 Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln
 195 200 205
 Thr Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp
 210 215 220
 Lys Lys Val Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro
 225 230 235 240
 Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro
 245 250 255
 Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr
 260 265 270
 Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn
 275 280 285
 Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg
 290 295 300
 Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val
 305 310 315 320

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Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser
325 330 335

Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys
340 345 350

Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu
355 360 365

Glu Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe
370 375 380

Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu
385 390 395 400

Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe
405 410 415

Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly
420 425 430

Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr
435 440 445

Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
450 455

<210> 481

<211> 114

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 481

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

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

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

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

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

Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Asp Asp Trp Pro Gln
85 90 95

Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys Arg Thr Val Ala Ala
 100 105 110

Pro Ser

<210> 482
 <211> 6
 <212> PRT
 <213> Artificial Sequence

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

<400> 482
 Gln Ser Val ser ser Tyr
 1 5

<210> 483
 <211> 3
 <212> PRT
 <213> Artificial Sequence

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

<400> 483
 Asp Ala Ser
 1

<210> 484
 <211> 9
 <212> PRT
 <213> Artificial Sequence

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

<400> 484
 Gln Gln Tyr Asp Asp Trp Pro Gln Thr
 1 5

<210> 485
 <211> 214
 <212> PRT
 <213> Artificial Sequence

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

<400> 485
 Glu Ile Val Leu Thr Gln Ser Pro Gly Thr Leu Ser Leu Ser Pro Gly
 1 5 10 15

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

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

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

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

Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Asp Asp Trp Pro Gln
85 90 95

Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys Arg Thr Val Ala Ala
100 105 110

Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu Lys Ser Gly
115 120 125

Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro Arg Glu Ala
130 135 140

Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly Asn Ser Gln
145 150 155 160

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

Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys His Lys Val Tyr
180 185 190

Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro Val Thr Lys Ser
195 200 205

Phe Asn Arg Gly Glu Cys
210

<210> 486

<211> 129

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 486

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

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

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

Gly Gly Ile Ile Pro Ile Tyr Gly Ile Thr Asp Tyr Ala Gln Lys Phe
 50 55 60

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

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

Ala Arg Asp Asp Thr Ala Arg Arg Val Arg Gly Val Pro Tyr Tyr Tyr
 100 105 110

Tyr Tyr Ala Met Asp Val Trp Gly Gln Gly Thr Thr Val Thr Val Ser
 115 120 125

Ser

<210> 487

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 487

Gly Gly Thr Phe Ser Ser Ser Ala
 1 5

<210> 488

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 488

Ile Ile Pro Ile Tyr Gly Ile Thr
 1 5

<210> 489

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 489

Ala Arg Asp Asp Thr Ala Arg Arg Val Arg Gly Val Pro Tyr Tyr Tyr
 1 5 10 15

Tyr Tyr Ala Met Asp Val
20

<210> 490

<211> 459

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 490

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

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

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

Gly Gly Ile Ile Pro Ile Tyr Gly Ile Thr Asp Tyr Ala Gln Lys Phe
50 55 60

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

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

Ala Arg Asp Asp Thr Ala Arg Arg Val Arg Gly Val Pro Tyr Tyr Tyr
100 105 110

Tyr Tyr Ala Met Asp Val Trp Gly Gln Gly Thr Thr Val Thr Val Ser
115 120 125

Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser
130 135 140

Lys Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp
145 150 155 160

Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr
165 170 175

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

Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln
195 200 205

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

Lys Lys Val Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro
 225 230 235 240

Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro
 245 250 255

Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr
 260 265 270

Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn
 275 280 285

Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg
 290 295 300

Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val
 305 310 315 320

Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser
 325 330 335

Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys
 340 345 350

Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu
 355 360 365

Glu Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe
 370 375 380

Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu
 385 390 395 400

Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe
 405 410 415

Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly
 420 425 430

Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr
 435 440 445

Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
 450 455

<210> 491

<211> 114

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 491

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

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

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

Tyr Asp Thr Phe Glu Arg Ala Ala Gly Ile Pro Ala Lys Phe Ser Gly
50 55 60

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

Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Arg Arg Asp Trp Pro Ile
85 90 95

Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys Arg Thr Val Ala Ala
100 105 110

Pro Ser

<210> 492

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 492

Gln Asn Val Tyr Gly Glu
1 5

<210> 493

<211> 3

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 493

Asp Thr Phe
1

<210> 494

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 494

Gln Gln Arg Arg Asp Trp Pro Ile Thr
1 5

<210> 495

<211> 214

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 495

Glu Ile Val Met Thr Gln Ser Pro Ala Thr Leu Ser Leu Ser Thr Gly
1 5 10 15Glu Arg Ala Thr Leu Phe Cys Arg Thr Ser Gln Asn Val Tyr Gly Glu
20 25 30Val Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile
35 40 45Tyr Asp Thr Phe Glu Arg Ala Ala Gly Ile Pro Ala Lys Phe Ser Gly
50 55 60Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Arg Val Glu Pro
65 70 75 80Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Arg Arg Asp Trp Pro Ile
85 90 95Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys Arg Thr Val Ala Ala
100 105 110Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu Lys Ser Gly
115 120 125Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro Arg Glu Ala
130 135 140Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly Asn Ser Gln
145 150 155 160Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr Ser Leu Ser
165 170 175Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys His Lys Val Tyr
180 185 190

Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro Val Thr Lys Ser
195 200 205

Phe Asn Arg Gly Glu Cys
210

<210> 496
<211> 129
<212> PRT
<213> Artificial Sequence

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

<400> 496
Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser
1 5 10 15

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

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

Gly Gly Ile Ile Pro Ile Tyr Gly Ile Thr Asp Tyr Ala Gln Lys Phe
50 55 60

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

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

Ala Arg Asp Asp Thr Ala Arg Arg Val Arg Gly Val Pro Tyr Tyr Tyr
100 105 110

Tyr Tyr Ala Met Asp Val Trp Gly Gln Gly Thr Thr Val Thr Val Ser
115 120 125

Ser

<210> 497
<211> 8
<212> PRT
<213> Artificial Sequence

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

<400> 497
Gly Gly Thr Phe Ser Ser Ser Ala
1 5

<210> 498
 <211> 8
 <212> PRT
 <213> Artificial Sequence

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

<400> 498
 Ile Ile Pro Ile Tyr Gly Ile Thr
 1 5

<210> 499
 <211> 22
 <212> PRT
 <213> Artificial Sequence

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

<400> 499
 Ala Arg Asp Asp Thr Ala Arg Arg Val Arg Gly Val Pro Tyr Tyr Tyr
 1 5 10 15

Tyr Tyr Ala Met Asp Val
 20

<210> 500
 <211> 459
 <212> PRT
 <213> Artificial Sequence

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

<400> 500
 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser
 1 5 10 15

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

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

Gly Gly Ile Ile Pro Ile Tyr Gly Ile Thr Asp Tyr Ala Gln Lys Phe
 50 55 60

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

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

Ala Arg Asp Asp Thr Ala Arg Arg Val Arg Gly Val Pro Tyr Tyr Tyr
 100 105 110
 Tyr Tyr Ala Met Asp Val Trp Gly Gln Gly Thr Thr Val Thr Val Ser
 115 120 125
 Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser
 130 135 140
 Lys Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp
 145 150 155 160
 Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr
 165 170 175
 Ser Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr
 180 185 190
 Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln
 195 200 205
 Thr Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp
 210 215 220
 Lys Lys Val Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro
 225 230 235 240
 Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro
 245 250 255
 Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr
 260 265 270
 Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn
 275 280 285
 Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg
 290 295 300
 Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val
 305 310 315 320
 Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser
 325 330 335
 Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys
 340 345 350
 Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu
 355 360 365

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 Glu Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe
 370 375 380

Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu
 385 390 395 400

Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe
 405 410 415

Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly
 420 425 430

Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr
 435 440 445

Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
 450 455

<210> 501
 <211> 114
 <212> PRT
 <213> Artificial Sequence

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

<400> 501
 Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
 1 5 10 15

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

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

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

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

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

Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys Arg Thr Val Ala Ala
 100 105 110

Pro Ser

<210> 502
 <211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 502

Arg Asp Ile Ser Asp Ser
1 5

<210> 503

<211> 3

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 503

Asp Ala Ser
1

<210> 504

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 504

His Gln Tyr Asp Asn Leu Pro Leu Thr
1 5

<210> 505

<211> 214

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 505

Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
1 5 10 15Asp Arg Val Thr Ile Thr Cys Gln Ala Ser Arg Asp Ile Ser Asp Ser
20 25 30Leu Ser Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile
35 40 45Phe Asp Ala Ser Asn Leu Lys Thr Gly Val Ser Ser Arg Phe Ser Gly
50 55 60Ser Gly Ser Gly Thr Asp Phe Thr Phe Thr Ile Ser Ser Leu Gln Pro
65 70 75 80

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

Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys Arg Thr Val Ala Ala
100 105 110

Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu Lys Ser Gly
115 120 125

Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro Arg Glu Ala
130 135 140

Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly Asn Ser Gln
145 150 155 160

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

Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys His Lys Val Tyr
180 185 190

Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro Val Thr Lys Ser
195 200 205

Phe Asn Arg Gly Glu Cys
210

<210> 506

<211> 129

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 506

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

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

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

Gly Gly Ile Ile Pro Ile Tyr Gly Ile Thr Asp Tyr Ala Gln Lys Phe
50 55 60

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

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

Ala Arg Asp Asp Thr Ala Arg Arg Val Arg Gly Val Pro Tyr Tyr Tyr
100 105 110

Tyr Tyr Ala Met Asp Val Trp Gly Gln Gly Thr Thr Val Thr Val Ser
115 120 125

Ser

<210> 507
<211> 8
<212> PRT
<213> Artificial Sequence

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

<400> 507
Gly Gly Thr Phe Ser Ser Ser Ala
1 5

<210> 508
<211> 8
<212> PRT
<213> Artificial Sequence

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

<400> 508
Ile Ile Pro Ile Tyr Gly Ile Thr
1 5

<210> 509
<211> 22
<212> PRT
<213> Artificial Sequence

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

<400> 509
Ala Arg Asp Asp Thr Ala Arg Arg Val Arg Gly Val Pro Tyr Tyr Tyr
1 5 10 15

Tyr Tyr Ala Met Asp Val
20

<210> 510
<211> 459
<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 510

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

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

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

Gly Gly Ile Ile Pro Ile Tyr Gly Ile Thr Asp Tyr Ala Gln Lys Phe
      50      55      60

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

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

Ala Arg Asp Asp Thr Ala Arg Arg Val Arg Gly Val Pro Tyr Tyr Tyr
      100      105      110

Tyr Tyr Ala Met Asp Val Trp Gly Gln Gly Thr Thr Val Thr Val Ser
      115      120      125

Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser
      130      135      140

Lys Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp
145      150      155      160

Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr
      165      170      175

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

Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln
      195      200      205

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

Lys Lys Val Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro
225      230      235      240

Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro
      245      250      255

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Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr
260 265 270

Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn
275 280 285

Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg
290 295 300

Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val
305 310 315 320

Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser
325 330 335

Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys
340 345 350

Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu
355 360 365

Glu Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe
370 375 380

Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu
385 390 395 400

Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe
405 410 415

Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly
420 425 430

Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr
435 440 445

Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
450 455

<210> 511

<211> 114

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 511

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

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

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

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

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

Glu Asp Phe Ala Val Tyr Tyr Cys His Gln His Thr Asn Trp Pro Leu
85 90 95

Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys Arg Thr Val Ala Ala
100 105 110

Pro Ser

<210> 512
<211> 6
<212> PRT
<213> Artificial Sequence

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

<400> 512
Glu Ser Val Thr Thr Phe
1 5

<210> 513
<211> 3
<212> PRT
<213> Artificial Sequence

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

<400> 513
Asp Ala Ser
1

<210> 514
<211> 9
<212> PRT
<213> Artificial Sequence

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

<400> 514
His Gln His Thr Asn Trp Pro Leu Thr
1 5

<210> 515

<211> 214

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 515

Glu Ile Val Met Thr Gln Ser Pro Ala Thr Leu Ser Leu Ser Pro Gly
1 5 10 15Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Glu Ser Val Thr Thr Phe
20 25 30Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile
35 40 45Thr Asp Ala Ser Asn Arg Ala Thr Gly Ile Pro Gly Arg Phe Ser Gly
50 55 60Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Glu Pro
65 70 75 80Glu Asp Phe Ala Val Tyr Tyr Cys His Gln His Thr Asn Trp Pro Leu
85 90 95Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys Arg Thr Val Ala Ala
100 105 110Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu Lys Ser Gly
115 120 125Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro Arg Glu Ala
130 135 140Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly Asn Ser Gln
145 150 155 160Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr Ser Leu Ser
165 170 175Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys His Lys Val Tyr
180 185 190Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro Val Thr Lys Ser
195 200 205Phe Asn Arg Gly Glu Cys
210

<210> 516

<211> 129

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 516

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

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

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

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

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

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

Ala Thr Glu Val Gly Tyr Cys Ser Gly Gly Ser Cys Tyr Ile Ser Tyr
 100 105 110

Tyr Tyr Gly Met Asp Val Trp Gly Gln Gly Thr Thr Val Thr Val Ser
 115 120 125

Ser

<210> 517

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 517

Gly Tyr Thr Leu Thr Glu Leu Ser
 1 5

<210> 518

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 518

Phe Asp Pro Glu Asp Gly Glu Thr
1 5

<210> 519

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 519

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

Tyr Tyr Gly Met Asp Val
20

<210> 520

<211> 459

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 520

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

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

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

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

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

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

Ala Thr Glu Val Gly Tyr Cys Ser Gly Gly Ser Cys Tyr Ile Ser Tyr
100 105 110

Tyr Tyr Gly Met Asp Val Trp Gly Gln Gly Thr Thr Val Thr Val Ser
115 120 125

Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser
130 135 140

Lys Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp
 145 150 155 160
 Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr
 165 170 175
 Ser Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr
 180 185 190
 Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln
 195 200 205
 Thr Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp
 210 215 220
 Lys Lys Val Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro
 225 230 235 240
 Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro
 245 250 255
 Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr
 260 265 270
 Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn
 275 280 285
 Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg
 290 295 300
 Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val
 305 310 315 320
 Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser
 325 330 335
 Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys
 340 345 350
 Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu
 355 360 365
 Glu Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe
 370 375 380
 Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu
 385 390 395 400
 Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe
 405 410 415

Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly
 420 425 430

Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr
 435 440 445

Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
 450 455

<210> 521

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 521

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

Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu Tyr Arg
 20 25 30

Asn Gly His Asn Phe Leu Asp Trp Tyr Val Gln Lys Pro Gly Gln Ser
 35 40 45

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

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

Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln Ala
 85 90 95

Leu Gln Thr Pro Pro Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
 100 105 110

Arg Thr Val Ala Ala Pro Ser
 115

<210> 522

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 522

Gln Ser Leu Leu Tyr Arg Asn Gly His Asn Phe
 1 5 10

<210> 523

<211> 3

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 523

Leu Gly Ser

1

<210> 524

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 524

Met Gln Ala Leu Gln Thr Pro Pro Thr

1

5

<210> 525

<211> 219

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 525

Asp Val Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro Gly

1

5

10

15

Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu Tyr Arg

20

25

30

Asn Gly His Asn Phe Leu Asp Trp Tyr Val Gln Lys Pro Gly Gln Ser

35

40

45

Pro Gln Leu Leu Ile Tyr Leu Gly Ser Asn Arg Ala Ser Gly Val Pro

50

55

60

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

65

70

75

80

Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln Ala

85

90

95

Leu Gln Thr Pro Pro Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys

100

105

110

Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu

115

120

125

Gln Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe
130 135 140

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

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

Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu
180 185 190

Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser
195 200 205

Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
210 215

<210> 526
<211> 8
<212> PRT
<213> Artificial Sequence

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

<400> 526
Gly Gly Thr Phe Ser Ser Tyr Ala
1 5

<210> 527
<211> 8
<212> PRT
<213> Artificial Sequence

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

<400> 527
Ile Ile Pro Ile Phe Gly Thr Ala
1 5

<210> 528
<211> 13
<212> PRT
<213> Artificial Sequence

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

<400> 528
Ala Arg Glu Glu Val Ser Ser Pro Tyr Gly Met Asp Val
1 5 10

<210> 529

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 529

Thr Gly Ala Val Thr Ser Gly His Tyr
1 5

<210> 530

<211> 3

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 530

Asp Thr Gly
1

<210> 531

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 531

Leu Leu Ser Tyr Ser Gly Ala Ser Trp Val
1 5 10

<210> 532

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 532

Gly Gly Thr Phe Ser Ser Ser Ala
1 5

<210> 533

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 533

Ile Ile Pro Ile Tyr Gly Ile Thr
1 5

<210> 534
 <211> 22
 <212> PRT
 <213> Artificial Sequence

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

<400> 534
 Ala Arg Asp Asp Thr Ala Arg Arg Val Arg Gly Val Pro Tyr Tyr Tyr
 1 5 10 15

Tyr Tyr Ala Met Asp Val
 20

<210> 535
 <211> 6
 <212> PRT
 <213> Artificial Sequence

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

<400> 535
 Gln Gly Ile Gly Asn Tyr
 1 5

<210> 536
 <211> 3
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 <213> Artificial Sequence

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

<400> 536
 Ser Ala Ser
 1

<210> 537
 <211> 9
 <212> PRT
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<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 537
 Gln Gln Leu Lys Asp Tyr Pro Ile Thr
 1 5

<210> 538
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 538

Gly Phe Ser Leu Ser His Phe Ser
1 5

<210> 539

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 539

Phe Asp Pro Glu Glu Gly Gly Thr
1 5

<210> 540

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 540

Ala Thr Gly Ile Trp Tyr Ser Ser Gly Trp Pro Val Asp Tyr
1 5 10

<210> 541

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 541

Gln Ser Leu Leu Asp Ser Ser Gly Tyr Asn Tyr
1 5 10

<210> 542

<211> 3

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 542

Leu Gly Ser
1

<210> 543

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 543

Met Gln Ala Leu Gln Thr Pro Ile Thr
1 5

<210> 544

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 544

Gly Tyr Thr Leu Thr Glu Leu Ser
1 5

<210> 545

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 545

Phe Asp Pro Glu Asp Gly Glu Thr
1 5

<210> 546

<211> 18

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 546

Ala Thr Val Ser Arg Val Arg Gly Val Ile Asn Tyr Tyr Tyr Tyr Met
1 5 10 15

Asp Val

<210> 547

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 547

Gln Ser Leu Leu Tyr Arg Asn Gly Asn Asn Tyr
1 5 10

<210> 548
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<220>
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<400> 548
 Leu Gly Ser
 1

<210> 549
 <211> 9
 <212> PRT
 <213> Artificial Sequence

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

<400> 549
 Met Gln Ala Leu Gln Thr Pro Pro Thr
 1 5

<210> 550
 <211> 8
 <212> PRT
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<220>
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<400> 550
 Gly Gly Thr Phe Ser Ser Ser Ala
 1 5

<210> 551
 <211> 8
 <212> PRT
 <213> Artificial Sequence

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

<400> 551
 Ile Ile Pro Ile Tyr Gly Ile Thr
 1 5

<210> 552
 <211> 22
 <212> PRT
 <213> Artificial Sequence

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

<400> 552

Ala Arg Asp Asp Thr Ala Arg Arg Val Arg Gly Val Pro Tyr Tyr Tyr
 1 5 10 15

Tyr Tyr Ala Met Asp Val
 20

<210> 553
 <211> 6
 <212> PRT
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<220>
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<400> 553
 Gln Ser Val Asp Ser Ser
 1 5

<210> 554
 <211> 3
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 554
 Asp Ala Ser
 1

<210> 555
 <211> 9
 <212> PRT
 <213> Artificial Sequence

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

<400> 555
 Gln Gln Tyr Lys Asp Trp Pro Phe Thr
 1 5

<210> 556
 <211> 8
 <212> PRT
 <213> Artificial Sequence

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

<400> 556
 Gly Gly Thr Phe Gly Thr Tyr Ala
 1 5

<210> 557
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 557

Ile Thr Pro Ile Ser Ala Thr Ile
1 5

<210> 558

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 558

Ala Arg Gly Phe Glu Tyr Ser Asp Gly Leu Leu Asp Asp
1 5 10

<210> 559

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 559

Gln Ser Leu Phe Tyr Ser Asp Asp Gly Asn Thr Tyr
1 5 10

<210> 560

<211> 3

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 560

Arg Leu Ser
1

<210> 561

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 561

Met Gln His Met Glu Phe Pro Leu Thr
1 5

<210> 562

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 562

Gly Gly Ser Ile Ser Ser Ser Tyr Tyr
1 5 10

<210> 563

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 563

Ile Tyr Tyr Ser Gly Ser Thr
1 5

<210> 564

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 564

Ala Arg Gly Ala Trp Glu Leu Arg Leu Gly Asp Trp Phe Asp Pro
1 5 10 15

<210> 565

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 565

Ser Ser Asn Ile Gly Ala Gly Tyr Asp
1 5

<210> 566

<211> 3

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 566

Gly Asn Asn
1

<210> 567

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 567

Gln Ser Tyr Asp Ser Ser Leu Ser Ile Tyr Val Val
1 5 10

<210> 568

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 568

Ser Gly Ser Ile Ser Ser Thr Asn Trp
1 5

<210> 569

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 569

Ile Tyr His Ser Gly Ser Thr
1 5

<210> 570

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 570

Ala Arg Val Gly Pro Ala Ala Ile Tyr Tyr
1 5 10

<210> 571

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 571

Ser Asn Asn Val Gly Tyr Glu Gly
1 5

<210> 572
 <211> 3
 <212> PRT
 <213> Artificial Sequence

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

<400> 572
 Arg Asn Asn
 1

<210> 573
 <211> 11
 <212> PRT
 <213> Artificial Sequence

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

<400> 573
 Ser Ala Trp Asp Ser Ser Leu Asn Ala Val Val
 1 5 10

<210> 574
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 574
 Gly Tyr Thr Leu Thr Glu Leu Ser
 1 5

<210> 575
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 575
 Phe Asp Pro Glu Asp Gly Glu Thr
 1 5

<210> 576
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 576

Ala Thr Ala Lys Pro Gly Ile Ala Val Ala Gly Gln Asn Tyr Tyr Tyr
 1 5 10 15

Tyr Tyr Met Asp Val
 20

<210> 577
 <211> 11
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 577
 Gln Ser Leu Leu Tyr Arg Asn Gly Asn Asn Tyr
 1 5 10

<210> 578
 <211> 3
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 578
 Leu Gly Ser
 1

<210> 579
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 579
 Met Gln Ala Leu Gln Thr Pro Pro Thr
 1 5

<210> 580
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 580
 Gly Phe Thr Phe Ser Ser Tyr Ala
 1 5

<210> 581
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 581

Ile Ser Tyr Asp Gly Ser Asn Lys
1 5

<210> 582

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 582

Ala Ser Ser Pro Ile Gly Tyr Ser Tyr Gly Tyr Trp Gly Gly Met Asp
1 5 10 15

val

<210> 583

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 583

Ser Gly Ile Asp val Arg Thr Asn Lys
1 5

<210> 584

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 584

Phe Gln Ser Asp Ser Asp Lys
1 5

<210> 585

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 585

Leu Ile Trp His Thr Ser Gly Trp val
1 5

<210> 586
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 586
 Gly Tyr Thr Leu Thr Glu Leu Ser
 1 5

<210> 587
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 587
 Phe Asp Pro Glu Asp Gly Glu Thr
 1 5

<210> 588
 <211> 17
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 588
 Ala Thr Gly Pro Ala Ala Ala Gly Val Gly Tyr Tyr Tyr Tyr Met Asp
 1 5 10 15

val

<210> 589
 <211> 11
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 589
 Gln Ser Leu Leu Tyr Arg Asn Gly Tyr Asn Tyr
 1 5 10

<210> 590
 <211> 3
 <212> PRT
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<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 590
Leu Gly Ser
1

<210> 591
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 591
Met Gln Ala Leu Gln Thr Pro Pro Thr
1 5

<210> 592
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 592
Gly Phe Thr Phe Ser Ser Tyr Ala
1 5

<210> 593
<211> 8
<212> PRT
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<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 593
Ile Ser Tyr Asp Gly Ser Asn Lys
1 5

<210> 594
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 594
Ala Arg Asp Val Met Val Tyr Cys Ser Ser Thr Ser Cys Tyr Phe Tyr
1 5 10 15

Gly Met Asp Val
20

<210> 595
 <211> 6
 <212> PRT
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<220>
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<400> 595
 Gln Asp Ile Arg Asp Tyr
 1 5

<210> 596
 <211> 3
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 596
 Asp Ala Ser
 1

<210> 597
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 597
 Gln Gln Phe Glu Asn Leu Pro Ile Thr
 1 5

<210> 598
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 598
 Gly Tyr Thr Leu Thr Glu Leu Ser
 1 5

<210> 599
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 599
 Phe Asp Pro Glu Asp Gly Glu Thr
 1 5

<210> 600
 <211> 18
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 600
 Ala Thr Gly Gly Tyr Ser Ser Gly Phe Asn Tyr Tyr Tyr Tyr Tyr Met
 1 5 10 15

Asp Val

<210> 601
 <211> 11
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 601
 Gln Ser Leu Leu Tyr Arg Asn Gly Asn Asn Tyr
 1 5 10

<210> 602
 <211> 3
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 602
 Leu Gly Ser
 1

<210> 603
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 603
 Met Gln Ala Leu Gln Thr Pro Pro Thr
 1 5

<210> 604
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 604

Gly Tyr Thr Leu Thr Glu Leu Ser
1 5

<210> 605

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 605

Phe Asp Pro Glu Asp Gly Glu Thr
1 5

<210> 606

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 606

Ala Thr Gly Val Thr Thr Tyr Tyr Tyr Tyr Gly Met Asp Val
1 5 10

<210> 607

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 607

Gln Ser Leu Leu Tyr Ser Asn Gly Asn Asn Phe
1 5 10

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Leu Gly Ser
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<210> 609

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 609

Met Gln Ala Leu Gln Thr Pro Pro Thr
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<210> 610

<211> 8

<212> PRT

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<220>

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Gly Phe Thr Phe Ser Ser Tyr Gly
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<210> 611

<211> 8

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Ile Arg Tyr Asp Gly Ser Asn Lys
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<210> 612

<211> 14

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<220>

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Ala Arg Asp Leu Phe Asp Phe Trp Trp Asp Gly Met Asp Val
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<210> 613

<211> 7

<212> PRT

<213> Artificial Sequence

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Gln Ser Val Ser Ser Met Tyr
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Gly Ala Ser

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<210> 615

<211> 10

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 615

Gln Gln Tyr Val Ser Ser Pro Met Tyr Thr

1

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<210> 616

<211> 8

<212> PRT

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Gly Gly Thr Phe Ser Ser Ser Ala

1

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<210> 617

<211> 8

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 617

Ile Ile Pro Ile Tyr Gly Ile Thr

1

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<210> 618

<211> 22

<212> PRT

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<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 618

Ala Arg Asp Asp Thr Ala Arg Arg Val Arg Gly Val Pro Tyr Tyr Tyr

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Tyr Tyr Ala Met Asp Val
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<210> 619
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<212> PRT
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<220>
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Gln Ser Val ser ser Tyr
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<210> 620
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<220>
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Asp Ala Ser
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<210> 621
<211> 9
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<220>
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<400> 621
Gln Gln Tyr Asp Asp Trp Pro Gln Thr
1 5

<210> 622
<211> 8
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<220>
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Gly Gly Thr Phe Asn Asn Tyr Gly
1 5

<210> 623
<211> 8
<212> PRT
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Ile Ile Pro Leu Phe Gly Thr Thr
1 5

<210> 624
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<220>
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Ala Arg Asp Arg Met Ala Ala Asp Gly Met Ala Val Phe Asp Tyr
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<210> 625
<211> 8
<212> PRT
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Ser Ser Asn Ile Gly Arg His Phe
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<210> 627
<211> 11
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<220>
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Ser Ser Trp Asp Ala Ala Leu Asn Gly Val Val
1 5 10

<210> 628
<211> 8
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<220>

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Gly Tyr Thr Leu Thr Glu Leu Ser
1 5

<210> 629

<211> 8

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<400> 629

Phe Asp Pro Glu Asp Gly Glu Thr
1 5

<210> 630

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

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Ala Thr Glu Val Pro Met Val Arg Gly Ala Arg Arg Tyr Tyr Tyr Tyr
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Met Asp Val

<210> 631

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 631

Gln Thr Leu Leu Tyr Ile Asn Glu Asn Asn Tyr
1 5 10

<210> 632

<211> 3

<212> PRT

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<220>

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<400> 632

Leu Gly Ser
1

<210> 633

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 633

Met Gln Gly Leu Gln Thr Pro Pro Thr

1

5

<210> 634

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

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Gly Gly Ser Ile Ser Asn Ser Asn Tyr Tyr

1

5

10

<210> 635

<211> 7

<212> PRT

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 635

Ile Tyr Tyr Ser Gly Ser Thr

1

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<210> 636

<211> 15

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 636

Ala Arg Gly Ala Trp Glu Leu Ser Leu Gly Asp Trp Phe Asp Pro

1

5

10

15

<210> 637

<211> 9

<212> PRT

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<223> Description of Artificial Sequence: Synthetic peptide

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Ser Ser Asn Ile Gly Ala Gly Tyr Asp

1

5

<210> 638
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<220>
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 Gly Asn Asn
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<210> 639
 <211> 12
 <212> PRT
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<220>
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 Gln Ser Tyr Asp Ser Ser Leu Ser Val Tyr Val Val
 1 5 10

<210> 640
 <211> 8
 <212> PRT
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<220>
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 Gly Gly Thr Phe Ser Ser Ser Ala
 1 5

<210> 641
 <211> 8
 <212> PRT
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<220>
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<400> 641
 Ile Ile Pro Ile Tyr Gly Ile Thr
 1 5

<210> 642
 <211> 22
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<220>
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<400> 642

Ala Arg Asp Asp Thr Ala Arg Arg Val Arg Gly Val Pro Tyr Tyr Tyr
 1 5 10 15

Tyr Tyr Ala Met Asp Val
 20

<210> 643
 <211> 6
 <212> PRT
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<400> 643
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 1 5

<210> 644
 <211> 3
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<400> 644
 Asp Thr Phe
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<210> 645
 <211> 9
 <212> PRT
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<220>
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<400> 645
 Gln Gln Arg Arg Asp Trp Pro Ile Thr
 1 5

<210> 646
 <211> 8
 <212> PRT
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 Gly Phe Thr Phe Gly Thr Ser Ser
 1 5

<210> 647
 <211> 8
 <212> PRT
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<400> 647

Ile Ser Phe Asp Gly Thr Glu Ile
1 5

<210> 648

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 648

Ala Lys Gly Ser Gly Asn Ile Tyr Phe Tyr Ser Gly Met Asp Val
1 5 10 15

<210> 649

<211> 6

<212> PRT

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<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 649

Gln Ser Ile Ser Gly Trp
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<210> 650

<211> 3

<212> PRT

<213> Artificial Sequence

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<400> 650

Glu Thr Ser
1

<210> 651

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 651

Gln Gln Tyr Tyr Ser Tyr Pro Leu Thr
1 5

<210> 652

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 652

Gly Tyr Thr Leu Thr Glu Leu Ser
1 5

<210> 653

<211> 8

<212> PRT

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<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 653

Phe Asp Pro Glu Asp Gly Glu Thr
1 5

<210> 654

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 654

Ala Thr Gly Val Pro Ala Ala Ile Gly Val Tyr Tyr Tyr Tyr Tyr Tyr
1 5 10 15

Met Asp Val

<210> 655

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 655

Gln Ser Leu Leu Tyr Ser Asn Gly Tyr Asn Tyr
1 5 10

<210> 656

<211> 3

<212> PRT

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<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 656

Leu Gly Ser
1

<210> 657
<211> 9
<212> PRT
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<220>
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<400> 657
Met Gln Ala Leu Gln Ser Pro Val Thr
1 5

<210> 658
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
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<400> 658
Gly Tyr Thr Leu Thr Glu Leu Ser
1 5

<210> 659
<211> 8
<212> PRT
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<220>
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<400> 659
Phe Asp Pro Glu Asp Gly Glu Thr
1 5

<210> 660
<211> 20
<212> PRT
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<220>
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<400> 660
Ala Thr Asp Ser Arg Asp Gly Pro Ala Ala Arg Gly Gly Tyr Tyr Tyr
1 5 10 15

Tyr Met Asp Val
20

<210> 661
<211> 11
<212> PRT
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<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 661
Gln Ser Leu Leu Tyr Ile Asn Gly Tyr Asn Tyr
1 5 10

<210> 662
<211> 3
<212> PRT
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<220>
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<400> 662
Leu Gly Ser
1

<210> 663
<211> 9
<212> PRT
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<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 663
Met Gln Ala Leu Gln Thr Pro Pro Thr
1 5

<210> 664
<211> 8
<212> PRT
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<400> 664
Gly Gly Thr Phe Ser Ser Tyr Ala
1 5

<210> 665
<211> 8
<212> PRT
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<400> 665
Ile Ile Pro Ile Phe Gly Thr Ala
1 5

<210> 666
<211> 20

<212> PRT

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<400> 666

Ala Arg Asp Ala Tyr Tyr Tyr Asp Ser Ser Gly Tyr Tyr Asn Pro Asp
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<210> 667

<211> 11

<212> PRT

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<400> 667

Gln Ser Leu Leu His Ser Asn Gly Tyr Asn Tyr
1 5 10

<210> 668

<211> 3

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 668

Leu Gly Ser
1

<210> 669

<211> 9

<212> PRT

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<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 669

Met Gln Gly Leu Gln Thr Pro Arg Thr
1 5

<210> 670

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 670

Gly Phe Ser Leu Thr Ser Gly Gly Met Ser
 1 5 10

<210> 671
 <211> 7
 <212> PRT
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<220>
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<400> 671
 Ile Asp Trp Asn Asp Asp Lys
 1 5

<210> 672
 <211> 12
 <212> PRT
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<220>
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<400> 672
 Ala Arg Ile Arg Gly Met Thr Trp Gly Phe Asp Ser
 1 5 10

<210> 673
 <211> 7
 <212> PRT
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<220>
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<400> 673
 Gln Ser Val Ser Ser Ser Tyr
 1 5

<210> 674
 <211> 3
 <212> PRT
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<220>
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<400> 674
 Gly Ala Ser
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<210> 675
 <211> 9
 <212> PRT
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<220>
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<400> 675

Gln Gln Tyr Gly Thr Thr Pro Phe Ala
1 5

<210> 676

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 676

Gly Tyr Thr Phe Thr Ala Tyr Tyr
1 5

<210> 677

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 677

Ile Asn Pro Asn Ser Gly Gly Thr
1 5

<210> 678

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 678

Ala Arg Asp Gly Ala Phe Tyr Tyr Gly Ser Glu Asn Tyr Tyr Asn Ala
1 5 10 15Gly Trp Phe Asp Pro
20

<210> 679

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 679

Gln Ser Leu Leu Ser Gly Asn Gly Tyr Asn Tyr
1 5 10

<210> 680

<211> 3

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 680

Leu Gly Ser

1

<210> 681

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 681

Met Gln Ala Leu Lys Ser Pro Leu Thr

1

5

<210> 682

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 682

Gly Tyr Thr Phe Thr Asn Tyr Tyr

1

5

<210> 683

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 683

Ile Asn Pro Ser Gly Gly Ile Thr

1

5

<210> 684

<211> 18

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 684

Ala Arg Ala Gly Leu Gly Tyr Asn Trp Asn Tyr Ala Pro Ser Gly Met

1

5

10

15

Asp Val

<210> 685
 <211> 9
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<220>
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<400> 685
 Ser Ser Asp Val Gly Gly Tyr Asn Tyr
 1 5

<210> 686
 <211> 3
 <212> PRT
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<220>
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<400> 686
 Glu Val Ser
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<210> 687
 <211> 10
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 687
 Ser Ser Tyr Ala Gly Ser Asn Asn Leu Val
 1 5 10

<210> 688
 <211> 10
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 688
 Gly Gly Ser Ile Ser Ser Ser Ser Tyr Tyr
 1 5 10

<210> 689
 <211> 7
 <212> PRT
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<220>
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<400> 689
 Ile Tyr Tyr Ser Gly Ser Thr
 1 5

<210> 690
 <211> 15
 <212> PRT
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<220>
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 peptide

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 Ala Arg Gly Ala Trp Glu Leu Arg Leu Gly Asp Trp Phe Asp Pro
 1 5 10 15

<210> 691
 <211> 9
 <212> PRT
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<220>
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 peptide

<400> 691
 Ser Ser Asn Ile Gly Ala Gly Tyr Asp
 1 5

<210> 692
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<220>
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 peptide

<400> 692
 Gly Tyr Ser
 1

<210> 693
 <211> 12
 <212> PRT
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<220>
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 peptide

<400> 693
 Gln Ser Tyr Asp Ser Ser Leu Ser Val Tyr Val Val
 1 5 10

<210> 694
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<220>

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<400> 694

Gly Phe Thr Phe Asp Asp Tyr Ala
1 5

<210> 695

<211> 8

<212> PRT

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<400> 695

Ile Ser Trp Asn Ser Gly Ser Ile
1 5

<210> 696

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

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<400> 696

Ala Lys Asp Val Asn Arg Ile Leu Val Ala Gly Met Val Asp Tyr
1 5 10 15

<210> 697

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 697

Gln Ser Leu Leu His Ser Asn Gly Tyr Asn Tyr
1 5 10

<210> 698

<211> 3

<212> PRT

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<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 698

Leu Gly Ser
1

<210> 699

<211> 9

<212> PRT

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<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 699

Met Gln Gly Leu Gln Thr Pro Ile Thr
1 5

<210> 700

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

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<400> 700

Arg Phe Thr Phe Glu Asp Tyr Ala
1 5

<210> 701

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 701

Ile Ser Trp Lys Ser Gly Gly Ile
1 5

<210> 702

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 702

Val Lys Asp Pro Thr Leu Val Ala Thr Asp Arg Ala Phe Asn Ile
1 5 10 15

<210> 703

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 703

Gln Ser Leu Leu His Ser Asn Gly Tyr Asn Tyr
1 5 10

<210> 704

<211> 3

<212> PRT
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<220>
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<400> 704
 Leu Gly Ser
 1

<210> 705
 <211> 9
 <212> PRT
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<220>
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<400> 705
 Met Gln Tyr Leu Gln Thr Pro Asp Thr
 1 5

<210> 706
 <211> 8
 <212> PRT
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<400> 706
 Gly Gly Thr Phe Ser Ser Ser Ala
 1 5

<210> 707
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<400> 707
 Ile Ile Pro Ile Tyr Gly Ile Thr
 1 5

<210> 708
 <211> 22
 <212> PRT
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<220>
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 1 5 10 15

Tyr Tyr Ala Met Asp Val
20

<210> 709
<211> 12
<212> PRT
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<220>
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<400> 709
Gln Ser Leu Leu Asp Ser Asp Asp Gly Asn Ile His
1 5 10

<210> 710
<211> 3
<212> PRT
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Thr Leu Ser
1

<210> 711
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<400> 711
Met Gln Arg Lys Glu Phe Pro Leu Thr
1 5

<210> 712
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Gly Phe Thr Phe Ser Ser Tyr Gly
1 5

<210> 713
<211> 8
<212> PRT
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<400> 713
Ile Ser Tyr Asp Gly Ser Asn Lys
1 5

<210> 714
<211> 18
<212> PRT
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peptide

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Ala Lys Glu Asp Arg Leu Arg Phe Leu Glu Trp Leu Phe Tyr Gly Met
1 5 10 15

Asp Val

<210> 715
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<212> PRT
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<220>
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peptide

<400> 715
His Asp Ile Tyr Thr Tyr
1 5

<210> 716
<211> 3
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<213> Artificial Sequence

<220>
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peptide

<400> 716
Asp Ala Ser
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<210> 717
<211> 11
<212> PRT
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<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 717
Gln Gln Tyr Asp Asn His Pro Pro Glu Val Thr
1 5 10

<210> 718
<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 718

Gly Gly Thr Phe Ser Ser Ser Ala
1 5

<210> 719

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 719

Ile Ile Pro Ile Tyr Gly Ile Thr
1 5

<210> 720

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 720

Ala Arg Asp Asp Thr Ala Arg Arg Val Arg Gly Val Pro Tyr Tyr Tyr
1 5 10 15Tyr Tyr Ala Met Asp Val
20

<210> 721

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 721

Gln Asp Ile Asp Asp Asp
1 5

<210> 722

<211> 3

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 722

Glu Ala Ser
1

<210> 723
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
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<400> 723
Leu Gln His Asp Asn Leu Pro Leu Thr
1 5

<210> 724
<211> 8
<212> PRT
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<220>
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<400> 724
Gly Tyr Thr Leu Thr Glu Leu Ser
1 5

<210> 725
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
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<400> 725
Phe Asp Pro Glu Asp Gly Glu Thr
1 5

<210> 726
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
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<400> 726
Ala Thr Glu Asp Pro Gly Pro Val Ala Gly Pro Tyr Tyr Tyr Tyr Gly
1 5 10 15

Met Asp Val

<210> 727
<211> 11
<212> PRT
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<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 727

Gln Ser Leu Leu Tyr Ile Asn Gly Tyr His Tyr
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<210> 728

<211> 3

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 728

Leu Gly Ser
1

<210> 729

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 729

Met Gln Ala Leu Gln Thr Pro Pro Thr
1 5

<210> 730

<211> 8

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic peptide

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Gly Tyr Met Phe Thr Asn Tyr Pro
1 5

<210> 731

<211> 8

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 731

Ile Asn Ala Gly Thr Gly Asn Thr
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<210> 732

<211> 21

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<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 732

Ala Arg Glu Gly Met Phe Tyr Tyr Gly Leu Glu Ser Tyr Tyr Lys Gly
1 5 10 15Gly Trp Phe Asp Pro
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<210> 733

<211> 11

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 733

Gln Ser Leu Leu His Arg Asn Gly Tyr Asn Tyr
1 5 10

<210> 734

<211> 3

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 734

Leu Ala Ser
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<210> 735

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 735

Met Gln Ala Leu Gln Thr Pro Leu Thr
1 5

<210> 736

<211> 8

<212> PRT

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<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 736

Gly Gly Thr Phe Ser Ser Ser Ala
1 5

<210> 737
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
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Ile Ile Pro Ile Tyr Gly Ile Thr
1 5

<210> 738
<211> 22
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<213> Artificial Sequence

<220>
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Ala Arg Asp Asp Thr Ala Arg Arg Val Arg Gly Val Pro Tyr Tyr Tyr
1 5 10 15

Tyr Tyr Ala Met Asp Val
20

<210> 739
<211> 12
<212> PRT
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<220>
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Gln Ser Leu Leu Asp Ser Asp Asp Gly Asn Thr Tyr
1 5 10

<210> 740
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<220>
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Thr Leu Ser
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<210> 741
<211> 9
<212> PRT
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<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 741

Met Gln Arg Leu Gln Phe Pro Leu Thr
1 5

<210> 742

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 742

Thr Tyr Thr Phe Thr Thr Tyr Tyr
1 5

<210> 743

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 743

Ile Tyr Pro Ser Gly Gly Asn Thr
1 5

<210> 744

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 744

Val Arg Asp Gln Asn Tyr Tyr Tyr Ser Ala Met Asp Val
1 5 10

<210> 745

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 745

Gln Asp Ile Arg Asn Tyr
1 5

<210> 746

<211> 3

<212> PRT

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<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 746

Asp Ala Ser

1

<210> 747

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 747

Gln Gln Phe Glu Asn Leu Pro Ile Thr

1

5

<210> 748

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 748

Gly Gly Thr Phe Ser Ser Ser Ala

1

5

<210> 749

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 749

Ile Ile Pro Ile Tyr Gly Ile Thr

1

5

<210> 750

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 750

Ala Arg Asp Asp Thr Ala Arg Arg Val Arg Gly Val Pro Tyr Tyr Tyr

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5

10

15

Tyr Tyr Ala Met Asp Val
20

<210> 751
<211> 6
<212> PRT
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<220>
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<400> 751
Arg Asp Ile Ser Asp Ser
1 5

<210> 752
<211> 3
<212> PRT
<213> Artificial Sequence

<220>
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<400> 752
Asp Ala Ser
1

<210> 753
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 753
His Gln Tyr Asp Asn Leu Pro Leu Thr
1 5

<210> 754
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 754
Gly Phe Asn Phe Arg Gly Tyr Ala
1 5

<210> 755
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 755
 Ile Ser Gly Ser Gly Gly Thr Thr
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<210> 756
 <211> 15
 <212> PRT
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<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 756
 Ala Gln Ser Tyr Ala Gln Ile Gly Tyr Gly Gly His Ile Asp His
 1 5 10 15

<210> 757
 <211> 9
 <212> PRT
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<220>
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<400> 757
 Ser Gly Ile Asp Val Ala Thr Tyr Met
 1 5

<210> 758
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 <212> PRT
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<220>
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<400> 758
 Tyr Lys Ser Asp Ser Asp Lys
 1 5

<210> 759
 <211> 9
 <212> PRT
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<220>
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<400> 759
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<210> 760
 <211> 8
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<400> 760

Gly Tyr Thr Leu Thr Glu Leu Ser
1 5

<210> 761

<211> 8

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<400> 761

Phe Asp Pro Glu Asp Gly Glu Thr
1 5

<210> 762

<211> 19

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 762

Ala Thr Gly Val Pro Ala Ala Ile Gly Val Tyr Tyr Tyr Tyr Tyr Tyr
1 5 10 15

Met Asp Val

<210> 763

<211> 11

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 763

Gln Ser Leu Leu Tyr Arg Asn Gly Tyr Asn Tyr
1 5 10

<210> 764

<211> 3

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<400> 764

Trp Gly Ser
1

<210> 765

<211> 9

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<400> 765

Met Gln Ala Val Gln Asn Pro Pro Thr
1 5

<210> 766

<211> 8

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 766

Gly Gly Thr Phe Ser Ser Ser Ala
1 5

<210> 767

<211> 8

<212> PRT

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 767

Ile Ile Pro Ile Tyr Gly Ile Thr
1 5

<210> 768

<211> 22

<212> PRT

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<400> 768

Ala Arg Asp Asp Thr Ala Arg Arg Val Arg Gly Val Pro Tyr Tyr Tyr
1 5 10 15Tyr Tyr Ala Met Asp Val
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<210> 769

<211> 6

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 769
Gln Asn Ile Asp Ser Ser
1 5

<210> 770
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<220>
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<400> 770
Tyr Ala Ser
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<210> 771
<211> 9
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<400> 771
His Gln Ser Ser Ser Leu Pro Leu Thr
1 5

<210> 772
<211> 8
<212> PRT
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<400> 772
Gly Gly Thr Phe Ser Ser Ser Ala
1 5

<210> 773
<211> 8
<212> PRT
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<220>
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<400> 773
Ile Ile Pro Ile Tyr Gly Ile Thr
1 5

<210> 774
<211> 22
<212> PRT
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<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 774

Ala Arg Asp Asp Thr Ala Arg Arg Val Arg Gly Val Pro Tyr Tyr Tyr
1 5 10 15

Tyr Tyr Ala Met Asp Val
20

<210> 775

<211> 7

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<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 775

Gln Ser Val Tyr Asn Asn Tyr
1 5

<210> 776

<211> 3

<212> PRT

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<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 776

Asp Ala Ser
1

<210> 777

<211> 10

<212> PRT

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<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 777

Gln Gln Tyr Asn Ser Trp Pro Pro Tyr Thr
1 5 10

<210> 778

<211> 8

<212> PRT

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<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 778

Gly Gly Thr Phe Ser Ser Tyr Ala
1 5

<210> 779

<211> 8

<212> PRT

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 779

Ile Ile Pro Ile Phe Gly Thr Ala
1 5

<210> 780

<211> 20

<212> PRT

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 780

Ala Arg Asp Ala Tyr Tyr Tyr Asp Ser Ser Gly Tyr Tyr Asn Pro Asp
1 5 10 15Ala Phe Asp Ile
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<210> 781

<211> 11

<212> PRT

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 781

Gln Ser Leu Leu Tyr Ser Asn Gly Tyr Asn Tyr
1 5 10

<210> 782

<211> 3

<212> PRT

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<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 782

Leu Gly Ser
1

<210> 783

<211> 9

<212> PRT

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<400> 783
Met Gln Ala Arg Gln Thr Pro Tyr Thr
1 5

<210> 784
<211> 8
<212> PRT
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<400> 784
Gly Gly Thr Phe Ser Ser Ser Ala
1 5

<210> 785
<211> 8
<212> PRT
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<400> 785
Ile Ile Pro Ile Tyr Gly Ile Thr
1 5

<210> 786
<211> 22
<212> PRT
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<220>
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<400> 786
Ala Arg Asp Asp Thr Ala Arg Arg Val Arg Gly Val Pro Tyr Tyr Tyr
1 5 10 15

Tyr Tyr Ala Met Asp Val
20

<210> 787
<211> 6
<212> PRT
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<220>
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<400> 787
Glu Ser Val Thr Thr Phe
1 5

<210> 788
<211> 3

<212> PRT
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<220>
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<400> 788
 Asp Ala Ser
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<210> 789
 <211> 9
 <212> PRT
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<220>
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<400> 789
 His Gln His Thr Asn Trp Pro Leu Thr
 1 5

<210> 790
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 790
 Gly Tyr Thr Leu Thr Glu Leu Ser
 1 5

<210> 791
 <211> 8
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 Phe Asp Pro Glu Asp Gly Glu Thr
 1 5

<210> 792
 <211> 22
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 1 5 10 15

Tyr Tyr Gly Met Asp Val
20

<210> 793
<211> 11
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<220>
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Gln Ser Leu Leu Tyr Arg Asn Gly His Asn Phe
1 5 10

<210> 794
<211> 3
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Leu Gly Ser
1

<210> 795
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Met Gln Ala Leu Gln Thr Pro Pro Thr
1 5

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Gly Gly Thr Phe Ser Ser Ser Ala
1 5

<210> 797
<211> 8
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Ile Ile Pro Ile Tyr Gly Ile Thr
1 5

<210> 798
<211> 22
<212> PRT
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peptide

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Ala Arg Asp Asp Thr Ala Arg Arg Val Arg Gly Val Pro Tyr Tyr Tyr
1 5 10 15

Tyr Tyr Ala Met Asp Val
20

<210> 799
<211> 6
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peptide

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1 5

<210> 800
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<220>
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peptide

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Asp Ala Ser
1

<210> 801
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<220>
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peptide

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Gln Gln Tyr Gly Asp Trp Leu Pro Ile Thr
1 5 10

<210> 802
<211> 8

<212> PRT

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<400> 802

Gly Tyr Thr Leu Thr Glu Leu Ser
1 5

<210> 803

<211> 8

<212> PRT

<213> Artificial Sequence

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<400> 803

Phe Asp Pro Glu Asp Gly Glu Thr
1 5

<210> 804

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 804

Ala Thr Ala Phe Pro Glu Ala Thr Ile Ser Tyr Tyr Tyr Tyr Met Asp
1 5 10 15

val

<210> 805

<211> 11

<212> PRT

<213> Artificial Sequence

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<400> 805

Gln Ser Leu Leu Tyr Arg Asn Gly Tyr Asn Tyr
1 5 10

<210> 806

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<400> 806

Trp Gly Ser
1

<210> 807
<211> 9
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<220>
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<400> 807
Met Gln Ala Val Gln Asn Pro Pro Thr
1 5

<210> 808
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<400> 808
Gly Gly Thr Phe Ser Ser Ser Ala
1 5

<210> 809
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<400> 809
Ile Ile Pro Ile Tyr Gly Ile Thr
1 5

<210> 810
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1 5 10 15

Tyr Tyr Ala Met Asp Val
20

<210> 811
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<400> 811

Arg Ser Leu Leu Asp Ser Asp Asp Gly Asn Thr His
1 5 10

<210> 812

<211> 3

<212> PRT

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 812

Ser Leu Ser
1

<210> 813

<211> 9

<212> PRT

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<400> 813

Met Gln Arg Lys Glu Phe Pro Leu Thr
1 5

<210> 814

<211> 8

<212> PRT

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<400> 814

Gly Gly Thr Phe Ser Ser Tyr Ala
1 5

<210> 815

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<212> PRT

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 815

Ile Ile Pro Ile Phe Gly Thr Ala
1 5

<210> 816

<211> 21

<212> PRT

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<400> 816

Ala Arg Gly Pro Trp Tyr Tyr Asp Ser Ser Gly Tyr Ser Ser Tyr Ala
1 5 10 15Tyr Tyr Met Asp Val
20

<210> 817

<211> 11

<212> PRT

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<400> 817

Gln Ser Leu Leu His Ser Asp Gly Tyr Asn Tyr
1 5 10

<210> 818

<211> 3

<212> PRT

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 818

Leu Gly Ser
1

<210> 819

<211> 10

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 819

Met Gln Ala Leu His Thr Pro Gly Val Thr
1 5 10

<210> 820

<211> 121

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 820

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Asp Val Gln Leu Val Glu Ser Gly Gly Asp Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Arg Lys Leu Ser Cys Thr Ala Ser Gly Phe Thr Phe Ser Asn Phe
20 25 30

Gly Met His Trp Val Arg Gln Ala Pro Glu Lys Gly Leu Glu Trp Val
35 40 45

Ala Tyr Ile Ser Ser Gly Ser Ser Thr Ile Tyr Tyr Ala Asp Thr Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Pro Glu Asn Thr Leu Phe
65 70 75 80

Leu Gln Met Thr Ser Leu Arg Ser Glu Asp Thr Ala Met Tyr Tyr Cys
85 90 95

Thr Arg Leu Asp Tyr Tyr Thr Asn Ser Tyr Ser Met Asp His Trp Gly
100 105 110

Gln Gly Thr Ser Val Thr Val Ser Ser
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<400> 821
Gly Phe Thr Phe Ser Asn Phe Gly
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<210> 822
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<400> 822
Ile Ser Ser Gly Ser Ser Thr Ile
1 5

<210> 823
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<400> 823

Thr Arg Leu Asp Tyr Tyr Thr Asn Ser Tyr Ser Met Asp His
 1 5 10

<210> 824

<211> 106

<212> PRT

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Glu Lys Val Thr Leu Thr Cys Ser Ala Ser Ser Ser Leu Pro Tyr Ile
 20 25 30

Tyr Trp Tyr Gln Gln Lys Pro Gly Ser Ser Pro Lys Pro Trp Ile Tyr
 35 40 45

Leu Thr Ser Asn Leu Ala Ser Gly Val Pro Ala Arg Phe Ser Gly Ser
 50 55 60

Arg Ser Gly Thr Ser Tyr Ser Leu Thr Ile Ser Ser Val Glu Ala Glu
 65 70 75 80

Asp Ala Ala Thr Tyr Tyr Cys Gln Gln Trp Ser Ser Asn Pro Phe Thr
 85 90 95

Phe Gly Ser Gly Thr Lys Leu Glu Ile Lys
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<210> 825

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<223> Description of Artificial Sequence: Synthetic peptide

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Ser Ser Leu Pro Tyr
 1 5

<210> 826

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 826

Leu Thr Ser
1

<210> 827
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<400> 827
Gln Gln Trp Ser Ser Asn Pro Phe Thr
1 5

<210> 828
<211> 117
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<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 828
Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Leu Ala Lys Pro Gly Ala
1 5 10 15

Ser Val Lys Met Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Asn
20 25 30

Trp Met His Trp Val Lys Gln Arg Pro Gly Gln Gly Leu Glu Trp Ile
35 40 45

Gly Tyr Ile Asn Pro Ser Asn Gly Tyr Thr Glu Cys Asn Gln Lys Phe
50 55 60

Arg Asp Lys Ala Thr Leu Ser Ala Asp Lys Ser Ser Ser Thr Ala Tyr
65 70 75 80

Met Gln Leu Asn Ser Leu Thr Ser Ala Asp Ser Ala Val Tyr Tyr Cys
85 90 95

Ala Leu Met Ile Ser Ala Trp Leu Pro Tyr Trp Gly Gln Gly Thr Leu
100 105 110

Val Thr Val Ser Ala
115

<210> 829
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 829

Gly Tyr Thr Phe Thr Ser Asn Trp
1 5

<210> 830

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 830

Ile Asn Pro Ser Asn Gly Tyr Thr
1 5

<210> 831

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 831

Ala Leu Met Ile Ser Ala Trp Leu Pro Tyr
1 5 10

<210> 832

<211> 111

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 832

Asp Ile Val Leu Thr Gln Ser Pro Ala Ser Leu Ala Ile Ser Leu Gly
1 5 10 15Gln Arg Ala Thr Ile Ser Cys Arg Ala Ser Gln Ser Val Ser Ala Ser
20 25 30Ser Tyr Ser Tyr Val His Trp Tyr Gln Gln Lys Pro Gly Gln Pro Pro
35 40 45Lys Leu Leu Ile Lys Tyr Ala Ser Ser Leu Glu Ser Gly Val Pro Ala
50 55 60Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Asn Ile His
65 70 75 80Pro Val Glu Glu Glu Asp Thr Ala Thr Tyr Tyr Cys Leu His Thr Trp
85 90 95

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Glu Ile Pro Tyr Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
 100 105 110

<210> 833
 <211> 10
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 833
 Gln Ser Val Ser Ala Ser Ser Tyr Ser Tyr
 1 5 10

<210> 834
 <211> 3
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 834
 Tyr Ala Ser
 1

<210> 835
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 835
 Leu His Thr Trp Glu Ile Pro Tyr Thr
 1 5

<210> 836
 <211> 116
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic polypeptide

<400> 836
 Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Leu Thr Arg Pro Gly Ala
 1 5 10 15

Ser Val Asn Leu Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr
 20 25 30

Trp Met Gln Trp Val Lys Gln Arg Pro Gly Gln Gly Leu Glu Trp Ile
 35 40 45

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Gly Ala Ile Tyr Pro Gly Asp Gly Asp Thr Arg Phe Asn Gln Lys Phe
50 55 60

Lys Gly Lys Ala Thr Leu Thr Ala Asp Glu Ser Ser Ser Thr Ala Tyr
65 70 75 80

Met Gln Leu Ser Ser Leu Ala Ser Glu Asp Ser Ala Val Tyr Tyr Cys
85 90 95

Ala Thr Tyr Tyr Arg Tyr Asp Asp Tyr Trp Gly Gln Gly Thr Thr Leu
100 105 110

Thr Val Ser Ser
115

<210> 837
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 837
Gly Tyr Thr Phe Thr Ser Tyr Trp
1 5

<210> 838
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 838
Ile Tyr Pro Gly Asp Gly Asp Thr
1 5

<210> 839
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 839
Ala Thr Tyr Tyr Arg Tyr Asp Asp Tyr
1 5

<210> 840
<211> 106
<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 840

Gln Ile Val Leu Thr Gln Ser Pro Ala Ile Met Ser Ala Ser Pro Gly
1 5 10 15

Glu Lys Val Thr Met Thr Cys Ser Ala Ser Ser Ser Val Ser Tyr Met
20 25 30

His Trp Tyr Gln Gln Lys Ser Gly Thr Ser Pro Lys Arg Trp Ile Tyr
35 40 45

Asp Thr Ser Lys Leu Ala Ser Gly Val Pro Thr Arg Phe Ser Gly Ser
50 55 60

Gly Ser Gly Thr Ser Tyr Ser Leu Thr Ile Ser Ser Met Glu Ala Glu
65 70 75 80

Asp Ala Ala Thr Tyr Tyr Cys Gln Gln Trp Ser Ser Asn Pro Tyr Thr
85 90 95

Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
100 105

<210> 841

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 841

Ser Ser Val Ser Tyr
1 5

<210> 842

<211> 3

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 842

Asp Thr Ser
1

<210> 843

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 843
 Gln Gln Trp Ser Ser Asn Pro Tyr Thr
 1 5

<210> 844
 <211> 122
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 polypeptide

<400> 844
 Glu Val Gln Leu Gln Gln Ser Gly Pro Asp Leu Val Lys Pro Gly Ala
 1 5 10 15

Ser Met Lys Ile Ser Cys Lys Ala Ser Gly Tyr Thr Phe Ile Asp Tyr
 20 25 30

Asn Ile His Trp Val Lys Gln Ser Gln Gly Lys Ser Leu Asp Trp Ile
 35 40 45

Gly Tyr Ile Tyr Pro Tyr Asn Gly Gly Thr Gly Tyr Asn Gln Lys Phe
 50 55 60

Lys Asn Lys Ala Thr Leu Thr Val Asp Ser Ser Ser Ser Thr Ala Tyr
 65 70 75 80

Met Glu Val Arg Ser Leu Thr Phe Glu Asp Ser Ala Val Tyr Phe Cys
 85 90 95

Ala Arg Glu Ala Asp Tyr Tyr Gly Asn Arg Gly Gln Phe Asp Tyr Trp
 100 105 110

Gly Gln Gly Thr Leu Val Thr Val Ser Ala
 115 120

<210> 845
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 845
 Gly Tyr Thr Phe Ile Asp Tyr Asn
 1 5

<210> 846
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 846

Ile Tyr Pro Tyr Asn Gly Gly Thr
1 5

<210> 847

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 847

Ala Arg Glu Ala Asp Tyr Tyr Gly Asn Arg Gly Gln Phe Asp Tyr
1 5 10 15

<210> 848

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 848

Asp Ile Gln Met Thr Gln Ser Pro Ala Ser Leu Ser Val Ser Val Gly
1 5 10 15

Glu Thr Val Thr Ile Thr Cys Arg Ala Ser Glu Asn Ile Phe Ser Asn
20 25 30

Leu Ala Trp Tyr Gln Gln Lys Gln Gly Lys Ser Pro Gln Leu Leu Val
35 40 45

Tyr Gly Glu Ala Asn Leu Ala Asp Gly Val Pro Ser Arg Phe Ser Gly
50 55 60

Ser Gly Ser Gly Thr Gln Tyr Ser Leu Lys Ile Asn Ser Leu Gln Ser
65 70 75 80

Glu Asp Phe Gly Asn Tyr Tyr Cys Gln His Phe Trp Gly Thr Pro Tyr
85 90 95

Thr Phe Gly Gly Gly Thr Thr Leu Glu Ile Lys
100 105

<210> 849

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 849
 Glu Asn Ile Phe Ser Asn
 1 5

<210> 850
 <211> 3
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 850
 Gly Glu Ala
 1

<210> 851
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 851
 Gln His Phe Trp Gly Thr Pro Tyr Thr
 1 5

<210> 852
 <211> 120
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic polypeptide

<400> 852
 Gln Val Thr Leu Lys Glu Ser Gly Pro Gly Ile Leu Gln Pro Ser Gln
 1 5 10 15

Thr Leu Ser Leu Thr Cys Ser Phe Ser Gly Phe Ser Leu Asn Thr Ser
 20 25 30

Gly Thr Gly Val Gly Trp Ile Arg Gln Pro Ser Gly Lys Gly Leu Glu
 35 40 45

Trp Leu Thr His Ile Trp Trp Asn Asp Asn Lys Phe Tyr Asn Thr Phe
 50 55 60

Leu Lys Ser Arg Leu Thr Ile Ser Lys Glu Thr Ser Asn Asn Gln Val
 65 70 75 80

Phe Leu Lys Ile Ala Ser Val Asp Thr Ala Asp Ala Ala Thr Tyr Tyr
 85 90 95

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 Cys Ala Arg Met Ala Tyr Gly Asn Leu Trp Phe Val Asn Trp Gly Gln
 100 105 110

Gly Thr Leu Val Ala Val Ser Thr
 115 120

<210> 853
 <211> 10
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 853
 Gly Phe Ser Leu Asn Thr Ser Gly Thr Gly
 1 5 10

<210> 854
 <211> 7
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 854
 Ile Trp Trp Asn Asp Asn Lys
 1 5

<210> 855
 <211> 12
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 855
 Ala Arg Met Ala Tyr Gly Asn Leu Trp Phe Val Asn
 1 5 10

<210> 856
 <211> 111
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic polypeptide

<400> 856
 Asp Ile Val Leu Thr Gln Ser Pro Ala Ser Leu Ala Val Ser Leu Gly
 1 5 10 15

Gln Arg Ala Ser Ile Ser Cys Arg Ala Ser Arg Ser Val Thr Ile Ser
 20 25 30

Gly Tyr Ser Tyr Met Tyr Trp Tyr Gln Gln Lys Pro Gly Gln Pro Pro
 35 40 45

Arg Leu Leu Phe Tyr Leu Ala Ser Asn Leu Ala Ser Gly Val Pro Ala
 50 55 60

Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Asn Ile His
 65 70 75 80

Pro Val Glu Glu Glu Asp Ala Ala Ile Tyr Tyr Cys Gln His Ser Arg
 85 90 95

Glu Leu Pro Tyr Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
 100 105 110

<210> 857

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 857

Arg Ser Val Thr Ile Ser Gly Tyr Ser Tyr
 1 5 10

<210> 858

<211> 3

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 858

Leu Ala Ser
 1

<210> 859

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 859

Gln His Ser Arg Glu Leu Pro Tyr Thr
 1 5

<210> 860

<211> 123

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 860

Gln Ile Gln Leu Val Gln Ser Gly Pro Glu Leu Lys Lys Pro Arg Glu
1 5 10 15

Thr Val Lys Ile Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asp Tyr
20 25 30

Ser Met His Trp Val Lys Gln Ala Pro Gly Lys Gly Leu Lys Trp Met
35 40 45

Gly Trp Ile Asn Thr Glu Thr Gly Glu Pro Thr Tyr Ala Asp Asp Phe
50 55 60

Lys Gly Arg Phe Ala Phe Ser Leu Glu Ala Ser Ala Ser Ser Ala Tyr
65 70 75 80

Leu Gln Ile Asn Ile Leu Lys Asp Glu Asp Thr Ala Thr Tyr Phe Cys
85 90 95

Ala Arg Ser Arg Gly Gly Tyr Tyr Glu Asp Tyr Tyr Ala Leu Asp Tyr
100 105 110

Trp Gly Gln Gly Thr Ser Val Thr Val Ser Ser
115 120

<210> 861

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 861

Gly Tyr Thr Phe Thr Asp Tyr Ser
1 5

<210> 862

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 862

Ile Asn Thr Glu Thr Gly Glu Pro
1 5

<210> 863

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 863

Ala Arg Ser Arg Gly Gly Tyr Tyr Glu Asp Tyr Tyr Ala Leu Asp Tyr
1 5 10 15

<210> 864

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 864

Asp Ile Gln Met Thr Gln Ser Pro Ala Ser Leu Ser Ala Ser Val Gly
1 5 10 15Glu Ser Val Thr Ile Thr Cys Arg Ala Ser Gly Asn Ile His Tyr Tyr
20 25 30Leu Ala Trp Tyr Gln Gln Lys Gln Gly Lys Ser Pro Gln Leu Leu Val
35 40 45Tyr Asn Ala Lys Asn Leu Ala Asp Gly Val Pro Ser Arg Phe Ser Gly
50 55 60Ser Gly Ser Gly Thr Gln Phe Ser Leu Lys Ile Asn Ser Leu Gln Pro
65 70 75 80Glu Asp Phe Gly Ser Tyr Tyr Cys Gln His Phe Trp Ile Ser Pro Pro
85 90 95Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
100 105

<210> 865

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 865

Gly Asn Ile His Tyr Tyr
1 5

<210> 866

<211> 3

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 866
Asn Ala Lys
1

<210> 867
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 867
Gln His Phe Trp Ile Ser Pro Pro Thr
1 5

<210> 868
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 868
Glu Val Gln Leu Arg Gln Ser Gly Ala Asp Leu Val Lys Pro Gly Ala
1 5 10 15

Ser Val Lys Leu Ser Cys Thr Ala Ser Gly Phe Asn Ile Lys Asp Thr
20 25 30

Tyr Ile Asp Trp Val Lys Gln Arg Pro Glu Gln Gly Leu Asp Trp Ile
35 40 45

Gly Arg Ile Asp Pro Ala Asn Gly Asn Thr Lys Tyr Asp Pro Lys Phe
50 55 60

Gln Gly Lys Ala Thr Ile Ile Thr Asp Thr Ser Ser Asn Thr Ala Tyr
65 70 75 80

Leu Gln Leu Ser Asn Leu Thr Ser Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Arg Tyr Gly Ser Tyr Pro Tyr Phe Asp Tyr Trp Gly Arg Gly Thr
100 105 110

Thr Leu Ala Val Ser Ser
115

<210> 869
<211> 8
<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 869

Gly Phe Asn Ile Lys Asp Thr Tyr
1 5

<210> 870

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 870

Ile Asp Pro Ala Asn Gly Asn Thr
1 5

<210> 871

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 871

Ala Arg Tyr Gly Ser Tyr Pro Tyr Phe Asp Tyr
1 5 10

<210> 872

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 872

Ser Ile Val Met Thr Gln Thr Pro Lys Phe Leu Leu Ile Ser Ala Gly
1 5 10 15Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Ser Val Arg Asn Asp
20 25 30Val Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Lys Leu Leu Met
35 40 45Tyr Tyr Ala Ser Asn Arg Tyr Thr Gly Val Pro Asp Arg Phe Thr Gly
50 55 60Ser Gly Tyr Gly Thr Asp Phe Thr Phe Thr Ile Ser Thr Val Gln Ala
65 70 75 80

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Glu Asp Leu Ala Val Tyr Phe Cys Gln Gln Asp Tyr Ser Ser Pro Pro
 85 90 95

Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
 100 105

<210> 873
 <211> 6
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 873
 Gln Ser Val Arg Asn Asp
 1 5

<210> 874
 <211> 3
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 874
 Tyr Ala Ser
 1

<210> 875
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 875
 Gln Gln Asp Tyr Ser Ser Pro Pro Thr
 1 5

<210> 876
 <211> 118
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic polypeptide

<400> 876
 Gln Val Gln Leu Gln Gln Ser Gly Pro Glu Leu Val Arg Pro Gly Val
 1 5 10 15

Ser Val Lys Ile Ser Cys Lys Val Ser Gly Tyr Thr Phe Thr Asp Tyr
 20 25 30

Val Met His Trp Val Lys Gln Ser His Ala Lys Ser Leu Glu Trp Ile
 35 40 45

Gly Ile Ile Ser Pro Tyr Ser Gly Asn Thr Asn Tyr Asn Gln Asn Phe
 50 55 60

Lys Gly Lys Ala Thr Met Thr Val Asp Lys Ser Ser Ser Thr Ala Tyr
 65 70 75 80

Met Ala Leu Ala Arg Leu Thr Ser Glu Asp Ser Ala Ile Tyr Tyr Cys
 85 90 95

Ala Arg Glu Gly Asp Leu Pro Met Phe Ala Tyr Trp Gly Gln Gly Thr
 100 105 110

Leu Val Thr Val Ser Ala
 115

<210> 877
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 877
 Gly Tyr Thr Phe Thr Asp Tyr Val
 1 5

<210> 878
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 878
 Ile Ser Pro Tyr Ser Gly Asn Thr
 1 5

<210> 879
 <211> 11
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 879
 Ala Arg Glu Gly Asp Leu Pro Met Phe Ala Tyr
 1 5 10

<210> 880
 <211> 106

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 880

Gln Ile Val Leu Thr Gln Ser Pro Thr Ile Met Ser Ala Ser Pro Gly
 1 5 10 15

Glu Lys Val Thr Met Thr Cys Ser Ala Ser Ser Ser Val Ser Tyr Ile
 20 25 30

Tyr Trp Tyr Gln Gln Asn Pro Gly Ser Ser Pro Arg Leu Leu Ile Tyr
 35 40 45

Asp Thr Ser Ile Leu Ala Ser Gly Val Pro Phe Arg Phe Ser Gly Ser
 50 55 60

Gly Ser Gly Thr Ser Tyr Ser Leu Thr Ile Ser Arg Met Glu Ala Glu
 65 70 75 80

Asp Ala Ala Thr Tyr Tyr Cys Gln Gln Trp Thr Ser Tyr Pro Leu Thr
 85 90 95

Phe Gly Ser Gly Thr Lys Leu Glu Leu Lys
 100 105

<210> 881

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 881

Ser Ser Val Ser Tyr
 1 5

<210> 882

<211> 3

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 882

Asp Thr Ser
 1

<210> 883

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 883

Gln Gln Trp Thr Ser Tyr Pro Leu Thr
1 5

<210> 884

<211> 120

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 884

Glu Val Gln Leu Gln Gln Ser Gly Pro Glu Leu Val Lys Pro Gly Ala
1 5 10 15Ser Val Lys Ile Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asp Tyr
20 25 30Asn Ile Asn Trp Val Lys Gln Ser His Gly Lys Ser Leu Glu Trp Ile
35 40 45Gly Tyr Ile Tyr Pro Tyr Ile Gly Gly Ser Gly Tyr Asn Gln Lys Phe
50 55 60Lys Ser Lys Ala Thr Leu Ser Ala Asp Asn Pro Ser Ser Thr Ala Tyr
65 70 75 80Met Glu Leu Arg Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr Tyr Cys
85 90 95Ala Arg Glu Asp Lys Thr Ala Arg Asn Ala Met Asp Tyr Trp Gly Gln
100 105 110Gly Thr Pro Val Thr Val Ser Ser
115 120

<210> 885

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 885

Gly Tyr Thr Phe Thr Asp Tyr Asn
1 5

<210> 886

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 886

Ile Tyr Pro Tyr Ile Gly Gly Ser
1 5

<210> 887

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 887

Ala Arg Glu Asp Lys Thr Ala Arg Asn Ala Met Asp Tyr
1 5 10

<210> 888

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 888

Asp Ile Gln Met Thr Gln Ser Pro Ala Ser Leu Ser Val Ser Val Gly
1 5 10 15Glu Thr Val Thr Ile Ile Cys Arg Val Ser Glu Asn Ile Tyr Ser Asn
20 25 30Leu Ala Trp Tyr Gln Gln Lys Gln Gly Lys Ser Pro Gln Leu Leu Val
35 40 45Tyr Glu Ala Thr Asn Leu Ala Glu Gly Val Pro Ser Arg Phe Ser Gly
50 55 60Ser Gly Ser Gly Thr Gln Tyr Ser Leu Lys Ile Asn Ser Leu Gln Ser
65 70 75 80Glu Asp Phe Gly Ser Tyr Tyr Cys Gln His Phe Trp Gly Thr Pro Tyr
85 90 95Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
100 105

<210> 889

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 889

Glu Asn Ile Tyr Ser Asn
1 5

<210> 890

<211> 3

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 890

Glu Ala Thr
1

<210> 891

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 891

Gln His Phe Trp Gly Thr Pro Tyr Thr
1 5

<210> 892

<211> 120

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 892

Asp Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Gln
1 5 10 15Ser Leu Ser Leu Thr Cys Thr Val Thr Gly Tyr Ser Ile Thr Ser Asp
20 25 30Tyr Ala Trp Asn Trp Ile Arg Gln Phe Pro Gly Asn Lys Leu Glu Trp
35 40 45Met Gly Tyr Ile Ser Tyr Ser Gly Ser Thr Ser Tyr Asn Pro Ser Leu
50 55 60Lys Ser Arg Ile Ser Ile Thr Arg Asp Thr Ser Lys Asn Gln Phe Phe
65 70 75 80

Leu Gln Leu Asn Ser Val Thr Thr Glu Asp Thr Ala Thr Tyr Tyr Cys
 85 90 95

Ala Arg His Tyr Arg Tyr Pro Pro Tyr Ala Met Asp Tyr Trp Gly Gln
 100 105 110

Gly Thr Ser Val Thr Val Ser Ser
 115 120

<210> 893
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 893
 Gly Tyr Ser Ile Thr Ser Asp Tyr Ala
 1 5

<210> 894
 <211> 7
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 894
 Ile Ser Tyr Ser Gly Ser Thr
 1 5

<210> 895
 <211> 13
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 895
 Ala Arg His Tyr Arg Tyr Pro Pro Tyr Ala Met Asp Tyr
 1 5 10

<210> 896
 <211> 113
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 polypeptide

<400> 896
 Asp Ile Val Met Thr Gln Ser Pro Ser Ser Leu Ala Met Ser Val Gly
 1 5 10 15

Gln Lys Val Thr Met Ser Cys Lys Ser Ser Gln Ser Leu Leu Asn Ser
 20 25 30

Ser Asn Gln Lys Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln
 35 40 45

Ser Pro Lys Leu Leu Val Tyr Phe Ala Ser Thr Arg Glu Ser Gly Val
 50 55 60

Pro Asp Arg Phe Ile Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr
 65 70 75 80

Ile Thr Ser Val Gln Ala Glu Asp Leu Ala Asp Tyr Phe Cys Gln Gln
 85 90 95

His Tyr Ser Thr Pro Phe Thr Phe Gly Ser Gly Thr Lys Leu Glu Ile
 100 105 110

Lys

<210> 897

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 897

Gln Ser Leu Leu Asn Ser Ser Asn Gln Lys Asn Tyr
 1 5 10

<210> 898

<211> 3

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 898

Phe Ala Ser
 1

<210> 899

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 899

Gln Gln His Tyr Ser Thr Pro Phe Thr
 1 5

<210> 900
 <211> 118
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic polypeptide

<400> 900
 Gln Val Gln Leu Lys Gln Ser Gly Pro Gly Leu Val Gln Pro Ser Gln
 1 5 10 15

Ser Leu Ser Ile Thr Cys Thr Val Ser Gly Phe Ser Leu Thr Ser Phe
 20 25 30

Gly Val His Trp Val Arg Gln Ser Pro Gly Lys Gly Leu Glu Trp Leu
 35 40 45

Gly Val Ile Trp Ser Gly Gly Thr Thr Val Tyr Asp Ala Ala Phe Ile
 50 55 60

Ser Arg Leu Ser Ile Ser Lys Asp Asn Ser Lys Ser Gln Val Phe Phe
 65 70 75 80

Lys Met Asn Ser Leu Gln Thr Asn Asp Thr Ala Ile Tyr Tyr Cys Ala
 85 90 95

Arg Lys Arg Gly Asn Phe Tyr Val Met Asp Tyr Trp Gly Gln Gly Thr
 100 105 110

Ser Val Thr Val Ser Ser
 115

<210> 901
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 901
 Gly Phe Ser Leu Thr Ser Phe Gly
 1 5

<210> 902
 <211> 7
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 902

Ile Trp Ser Gly Gly Thr Thr
1 5

<210> 903
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 903
Ala Arg Lys Arg Gly Asn Phe Tyr Val Met Asp Tyr
1 5 10

<210> 904
<211> 113
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 904
Asp Ile Val Met Thr Gln Ser Pro Ser Ser Leu Ala Met Ser Val Gly
1 5 10 15

Gln Lys Val Thr Met Ser Cys Lys Ser Ser Gln Ser Leu Leu Asn Ser
20 25 30

Ser Asn Gln Lys Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln
35 40 45

Ser Pro Lys Leu Leu Val Tyr Phe Ala Ser Thr Arg Glu Ser Gly Val
50 55 60

Pro Asp Arg Phe Ile Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr
65 70 75 80

Ile Thr Ser Val Gln Ala Glu Asp Leu Ala Asp Tyr Phe Cys Gln Gln
85 90 95

His Tyr Ser Thr Pro Phe Thr Phe Gly Ser Gly Thr Lys Leu Glu Ile
100 105 110

Lys

<210> 905
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 905

Gln Ser Leu Leu Asn Ser Ser Asn Gln Lys Asn Tyr
1 5 10

<210> 906

<211> 3

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 906

Phe Ala Ser

1

<210> 907

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 907

Gln Gln His Tyr Ser Thr Pro Phe Thr
1 5

<210> 908

<211> 118

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 908

Gln Val Gln Leu Gln Gln Pro Gly Ser Glu Leu Val Arg Pro Gly Thr
1 5 10 15Ser Val Lys Leu Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr
20 25 30Trp Val His Trp Val Arg Gln Arg His Gly Gln Gly Leu Glu Trp Ile
35 40 45Gly Asn Val Tyr Pro Gly Ser Gly Ser Thr Asn Tyr Asp Glu Lys Phe
50 55 60Lys Ser Lys Gly Thr Leu Thr Val Asp Thr Ser Ser Ser Thr Ala Tyr
65 70 75 80Met His Leu Ser Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr Tyr Cys
85 90 95

Thr Arg Gly Val Leu Arg Phe Pro Leu Asp Tyr Trp Gly Gln Gly Thr
 100 105 110

Thr Leu Thr Val Ser Ser
 115

<210> 909
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 909
 Gly Tyr Thr Phe Thr Ser Tyr Trp
 1 5

<210> 910
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 910
 Val Tyr Pro Gly Ser Gly Ser Thr
 1 5

<210> 911
 <211> 11
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 911
 Thr Arg Gly Val Leu Arg Phe Pro Leu Asp Tyr
 1 5 10

<210> 912
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic polypeptide

<400> 912
 Asp Ile Val Met Thr Gln Ala Ala Pro Ser Val Pro Val Thr Pro Gly
 1 5 10 15

Glu Ser Val Ser Ile Ser Cys Arg Ser Ser Lys Ser Leu Leu His Ser
 20 25 30

Asn Gly Asn Thr Tyr Leu Tyr Trp Phe Leu Gln Arg Pro Gly Gln Ser
 35 40 45

Pro His Leu Leu Ile Tyr Arg Met Ser Asn Leu Ala Ser Gly Val Pro
 50 55 60

Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Ala Phe Thr Leu Arg Ile
 65 70 75 80

Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln His
 85 90 95

Leu Glu Tyr Pro Leu Thr Phe Gly Ala Gly Thr Lys Leu Glu Leu Lys
 100 105 110

<210> 913

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 913

Lys Ser Leu Leu His Ser Asn Gly Asn Thr Tyr
 1 5 10

<210> 914

<211> 3

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 914

Arg Met Ser
 1

<210> 915

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 915

Met Gln His Leu Glu Tyr Pro Leu Thr
 1 5

<210> 916

<211> 118

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 916

Gln Val Gln Leu Gln Gln Ser Gly Pro Glu Val Val Arg Pro Gly Val
1 5 10 15

Ser Val Lys Ile Ser Cys Lys Gly Ser Gly Tyr Lys Phe Pro Asp Tyr
20 25 30

Val Met His Trp Val Lys Gln Ser His Ala Lys Ser Leu Glu Trp Ile
35 40 45

Gly Ile Ile Ser Ile Tyr Ser Gly Asn Thr Asn Tyr Asn Gln Lys Phe
50 55 60

Lys Gly Lys Ala Thr Met Thr Val Asp Lys Ser Ser Ser Thr Ala Tyr
65 70 75 80

Met Glu Leu Ala Arg Leu Thr Ser Glu Asp Ser Ala Ile Tyr Tyr Cys
85 90 95

Ala Arg Glu Gly Asp Leu Pro Met Phe Ala Tyr Trp Gly Gln Gly Thr
100 105 110

Leu Val Thr Val Ser Ala
115

<210> 917

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 917

Gly Tyr Lys Phe Pro Asp Tyr Val
1 5

<210> 918

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 918

Ile Ser Ile Tyr Ser Gly Asn Thr
1 5

<210> 919

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 919

Ala Arg Glu Gly Asp Leu Pro Met Phe Ala Tyr
1 5 10

<210> 920

<211> 106

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 920

Gln Ile Val Leu Thr Gln Ser Pro Ala Ile Met Ser Ala Ser Pro Gly
1 5 10 15Glu Lys Val Thr Met Thr Cys Asn Ala Ser Ser Ser Val Ser Tyr Met
20 25 30Tyr Trp Tyr Gln Gln Lys Pro Ile Ser Ser Pro Arg Leu Leu Ile Tyr
35 40 45Asp Thr Ser Asn Leu Ala Ser Gly Val Pro Val Arg Phe Ser Gly Ser
50 55 60Gly Ser Gly Thr Ser Tyr Ser Leu Thr Ile Gly Arg Met Glu Ala Glu
65 70 75 80Asp Ala Ala Thr Tyr Tyr Cys Gln Gln Trp Ser Ser Tyr Pro Leu Thr
85 90 95Phe Gly Ala Gly Thr Lys Val Glu Val Lys
100 105

<210> 921

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 921

Ser Ser Val Ser Tyr
1 5

<210> 922

<211> 3

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 922
Asp Thr Ser
1

<210> 923
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 923
Gln Gln Trp Ser Ser Tyr Pro Leu Thr
1 5

<210> 924
<211> 122
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 924
Gln Val Gln Leu Lys Glu Ser Gly Pro Gly Leu Val Ala Pro Ser Gln
1 5 10 15

Ser Leu Ser Ile Thr Cys Thr Val Ser Gly Phe Ser Leu Thr Ala Tyr
20 25 30

Asn Ile Asn Trp Val Arg Gln Pro Pro Gly Lys Gly Leu Glu Trp Leu
35 40 45

Gly Met Ile Trp Gly Asp Gly Asn Thr Asp Tyr Asn Ser Pro Leu Lys
50 55 60

Ser Arg Leu Thr Ile Ser Lys Asp Asn Ser Lys Ser Gln Val Phe Leu
65 70 75 80

Lys Met Asp Ser Leu Gln Thr Asp Asp Thr Ala Arg Tyr Tyr Cys Ala
85 90 95

Arg Asp Leu Lys Val Arg Arg Asp Ser Pro Tyr Thr Met Asp Tyr Trp
100 105 110

Gly Gln Gly Thr Ser Val Thr Val Ser Ser
115 120

<210> 925
<211> 8
<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 925

Gly Phe Ser Leu Thr Ala Tyr Asn
1 5

<210> 926

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 926

Ile Trp Gly Asp Gly Asn Thr
1 5

<210> 927

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 927

Ala Arg Asp Leu Lys Val Arg Arg Asp Ser Pro Tyr Thr Met Asp Tyr
1 5 10 15

<210> 928

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 928

Asn Ile Met Met Thr Gln Ser Pro Ser Ser Leu Ala Val Ser Ala Gly
1 5 10 15Glu Lys Val Thr Met Ser Cys Lys Ser Ser Gln Ser Val Leu Tyr Ser
20 25 30Ser Asn Gln Lys Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln
35 40 45Ser Pro Lys Leu Leu Ile Tyr Trp Ala Ser Asn Arg Glu Ser Gly Val
50 55 60Pro Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr
65 70 75 80

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Ile Ser Ser Val Gln Ala Glu Asp Leu Ala Val Tyr Tyr Cys His Gln
 85 90 95

Tyr Leu Ser Ser Tyr Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
 100 105 110

<210> 929
 <211> 12
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 929
 Gln Ser Val Leu Tyr Ser Ser Asn Gln Lys Asn Tyr
 1 5 10

<210> 930
 <211> 3
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 930
 Trp Ala Ser
 1

<210> 931
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 931
 His Gln Tyr Leu Ser Ser Tyr Thr
 1 5

<210> 932
 <211> 124
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic polypeptide

<400> 932
 Asp Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Gln
 1 5 10 15

Ser Leu Ser Leu Thr Cys Thr Val Thr Gly Tyr Ser Leu Thr Ser Asp
 20 25 30

Tyr Ala Trp Asn Trp Ile Arg Gln Phe Pro Gly Asn Lys Leu Glu Trp
 35 40 45

Met Gly Tyr Ile Thr Tyr Ser Gly Gly Thr Thr Tyr Asn Pro Ser Leu
 50 55 60

Lys Ser Arg Ile Ser Ile Thr Arg Asp Thr Ser Lys Asn Gln Phe Phe
 65 70 75 80

Leu Gln Leu Thr Ser Val Thr Thr Glu Asp Thr Ala Thr Tyr Tyr Cys
 85 90 95

Ala Arg Arg Gly Ser Gly Thr Thr Val Val Gly Asp Trp Tyr Phe Asp
 100 105 110

Val Trp Gly Ala Gly Thr Thr Val Thr Val Ser Ser
 115 120

<210> 933

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 933

Gly Tyr Ser Leu Thr Ser Asp Tyr Ala
 1 5

<210> 934

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 934

Ile Thr Tyr Ser Gly Gly Thr
 1 5

<210> 935

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 935

Ala Arg Arg Gly Ser Gly Thr Thr Val Val Gly Asp Trp Tyr Phe Asp
 1 5 10 15

Val

<210> 936
 <211> 113
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic polypeptide

<400> 936
 Asp Ile Val Met Ser Gln Ser Pro Ser Ser Leu Ala Val Ser Val Gly
 1 5 10 15
 Glu Lys Val Thr Met Ser Cys Lys Ser Ser Gln Ser Leu Leu Tyr Ser
 20 25 30
 Phe Asn Gln Lys Tyr Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln
 35 40 45
 Ser Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Val
 50 55 60
 Pro Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp Phe Thr Pro Thr
 65 70 75 80
 Ile Ser Ser Val Thr Ala Glu Asp Leu Ala Val Tyr Tyr Cys Gln Gln
 85 90 95
 Phe Tyr Thr Tyr Pro Tyr Thr Phe Gly Gly Gly Thr Lys Leu Glu Met
 100 105 110

Lys

<210> 937
 <211> 12
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 937
 Gln Ser Leu Leu Tyr Ser Phe Asn Gln Lys Tyr Tyr
 1 5 10

<210> 938
 <211> 3
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 938

Trp Ala Ser
1

<210> 939
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 939
Gln Gln Phe Tyr Thr Tyr Pro Tyr Thr
1 5

<210> 940
<211> 122
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 940
Glu Val Gln Val Gln Gln Ser Gly Pro Glu Leu Val Lys Pro Gly Ala
1 5 10 15

Ser Val Lys Ile Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Lys Ser
20 25 30

Asn Met His Trp Val Lys Gln Ser His Gly Lys Ser Leu Glu Trp Ile
35 40 45

Gly Tyr Ile Tyr Pro Tyr Asn Gly Gly Thr Gly Tyr Asn Gln Asn Phe
50 55 60

Lys Ser Lys Ala Thr Leu Thr Val Asp Ile Ser Ser Ser Thr Ala Tyr
65 70 75 80

Met Glu Leu Arg Ser Leu Thr Leu Glu Asp Ser Ala Val Tyr Leu Cys
85 90 95

Ala Arg Glu Ala Asp Tyr Tyr Gly Asn Arg Gly Gln Phe Asp Tyr Trp
100 105 110

Gly Gln Gly Thr Leu Val Thr Val Ser Ala
115 120

<210> 941
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 941

Gly Tyr Thr Phe Thr Lys Ser Asn
1 5

<210> 942

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 942

Ile Tyr Pro Tyr Asn Gly Gly Thr
1 5

<210> 943

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 943

Ala Arg Glu Ala Asp Tyr Tyr Gly Asn Arg Gly Gln Phe Asp Tyr
1 5 10 15

<210> 944

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 944

Asp Ile Gln Met Thr Gln Ser Pro Ala Ser Leu Ser Val Ser Val Gly
1 5 10 15Glu Thr Val Thr Ile Thr Cys Arg Ala Ser Asp Asn Ile Phe Ser Asn
20 25 30Leu Ala Trp Tyr His Gln Lys Gln Gly Lys Ser Pro His Leu Leu Val
35 40 45Tyr Gly Ala Thr Asn Leu Ala Asp Gly Val Pro Ser Arg Phe Ser Gly
50 55 60Ser Gly Ser Gly Thr Gln Tyr Ser Leu Lys Ile Asn Ser Leu Gln Ser
65 70 75 80Glu Asp Phe Gly Asp Tyr Tyr Cys Gln His Phe Trp Gly Thr Pro Tyr
85 90 95

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 Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
 100 105

<210> 945
 <211> 6
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 945
 Asp Asn Ile Phe Ser Asn
 1 5

<210> 946
 <211> 3
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 946
 Gly Ala Thr
 1

<210> 947
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 947
 Gln His Phe Trp Gly Thr Pro Tyr Thr
 1 5

<210> 948
 <211> 119
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic polypeptide

<400> 948
 Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Leu Met Arg Pro Gly Thr
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Ala Phe Thr Asn His
 20 25 30

Leu Ile Glu Trp Ile Lys Gln Arg Pro Gly Gln Gly Leu Glu Trp Ile
 35 40 45

Gly Val Ile Asn Pro Gly Ser Asp Ser Thr Asp Tyr Asn Glu Lys Phe
 50 55 60

Lys Asp Lys Ala Thr Leu Thr Ala Asp Lys Ser Ser Ser Thr Ala Tyr
 65 70 75 80

Met Gln Leu Ser Ser Leu Thr Ser Asp Asp Ser Ala Val Tyr Phe Cys
 85 90 95

Ala Arg Ser Leu Tyr Tyr Asn Ser Trp Phe Val Tyr Trp Gly Gln Gly
 100 105 110

Thr Leu Val Thr Val Ser Ala
 115

<210> 949
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 949
 Gly Tyr Ala Phe Thr Asn His Leu
 1 5

<210> 950
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 950
 Ile Asn Pro Gly Ser Asp Ser Thr
 1 5

<210> 951
 <211> 12
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 951
 Ala Arg Ser Leu Tyr Tyr Asn Ser Trp Phe Val Tyr
 1 5 10

<210> 952
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 952

Asp Ile Gln Met Thr Gln Ser Pro Ala Ser Leu Ser Ala Ser Val Gly
1 5 10 15

Glu Thr Val Thr Ile Thr Cys Arg Ala Ser Glu Asn Ile Tyr Ser Tyr
20 25 30

Leu Ala Trp Tyr Gln Gln Lys Arg Gly Lys Ser Pro Gln Leu Leu Val
35 40 45

Tyr Asn Ala Lys Thr Leu Val Glu Gly Val Pro Ser Arg Phe Ser Gly
50 55 60

Ser Gly Ser Gly Thr Gln Phe Ser Leu Lys Ile Asn Ser Leu Gln Pro
65 70 75 80

Glu Asp Phe Gly Ser Tyr Tyr Cys Gln His His Tyr Gly Thr Pro Tyr
85 90 95

Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
100 105

<210> 953

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 953

Glu Asn Ile Tyr Ser Tyr
1 5

<210> 954

<211> 3

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 954

Asn Ala Lys
1

<210> 955

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 955

Gln His His Tyr Gly Thr Pro Tyr Thr
1 5

<210> 956

<211> 118

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 956

Glu Val Gln Leu Gln Gln Ser Gly Ala Glu Leu Val Lys Pro Gly Ala
1 5 10 15Ser Val Arg Leu Ser Cys Thr Ala Ser Gly Phe Ser Ile Arg Asp Thr
20 25 30Tyr Ile His Trp Val Lys Gln Arg Pro Glu Gln Gly Leu Asp Trp Ile
35 40 45Gly Lys Ile Asp Pro Ala Asn Gly Lys Ser Glu Tyr Asp Pro Lys Phe
50 55 60Gln Gly Arg Ala Thr Met Thr Thr Asp Thr Ser Ser Asn Thr Ala Tyr
65 70 75 80Leu Gln Leu Ser Ser Leu Thr Ser Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95Thr Arg Tyr Gly Tyr Tyr Pro Tyr Phe Asp Val Trp Gly Ala Gly Thr
100 105 110Thr Val Thr Val Phe Ser
115

<210> 957

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 957

Gly Phe Ser Ile Arg Asp Thr Tyr
1 5

<210> 958

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 958

Ile Asp Pro Ala Asn Gly Lys Ser
1 5

<210> 959

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 959

Thr Arg Tyr Gly Tyr Tyr Pro Tyr Phe Asp Val
1 5 10

<210> 960

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 960

Ser Ile Val Met Thr Gln Thr Pro Lys Phe Leu Leu Val Ser Ala Gly
1 5 10 15

Asp Arg Val Ala Ile Thr Cys Lys Ala Ser Gln Ser Val Arg His Asp
20 25 30

Val Val Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Lys Leu Leu Ile
35 40 45

Tyr Tyr Ala Ser Ser Arg Tyr Thr Gly Val Pro Asp Arg Phe Thr Gly
50 55 60

Ser Gly Tyr Gly Thr Asp Phe Thr Phe Thr Ile Ser Thr Val Gln Ala
65 70 75 80

Glu Asp Leu Ala Leu Tyr Phe Cys Leu Gln Asp Phe Ser Ser Pro Trp
85 90 95

Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
100 105

<210> 961

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 961
Gln Ser Val Arg His Asp
1 5

<210> 962
<211> 3
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 962
Tyr Ala Ser
1

<210> 963
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 963
Leu Gln Asp Phe Ser Ser Pro Trp Thr
1 5

<210> 964
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 964
Glu Val Gln Leu Gln Gln Ser Gly Pro Glu Leu Val Lys Pro Gly Ala
1 5 10 15

Ser Val Lys Ile Ser Cys Lys Thr Ser Gly Tyr Thr Phe Thr Lys Asn
20 25 30

Thr Met His Trp Val Arg Gln Ser His Gly Lys Ser Leu Glu Trp Ile
35 40 45

Gly Gly Ile Asn Pro Asn Ser Gly Gly Ala Ser Phe Asn Gln Lys Phe
50 55 60

Met Gly Lys Ala Thr Leu Thr Val Asp Lys Ser Ser Ser Thr Ala Tyr
65 70 75 80

Met Glu Leu Arg Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr Tyr Cys
85 90 95

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Ala Arg Asp Gly Tyr Asp Gly Asp Trp Phe Phe Asp Val Trp Gly Ala
100 105 110

Gly Thr Thr Val Thr Val Ser Ser
115 120

<210> 965
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 965
Gly Tyr Thr Phe Thr Lys Asn Thr
1 5

<210> 966
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 966
Ile Asn Pro Asn Ser Gly Gly Ala
1 5

<210> 967
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 967
Ala Arg Asp Gly Tyr Asp Gly Asp Trp Phe Phe Asp Val
1 5 10

<210> 968
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 968
Asp Ile Gln Met Asn Gln Ser Pro Phe Ser Leu Ser Ala Ser Leu Gly
1 5 10 15

Asp Thr Val Thr Ile Thr Cys His Ala Ser Gln Asn Ile Tyr Val Trp
20 25 30

Leu Ser Trp Tyr Gln Gln Lys Pro Gly Asn Ile Pro Lys Leu Leu Ile
 35 40 45

Tyr Lys Ala Ser Asp Leu His Thr Gly Val Pro Ser Arg Phe Ser Gly
 50 55 60

Ser Gly Ser Gly Thr Asp Phe Thr Leu Asn Ile Ser Ser Leu Gln Pro
 65 70 75 80

Glu Asp Ile Ala Thr Tyr Tyr Cys Gln Gln Gly Gln Ser Tyr Pro Arg
 85 90 95

Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
 100 105

<210> 969

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 969

Gln Asn Ile Tyr Val Trp
 1 5

<210> 970

<211> 3

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 970

Lys Ala Ser
 1

<210> 971

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 971

Gln Gln Gly Gln Ser Tyr Pro Arg Thr
 1 5

<210> 972

<211> 114

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 972

Gln Val Gln Leu Lys Glu Ser Gly Pro Gly Leu Val Ala Pro Ser Gln
1 5 10 15

Ser Leu Ser Ile Thr Cys Thr Val Ser Gly Phe Ser Leu Ile Gly His
20 25 30

Gly Val Asn Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu Glu Trp Leu
35 40 45

Gly Val Ile Trp Gly Asp Gly Asn Thr Asp Tyr Asn Ser Ala Leu Lys
50 55 60

Ser Arg Leu Ser Ile Ser Lys Asp Asn Ser Lys Ser Gln Val Phe Leu
65 70 75 80

Lys Met Asn Ser Leu Gln Thr Asp Asp Thr Ala Arg Tyr Phe Cys Ala
85 90 95

Val Asn Ser Ala Met Asp Tyr Trp Gly Gln Gly Thr Ala Val Thr Val
100 105 110

Ser Ser

<210> 973

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 973

Gly Phe Ser Leu Ile Gly His Gly
1 5

<210> 974

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 974

Ile Trp Gly Asp Gly Asn Thr
1 5

<210> 975

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 975

Ala Val Asn Ser Ala Met Asp Tyr
1 5

<210> 976

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 976

Asn Ile Val Met Thr Gln Ser Pro Lys Ser Met Ser Met Ser Val Gly
1 5 10 15Glu Arg Val Thr Leu Asn Cys Thr Ala Ser Glu Asn Val Ala Ser Phe
20 25 30Val Ser Trp Tyr Gln Gln Lys Pro Glu Gln Ser Pro Lys Leu Leu Ile
35 40 45Tyr Gly Thr Ser Asn Arg Tyr Thr Gly Val Pro Asp Arg Phe Thr Gly
50 55 60Ser Gly Ser Ala Thr Asp Phe Thr Leu Thr Ile Ser Ser Val Gln Ala
65 70 75 80Glu Asp Leu Gly Asp Tyr His Cys Gly Gln Ser Tyr Asn Tyr Pro Phe
85 90 95Thr Phe Gly Ser Gly Thr Lys Leu Glu Ile Glu
100 105

<210> 977

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 977

Glu Asn Val Ala Ser Phe
1 5

<210> 978

<211> 3

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 978
Gly Thr Ser
1

<210> 979
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 979
Gly Gln Ser Tyr Asn Tyr Pro Phe Thr
1 5

<210> 980
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 980
Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Leu Val Arg Pro Gly Ala
1 5 10 15

Ser Val Lys Val Ser Cys Lys Thr Ser Gly Tyr Ala Phe Thr Asn Tyr
20 25 30

Leu Ile Glu Trp Val Lys Gln Arg Pro Gly Gln Gly Leu Glu Trp Ile
35 40 45

Gly Val Ile Asn Pro Gly Ser Gly Gly Ile Tyr Tyr Asn Asp Lys Phe
50 55 60

Lys Val Lys Thr Thr Leu Thr Ala Asp Lys Ser Ser Ser Thr Ala Tyr
65 70 75 80

Met Gln Leu Ser Ser Leu Thr Ser Asp Asp Ser Ala Val Tyr Phe Cys
85 90 95

Ala Arg Ser Glu Thr His Asp Thr Trp Phe Ala Tyr Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ala
115

<210> 981
<211> 8
<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 981

Gly Tyr Ala Phe Thr Asn Tyr Leu
1 5

<210> 982

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 982

Ile Asn Pro Gly Ser Gly Gly Ile
1 5

<210> 983

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 983

Ala Arg Ser Glu Thr His Asp Thr Trp Phe Ala Tyr
1 5 10

<210> 984

<211> 108

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 984

Asp Ile Val Met Thr Gln Ser Gln Lys Phe Ile Ser Thr Ser Val Gly
1 5 10 15Asp Arg Val Ser Ile Thr Cys Lys Ala Ser Gln Ser Val Arg Ile Ala
20 25 30Val Ala Trp Phe Gln Gln Lys Pro Gly Gln Ser Pro Lys Ala Leu Ile
35 40 45Tyr Leu Ala Ser Thr Arg His Thr Gly Val Pro Asp Arg Phe Thr Gly
50 55 60Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Asn Val Gln Ser
65 70 75 80

Glu Asp Leu Ala Asp Tyr Phe Cys Leu Gln His Trp Asn Tyr Pro Tyr
 85 90 95

Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys Arg
 100 105

<210> 985
 <211> 6
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 985
 Gln Ser Val Arg Ile Ala
 1 5

<210> 986
 <211> 3
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 986
 Leu Ala Ser
 1

<210> 987
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 987
 Leu Gln His Trp Asn Tyr Pro Tyr Thr
 1 5

<210> 988
 <211> 120
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic polypeptide

<400> 988
 Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Leu Val Arg Pro Gly Thr
 1 5 10 15

Ser Val Lys Met Ser Cys Lys Ala Ala Gly Tyr Thr Phe Thr Asn Tyr
 20 25 30

Trp Ile Gly Trp Val Lys Gln Arg Pro Gly His Gly Leu Glu Trp Ile
 35 40 45

Gly Asp Ile Tyr Pro Gly Gly Gly Tyr Thr Asn Tyr Asn Glu Lys Phe
 50 55 60

Lys Gly Lys Ala Thr Leu Thr Ala Asp Thr Ser Ser Ser Thr Ala Tyr
 65 70 75 80

Met Gln Leu Ser Ser Leu Thr Ser Glu Asp Ser Ala Ile Tyr Tyr Cys
 85 90 95

Ala Ser Pro Tyr Tyr Gly Ser Ser Tyr Gly Phe Ala Phe Trp Gly Gln
 100 105 110

Gly Thr Leu Val Thr Val Ser Ala
 115 120

<210> 989
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 989
 Gly Tyr Thr Phe Thr Asn Tyr Trp
 1 5

<210> 990
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 990
 Ile Tyr Pro Gly Gly Gly Tyr Thr
 1 5

<210> 991
 <211> 13
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 991
 Ala Ser Pro Tyr Tyr Gly Ser Ser Tyr Gly Phe Ala Phe
 1 5 10

<210> 992
 <211> 108

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 992

Asp Ile Val Met Thr Gln Ser Gln Lys Phe Ile Ser Thr Ser Val Gly
 1 5 10 15

Asp Arg Val Ser Ile Thr Cys Lys Ala Ser Gln Ser Val Arg Ile Ala
 20 25 30

Val Ala Trp Phe Gln Gln Lys Pro Gly Gln Ser Pro Lys Ala Leu Ile
 35 40 45

Tyr Leu Ala Ser Thr Arg His Thr Gly Val Pro Asp Arg Phe Thr Gly
 50 55 60

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Asn Val Gln Ser
 65 70 75 80

Glu Asp Leu Ala Asp Tyr Phe Cys Leu Gln His Trp Asn Tyr Pro Tyr
 85 90 95

Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys Arg
 100 105

<210> 993

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 993

Gln Ser Val Arg Ile Ala
 1 5

<210> 994

<211> 3

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 994

Leu Ala Ser
 1

<210> 995

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 995

Leu Gln His Trp Asn Tyr Pro Tyr Thr
1 5

<210> 996

<211> 117

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 996

Gln Val Gln Leu Lys Glu Ser Gly Pro Gly Leu Val Ala Pro Ser Gln
1 5 10 15Ser Leu Ser Ile Thr Cys Thr Val Ser Gly Phe Ser Leu Ser Gly Tyr
20 25 30Gly Ile Lys Trp Val Arg Gln Pro Pro Gly Lys Gly Leu Glu Trp Leu
35 40 45Gly Thr Ile Trp Gly Asp Gly Ser Thr Asp Tyr Asn Ser Ala Leu Lys
50 55 60Ser Arg Leu Ser Ile Ser Lys Asp Asn Ser Lys Ser Gln Val Phe Leu
65 70 75 80Lys Met Thr Ser Leu Gln Thr Asp Asp Thr Ala Arg Tyr Tyr Cys Ala
85 90 95Ser Asp Ser Leu Gly Ile Thr Phe Gly Tyr Trp Gly Gln Gly Thr Leu
100 105 110Val Thr Val Ser Ala
115

<210> 997

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 997

Gly Phe Ser Leu Ser Gly Tyr Gly
1 5

<210> 998

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 998

Ile Trp Gly Asp Gly Ser Thr
1 5

<210> 999

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 999

Ala Ser Asp Ser Leu Gly Ile Thr Phe Gly Tyr
1 5 10

<210> 1000

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 1000

Asp Ile Gln Met Thr Gln Thr Thr Ser Ser Leu Ser Ala Ser Leu Gly
1 5 10 15Asp Arg Val Thr Ile Ser Cys Arg Ala Ser Gln Asp Ile Ser Asn Tyr
20 25 30Leu Asn Trp Tyr Gln Gln Lys Pro Asp Gly Thr Val Lys Leu Leu Ile
35 40 45Tyr Tyr Thr Ser Arg Leu His Ser Gly Val Pro Ser Arg Phe Ser Gly
50 55 60Ser Gly Ser Gly Thr Asp Tyr Ser Leu Thr Ile Ser Asn Leu Glu Gln
65 70 75 80Glu Asp Ile Ala Thr Tyr Phe Cys Gln Gln Gly Asn Thr Leu Pro Leu
85 90 95Thr Phe Gly Ala Gly Thr Lys Leu Glu Leu Lys
100 105

<210> 1001

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 1001

Gln Asp Ile Ser Asn Tyr
1 5

<210> 1002

<211> 3

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 1002

Tyr Thr Ser
1

<210> 1003

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 1003

Gln Gln Gly Asn Thr Leu Pro Leu Thr
1 5

<210> 1004

<211> 120

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 1004

Gln Val Gln Leu Lys Glu Ser Gly Pro Gly Leu Val Ala Pro Ser Gln
1 5 10 15Ser Leu Ser Ile Thr Cys Thr Val Ser Gly Phe Ser Leu Thr Ser Tyr
20 25 30Ala Ile Thr Trp Val Arg Gln Pro Pro Gly Lys Gly Leu Glu Trp Leu
35 40 45Gly Val Ile Trp Pro Gly Gly Gly Thr Asn Tyr Asn Ser Ala Leu Lys
50 55 60Ser Arg Leu Ser Ile Ser Lys Asp Asn Ser Lys Ser His Leu Phe Leu
65 70 75 80

Lys Met Asn Ser Leu Gln Thr Asp Asp Thr Ala Arg Tyr Tyr Cys Val
 85 90 95

Arg Ser Tyr Asp Gly Tyr Leu Asp Trp Tyr Phe Asp Val Trp Gly Thr
 100 105 110

Gly Thr Thr Val Thr Val Ser Ser
 115 120

<210> 1005
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 1005
 Gly Phe Ser Leu Thr Ser Tyr Ala
 1 5

<210> 1006
 <211> 7
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 1006
 Ile Trp Pro Gly Gly Gly Thr
 1 5

<210> 1007
 <211> 14
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 1007
 Val Arg Ser Tyr Asp Gly Tyr Leu Asp Trp Tyr Phe Asp Val
 1 5 10

<210> 1008
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic polypeptide

<400> 1008
 Asn Ile Val Met Thr Gln Ser Pro Lys Ser Met Ser Met Ser Val Gly
 1 5 10 15

Glu Arg Val Thr Leu Ser Cys Lys Ala Ser Glu Asn Val Gly Thr Tyr
 20 25 30

Val Ser Trp Tyr Gln Gln Lys Pro Asp Gln Ser Pro Lys Leu Leu Ile
 35 40 45

Tyr Gly Ala Ser Asn Arg Tyr Thr Gly Val Pro Asp Arg Phe Thr Gly
 50 55 60

Ser Gly Ser Ala Thr Asp Phe Thr Leu Ile Ile Ser Ser Val Gln Ala
 65 70 75 80

Glu Asp Leu Ser Asp Tyr His Cys Gly Gln Ser Tyr Ser Tyr Pro Tyr
 85 90 95

Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Ile
 100 105

<210> 1009
 <211> 6
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 1009
 Glu Asn Val Gly Thr Tyr
 1 5

<210> 1010
 <211> 3
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 1010
 Gly Ala Ser
 1

<210> 1011
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 1011
 Gly Gln Ser Tyr Ser Tyr Pro Tyr Thr
 1 5

<210> 1012
 <211> 123

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 1012

Gln Ile Gln Leu Val Gln Ser Gly Pro Asp Leu Lys Lys Pro Gly Glu
 1 5 10 15

Thr Val Lys Ile Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Thr Tyr
 20 25 30

Gly Met Ser Trp Val Lys Gln Ala Pro Gly Arg Gly Leu Lys Trp Met
 35 40 45

Gly Trp Ile Asn Thr Tyr Ser Gly Val Ser Thr Phe Pro Asp Asp Phe
 50 55 60

Lys Gly Arg Phe Ala Phe Ser Leu Glu Thr Ser Ala Ser Thr Ala Tyr
 65 70 75 80

Leu Gln Ile Asn Asn Leu Lys Asn Glu Asp Ser Ala Thr Tyr Phe Cys
 85 90 95

Ala Arg Leu Gly Met Gly Ser Thr Thr Gly Ala Gly Tyr Phe Asp Val
 100 105 110

Trp Gly Thr Gly Thr Thr Val Thr Val Ser Ser
 115 120

<210> 1013

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 1013

Gly Tyr Thr Phe Thr Thr Tyr Gly
 1 5

<210> 1014

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 1014

Ile Asn Thr Tyr Ser Gly Val Ser
 1 5

<210> 1015

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 1015

Ala Arg Leu Gly Met Gly Ser Thr Thr Gly Ala Gly Tyr Phe Asp Val
1 5 10 15

<210> 1016

<211> 108

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 1016

Asp Ile Val Leu Thr Gln Ser Pro Ala Ile Met Ser Ala Ser Pro Gly
1 5 10 15Glu Lys Val Thr Met Thr Cys Ser Ala Ser Ser Ser Val Ser Ser Trp
20 25 30Tyr Leu His Trp Tyr Gln Gln Lys Ser Gly Ala Ser Pro Lys Leu Trp
35 40 45Ile Tyr Gly Thr Ser Asn Leu Ala Ser Gly Val Pro Ala Arg Phe Ser
50 55 60Gly Ser Gly Ser Gly Thr Ser Tyr Ser Leu Thr Ile Ser Ser Val Glu
65 70 75 80Ala Glu Asp Ala Ala Thr Tyr Tyr Cys Gln Gln Tyr Arg Ser Asp Pro
85 90 95Tyr Thr Phe Gly Ser Gly Thr Lys Leu Glu Ile Lys
100 105

<210> 1017

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 1017

Ser Ser Val Ser Ser Trp Tyr
1 5

<210> 1018

<211> 3

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 1018

Gly Thr Ser

1

<210> 1019

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 1019

Gln Gln Tyr Arg Ser Asp Pro Tyr Thr

1

5

<210> 1020

<211> 123

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 1020

Gln Ile Gln Leu Val Gln Ser Gly Pro Glu Leu Lys Lys Pro Gly Glu

1

5

10

15

Thr Val Lys Ile Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Thr Tyr

20

25

30

Gly Met Ser Trp Val Lys Gln Ala Pro Gly Lys Gly Leu Lys Trp Met

35

40

45

Gly Trp Ile Asn Thr Tyr Ser Gly Val Ser Thr Tyr Ala Asp Asp Phe

50

55

60

Glu Gly Arg Phe Ala Phe Ser Leu Glu Thr Ser Val Ser Thr Ala Tyr

65

70

75

80

Leu Gln Ile Asn Asn Leu Lys Asn Glu Asp Thr Ala Thr Tyr Phe Cys

85

90

95

Ala Arg Leu Gly Arg Gly Ser Thr Thr Gly Ala Gly Tyr Leu Asp Val

100

105

110

Trp Gly Thr Gly Thr Thr Val Thr Val Ser Ser

115

120

<210> 1021

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 1021

Gly Tyr Thr Phe Thr Thr Tyr Gly
1 5

<210> 1022

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 1022

Ile Asn Thr Tyr Ser Gly Val Ser
1 5

<210> 1023

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 1023

Ala Arg Leu Gly Arg Gly Ser Thr Thr Gly Ala Gly Tyr Leu Asp Val
1 5 10 15

<210> 1024

<211> 108

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 1024

Asp Ile Val Leu Thr Gln Ser Pro Ala Ile Met Ser Ala Ser Pro Gly
1 5 10 15Glu Lys Val Ser Met Thr Cys Ser Ala Ser Ser Ser Val Ser Ser Trp
20 25 30Tyr Leu His Trp Tyr Gln Gln Lys Ser Gly Ala Ser Pro Lys Leu Trp
35 40 45Ile Tyr Gly Thr Ser Asn Leu Ala Ser Gly Val Pro Ala Arg Phe Ser
50 55 60

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Gly Ser Gly Ser Gly Thr Ser Tyr Ser Leu Thr Ile Ser Ser Val Glu
65 70 75 80

Ala Glu Asp Ala Ala Thr Tyr Tyr Cys Gln Gln Tyr His Ser Asp Pro
85 90 95

Tyr Thr Phe Gly Ser Gly Thr Lys Leu Glu Ile Lys
100 105

<210> 1025
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 1025
Ser Ser Val Ser Ser Trp Tyr
1 5

<210> 1026
<211> 3
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 1026
Gly Thr Ser
1

<210> 1027
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 1027
Gln Gln Tyr His Ser Asp Pro Tyr Thr
1 5

<210> 1028
<211> 123
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 1028
Gln Ile Gln Leu Val Gln Ser Gly Pro Asp Leu Lys Lys Pro Gly Glu
1 5 10 15

Thr Val Lys Ile Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Thr Tyr
20 25 30

Gly Met Ser Trp Val Lys Gln Ala Pro Gly Arg Gly Leu Lys Trp Met
35 40 45

Gly Trp Ile Asn Thr Tyr Ser Gly Val Ser Thr Phe Pro Asp Asp Phe
50 55 60

Lys Gly Arg Phe Ala Phe Ser Leu Glu Thr Ser Ala Ser Thr Ala Tyr
65 70 75 80

Leu Gln Ile Asn Asn Leu Lys Asn Glu Asp Ser Ala Thr Tyr Phe Cys
85 90 95

Ala Arg Leu Gly Met Gly Ser Thr Thr Gly Ala Gly Tyr Phe Asp Val
100 105 110

Trp Gly Thr Gly Thr Thr Val Thr Val Ser Ser
115 120

<210> 1029

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 1029

Gly Tyr Thr Phe Thr Thr Tyr Gly
1 5

<210> 1030

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 1030

Ile Asn Thr Tyr Ser Gly Val Ser
1 5

<210> 1031

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 1031

Ala Arg Leu Gly Met Gly Ser Thr Thr Gly Ala Gly Tyr Phe Asp Val
1 5 10 15

<210> 1032
 <211> 106
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic polypeptide

<400> 1032
 Glu Asn Val Leu Thr Gln Ser Pro Ala Ile Met Ser Ala Ser Leu Gly
 1 5 10 15
 Glu Lys Val Thr Leu Ser Cys Arg Ala Ser Ser Ser Val Asn Tyr Met
 20 25 30
 Tyr Trp Tyr Gln Gln Lys Ser Asp Ala Ser Pro Lys Leu Trp Ile Tyr
 35 40 45
 Tyr Thr Ser Asn Leu Ala Pro Gly Val Pro Ala Arg Phe Ser Gly Ser
 50 55 60
 Gly Ser Gly Asn Ser Tyr Ser Leu Thr Ile Ser Ser Val Glu Gly Glu
 65 70 75 80
 Asp Ala Ala Thr Tyr Tyr Cys Gln Gln Phe Thr Ser Ser Pro Trp Thr
 85 90 95
 Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
 100 105

<210> 1033
 <211> 5
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 1033
 Ser Ser Val Asn Tyr
 1 5

<210> 1034
 <211> 3
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 1034
 Tyr Thr Ser
 1

<210> 1035
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 1035
 Gln Gln Phe Thr Ser Ser Pro Trp Thr
 1 5

<210> 1036
 <211> 114
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic polypeptide

<400> 1036
 Glu Val Gln Leu Gln Gln Ser Gly Pro Glu Leu Val Lys Pro Gly Ala
 1 5 10 15

Ser Val Lys Ile Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asp Tyr
 20 25 30

Ser Met Asn Trp Val Lys Gln Ser His Gly Lys Ser Leu Glu Trp Ile
 35 40 45

Gly Asp Ile Thr Pro Asn Asn Gly Ser Pro Asn Tyr Asn Gln Lys Phe
 50 55 60

Lys Asp Lys Ala Thr Leu Thr Val Asp Lys Ser Ser Ser Thr Val Tyr
 65 70 75 80

Met Glu Leu Arg Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr Tyr Cys
 85 90 95

Ala Ser Leu Phe Phe Asp Tyr Trp Gly His Gly Thr Thr Leu Thr Val
 100 105 110

Ser Ser

<210> 1037
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 1037
 Gly Tyr Thr Phe Thr Asp Tyr Ser
 1 5

<210> 1038
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 1038
 Ile Thr Pro Asn Asn Gly Ser Pro
 1 5

<210> 1039
 <211> 7
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 1039
 Ala Ser Leu Phe Phe Asp Tyr
 1 5

<210> 1040
 <211> 113
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic polypeptide

<400> 1040
 Asp Ile Val Met Thr Gln Ser Pro Ser Ser Leu Ser Val Ser Ala Gly
 1 5 10 15

Glu Lys Val Thr Met Ser Cys Lys Ser Ser Gln Ser Leu Leu Asn Ser
 20 25 30

Gly Asn Gln Lys Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln
 35 40 45

Pro Pro Lys Leu Leu Ile Tyr Gly Ala Ser Thr Arg Asp Ser Gly Val
 50 55 60

Pro Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr
 65 70 75 80

Ile Thr Ser Val Gln Ala Glu Asp Leu Ala Val Tyr Tyr Cys Gln Asn
 85 90 95

Asp His Thr Tyr Pro Tyr Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile
 100 105 110

Lys

<210> 1041
 <211> 12
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 1041
 Gln Ser Leu Leu Asn Ser Gly Asn Gln Lys Asn Tyr
 1 5 10

<210> 1042
 <211> 3
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 1042
 Gly Ala Ser
 1

<210> 1043
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 1043
 Gln Asn Asp His Thr Tyr Pro Tyr Thr
 1 5

<210> 1044
 <211> 120
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic polypeptide

<400> 1044
 Gln Val Gln Leu Gln Gln Pro Gly Thr Glu Leu Val Lys Pro Gly Ala
 1 5 10 15

Ser Val Lys Leu Ser Cys Lys Ala Ser Gly Phe Thr Phe Thr Thr His
 20 25 30

Trp Met His Trp Val Arg Gln Arg Pro Gly Gln Gly Leu Glu Trp Ile
 35 40 45

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Gly Asn Ile Tyr Pro Ser Asn Gly Gly Ser Asn Tyr Asn Glu Lys Phe
50 55 60

Lys Thr Lys Ala Thr Leu Thr Val Asp Arg Ser Ser Ser Thr Ala Tyr
65 70 75 80

Met His Leu Ser Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr Tyr Cys
85 90 95

Ala Arg Arg Val Asn Trp Asp Gly Tyr Tyr Phe Asp Tyr Trp Gly Gln
100 105 110

Gly Thr Thr Leu Thr Val Ser Ser
115 120

<210> 1045
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 1045
Gly Phe Thr Phe Thr Thr His Trp
1 5

<210> 1046
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 1046
Ile Tyr Pro Ser Asn Gly Gly Ser
1 5

<210> 1047
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 1047
Ala Arg Arg Val Asn Trp Asp Gly Tyr Tyr Phe Asp Tyr
1 5 10

<210> 1048
<211> 107
<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 1048

Asp Ile Val Met Thr Gln Ser Gln Lys Phe Met Ser Thr Ser Val Gly
1 5 10 15

Asp Arg Val Ser Val Thr Cys Lys Ala Ser Gln Asn Val Gly Thr Asn
20 25 30

Val Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Lys Leu Leu Ile
35 40 45

Tyr Ser Ala Ser Tyr Arg Tyr Ser Gly Val Pro Asp Arg Phe Thr Gly
50 55 60

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Asn Val Gln Ser
65 70 75 80

Glu Asp Leu Ala Asp Tyr Phe Cys Gln Gln Tyr Asn Ser Tyr Pro Leu
85 90 95

Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
100 105

<210> 1049

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 1049

Gln Asn Val Gly Thr Asn
1 5

<210> 1050

<211> 3

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 1050

Ser Ala Ser
1

<210> 1051

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 1051

Gln Gln Tyr Asn Ser Tyr Pro Leu Thr
1 5

<210> 1052

<211> 118

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 1052

Gln Val Gln Leu Gln Glu Ser Gly Thr Glu Leu Val Lys Pro Gly Ala
1 5 10 15Ser Val Lys Leu Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr
20 25 30Trp Ile His Trp Val Lys Gln Arg Pro Gly Gln Gly Leu Glu Trp Ile
35 40 45Gly Asn Ile Asn Pro Ser Asn Gly Gly Thr Asn Tyr Asn Glu Lys Phe
50 55 60Lys Ser Lys Ala Ala Leu Thr Val Asp Lys Ser Ser Ser Thr Ala Tyr
65 70 75 80Met Gln Leu Ser Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr Tyr Cys
85 90 95Ala Arg Arg Gly Leu Pro Tyr Phe Phe Asp Tyr Trp Gly Gln Gly Thr
100 105 110Thr Leu Thr Val Ser Ser
115

<210> 1053

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 1053

Gly Tyr Thr Phe Thr Ser Tyr Trp
1 5

<210> 1054

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 1054
Ile Asn Pro Ser Asn Gly Gly Thr
1 5

<210> 1055
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 1055
Ala Arg Arg Gly Leu Pro Tyr Phe Phe Asp Tyr
1 5 10

<210> 1056
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 1056
Asp Ile Val Met Thr Gln Ser Gln Lys Phe Met Ser Thr Ser Val Gly
1 5 10 15

Asp Arg Val Ser Val Thr Cys Lys Gly Ser Gln Asn Val Gly Tyr Asn
20 25 30

Val Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Lys Ala Leu Val
35 40 45

Tyr Ser Ala Ser Asp Arg His Ser Gly Val Pro Asp Arg Phe Ala Gly
50 55 60

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Asn Val Gln Ser
65 70 75 80

Glu Asp Leu Ala Glu Tyr Phe Cys Gln Gln Tyr Asn Ser Tyr Pro Leu
85 90 95

Thr Phe Gly Ala Gly Thr Lys Leu Glu Leu Lys
100 105

<210> 1057
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 1057
Gln Asn Val Gly Tyr Asn
1 5

<210> 1058
<211> 3
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 1058
Ser Ala Ser
1

<210> 1059
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 1059
Gln Gln Tyr Asn Ser Tyr Pro Leu Thr
1 5

<210> 1060
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 1060
Gly Gly Thr Phe Ser Ser Tyr Ala
1 5

<210> 1061
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 1061
Ile Ile Pro Ile Phe Gly Thr Ala
1 5

<210> 1062
<211> 13
<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 1062

Ala Arg Glu Glu Val Ser Ser Pro Tyr Gly Met Asp Val
1 5 10

<210> 1063

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 1063

Thr Gly Ala Val Thr Ser Gly His Tyr
1 5

<210> 1064

<211> 3

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 1064

Asp Thr Gly
1

<210> 1065

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 1065

Leu Leu Ser Tyr Ser Gly Ala Ser Trp Val
1 5 10

<210> 1066

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 1066

Gly Gly Thr Phe Ser Ser Ser Ala
1 5

<210> 1067

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 1067

Ile Ile Pro Ile Tyr Gly Ile Thr
1 5

<210> 1068

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 1068

Ala Arg Asp Asp Thr Ala Arg Arg Val Arg Gly Val Pro Tyr Tyr Tyr
1 5 10 15

Tyr Tyr Ala Met Asp Val
20

<210> 1069

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 1069

Gln Gly Ile Gly Asn Tyr
1 5

<210> 1070

<211> 3

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 1070

Ser Ala Ser
1

<210> 1071

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 1071

Gln Gln Leu Lys Asp Tyr Pro Ile Thr
1 5

<210> 1072
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 1072
 Gly Phe Ser Leu Ser His Phe Ser
 1 5

<210> 1073
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 1073
 Phe Asp Pro Glu Glu Gly Gly Thr
 1 5

<210> 1074
 <211> 14
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 1074
 Ala Thr Gly Ile Trp Tyr Ser Ser Gly Trp Pro Val Asp Tyr
 1 5 10

<210> 1075
 <211> 11
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 1075
 Gln Ser Leu Leu Asp Ser Ser Gly Tyr Asn Tyr
 1 5 10

<210> 1076
 <211> 3
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 1076

Leu Gly Ser
1

<210> 1077
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 1077
Met Gln Ala Leu Gln Thr Pro Ile Thr
1 5

<210> 1078
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 1078
Gly Tyr Thr Leu Thr Glu Leu Ser
1 5

<210> 1079
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 1079
Phe Asp Pro Glu Asp Gly Glu Thr
1 5

<210> 1080
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 1080
Ala Thr Val Ser Arg Val Arg Gly Val Ile Asn Tyr Tyr Tyr Tyr Met
1 5 10 15

Asp Val

<210> 1081
<211> 11
<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 1081

Gln Ser Leu Leu Tyr Arg Asn Gly Asn Asn Tyr
1 5 10

<210> 1082

<211> 3

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 1082

Leu Gly Ser
1

<210> 1083

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 1083

Met Gln Ala Leu Gln Thr Pro Pro Thr
1 5

<210> 1084

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 1084

Gly Gly Thr Phe Ser Ser Ser Ala
1 5

<210> 1085

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 1085

Ile Ile Pro Ile Tyr Gly Ile Thr
1 5

<210> 1086

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 1086

Ala Arg Asp Asp Thr Ala Arg Arg Val Arg Gly Val Pro Tyr Tyr Tyr
1 5 10 15Tyr Tyr Ala Met Asp Val
20

<210> 1087

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 1087

Gln Ser Val Asp Ser Ser
1 5

<210> 1088

<211> 3

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 1088

Asp Ala Ser
1

<210> 1089

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 1089

Gln Gln Tyr Lys Asp Trp Pro Phe Thr
1 5

<210> 1090

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 1090

Gly Gly Thr Phe Gly Thr Tyr Ala
1 5

<210> 1091
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 1091
Ile Thr Pro Ile Ser Ala Thr Ile
1 5

<210> 1092
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 1092
Ala Arg Gly Phe Glu Tyr Ser Asp Gly Leu Leu Asp Asp
1 5 10

<210> 1093
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 1093
Gln Ser Leu Phe Tyr Ser Asp Asp Gly Asn Thr Tyr
1 5 10

<210> 1094
<211> 3
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 1094
Arg Leu Ser
1

<210> 1095
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 1095
Met Gln His Met Glu Phe Pro Leu Thr
1 5

<210> 1096
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 1096
Gly Gly Ser Ile Ser Ser Ser Ser Tyr Tyr
1 5 10

<210> 1097
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 1097
Ile Tyr Tyr Ser Gly Ser Thr
1 5

<210> 1098
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 1098
Ala Arg Gly Ala Trp Glu Leu Arg Leu Gly Asp Trp Phe Asp Pro
1 5 10 15

<210> 1099
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 1099
Ser Ser Asn Ile Gly Ala Gly Tyr Asp
1 5

<210> 1100
<211> 3
<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 1100
Gly Asn Asn
1

<210> 1101
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 1101
Gln Ser Tyr Asp Ser Ser Leu Ser Ile Tyr Val Val
1 5 10

<210> 1102
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 1102
Ser Gly Ser Ile Ser Ser Thr Asn Trp
1 5

<210> 1103
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 1103
Ile Tyr His Ser Gly Ser Thr
1 5

<210> 1104
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 1104
Ala Arg Val Gly Pro Ala Ala Ile Tyr Tyr
1 5 10

<210> 1105
<211> 8
<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 1105

Ser Asn Asn Val Gly Tyr Glu Gly
1 5

<210> 1106

<211> 3

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 1106

Arg Asn Asn
1

<210> 1107

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 1107

Ser Ala Trp Asp Ser Ser Leu Asn Ala Val Val
1 5 10

<210> 1108

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 1108

Gly Tyr Thr Leu Thr Glu Leu Ser
1 5

<210> 1109

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 1109

Phe Asp Pro Glu Asp Gly Glu Thr
1 5

<210> 1110

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 1110

Ala Thr Ala Lys Pro Gly Ile Ala Val Ala Gly Gln Asn Tyr Tyr Tyr
1 5 10 15Tyr Tyr Met Asp Val
20

<210> 1111

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 1111

Gln Ser Leu Leu Tyr Arg Asn Gly Asn Asn Tyr
1 5 10

<210> 1112

<211> 3

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 1112

Leu Gly Ser
1

<210> 1113

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 1113

Met Gln Ala Leu Gln Thr Pro Pro Thr
1 5

<210> 1114

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 1114

Gly Phe Thr Phe Ser Ser Tyr Ala
1 5

<210> 1115
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 1115
Ile Ser Tyr Asp Gly Ser Asn Lys
1 5

<210> 1116
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 1116
Ala Ser Ser Pro Ile Gly Tyr Ser Tyr Gly Tyr Trp Gly Gly Met Asp
1 5 10 15

Val

<210> 1117
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 1117
Ser Gly Ile Asp Val Arg Thr Asn Lys
1 5

<210> 1118
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 1118
Phe Gln Ser Asp Ser Asp Lys
1 5

<210> 1119
<211> 9
<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 1119

Leu Ile Trp His Thr Ser Gly Trp Val
1 5

<210> 1120

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 1120

Gly Tyr Thr Leu Thr Glu Leu Ser
1 5

<210> 1121

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 1121

Phe Asp Pro Glu Asp Gly Glu Thr
1 5

<210> 1122

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 1122

Ala Thr Gly Pro Ala Ala Ala Gly Val Gly Tyr Tyr Tyr Tyr Met Asp
1 5 10 15

Val

<210> 1123

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 1123

Gln Ser Leu Leu Tyr Arg Asn Gly Tyr Asn Tyr
1 5 10

<210> 1124
 <211> 3
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 1124
 Leu Gly Ser
 1

<210> 1125
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 1125
 Met Gln Ala Leu Gln Thr Pro Pro Thr
 1 5

<210> 1126
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 1126
 Gly Phe Thr Phe Ser Ser Tyr Ala
 1 5

<210> 1127
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 1127
 Ile Ser Tyr Asp Gly Ser Asn Lys
 1 5

<210> 1128
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 1128

Ala Arg Asp Val Met Val Tyr Cys Ser Ser Thr Ser Cys Tyr Phe Tyr
 1 5 10 15

Gly Met Asp Val
 20

<210> 1129
 <211> 6
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 1129
 Gln Asp Ile Arg Asp Tyr
 1 5

<210> 1130
 <211> 3
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 1130
 Asp Ala Ser
 1

<210> 1131
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 1131
 Gln Gln Phe Glu Asn Leu Pro Ile Thr
 1 5

<210> 1132
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 1132
 Gly Tyr Thr Leu Thr Glu Leu Ser
 1 5

<210> 1133
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 1133

Phe Asp Pro Glu Asp Gly Glu Thr
1 5

<210> 1134

<211> 18

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 1134

Ala Thr Gly Gly Tyr Ser Ser Gly Phe Asn Tyr Tyr Tyr Tyr Tyr Tyr Met
1 5 10 15

Asp Val

<210> 1135

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 1135

Gln Ser Leu Leu Tyr Arg Asn Gly Asn Asn Tyr
1 5 10

<210> 1136

<211> 3

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 1136

Leu Gly Ser
1

<210> 1137

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 1137

Met Gln Ala Leu Gln Thr Pro Pro Thr
1 5

<210> 1138
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 1138
 Gly Tyr Thr Leu Thr Glu Leu Ser
 1 5

<210> 1139
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 1139
 Phe Asp Pro Glu Asp Gly Glu Thr
 1 5

<210> 1140
 <211> 14
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 1140
 Ala Thr Gly Val Thr Thr Tyr Tyr Tyr Tyr Gly Met Asp Val
 1 5 10

<210> 1141
 <211> 11
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 1141
 Gln Ser Leu Leu Tyr Ser Asn Gly Asn Asn Phe
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<210> 1142
 <211> 3
 <212> PRT
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<220>
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<400> 1142

Leu Gly Ser
1

<210> 1143
<211> 9
<212> PRT
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<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 1143
Met Gln Ala Leu Gln Thr Pro Pro Thr
1 5

<210> 1144
<211> 8
<212> PRT
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<220>
<223> Description of Artificial Sequence: Synthetic peptide

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Gly Phe Thr Phe Ser Ser Tyr Gly
1 5

<210> 1145
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
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<400> 1145
Ile Arg Tyr Asp Gly Ser Asn Lys
1 5

<210> 1146
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 1146
Ala Arg Asp Leu Phe Asp Phe Trp Trp Asp Gly Met Asp Val
1 5 10

<210> 1147
<211> 7
<212> PRT
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<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 1147
Gln Ser Val Ser Ser Met Tyr
1 5

<210> 1148
<211> 3
<212> PRT
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<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 1148
Gly Ala Ser
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<210> 1149
<211> 10
<212> PRT
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<220>
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<400> 1149
Gln Gln Tyr Val Ser Ser Pro Met Tyr Thr
1 5 10

<210> 1150
<211> 8
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<220>
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Gly Gly Thr Phe Ser Ser Ser Ala
1 5

<210> 1151
<211> 8
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<220>
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Ile Ile Pro Ile Tyr Gly Ile Thr
1 5

<210> 1152
<211> 22
<212> PRT
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<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 1152

Ala Arg Asp Asp Thr Ala Arg Arg Val Arg Gly Val Pro Tyr Tyr Tyr
1 5 10 15

Tyr Tyr Ala Met Asp Val
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<210> 1153

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 1153

Gln Ser Val Ser Ser Tyr
1 5

<210> 1154

<211> 3

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 1154

Asp Ala Ser
1

<210> 1155

<211> 9

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<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 1155

Gln Gln Tyr Asp Asp Trp Pro Gln Thr
1 5

<210> 1156

<211> 8

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<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 1156

Gly Gly Thr Phe Asn Asn Tyr Gly
1 5

<210> 1157

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 1157

Ile Ile Pro Leu Phe Gly Thr Thr
1 5

<210> 1158

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 1158

Ala Arg Asp Arg Met Ala Ala Asp Gly Met Ala Val Phe Asp Tyr
1 5 10 15

<210> 1159

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 1159

Ser Ser Asn Ile Gly Arg His Phe
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<210> 1160

<211> 3

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 1160

Lys Asn Asp
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<210> 1161

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 1161

Ser Ser Trp Asp Ala Ala Leu Asn Gly Val Val
1 5 10

<210> 1162
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 1162
 Gly Tyr Thr Leu Thr Glu Leu Ser
 1 5

<210> 1163
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 1163
 Phe Asp Pro Glu Asp Gly Glu Thr
 1 5

<210> 1164
 <211> 19
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

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 Ala Thr Glu Val Pro Met Val Arg Gly Ala Arg Arg Tyr Tyr Tyr Tyr
 1 5 10 15

Met Asp Val

<210> 1165
 <211> 11
 <212> PRT
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<220>
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<400> 1165
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 1 5 10

<210> 1166
 <211> 3
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<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 1166
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<210> 1167
<211> 9
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<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 1167
Met Gln Gly Leu Gln Thr Pro Pro Thr
1 5

<210> 1168
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
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<400> 1168
Gly Gly Ser Ile Ser Asn Ser Asn Tyr Tyr
1 5 10

<210> 1169
<211> 7
<212> PRT
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<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 1169
Ile Tyr Tyr Ser Gly Ser Thr
1 5

<210> 1170
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

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1 5 10 15

<210> 1171
<211> 9
<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 1171

Ser Ser Asn Ile Gly Ala Gly Tyr Asp
1 5

<210> 1172

<211> 3

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 1172

Gly Asn Asn
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<210> 1173

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 1173

Gln Ser Tyr Asp Ser Ser Leu Ser Val Tyr Val Val
1 5 10

<210> 1174

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 1174

Gly Gly Thr Phe Ser Ser Ser Ala
1 5

<210> 1175

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 1175

Ile Ile Pro Ile Tyr Gly Ile Thr
1 5

<210> 1176

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 1176

Ala Arg Asp Asp Thr Ala Arg Arg Val Arg Gly Val Pro Tyr Tyr Tyr
1 5 10 15Tyr Tyr Ala Met Asp Val
20

<210> 1177

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 1177

Gln Asn Val Tyr Gly Glu
1 5

<210> 1178

<211> 3

<212> PRT

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<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 1178

Asp Thr Phe
1

<210> 1179

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 1179

Gln Gln Arg Arg Asp Trp Pro Ile Thr
1 5

<210> 1180

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 1180

Gly Phe Thr Phe Gly Thr Ser Ser
1 5

<210> 1181
<211> 8
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<220>
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<400> 1181
Ile Ser Phe Asp Gly Thr Glu Ile
1 5

<210> 1182
<211> 15
<212> PRT
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<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 1182
Ala Lys Gly Ser Gly Asn Ile Tyr Phe Tyr Ser Gly Met Asp Val
1 5 10 15

<210> 1183
<211> 6
<212> PRT
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<220>
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<400> 1183
Gln Ser Ile Ser Gly Trp
1 5

<210> 1184
<211> 3
<212> PRT
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<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 1184
Glu Thr Ser
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<210> 1185
<211> 9
<212> PRT
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<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 1185
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 1 5

<210> 1186
 <211> 8
 <212> PRT
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<220>
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<400> 1186
 Gly Tyr Thr Leu Thr Glu Leu Ser
 1 5

<210> 1187
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 1187
 Phe Asp Pro Glu Asp Gly Glu Thr
 1 5

<210> 1188
 <211> 19
 <212> PRT
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<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 1188
 Ala Thr Gly Val Pro Ala Ala Ile Gly Val Tyr Tyr Tyr Tyr Tyr Tyr
 1 5 10 15

Met Asp Val

<210> 1189
 <211> 11
 <212> PRT
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<220>
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<400> 1189
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 1 5 10

<210> 1190
 <211> 3

<212> PRT
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<220>
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<400> 1190
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<210> 1191
 <211> 9
 <212> PRT
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<220>
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<400> 1191
 Met Gln Ala Leu Gln Ser Pro Val Thr
 1 5

<210> 1192
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 1192
 Gly Tyr Thr Leu Thr Glu Leu Ser
 1 5

<210> 1193
 <211> 8
 <212> PRT
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<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 1193
 Phe Asp Pro Glu Asp Gly Glu Thr
 1 5

<210> 1194
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 1194
 Ala Thr Asp Ser Arg Asp Gly Pro Ala Ala Arg Gly Gly Tyr Tyr Tyr
 1 5 10 15

Tyr Met Asp Val
20

<210> 1195
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 1195
Gln Ser Leu Leu Tyr Ile Asn Gly Tyr Asn Tyr
1 5 10

<210> 1196
<211> 3
<212> PRT
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<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 1196
Leu Gly Ser
1

<210> 1197
<211> 9
<212> PRT
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<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 1197
Met Gln Ala Leu Gln Thr Pro Pro Thr
1 5

<210> 1198
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 1198
Gly Gly Thr Phe Ser Ser Tyr Ala
1 5

<210> 1199
<211> 8
<212> PRT
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<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 1199
Ile Ile Pro Ile Phe Gly Thr Ala
1 5

<210> 1200
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 1200
Ala Arg Asp Ala Tyr Tyr Tyr Asp Ser Ser Gly Tyr Tyr Asn Pro Asp
1 5 10 15

Ala Phe Asp Ile
20

<210> 1201
<211> 11
<212> PRT
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<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 1201
Gln Ser Leu Leu His Ser Asn Gly Tyr Asn Tyr
1 5 10

<210> 1202
<211> 3
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 1202
Leu Gly Ser
1

<210> 1203
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 1203
Met Gln Gly Leu Gln Thr Pro Arg Thr
1 5

<210> 1204
<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 1204

Gly Phe Ser Leu Thr Ser Gly Gly Met Ser
1 5 10

<210> 1205

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 1205

Ile Asp Trp Asn Asp Asp Lys
1 5

<210> 1206

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 1206

Ala Arg Ile Arg Gly Met Thr Trp Gly Phe Asp Ser
1 5 10

<210> 1207

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 1207

Gln Ser Val Ser Ser Ser Tyr
1 5

<210> 1208

<211> 3

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 1208

Gly Ala Ser
1

<210> 1209

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 1209

Gln Gln Tyr Gly Thr Thr Pro Phe Ala
1 5

<210> 1210

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 1210

Gly Tyr Thr Phe Thr Ala Tyr Tyr
1 5

<210> 1211

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 1211

Ile Asn Pro Asn Ser Gly Gly Thr
1 5

<210> 1212

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 1212

Ala Arg Asp Gly Ala Phe Tyr Tyr Gly Ser Glu Asn Tyr Tyr Asn Ala
1 5 10 15Gly Trp Phe Asp Pro
20

<210> 1213

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 1213
 Gln Ser Leu Leu Ser Gly Asn Gly Tyr Asn Tyr
 1 5 10

<210> 1214
 <211> 3
 <212> PRT
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<220>
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<400> 1214
 Leu Gly Ser
 1

<210> 1215
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 1215
 Met Gln Ala Leu Lys Ser Pro Leu Thr
 1 5

<210> 1216
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 1216
 Gly Tyr Thr Phe Thr Asn Tyr Tyr
 1 5

<210> 1217
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 1217
 Ile Asn Pro Ser Gly Gly Ile Thr
 1 5

<210> 1218
 <211> 18
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 1218

Ala Arg Ala Gly Leu Gly Tyr Asn Trp Asn Tyr Ala Pro Ser Gly Met
1 5 10 15

Asp Val

<210> 1219

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 1219

Ser Ser Asp Val Gly Gly Tyr Asn Tyr
1 5

<210> 1220

<211> 3

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 1220

Glu Val Ser
1

<210> 1221

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 1221

Ser Ser Tyr Ala Gly Ser Asn Asn Leu Val
1 5 10

<210> 1222

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 1222

Gly Gly Ser Ile Ser Ser Ser Ser Tyr Tyr
1 5 10

<210> 1223

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 1223

Ile Tyr Tyr Ser Gly Ser Thr
1 5

<210> 1224

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 1224

Ala Arg Gly Ala Trp Glu Leu Arg Leu Gly Asp Trp Phe Asp Pro
1 5 10 15

<210> 1225

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 1225

Ser Ser Asn Ile Gly Ala Gly Tyr Asp
1 5

<210> 1226

<211> 3

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 1226

Gly Tyr Ser
1

<210> 1227

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 1227

Gln Ser Tyr Asp Ser Ser Leu Ser Val Tyr Val Val
1 5 10

<210> 1228
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 1228
 Gly Phe Thr Phe Asp Asp Tyr Ala
 1 5

<210> 1229
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 1229
 Ile Ser Trp Asn Ser Gly Ser Ile
 1 5

<210> 1230
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 1230
 Ala Lys Asp Val Asn Arg Ile Leu Val Ala Gly Met Val Asp Tyr
 1 5 10 15

<210> 1231
 <211> 11
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 1231
 Gln Ser Leu Leu His Ser Asn Gly Tyr Asn Tyr
 1 5 10

<210> 1232
 <211> 3
 <212> PRT
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<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 1232

Leu Gly Ser
1

<210> 1233
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 1233
Met Gln Gly Leu Gln Thr Pro Ile Thr
1 5

<210> 1234
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 1234
Arg Phe Thr Phe Glu Asp Tyr Ala
1 5

<210> 1235
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 1235
Ile Ser Trp Lys Ser Gly Gly Ile
1 5

<210> 1236
<211> 15
<212> PRT
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<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 1236
Val Lys Asp Pro Thr Leu Val Ala Thr Asp Arg Ala Phe Asn Ile
1 5 10 15

<210> 1237
<211> 11
<212> PRT
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<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 1237
 Gln Ser Leu Leu His Ser Asn Gly Tyr Asn Tyr
 1 5 10

<210> 1238
 <211> 3
 <212> PRT
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<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 1238
 Leu Gly Ser
 1

<210> 1239
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 1239
 Met Gln Tyr Leu Gln Thr Pro Asp Thr
 1 5

<210> 1240
 <211> 8
 <212> PRT
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<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 1240
 Gly Gly Thr Phe Ser Ser Ser Ala
 1 5

<210> 1241
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 1241
 Ile Ile Pro Ile Tyr Gly Ile Thr
 1 5

<210> 1242
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 1242

Ala Arg Asp Asp Thr Ala Arg Arg Val Arg Gly Val Pro Tyr Tyr Tyr
1 5 10 15

Tyr Tyr Ala Met Asp Val
20

<210> 1243

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 1243

Gln Ser Leu Leu Asp Ser Asp Asp Gly Asn Ile His
1 5 10

<210> 1244

<211> 3

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 1244

Thr Leu Ser
1

<210> 1245

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 1245

Met Gln Arg Lys Glu Phe Pro Leu Thr
1 5

<210> 1246

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 1246

Gly Phe Thr Phe Ser Ser Tyr Gly
1 5

<210> 1247
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 1247
 Ile Ser Tyr Asp Gly Ser Asn Lys
 1 5

<210> 1248
 <211> 18
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 1248
 Ala Lys Glu Asp Arg Leu Arg Phe Leu Glu Trp Leu Phe Tyr Gly Met
 1 5 10 15

Asp Val

<210> 1249
 <211> 6
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 1249
 His Asp Ile Tyr Thr Tyr
 1 5

<210> 1250
 <211> 3
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 1250
 Asp Ala Ser
 1

<210> 1251
 <211> 11
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 1251
 Gln Gln Tyr Asp Asn His Pro Pro Glu Val Thr
 1 5 10

<210> 1252
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 1252
 Gly Gly Thr Phe Ser Ser Ser Ala
 1 5

<210> 1253
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 1253
 Ile Ile Pro Ile Tyr Gly Ile Thr
 1 5

<210> 1254
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 1254
 Ala Arg Asp Asp Thr Ala Arg Arg Val Arg Gly Val Pro Tyr Tyr Tyr
 1 5 10 15

Tyr Tyr Ala Met Asp Val
 20

<210> 1255
 <211> 6
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 1255
 Gln Asp Ile Asp Asp Asp
 1 5

<210> 1256
 <211> 3

<212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 1256
 Glu Ala Ser
 1

<210> 1257
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 1257
 Leu Gln His Asp Asn Leu Pro Leu Thr
 1 5

<210> 1258
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 1258
 Gly Tyr Thr Leu Thr Glu Leu Ser
 1 5

<210> 1259
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 1259
 Phe Asp Pro Glu Asp Gly Glu Thr
 1 5

<210> 1260
 <211> 19
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 1260
 Ala Thr Glu Asp Pro Gly Pro Val Ala Gly Pro Tyr Tyr Tyr Tyr Gly
 1 5 10 15

Met Asp Val

<210> 1261
 <211> 11
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 1261
 Gln Ser Leu Leu Tyr Ile Asn Gly Tyr His Tyr
 1 5 10

<210> 1262
 <211> 3
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 1262
 Leu Gly Ser
 1

<210> 1263
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 1263
 Met Gln Ala Leu Gln Thr Pro Pro Thr
 1 5

<210> 1264
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 1264
 Gly Tyr Met Phe Thr Asn Tyr Pro
 1 5

<210> 1265
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 1265
Ile Asn Ala Gly Thr Gly Asn Thr
1 5

<210> 1266
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 1266
Ala Arg Glu Gly Met Phe Tyr Tyr Gly Leu Glu Ser Tyr Tyr Lys Gly
1 5 10 15

Gly Trp Phe Asp Pro
20

<210> 1267
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 1267
Gln Ser Leu Leu His Arg Asn Gly Tyr Asn Tyr
1 5 10

<210> 1268
<211> 3
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 1268
Leu Ala Ser
1

<210> 1269
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 1269
Met Gln Ala Leu Gln Thr Pro Leu Thr
1 5

<210> 1270
<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 1270

Gly Gly Thr Phe Ser Ser Ser Ala
1 5

<210> 1271

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 1271

Ile Ile Pro Ile Tyr Gly Ile Thr
1 5

<210> 1272

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 1272

Ala Arg Asp Asp Thr Ala Arg Arg Val Arg Gly Val Pro Tyr Tyr Tyr
1 5 10 15Tyr Tyr Ala Met Asp Val
20

<210> 1273

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 1273

Gln Ser Leu Leu Asp Ser Asp Asp Gly Asn Thr Tyr
1 5 10

<210> 1274

<211> 3

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 1274

Thr Leu Ser
1

<210> 1275
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 1275
Met Gln Arg Leu Gln Phe Pro Leu Thr
1 5

<210> 1276
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 1276
Thr Tyr Thr Phe Thr Thr Tyr Tyr
1 5

<210> 1277
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 1277
Ile Tyr Pro Ser Gly Gly Asn Thr
1 5

<210> 1278
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 1278
Val Arg Asp Gln Asn Tyr Tyr Tyr Ser Ala Met Asp Val
1 5 10

<210> 1279
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 1279
Gln Asp Ile Arg Asn Tyr
1 5

<210> 1280
<211> 3
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 1280
Asp Ala Ser
1

<210> 1281
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 1281
Gln Gln Phe Glu Asn Leu Pro Ile Thr
1 5

<210> 1282
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 1282
Gly Gly Thr Phe Ser Ser Ser Ala
1 5

<210> 1283
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 1283
Ile Ile Pro Ile Tyr Gly Ile Thr
1 5

<210> 1284
<211> 22
<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 1284

Ala Arg Asp Asp Thr Ala Arg Arg Val Arg Gly Val Pro Tyr Tyr Tyr
1 5 10 15

Tyr Tyr Ala Met Asp Val
20

<210> 1285

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 1285

Arg Asp Ile Ser Asp Ser
1 5

<210> 1286

<211> 3

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 1286

Asp Ala Ser
1

<210> 1287

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 1287

His Gln Tyr Asp Asn Leu Pro Leu Thr
1 5

<210> 1288

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 1288

Gly Phe Asn Phe Arg Gly Tyr Ala
1 5

<210> 1289

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 1289

Ile Ser Gly Ser Gly Gly Thr Thr
1 5

<210> 1290

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 1290

Ala Gln Ser Tyr Ala Gln Ile Gly Tyr Gly Gly His Ile Asp His
1 5 10 15

<210> 1291

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 1291

Ser Gly Ile Asp Val Ala Thr Tyr Met
1 5

<210> 1292

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 1292

Tyr Lys Ser Asp Ser Asp Lys
1 5

<210> 1293

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 1293

Leu Ile Trp His Gly Ser His Tyr Val
1 5

<210> 1294
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 1294
 Gly Tyr Thr Leu Thr Glu Leu Ser
 1 5

<210> 1295
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 1295
 Phe Asp Pro Glu Asp Gly Glu Thr
 1 5

<210> 1296
 <211> 19
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 1296
 Ala Thr Gly Val Pro Ala Ala Ile Gly Val Tyr Tyr Tyr Tyr Tyr Tyr
 1 5 10 15

Met Asp Val

<210> 1297
 <211> 11
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 1297
 Gln Ser Leu Leu Tyr Arg Asn Gly Tyr Asn Tyr
 1 5 10

<210> 1298
 <211> 3
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 1298
Trp Gly Ser
1

<210> 1299
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 1299
Met Gln Ala Val Gln Asn Pro Pro Thr
1 5

<210> 1300
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 1300
Gly Gly Thr Phe Ser Ser Ser Ala
1 5

<210> 1301
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 1301
Ile Ile Pro Ile Tyr Gly Ile Thr
1 5

<210> 1302
<211> 22
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 1302
Ala Arg Asp Asp Thr Ala Arg Arg Val Arg Gly Val Pro Tyr Tyr Tyr
1 5 10 15

Tyr Tyr Ala Met Asp Val
20

<210> 1303
 <211> 6
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 1303
 Gln Asn Ile Asp Ser Ser
 1 5

<210> 1304
 <211> 3
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 1304
 Tyr Ala Ser
 1

<210> 1305
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 1305
 His Gln Ser Ser Ser Leu Pro Leu Thr
 1 5

<210> 1306
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 1306
 Gly Gly Thr Phe Ser Ser Ser Ala
 1 5

<210> 1307
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 1307
 Ile Ile Pro Ile Tyr Gly Ile Thr
 1 5

<210> 1308
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 1308
 Ala Arg Asp Asp Thr Ala Arg Arg Val Arg Gly Val Pro Tyr Tyr Tyr
 1 5 10 15

Tyr Tyr Ala Met Asp Val
 20

<210> 1309
 <211> 7
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 1309
 Gln Ser Val Tyr Asn Asn Tyr
 1 5

<210> 1310
 <211> 3
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 1310
 Asp Ala Ser
 1

<210> 1311
 <211> 10
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 1311
 Gln Gln Tyr Asn Ser Trp Pro Pro Tyr Thr
 1 5 10

<210> 1312
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 1312
Gly Gly Thr Phe Ser Ser Tyr Ala
1 5

<210> 1313
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 1313
Ile Ile Pro Ile Phe Gly Thr Ala
1 5

<210> 1314
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 1314
Ala Arg Asp Ala Tyr Tyr Tyr Asp Ser Ser Gly Tyr Tyr Asn Pro Asp
1 5 10 15

Ala Phe Asp Ile
20

<210> 1315
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 1315
Gln Ser Leu Leu Tyr Ser Asn Gly Tyr Asn Tyr
1 5 10

<210> 1316
<211> 3
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 1316
Leu Gly Ser
1

<210> 1317

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 1317

Met Gln Ala Arg Gln Thr Pro Tyr Thr
1 5

<210> 1318

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 1318

Gly Gly Thr Phe Ser Ser Ser Ala
1 5

<210> 1319

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 1319

Ile Ile Pro Ile Tyr Gly Ile Thr
1 5

<210> 1320

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 1320

Ala Arg Asp Asp Thr Ala Arg Arg Val Arg Gly Val Pro Tyr Tyr Tyr
1 5 10 15Tyr Tyr Ala Met Asp Val
20

<210> 1321

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 1321
Glu Ser Val Thr Thr Phe
1 5

<210> 1322
<211> 3
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 1322
Asp Ala Ser
1

<210> 1323
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 1323
His Gln His Thr Asn Trp Pro Leu Thr
1 5

<210> 1324
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 1324
Gly Tyr Thr Leu Thr Glu Leu Ser
1 5

<210> 1325
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 1325
Phe Asp Pro Glu Asp Gly Glu Thr
1 5

<210> 1326
<211> 22
<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 1326

Ala Thr Glu Val Gly Tyr Cys Ser Gly Gly Ser Cys Tyr Ile Ser Tyr
1 5 10 15

Tyr Tyr Gly Met Asp Val
20

<210> 1327

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 1327

Gln Ser Leu Leu Tyr Arg Asn Gly His Asn Phe
1 5 10

<210> 1328

<211> 3

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 1328

Leu Gly Ser
1

<210> 1329

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 1329

Met Gln Ala Leu Gln Thr Pro Pro Thr
1 5

<210> 1330

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 1330

Gly Gly Thr Phe Ser Ser Ser Ala
1 5

<210> 1331
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 1331
 Ile Ile Pro Ile Tyr Gly Ile Thr
 1 5

<210> 1332
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 1332
 Ala Arg Asp Asp Thr Ala Arg Arg Val Arg Gly Val Pro Tyr Tyr Tyr
 1 5 10 15

Tyr Tyr Ala Met Asp Val
 20

<210> 1333
 <211> 6
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 1333
 Gln Thr Met Asn Asn Tyr
 1 5

<210> 1334
 <211> 3
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 1334
 Asp Ala Ser
 1

<210> 1335
 <211> 10
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 1335
 Gln Gln Tyr Gly Asp Trp Leu Pro Ile Thr
 1 5 10

<210> 1336
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 1336
 Gly Tyr Thr Leu Thr Glu Leu Ser
 1 5

<210> 1337
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 1337
 Phe Asp Pro Glu Asp Gly Glu Thr
 1 5

<210> 1338
 <211> 17
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 1338
 Ala Thr Ala Phe Pro Glu Ala Thr Ile Ser Tyr Tyr Tyr Tyr Met Asp
 1 5 10 15

val

<210> 1339
 <211> 11
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 1339
 Gln Ser Leu Leu Tyr Arg Asn Gly Tyr Asn Tyr
 1 5 10

<210> 1340
 <211> 3

<212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 1340
 Trp Gly Ser
 1

<210> 1341
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 1341
 Met Gln Ala Val Gln Asn Pro Pro Thr
 1 5

<210> 1342
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 1342
 Gly Gly Thr Phe Ser Ser Ser Ala
 1 5

<210> 1343
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 1343
 Ile Ile Pro Ile Tyr Gly Ile Thr
 1 5

<210> 1344
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 1344
 Ala Arg Asp Asp Thr Ala Arg Arg Val Arg Gly Val Pro Tyr Tyr Tyr
 1 5 10 15

Tyr Tyr Ala Met Asp Val
20

<210> 1345
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 1345
Arg Ser Leu Leu Asp Ser Asp Asp Gly Asn Thr His
1 5 10

<210> 1346
<211> 3
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 1346
Ser Leu Ser
1

<210> 1347
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 1347
Met Gln Arg Lys Glu Phe Pro Leu Thr
1 5

<210> 1348
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 1348
Gly Gly Thr Phe Ser Ser Tyr Ala
1 5

<210> 1349
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 1349
Ile Ile Pro Ile phe Gly Thr Ala
1 5

<210> 1350
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 1350
Ala Arg Gly Pro Trp Tyr Tyr Asp Ser Ser Gly Tyr Ser Ser Tyr Ala
1 5 10 15

Tyr Tyr Met Asp Val
20

<210> 1351
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 1351
Gln Ser Leu Leu His Ser Asp Gly Tyr Asn Tyr
1 5 10

<210> 1352
<211> 3
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 1352
Leu Gly Ser
1

<210> 1353
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 1353
Met Gln Ala Leu His Thr Pro Gly Val Thr
1 5 10

<210> 1354
<211> 330

<212> PRT

<213> Homo sapiens

<400> 1354

Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser Lys
 1 5 10 15
 Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr
 20 25 30
 Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser
 35 40 45
 Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser
 50 55 60
 Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr
 65 70 75 80
 Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys
 85 90 95
 Lys Val Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys
 100 105 110
 Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro
 115 120 125
 Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys
 130 135 140
 Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp
 145 150 155 160
 Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu
 165 170 175
 Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu
 180 185 190
 His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn
 195 200 205
 Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly
 210 215 220
 Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Asp Glu
 225 230 235 240
 Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr
 245 250 255

Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn
260 265 270

Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe
275 280 285

Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn
290 295 300

Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr
305 310 315 320

Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
325 330

<210> 1355

<211> 326

<212> PRT

<213> Homo sapiens

<400> 1355

Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Cys Ser Arg
1 5 10 15

Ser Thr Ser Glu Ser Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr
20 25 30

Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser
35 40 45

Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser
50 55 60

Leu Ser Ser Val Val Thr Val Pro Ser Ser Asn Phe Gly Thr Gln Thr
65 70 75 80

Tyr Thr Cys Asn Val Asp His Lys Pro Ser Asn Thr Lys Val Asp Lys
85 90 95

Thr Val Glu Arg Lys Cys Cys Val Glu Cys Pro Pro Cys Pro Ala Pro
100 105 110

Pro Val Ala Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp
115 120 125

Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp
130 135 140

Val Ser His Glu Asp Pro Glu Val Gln Phe Asn Trp Tyr Val Asp Gly
145 150 155 160

Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Phe Asn
165 170 175

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Ser Thr Phe Arg Val Val Ser Val Leu Thr Val Val His Gln Asp Trp
180 185 190

Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Gly Leu Pro
195 200 205

Ala Pro Ile Glu Lys Thr Ile Ser Lys Thr Lys Gly Gln Pro Arg Glu
210 215 220

Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu Met Thr Lys Asn
225 230 235 240

Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile
245 250 255

Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr
260 265 270

Thr Pro Pro Met Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys
275 280 285

Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys
290 295 300

Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu
305 310 315 320

Ser Leu Ser Pro Gly Lys
325

<210> 1356
<211> 377
<212> PRT
<213> Homo sapiens

<400> 1356
Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Cys Ser Arg
1 5 10 15

Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr
20 25 30

Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser
35 40 45

Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser
50 55 60

Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr
65 70 75 80

Tyr Thr Cys Asn Val₈₅ Asn His Lys Pro Ser₉₀ Asn Thr Lys Val₉₅ Asp Lys
 Arg Val₁₀₀ Glu Leu Lys Thr Pro Leu Gly₁₀₅ Asp Thr Thr His Thr₁₁₀ Cys Pro
 Arg Cys Pro₁₁₅ Glu Pro Lys Ser Cys₁₂₀ Asp Thr Pro Pro₁₂₅ Cys Pro Arg
 Cys Pro₁₃₀ Glu Pro Lys Ser Cys₁₃₅ Asp Thr Pro Pro₁₄₀ Cys Pro Arg Cys
 Pro₁₄₅ Glu Pro Lys Ser Cys₁₅₀ Asp Thr Pro Pro₁₅₅ Cys Pro Arg Cys Pro₁₆₀
 Ala Pro Glu Leu Leu₁₆₅ Gly Gly Pro Ser Val₁₇₀ Phe Leu Phe Pro Pro₁₇₅ Lys
 Pro Lys Asp Thr₁₈₀ Leu Met Ile Ser Arg₁₈₅ Thr Pro Glu Val Thr₁₉₀ Cys Val
 Val Val₁₉₅ Asp Val Ser His Glu Asp₂₀₀ Pro Glu Val Gln Phe₂₀₅ Lys Trp Tyr
 Val Asp₂₁₀ Gly Val Glu Val His₂₁₅ Asn Ala Lys Thr Lys₂₂₀ Pro Arg Glu Glu
 Gln Tyr Asn Ser Thr Phe₂₃₀ Arg Val Val Ser Val₂₃₅ Leu Thr Val Leu His₂₄₀
 Gln Asp Trp Leu Asn₂₄₅ Gly Lys Glu Tyr Lys₂₅₀ Cys Lys Val Ser Asn₂₅₅ Lys
 Ala Leu Pro Ala₂₆₀ Pro Ile Glu Lys Thr₂₆₅ Ile Ser Lys Thr Lys₂₇₀ Gly Gln
 Pro Arg Glu₂₇₅ Pro Gln Val Tyr Thr₂₈₀ Leu Pro Pro Ser Arg₂₈₅ Glu Glu Met
 Thr Lys₂₉₀ Asn Gln Val Ser Leu₂₉₅ Thr Cys Leu Val Lys₃₀₀ Gly Phe Tyr Pro
 Ser Asp Ile Ala Val Glu₃₁₀ Trp Glu Ser Ser Gly₃₁₅ Gln Pro Glu Asn Asn₃₂₀
 Tyr Asn Thr Thr Pro₃₂₅ Pro Met Leu Asp Ser₃₃₀ Asp Gly Ser Phe Phe₃₃₅ Leu
 Tyr Ser Lys Leu₃₄₀ Thr Val Asp Lys Ser₃₄₅ Arg Trp Gln Gln Gly₃₅₀ Asn Ile

Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn Arg Phe Thr Gln
 355 360 365

Lys Ser Leu Ser Leu Ser Pro Gly Lys
 370 375

<210> 1357
 <211> 327
 <212> PRT
 <213> Homo sapiens

<400> 1357
 Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Cys Ser Arg
 1 5 10 15

Ser Thr Ser Glu Ser Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr
 20 25 30

Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser
 35 40 45

Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser
 50 55 60

Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Lys Thr
 65 70 75 80

Tyr Thr Cys Asn Val Asp His Lys Pro Ser Asn Thr Lys Val Asp Lys
 85 90 95

Arg Val Glu Ser Lys Tyr Gly Pro Pro Cys Pro Ser Cys Pro Ala Pro
 100 105 110

Glu Phe Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys
 115 120 125

Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val
 130 135 140

Asp Val Ser Gln Glu Asp Pro Glu Val Gln Phe Asn Trp Tyr Val Asp
 145 150 155 160

Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Phe
 165 170 175

Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp
 180 185 190

Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Gly Leu
 195 200 205

Pro Ser Ser Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg
 210 215 220

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Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Gln Glu Glu Met Thr Lys
225 230 235 240

Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp
245 250 255

Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys
260 265 270

Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser
275 280 285

Arg Leu Thr Val Asp Lys Ser Arg Trp Gln Glu Gly Asn Val Phe Ser
290 295 300

Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser
305 310 315 320

Leu Ser Leu Ser Leu Gly Lys
325

<210> 1358
<211> 21
<212> PRT
<213> Homo sapiens

<400> 1358
Thr Thr Leu Ala Val Leu His Pro Glu Arg Gly Ile Arg Gln Trp Ala
1 5 10 15

Pro Ala Arg Gln Ala
20

<210> 1359
<211> 34
<212> PRT
<213> Homo sapiens

<400> 1359
Thr Thr Leu Ala Val Leu His Pro Glu Arg Gly Ile Arg Gln Trp Ala
1 5 10 15

Pro Ala Arg Gln Ala Arg Trp Glu Thr Gln Ser Ser Ile Ser Leu Ile
20 25 30

Leu Glu

<210> 1360
<211> 17
<212> PRT
<213> Homo sapiens

<400> 1360

Ala Arg Gln Ala Arg Trp Glu Thr Gln Ser Ser Ile Ser Leu Ile Leu
 1 5 10 15

Glu

<210> 1361
 <211> 16
 <212> PRT
 <213> Homo sapiens

<400> 1361
 Thr Phe Cys Cys Lys Phe Ala Ser Phe Pro Glu Gly Ser Trp Glu Ala
 1 5 10 15

<210> 1362
 <211> 24
 <212> PRT
 <213> Homo sapiens

<400> 1362
 Thr Phe Cys Cys Lys Phe Ala Ser Phe Pro Glu Gly Ser Trp Glu Ala
 1 5 10 15

Cys Gly Ser Leu Pro Pro Ser Ser
 20

<210> 1363
 <211> 15
 <212> PRT
 <213> Homo sapiens

<400> 1363
 Glu Ala Thr Glu Leu Ser Ser Phe Thr Ile Arg Cys Gly Phe Leu
 1 5 10 15

<210> 1364
 <211> 22
 <212> PRT
 <213> Homo sapiens

<400> 1364
 Glu Val Trp Val Gln Val Arg Met Glu Ala Thr Glu Leu Ser Ser Phe
 1 5 10 15

Thr Ile Arg Cys Gly Phe
 20

<210> 1365
 <211> 19
 <212> PRT
 <213> Homo sapiens

<400> 1365
 Phe Thr Ile Arg Cys Gly Phe Leu Gly Ser Gly Ser Ile Ser Leu Val
 1 5 10 15

Thr Val Ser

<210> 1366
 <211> 24
 <212> PRT
 <213> Homo sapiens

<400> 1366
 Ser Ile Ser Leu Val Thr Val Ser Trp Gly Gly Pro Asn Gly Ala Gly
 1 5 10 15

Gly Thr Thr Leu Ala Val Leu His
 20

<210> 1367
 <211> 26
 <212> PRT
 <213> Homo sapiens

<400> 1367
 Ser Ile Ser Leu Ile Leu Glu Gly Ser Gly Ala Ser Ser Pro Cys Ala
 1 5 10 15

Asn Thr Thr Phe Cys Cys Lys Phe Ala Ser
 20 25

<210> 1368
 <211> 98
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic polypeptide

<400> 1368
 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr
 20 25 30

Tyr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
 35 40 45

Gly Ile Ile Asn Pro Ser Gly Gly Ser Thr Ser Tyr Ala Gln Lys Phe
 50 55 60

Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val Tyr
 65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

Ala Arg

<210> 1369
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 1369
 Tyr Phe Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 1 5 10 15

<210> 1370
 <211> 120
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic polypeptide

<220>
 <221> MOD_RES
 <222> (33)..(33)
 <223> Asn, Gln, Ser or Ala

<220>
 <221> MOD_RES
 <222> (105)..(105)
 <223> Asn, Gln, Ser or Ala

<400> 1370
 Glu Val Gln Leu Gln Gln Ser Gly Pro Glu Leu Val Lys Pro Gly Ala
 1 5 10 15

Ser Val Lys Ile Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asp Tyr
 20 25 30

Xaa Ile Asn Trp Val Lys Gln Ser His Gly Lys Ser Leu Glu Trp Ile
 35 40 45

Gly Tyr Ile Tyr Pro Tyr Ile Gly Gly Ser Gly Tyr Asn Gln Lys Phe
 50 55 60

Lys Ser Lys Ala Thr Leu Ser Ala Asp Asn Pro Ser Ser Thr Ala Tyr
 65 70 75 80

Met Glu Leu Arg Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr Tyr Cys
 85 90 95

Ala Arg Glu Asp Lys Thr Ala Arg Xaa Ala Met Asp Tyr Trp Gly Gln
 100 105 110

Gly Thr Pro Val Thr Val Ser Ser
 115 120

<210> 1371

<211> 98

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<220>

<221> MOD_RES

<222> (33)..(33)

<223> Tyr, Gln, Ser or Ala

<400> 1371

Gln	Val	Gln	Leu	Val	Gln	Ser	Gly	Ala	Glu	Val	Lys	Lys	Pro	Gly	Ala
1				5					10					15	

Ser	Val	Lys	Val	Ser	Cys	Lys	Ala	Ser	Gly	Tyr	Thr	Phe	Thr	Ser	Tyr
			20					25					30		

Xaa	Met	His	Trp	Val	Arg	Gln	Ala	Pro	Gly	Gln	Gly	Leu	Glu	Trp	Met
		35					40					45			

Gly	Ile	Ile	Asn	Pro	Ser	Gly	Gly	Ser	Thr	Ser	Tyr	Ala	Gln	Lys	Phe
	50					55					60				

Gln	Gly	Arg	Val	Thr	Met	Thr	Arg	Asp	Thr	Ser	Thr	Ser	Thr	Val	Tyr
65					70					75					80

Met	Glu	Leu	Ser	Ser	Leu	Arg	Ser	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys
				85					90					95	

Ala Arg

<210> 1372

<211> 120

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<220>

<221> MOD_RES

<222> (33)..(33)

<223> Asn, Gln, Ser or Ala

<220>

<221> MOD_RES

<222> (105)..(105)

<223> Asn, Gln, Ser or Ala

<400> 1372

Gln	Val	Gln	Leu	Val	Gln	Ser	Gly	Ala	Glu	Val	Lys	Lys	Pro	Gly	Ala
1				5					10					15	

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Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asp Tyr
20 25 30

Xaa Ile Asn Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
35 40 45

Gly Tyr Ile Tyr Pro Tyr Ile Gly Gly Ser Gly Tyr Ala Gln Lys Phe
50 55 60

Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val Tyr
65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Arg Glu Asp Lys Thr Ala Arg Xaa Ala Met Asp Tyr Trp Gly Gln
100 105 110

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 1373

<211> 120

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<220>

<221> MOD_RES

<222> (33)..(33)

<223> Asn, Gln, Ser or Ala

<220>

<221> MOD_RES

<222> (105)..(105)

<223> Asn, Gln, Ser or Ala

<400> 1373

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asp Tyr
20 25 30

Xaa Ile Asn Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Ile
35 40 45

Gly Tyr Ile Tyr Pro Tyr Ile Gly Gly Ser Gly Tyr Ala Gln Lys Phe
50 55 60

Gln Gly Arg Val Thr Met Thr Ala Asp Thr Ser Thr Ser Thr Val Tyr
65 70 75 80

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Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Arg Glu Asp Lys Thr Ala Arg Xaa Ala Met Asp Tyr Trp Gly Gln
100 105 110

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 1374
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<220>
<221> MOD_RES
<222> (33)..(33)
<223> Asn, Gln, Ser or Ala

<220>
<221> MOD_RES
<222> (105)..(105)
<223> Asn, Gln, Ser or Ala

<400> 1374
Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
1 5 10 15

Ser Val Lys Ile Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asp Tyr
20 25 30

Xaa Ile Asn Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Ile
35 40 45

Gly Tyr Ile Tyr Pro Tyr Ile Gly Gly Ser Gly Tyr Ala Gln Lys Phe
50 55 60

Gln Gly Arg Ala Thr Leu Thr Ala Asp Thr Ser Thr Ser Thr Ala Tyr
65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Arg Glu Asp Lys Thr Ala Arg Xaa Ala Met Asp Tyr Trp Gly Gln
100 105 110

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 1375
<211> 120

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<220>

<221> MOD_RES

<222> (33)..(33)

<223> Asn, Gln, Ser or Ala

<220>

<221> MOD_RES

<222> (105)..(105)

<223> Asn, Gln, Ser or Ala

<400> 1375

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
1 5 10 15Ser Val Lys Ile Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asp Tyr
20 25 30Xaa Ile Asn Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Ile
35 40 45Gly Tyr Ile Tyr Pro Tyr Ile Gly Gly Ser Gly Tyr Ala Gln Lys Phe
50 55 60Gln Gly Arg Ala Thr Leu Thr Ala Asp Asn Ser Thr Ser Thr Ala Tyr
65 70 75 80Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95Ala Arg Glu Asp Lys Thr Ala Arg Xaa Ala Met Asp Tyr Trp Gly Gln
100 105 110Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 1376

<211> 96

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 1376

Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
1 5 10 15Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Ser Tyr
20 25 30

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Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile
35 40 45

Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser Gly
50 55 60

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
65 70 75 80

Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Ser Thr Pro Pro
85 90 95

<210> 1377

<211> 12

<212> PRT

<213> Artificial sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 1377

Tyr Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
1 5 10

<210> 1378

<211> 107

<212> PRT

<213> Artificial sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<220>

<221> MOD_RES

<222> (28)..(28)

<223> Asn, Gln, Ser, Ala or Asp

<220>

<221> MOD_RES

<222> (32)..(32)

<223> Asn, Gln, Ser, Ala or Asp

<220>

<221> MOD_RES

<222> (53)..(53)

<223> Asn, Gln, Ser, Ala or Asp

<220>

<221> MOD_RES

<222> (92)..(92)

<223> Trp, Tyr, Phe or His

<400> 1378

Asp Ile Gln Met Thr Gln Ser Pro Ala Ser Leu Ser Val Ser Val Gly
1 5 10 15

Glu Thr Val Thr Ile Ile Cys Arg Val Ser Glu Xaa Ile Tyr Ser Xaa
20 25 30

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Leu Ala Trp Tyr Gln Gln Lys Gln Gly Lys Ser Pro Gln Leu Leu Val
35 40 45

Tyr Glu Ala Thr Xaa Leu Ala Glu Gly Val Pro Ser Arg Phe Ser Gly
50 55 60

Ser Gly Ser Gly Thr Gln Tyr Ser Leu Lys Ile Asn Ser Leu Gln Ser
65 70 75 80

Glu Asp Phe Gly Ser Tyr Tyr Cys Gln His Phe Xaa Gly Thr Pro Tyr
85 90 95

Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
100 105

<210> 1379

<211> 96

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<220>

<221> MOD_RES

<222> (28)..(28)

<223> Gln, Ser, Ala or Asp

<220>

<221> MOD_RES

<222> (32)..(32)

<223> Tyr, Gln, Ser, Ala or Asp

<220>

<221> MOD_RES

<222> (53)..(53)

<223> Gln, Ser, Ala or Asp

<220>

<221> MOD_RES

<222> (92)..(92)

<223> Tyr, Phe or His

<400> 1379

Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
1 5 10 15

Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Xaa Ile Ser Ser Xaa
20 25 30

Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile
35 40 45

Tyr Ala Ala Ser Xaa Leu Gln Ser Gly Val Pro Ser Arg Phe Ser Gly
50 55 60

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Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
65 70 75 80

Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Xaa Ser Thr Pro Pro
85 90 95

<210> 1380

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<220>

<221> MOD_RES

<222> (28)..(28)

<223> Asn, Gln, Ser, Ala or Asp

<220>

<221> MOD_RES

<222> (32)..(32)

<223> Asn, Gln, Ser, Ala or Asp

<220>

<221> MOD_RES

<222> (53)..(53)

<223> Asn, Gln, Ser, Ala or Asp

<220>

<221> MOD_RES

<222> (92)..(92)

<223> Trp, Tyr, Phe or His

<400> 1380

Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
1 5 10 15

Asp Arg Val Thr Ile Thr Cys Arg Val Ser Glu Xaa Ile Tyr Ser Xaa
20 25 30

Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile
35 40 45

Tyr Glu Ala Thr Xaa Leu Ala Glu Gly Val Pro Ser Arg Phe Ser Gly
50 55 60

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
65 70 75 80

Glu Asp Phe Ala Thr Tyr Tyr Cys Gln His Phe Xaa Gly Thr Pro Tyr
85 90 95

Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
100 105

<210> 1381
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic polypeptide

<220>
 <221> MOD_RES
 <222> (28)..(28)
 <223> Asn, Gln, Ser, Ala or Asp

<220>
 <221> MOD_RES
 <222> (32)..(32)
 <223> Asn, Gln, Ser, Ala or Asp

<220>
 <221> MOD_RES
 <222> (53)..(53)
 <223> Asn, Gln, Ser, Ala or Asp

<220>
 <221> MOD_RES
 <222> (92)..(92)
 <223> Trp, Tyr, Phe or His

<400> 1381
 Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
 1 5 10 15

Asp Arg Val Thr Ile Thr Cys Arg Val Ser Glu Xaa Ile Tyr Ser Xaa
 20 25 30

Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile
 35 40 45

Tyr Glu Ala Thr Xaa Leu Ala Glu Gly Val Pro Ser Arg Phe Ser Gly
 50 55 60

Ser Gly Ser Gly Thr Asp Tyr Thr Leu Thr Ile Ser Ser Leu Gln Pro
 65 70 75 80

Glu Asp Phe Ala Thr Tyr Tyr Cys Gln His Phe Xaa Gly Thr Pro Tyr
 85 90 95

Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
 100 105

<210> 1382
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic polypeptide

<220>
 <221> MOD_RES
 <222> (28)..(28)
 <223> Asn, Gln, Ser, Ala or Asp

<220>
 <221> MOD_RES
 <222> (32)..(32)
 <223> Asn, Gln, Ser, Ala or Asp

<220>
 <221> MOD_RES
 <222> (53)..(53)
 <223> Asn, Gln, Ser, Ala or Asp

<220>
 <221> MOD_RES
 <222> (92)..(92)
 <223> Trp, Tyr, Phe or His

<400> 1382
 Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
 1 5 10 15

Asp Arg Val Thr Ile Thr Cys Arg Val Ser Glu Xaa Ile Tyr Ser Xaa
 20 25 30

Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Val
 35 40 45

Tyr Glu Ala Thr Xaa Leu Ala Glu Gly Val Pro Ser Arg Phe Ser Gly
 50 55 60

Ser Gly Ser Gly Thr Asp Tyr Thr Leu Thr Ile Ser Ser Leu Gln Pro
 65 70 75 80

Glu Asp Phe Gly Thr Tyr Tyr Cys Gln His Phe Xaa Gly Thr Pro Tyr
 85 90 95

Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
 100 105

<210> 1383
 <211> 98
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic polypeptide

<400> 1383
 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr
 20 25 30

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Tyr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
35 40 45

Gly Ile Ile Asn Pro Ser Gly Gly Ser Thr Ser Tyr Ala Gln Lys Phe
50 55 60

Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val Tyr
65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Arg

<210> 1384
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 1384
Tyr Phe Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
1 5 10 15

<210> 1385
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<220>
<221> MOD_RES
<222> (57)..(57)
<223> Asn, Gln, Ser or Ala

<220>
<221> MOD_RES
<222> (59)..(59)
<223> Asn, Gln, Ser or Ala

<220>
<221> MOD_RES
<222> (104)..(104)
<223> Met, Leu, Phe or Ala

<400> 1385
Gln Val Gln Leu Gln Gln Ser Gly Pro Glu Val Val Arg Pro Gly Val
1 5 10 15

Ser Val Lys Ile Ser Cys Lys Gly Ser Gly Tyr Lys Phe Pro Asp Tyr
20 25 30

Val Met His Trp Val Lys Gln Ser His Ala Lys Ser Leu Glu Trp Ile
 35 40 45

Gly Ile Ile Ser Ile Tyr Ser Gly Xaa Thr Xaa Tyr Asn Gln Lys Phe
 50 55 60

Lys Gly Lys Ala Thr Met Thr Val Asp Lys Ser Ser Ser Thr Ala Tyr
 65 70 75 80

Met Glu Leu Ala Arg Leu Thr Ser Glu Asp Ser Ala Ile Tyr Tyr Cys
 85 90 95

Ala Arg Glu Gly Asp Leu Pro Xaa Phe Ala Tyr Trp Gly Gln Gly Thr
 100 105 110

Leu Val Thr Val Ser Ala
 115

<210> 1386
 <211> 98
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic polypeptide

<220>
 <221> MOD_RES
 <222> (57)..(57)
 <223> Gln, Ser or Ala

<220>
 <221> MOD_RES
 <222> (59)..(59)
 <223> Gln, Ser or Ala

<400> 1386
 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr
 20 25 30

Tyr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
 35 40 45

Gly Ile Ile Asn Pro Ser Gly Gly Xaa Thr Xaa Tyr Ala Gln Lys Phe
 50 55 60

Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val Tyr
 65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

Ala Arg

<210> 1387

<211> 118

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<220>

<221> MOD_RES

<222> (57)..(57)

<223> Asn, Gln, Ser or Ala

<220>

<221> MOD_RES

<222> (59)..(59)

<223> Asn, Gln, Ser or Ala

<220>

<221> MOD_RES

<222> (104)..(104)

<223> Met, Leu, Phe or Ala

<400> 1387

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
1 5 10 15Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Lys Phe Pro Asp Tyr
20 25 30Val Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
35 40 45Gly Ile Ile Ser Ile Tyr Ser Gly Xaa Thr Xaa Tyr Ala Gln Lys Phe
50 55 60Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val Tyr
65 70 75 80Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95Ala Arg Glu Gly Asp Leu Pro Xaa Phe Ala Tyr Trp Gly Gln Gly Thr
100 105 110Leu Val Thr Val Ser Ser
115

<210> 1388

<211> 118

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<220>

<221> MOD_RES

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<223> Asn, Gln, Ser or Ala

<220>

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<222> (59)..(59)

<223> Asn, Gln, Ser or Ala

<220>

<221> MOD_RES

<222> (104)..(104)

<223> Met, Leu, Phe or Ala

<400> 1388

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Lys Phe Pro Asp Tyr
 20 25 30

Val Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Ile
 35 40 45

Gly Ile Ile Ser Ile Tyr Ser Gly Xaa Thr Xaa Tyr Ala Gln Lys Phe
 50 55 60

Gln Gly Arg Val Thr Met Thr Val Asp Thr Ser Thr Ser Thr Val Tyr
 65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

Ala Arg Glu Gly Asp Leu Pro Xaa Phe Ala Tyr Trp Gly Gln Gly Thr
 100 105 110

Leu Val Thr Val Ser Ser
 115

<210> 1389

<211> 118

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<220>

<221> MOD_RES

<222> (57)..(57)

<223> Asn, Gln, Ser or Ala

<220>
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 <222> (59)..(59)
 <223> Asn, Gln, Ser or Ala

<220>
 <221> MOD_RES
 <222> (104)..(104)
 <223> Met, Leu, Phe or Ala

<400> 1389
 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
 1 5 10 15

Ser Val Lys Ile Ser Cys Lys Gly Ser Gly Tyr Lys Phe Pro Asp Tyr
 20 25 30

Val Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Ile
 35 40 45

Gly Ile Ile Ser Ile Tyr Ser Gly Xaa Thr Xaa Tyr Ala Gln Lys Phe
 50 55 60

Gln Gly Arg Ala Thr Met Thr Val Asp Thr Ser Thr Ser Thr Ala Tyr
 65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

Ala Arg Glu Gly Asp Leu Pro Xaa Phe Ala Tyr Trp Gly Gln Gly Thr
 100 105 110

Leu Val Thr Val Ser Ser
 115

<210> 1390
 <211> 118
 <212> PRT
 <213> Artificial sequence

<220>
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<220>
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 <223> Asn, Gln, Ser or Ala

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 <223> Asn, Gln, Ser or Ala

<220>
 <221> MOD_RES
 <222> (104)..(104)
 <223> Met, Leu, Phe or Ala

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<400> 1390

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
1 5 10 15

Ser Val Lys Ile Ser Cys Lys Gly Ser Gly Tyr Lys Phe Pro Asp Tyr
20 25 30

Val Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Ile
35 40 45

Gly Ile Ile Ser Ile Tyr Ser Gly Xaa Thr Xaa Tyr Ala Gln Lys Phe
50 55 60

Gln Gly Arg Ala Thr Met Thr Val Asp Lys Ser Thr Ser Thr Ala Tyr
65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Arg Glu Gly Asp Leu Pro Xaa Phe Ala Tyr Trp Gly Gln Gly Thr
100 105 110

Leu Val Thr Val Ser Ser
115

<210> 1391

<211> 96

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 1391

Glu Ile Val Leu Thr Gln Ser Pro Ala Thr Leu Ser Leu Ser Pro Gly
1 5 10 15

Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Ser Ser Tyr
20 25 30

Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile
35 40 45

Tyr Asp Ala Ser Asn Arg Ala Thr Gly Ile Pro Ala Arg Phe Ser Gly
50 55 60

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Glu Pro
65 70 75 80

Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Arg Ser Asn Trp Pro Pro
85 90 95

<210> 1392

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 1392

Tyr Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
 1 5 10

<210> 1393

<211> 106

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<220>

<221> MOD_RES

<222> (24)..(24)

<223> Asn, Gln, Ser, Ala or Asp

<220>

<221> MOD_RES

<222> (52)..(52)

<223> Asn, Gln, Ser, Ala or Asp

<220>

<221> MOD_RES

<222> (90)..(90)

<223> Trp, Tyr, Phe or His

<400> 1393

Gln Ile Val Leu Thr Gln Ser Pro Ala Ile Met Ser Ala Ser Pro Gly
 1 5 10 15

Glu Lys Val Thr Met Thr Cys Xaa Ala Ser Ser Ser Val Ser Tyr Met
 20 25 30

Tyr Trp Tyr Gln Gln Lys Pro Ile Ser Ser Pro Arg Leu Leu Ile Tyr
 35 40 45

Asp Thr Ser Xaa Leu Ala Ser Gly Val Pro Val Arg Phe Ser Gly Ser
 50 55 60

Gly Ser Gly Thr Ser Tyr Ser Leu Thr Ile Gly Arg Met Glu Ala Glu
 65 70 75 80

Asp Ala Ala Thr Tyr Tyr Cys Gln Gln Xaa Ser Ser Tyr Pro Leu Thr
 85 90 95

Phe Gly Ala Gly Thr Lys Val Glu Val Lys
 100 105

<210> 1394

<211> 96

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<220>

<221> MOD_RES

<222> (24)..(24)

<223> Arg, Gln, Ser, Ala or Asp

<220>

<221> MOD_RES

<222> (53)..(53)

<223> Asn, Gln, Ser, Ala or Asp

<220>

<221> MOD_RES

<222> (91)..(91)

<223> Arg, Tyr, Phe or His

<400> 1394

Glu	Ile	Val	Leu	Thr	Gln	Ser	Pro	Ala	Thr	Leu	Ser	Leu	Ser	Pro	Gly
1				5					10					15	

Glu	Arg	Ala	Thr	Leu	Ser	Cys	Xaa	Ala	Ser	Gln	Ser	Val	Ser	Ser	Tyr
			20					25					30		

Leu	Ala	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Gln	Ala	Pro	Arg	Leu	Leu	Ile
			35				40					45			

Tyr	Asp	Ala	Ser	Xaa	Arg	Ala	Thr	Gly	Ile	Pro	Ala	Arg	Phe	Ser	Gly
	50					55					60				

Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr	Leu	Thr	Ile	Ser	Ser	Leu	Glu	Pro
65					70					75					80

Glu	Asp	Phe	Ala	Val	Tyr	Tyr	Cys	Gln	Gln	Xaa	Ser	Asn	Trp	Pro	Pro
				85					90					95	

<210> 1395

<211> 106

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<220>

<221> MOD_RES

<222> (24)..(24)

<223> Asn, Gln, Ser, Ala or Asp

<220>

<221> MOD_RES

<222> (52)..(52)

<223> Asn, Gln, Ser, Ala or Asp

<220>

<221> MOD_RES

<222> (90)..(90)

<223> Trp, Tyr, Phe or His

<400> 1395

Glu Ile Val Leu Thr Gln Ser Pro Ala Thr Leu Ser Leu Ser Pro Gly
 1 5 10 15

Glu Arg Ala Thr Leu Ser Cys Xaa Ala Ser Ser Ser Val Ser Tyr Met
 20 25 30

Tyr Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile Tyr
 35 40 45

Asp Thr Ser Xaa Leu Ala Ser Gly Ile Pro Ala Arg Phe Ser Gly Ser
 50 55 60

Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Glu Pro Glu
 65 70 75 80

Asp Phe Ala Val Tyr Tyr Cys Gln Gln Xaa Ser Ser Tyr Pro Leu Thr
 85 90 95

Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
 100 105

<210> 1396

<211> 106

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<220>

<221> MOD_RES

<222> (24)..(24)

<223> Asn, Gln, Ser, Ala or Asp

<220>

<221> MOD_RES

<222> (52)..(52)

<223> Asn, Gln, Ser, Ala or Asp

<220>

<221> MOD_RES

<222> (90)..(90)

<223> Trp, Tyr, Phe or His

<400> 1396

Glu Ile Val Leu Thr Gln Ser Pro Ala Thr Leu Ser Leu Ser Pro Gly
 1 5 10 15

Glu Arg Ala Thr Leu Ser Cys Xaa Ala Ser Ser Ser Val Ser Tyr Met
 20 25 30

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Tyr Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile Tyr
35 40 45

Asp Thr Ser Xaa Leu Ala Ser Gly Ile Pro Ala Arg Phe Ser Gly Ser
50 55 60

Gly Ser Gly Thr Asp Tyr Thr Leu Thr Ile Ser Ser Leu Glu Pro Glu
65 70 75 80

Asp Phe Ala Val Tyr Tyr Cys Gln Gln Xaa Ser Ser Tyr Pro Leu Thr
85 90 95

Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
100 105

<210> 1397

<211> 106

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<220>

<221> MOD_RES

<222> (24)..(24)

<223> Asn, Gln, Ser, Ala or Asp

<220>

<221> MOD_RES

<222> (52)..(52)

<223> Asn, Gln, Ser, Ala or Asp

<220>

<221> MOD_RES

<222> (90)..(90)

<223> Trp, Tyr, Phe or His

<400> 1397

Glu Ile Val Leu Thr Gln Ser Pro Ala Thr Leu Ser Leu Ser Pro Gly
1 5 10 15

Glu Arg Val Thr Met Ser Cys Xaa Ala Ser Ser Ser Val Ser Tyr Met
20 25 30

Tyr Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile Tyr
35 40 45

Asp Thr Ser Xaa Leu Ala Ser Gly Val Pro Ala Arg Phe Ser Gly Ser
50 55 60

Gly Ser Gly Thr Asp Tyr Thr Leu Thr Ile Ser Ser Met Glu Pro Glu
65 70 75 80

Asp Phe Ala Val Tyr Tyr Cys Gln Gln Xaa Ser Ser Tyr Pro Leu Thr
Page 456

Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105

<210> 1398

<211> 98

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 1398

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr
 20 25 30

Tyr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
 35 40 45

Gly Ile Ile Asn Pro Ser Gly Gly Ser Thr Ser Tyr Ala Gln Lys Phe
 50 55 60

Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val Tyr
 65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

Ala Arg

<210> 1399

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 1399

Tyr Phe Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 1 5 10 15

<210> 1400

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<220>
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 <222> (31)..(31)
 <223> Asn, Gln, Ser or Ala

<220>
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 <222> (52)..(52)
 <223> Asn, Gln, Ser or Ala

<220>
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 <222> (103)..(103)
 <223> Asn, Gln, Ser or Ala

<220>
 <221> MOD_RES
 <222> (105)..(105)
 <223> Trp, Tyr, Phe or His

<400> 1400
 Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Leu Met Arg Pro Gly Thr
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Ala Phe Thr Xaa His
 20 25 30

Leu Ile Glu Trp Ile Lys Gln Arg Pro Gly Gln Gly Leu Glu Trp Ile
 35 40 45

Gly Val Ile Xaa Pro Gly Ser Asp Ser Thr Asp Tyr Asn Glu Lys Phe
 50 55 60

Lys Asp Lys Ala Thr Leu Thr Ala Asp Lys Ser Ser Ser Thr Ala Tyr
 65 70 75 80

Met Gln Leu Ser Ser Leu Thr Ser Asp Asp Ser Ala Val Tyr Phe Cys
 85 90 95

Ala Arg Ser Leu Tyr Tyr Xaa Ser Xaa Phe Val Tyr Trp Gly Gln Gly
 100 105 110

Thr Leu Val Thr Val Ser Ala
 115

<210> 1401
 <211> 98
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic polypeptide

<220>
 <221> MOD_RES
 <222> (31)..(31)
 <223> Gln, Ser or Ala

<220>

<221> MOD_RES

<222> (52)..(52)

<223> Asn, Gln, Ser or Ala

<400> 1401

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Xaa Tyr
 20 25 30

Tyr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
 35 40 45

Gly Ile Ile Xaa Pro Ser Gly Gly Ser Thr Ser Tyr Ala Gln Lys Phe
 50 55 60

Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val Tyr
 65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

Ala Arg

<210> 1402

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<220>

<221> MOD_RES

<222> (31)..(31)

<223> Asn, Gln, Ser or Ala

<220>

<221> MOD_RES

<222> (52)..(52)

<223> Asn, Gln, Ser or Ala

<220>

<221> MOD_RES

<222> (103)..(103)

<223> Asn, Gln, Ser or Ala

<220>

<221> MOD_RES

<222> (105)..(105)

<223> Trp, Tyr, Phe or His

<400> 1402

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
 1 5 10 15

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Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Ala Phe Thr Xaa His
20 25 30

Leu Ile Glu Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
35 40 45

Gly Val Ile Xaa Pro Gly Ser Asp Ser Thr Asp Tyr Ala Gln Lys Phe
50 55 60

Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val Tyr
65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Arg Ser Leu Tyr Tyr Xaa Ser Xaa Phe Val Tyr Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ser
115

<210> 1403

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<220>

<221> MOD_RES

<222> (31)..(31)

<223> Asn, Gln, Ser or Ala

<220>

<221> MOD_RES

<222> (52)..(52)

<223> Asn, Gln, Ser or Ala

<220>

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<222> (103)..(103)

<223> Asn, Gln, Ser or Ala

<220>

<221> MOD_RES

<222> (105)..(105)

<223> Trp, Tyr, Phe or His

<400> 1403

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Ala Phe Thr Xaa His
20 25 30

114386-5002-US_SL_original

Leu Ile Glu Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Ile
35 40 45

Gly Val Ile Xaa Pro Gly Ser Asp Ser Thr Asp Tyr Ala Gln Lys Phe
50 55 60

Gln Gly Arg Val Thr Met Thr Ala Asp Thr Ser Thr Ser Thr Val Tyr
65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Arg Ser Leu Tyr Tyr Xaa Ser Xaa Phe Val Tyr Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ser
115

<210> 1404
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<220>
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<222> (31)..(31)
<223> Asn, Gln, Ser or Ala

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<223> Asn, Gln, Ser or Ala

<220>
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<222> (103)..(103)
<223> Asn, Gln, Ser or Ala

<220>
<221> MOD_RES
<222> (105)..(105)
<223> Trp, Tyr, Phe or His

<400> 1404
Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Ala Phe Thr Xaa His
20 25 30

Leu Ile Glu Trp Ile Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Ile
35 40 45

Gly Val Ile Xaa Pro Gly Ser Asp Ser Thr Asp Tyr Ala Gln Lys Phe
 50 55 60

Gln Gly Arg Ala Thr Leu Thr Ala Asp Thr Ser Thr Ser Thr Ala Tyr
 65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

Ala Arg Ser Leu Tyr Tyr Xaa Ser Xaa Phe Val Tyr Trp Gly Gln Gly
 100 105 110

Thr Leu Val Thr Val Ser Ser
 115

<210> 1405

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<220>

<221> MOD_RES

<222> (31)..(31)

<223> Asn, Gln, Ser or Ala

<220>

<221> MOD_RES

<222> (52)..(52)

<223> Asn, Gln, Ser or Ala

<220>

<221> MOD_RES

<222> (103)..(103)

<223> Asn, Gln, Ser or Ala

<220>

<221> MOD_RES

<222> (105)..(105)

<223> Trp, Tyr, Phe or His

<400> 1405

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Ala Phe Thr Xaa His
 20 25 30

Leu Ile Glu Trp Ile Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Ile
 35 40 45

Gly Val Ile Xaa Pro Gly Ser Asp Ser Thr Asp Tyr Ala Gln Lys Phe
 50 55 60

Gln Gly Arg Ala Thr Leu Thr Ala Asp Lys Ser Thr Ser Thr Ala Tyr
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65 70 75 80

Met Glu Leu Ser₈₅ Leu Arg Ser Glu Asp₉₀ Thr Ala Val Tyr Tyr₉₅ Cys

Ala Arg Ser₁₀₀ Leu Tyr Tyr Xaa Ser₁₀₅ Xaa Phe Val Tyr Trp Gly₁₁₀ Gln Gly

Thr Leu Val₁₁₅ Thr Val Ser Ser

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<210> 1407
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      peptide

<400> 1407
Tyr Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
1          5          10
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<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<220>

<221> MOD_RES

<222> (28)..(28)

<223> Asn, Gln, Ser, Ala or Asp

<220>

<221> MOD_RES

<222> (50)..(50)

<223> Asn, Gln, Ser, Ala or Asp

<400> 1408

Asp Ile Gln Met Thr Gln Ser Pro Ala Ser Leu Ser Ala Ser Val Gly
 1 5 10 15

Glu Thr Val Thr Ile Thr Cys Arg Ala Ser Glu Xaa Ile Tyr Ser Tyr
 20 25 30

Leu Ala Trp Tyr Gln Gln Lys Arg Gly Lys Ser Pro Gln Leu Leu Val
 35 40 45

Tyr Xaa Ala Lys Thr Leu Val Glu Gly Val Pro Ser Arg Phe Ser Gly
 50 55 60

Ser Gly Ser Gly Thr Gln Phe Ser Leu Lys Ile Asn Ser Leu Gln Pro
 65 70 75 80

Glu Asp Phe Gly Ser Tyr Tyr Cys Gln His His Tyr Gly Thr Pro Tyr
 85 90 95

Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
 100 105

<210> 1409

<211> 96

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<220>

<221> MOD_RES

<222> (28)..(28)

<223> Gln, Ser, Ala or Asp

<220>

<221> MOD_RES

<222> (50)..(50)

<223> Gln, Ser, Ala or Asp

<400> 1409

Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
 1 5 10 15

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Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Xaa Ile Ser Ser Tyr
20 25 30

Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile
35 40 45

Tyr Xaa Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser Gly
50 55 60

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
65 70 75 80

Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Ser Thr Pro Pro
85 90 95

<210> 1410

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<220>

<221> MOD_RES

<222> (28)..(28)

<223> Asn, Gln, Ser, Ala or Asp

<220>

<221> MOD_RES

<222> (50)..(50)

<223> Asn, Gln, Ser, Ala or Asp

<400> 1410

Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
1 5 10 15

Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Glu Xaa Ile Tyr Ser Tyr
20 25 30

Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile
35 40 45

Tyr Xaa Ala Lys Thr Leu Val Glu Gly Val Pro Ser Arg Phe Ser Gly
50 55 60

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
65 70 75 80

Glu Asp Phe Ala Thr Tyr Tyr Cys Gln His His Tyr Gly Thr Pro Tyr
85 90 95

Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
100 105

<210> 1411
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
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<220>
 <221> MOD_RES
 <222> (28)..(28)
 <223> Asn, Gln, Ser, Ala or Asp

<220>
 <221> MOD_RES
 <222> (50)..(50)
 <223> Asn, Gln, Ser, Ala or Asp

<400> 1411
 Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
 1 5 10 15

Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Glu Xaa Ile Tyr Ser Tyr
 20 25 30

Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Val
 35 40 45

Tyr Xaa Ala Lys Thr Leu Val Glu Gly Val Pro Ser Arg Phe Ser Gly
 50 55 60

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
 65 70 75 80

Glu Asp Phe Gly Thr Tyr Tyr Cys Gln His His Tyr Gly Thr Pro Tyr
 85 90 95

Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
 100 105

<210> 1412
 <211> 98
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic polypeptide

<400> 1412
 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr
 20 25 30

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Tyr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
35 40 45

Gly Ile Ile Asn Pro Ser Gly Gly Ser Thr Ser Tyr Ala Gln Lys Phe
50 55 60

Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val Tyr
65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Arg

<210> 1413
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 1413
Tyr Phe Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
1 5 10 15

<210> 1414
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<220>
<221> MOD_RES
<222> (31)..(31)
<223> Asn, Gln, Ser or Ala

<220>
<221> MOD_RES
<222> (52)..(52)
<223> Asn, Gln, Ser or Ala

<220>
<221> MOD_RES
<222> (105)..(105)
<223> Trp, Tyr, Phe or His

<400> 1414
Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Leu Val Arg Pro Gly Ala
1 5 10 15

Ser Val Lys Val Ser Cys Lys Thr Ser Gly Tyr Ala Phe Thr Xaa Tyr
20 25 30

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Leu Ile Glu Trp Val Lys Gln Arg Pro Gly Gln Gly Leu Glu Trp Ile
35 40 45

Gly Val Ile Xaa Pro Gly Ser Gly Gly Ile Tyr Tyr Asn Asp Lys Phe
50 55 60

Lys Val Lys Thr Thr Leu Thr Ala Asp Lys Ser Ser Ser Thr Ala Tyr
65 70 75 80

Met Gln Leu Ser Ser Leu Thr Ser Asp Asp Ser Ala Val Tyr Phe Cys
85 90 95

Ala Arg Ser Glu Thr His Asp Thr Xaa Phe Ala Tyr Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ala
115

<210> 1415
<211> 98
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<220>
<221> MOD_RES
<222> (31)..(31)
<223> Gln, Ser or Ala

<220>
<221> MOD_RES
<222> (52)..(52)
<223> Asn, Gln, Ser or Ala

<400> 1415
Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Xaa Tyr
20 25 30

Tyr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
35 40 45

Gly Ile Ile Xaa Pro Ser Gly Gly Ser Thr Ser Tyr Ala Gln Lys Phe
50 55 60

Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val Tyr
65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Arg

<210> 1416
 <211> 119
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic polypeptide

<220>
 <221> MOD_RES
 <222> (31)..(31)
 <223> Asn, Gln, Ser or Ala

<220>
 <221> MOD_RES
 <222> (52)..(52)
 <223> Asn, Gln, Ser or Ala

<220>
 <221> MOD_RES
 <222> (105)..(105)
 <223> Trp, Tyr, Phe or His

<400> 1416
 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Ala Phe Thr Xaa Tyr
 20 25 30

Leu Ile Glu Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
 35 40 45

Gly Val Ile Xaa Pro Gly Ser Gly Gly Ile Tyr Tyr Ala Gln Lys Phe
 50 55 60

Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val Tyr
 65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

Ala Arg Ser Glu Thr His Asp Thr Xaa Phe Ala Tyr Trp Gly Gln Gly
 100 105 110

Thr Leu Val Thr Val Ser Ser
 115

<210> 1417
 <211> 119
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic polypeptide

<220>
 <221> MOD_RES
 <222> (31)..(31)
 <223> Asn, Gln, Ser or Ala

<220>
 <221> MOD_RES
 <222> (52)..(52)
 <223> Asn, Gln, Ser or Ala

<220>
 <221> MOD_RES
 <222> (105)..(105)
 <223> Trp, Tyr, Phe or His

<400> 1417
 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Ala Phe Thr Xaa Tyr
 20 25 30

Leu Ile Glu Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Ile
 35 40 45

Gly Val Ile Xaa Pro Gly Ser Gly Gly Ile Tyr Tyr Ala Gln Lys Phe
 50 55 60

Gln Gly Arg Val Thr Met Thr Ala Asp Thr Ser Thr Ser Thr Val Tyr
 65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

Ala Arg Ser Glu Thr His Asp Thr Xaa Phe Ala Tyr Trp Gly Gln Gly
 100 105 110

Thr Leu Val Thr Val Ser Ser
 115

<210> 1418
 <211> 119
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic polypeptide

<220>
 <221> MOD_RES
 <222> (31)..(31)
 <223> Asn, Gln, Ser or Ala

<220>
 <221> MOD_RES
 <222> (52)..(52)
 <223> Asn, Gln, Ser or Ala

<220>
 <221> MOD_RES
 <222> (105)..(105)
 <223> Trp, Tyr, Phe or His

<400> 1418
 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Thr Ser Gly Tyr Ala Phe Thr Xaa Tyr
 20 25 30

Leu Ile Glu Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Ile
 35 40 45

Gly Val Ile Xaa Pro Gly Ser Gly Gly Ile Tyr Tyr Ala Gln Lys Phe
 50 55 60

Gln Gly Arg Val Thr Leu Thr Ala Asp Thr Ser Thr Ser Thr Ala Tyr
 65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

Ala Arg Ser Glu Thr His Asp Thr Xaa Phe Ala Tyr Trp Gly Gln Gly
 100 105 110

Thr Leu Val Thr Val Ser Ser
 115

<210> 1419
 <211> 119
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic polypeptide

<220>
 <221> MOD_RES
 <222> (31)..(31)
 <223> Asn, Gln, Ser or Ala

<220>
 <221> MOD_RES
 <222> (52)..(52)
 <223> Asn, Gln, Ser or Ala

<220>
 <221> MOD_RES
 <222> (105)..(105)
 <223> Trp, Tyr, Phe or His

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<400> 1419

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
1 5 10 15

Ser Val Lys Val Ser Cys Lys Thr Ser Gly Tyr Ala Phe Thr Xaa Tyr
20 25 30

Leu Ile Glu Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Ile
35 40 45

Gly Val Ile Xaa Pro Gly Ser Gly Gly Ile Tyr Tyr Ala Gln Lys Phe
50 55 60

Gln Gly Arg Val Thr Leu Thr Ala Asp Lys Ser Thr Ser Thr Ala Tyr
65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Arg Ser Glu Thr His Asp Thr Xaa Phe Ala Tyr Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ser
115

<210> 1420

<211> 96

<212> PRT

<213> Artificial sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 1420

Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
1 5 10 15

Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Ser Tyr
20 25 30

Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile
35 40 45

Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser Gly
50 55 60

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
65 70 75 80

Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Ser Thr Pro Pro
85 90 95

<210> 1421

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 1421

Tyr Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
 1 5 10

<210> 1422

<211> 96

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 1422

Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
 1 5 10 15

Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Gly Ile Arg Asn Asp
 20 25 30

Leu Gly Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Arg Leu Ile
 35 40 45

Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser Gly
 50 55 60

Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Asn Leu Gln Pro
 65 70 75 80

Glu Asp Phe Ala Thr Tyr Tyr Cys Leu Gln His Asn Ser Tyr Pro Pro
 85 90 95

<210> 1423

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<220>

<221> MOD_RES

<222> (92)..(92)

<223> Trp, Tyr, Phe or His

<220>

<221> MOD_RES

<222> (93)..(93)

<223> Asn, Gln, Ser, Ala or Asp

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<400> 1423

Asp Ile Val Met Thr Gln Ser Gln Lys Phe Ile Ser Thr Ser Val Gly
1 5 10 15

Asp Arg Val Ser Ile Thr Cys Lys Ala Ser Gln Ser Val Arg Ile Ala
20 25 30

Val Ala Trp Phe Gln Gln Lys Pro Gly Gln Ser Pro Lys Ala Leu Ile
35 40 45

Tyr Leu Ala Ser Thr Arg His Thr Gly Val Pro Asp Arg Phe Thr Gly
50 55 60

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Asn Val Gln Ser
65 70 75 80

Glu Asp Leu Ala Asp Tyr Phe Cys Leu Gln His Xaa Xaa Tyr Pro Tyr
85 90 95

Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
100 105

<210> 1424

<211> 96

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<220>

<221> MOD_RES

<222> (92)..(92)

<223> Tyr, Phe or His

<220>

<221> MOD_RES

<222> (93)..(93)

<223> Gln, Ser, Ala or Asp

<400> 1424

Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
1 5 10 15

Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Ser Tyr
20 25 30

Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile
35 40 45

Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser Gly
50 55 60

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
65 70 75 80

Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Xaa Xaa Thr Pro Pro
 85 90 95

<210> 1425
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic polypeptide

<220>
 <221> MOD_RES
 <222> (92)..(92)
 <223> Trp, Tyr, Phe or His

<220>
 <221> MOD_RES
 <222> (93)..(93)
 <223> Asn, Gln, Ser, Ala or Asp

<400> 1425
 Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
 1 5 10 15

Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Ser Val Arg Ile Ala
 20 25 30

Val Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile
 35 40 45

Tyr Leu Ala Ser Thr Arg His Thr Gly Val Pro Ser Arg Phe Ser Gly
 50 55 60

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
 65 70 75 80

Glu Asp Phe Ala Thr Tyr Tyr Cys Leu Gln His Xaa Xaa Tyr Pro Tyr
 85 90 95

Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
 100 105

<210> 1426
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic polypeptide

<220>
 <221> MOD_RES
 <222> (92)..(92)

<223> Trp, Tyr, Phe or His

<220>

<221> MOD_RES

<222> (93)..(93)

<223> Asn, Gln, Ser, Ala or Asp

<400> 1426

Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
1 5 10 15

Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Ser Val Arg Ile Ala
20 25 30

Val Ala Trp Phe Gln Gln Lys Pro Gly Lys Ala Pro Lys Ala Leu Ile
35 40 45

Tyr Leu Ala Ser Thr Arg His Thr Gly Val Pro Ser Arg Phe Ser Gly
50 55 60

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Val Gln Pro
65 70 75 80

Glu Asp Phe Ala Thr Tyr Tyr Cys Leu Gln His Xaa Xaa Tyr Pro Tyr
85 90 95

Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
100 105

<210> 1427

<211> 98

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 1427

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr
20 25 30

Tyr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
35 40 45

Gly Ile Ile Asn Pro Ser Gly Gly Ser Thr Ser Tyr Ala Gln Lys Phe
50 55 60

Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val Tyr
65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Arg

<210> 1428
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 1428
 Tyr Phe Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 1 5 10 15

<210> 1429
 <211> 120
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic polypeptide

<220>
 <221> MOD_RES
 <222> (31)..(31)
 <223> Asn, Gln, Ser or Ala

<220>
 <221> MOD_RES
 <222> (33)..(33)
 <223> Trp, Tyr, Phe or His

<220>
 <221> MOD_RES
 <222> (59)..(59)
 <223> Asn, Gln, Ser or Ala

<400> 1429
 Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Leu Val Arg Pro Gly Thr
 1 5 10 15

Ser Val Lys Met Ser Cys Lys Ala Ala Gly Tyr Thr Phe Thr Xaa Tyr
 20 25 30

Xaa Ile Gly Trp Val Lys Gln Arg Pro Gly His Gly Leu Glu Trp Ile
 35 40 45

Gly Asp Ile Tyr Pro Gly Gly Gly Tyr Thr Xaa Tyr Asn Glu Lys Phe
 50 55 60

Lys Gly Lys Ala Thr Leu Thr Ala Asp Thr Ser Ser Ser Thr Ala Tyr
 65 70 75 80

Met Gln Leu Ser Ser Leu Thr Ser Glu Asp Ser Ala Ile Tyr Tyr Cys
 85 90 95

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Ala Ser Pro Tyr Tyr Gly Ser Ser Tyr Gly Phe Ala Phe Trp Gly Gln
100 105 110

Gly Thr Leu Val Thr Val Ser Ala
115 120

<210> 1430
<211> 98
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<220>
<221> MOD_RES
<222> (31)..(31)
<223> Gln, Ser or Ala

<220>
<221> MOD_RES
<222> (33)..(33)
<223> Tyr, Phe or His

<220>
<221> MOD_RES
<222> (59)..(59)
<223> Gln, Ser or Ala

<400> 1430
Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Xaa Tyr
20 25 30

Xaa Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
35 40 45

Gly Ile Ile Asn Pro Ser Gly Gly Ser Thr Xaa Tyr Ala Gln Lys Phe
50 55 60

Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val Tyr
65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Arg

<210> 1431
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic polypeptide

<220>
 <221> MOD_RES
 <222> (31)..(31)
 <223> Asn, Gln, Ser or Ala

<220>
 <221> MOD_RES
 <222> (33)..(33)
 <223> Trp, Tyr, Phe or His

<220>
 <221> MOD_RES
 <222> (59)..(59)
 <223> Asn, Gln, Ser or Ala

<400> 1431
 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Xaa Tyr
 20 25 30

Xaa Ile Gly Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
 35 40 45

Gly Asp Ile Tyr Pro Gly Gly Gly Tyr Thr Xaa Tyr Ala Gln Lys Phe
 50 55 60

Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val Tyr
 65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

Ala Arg Pro Tyr Tyr Gly Ser Ser Tyr Gly Phe Ala Phe Trp Gly Gln
 100 105 110

Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 1432
 <211> 120
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic polypeptide

<220>
 <221> MOD_RES
 <222> (31)..(31)
 <223> Asn, Gln, Ser or Ala

<220>
 <221> MOD_RES
 <222> (33)..(33)
 <223> Trp, Tyr, Phe or His

<220>
 <221> MOD_RES
 <222> (59)..(59)
 <223> Asn, Gln, Ser or Ala

<400> 1432
 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Xaa Tyr
 20 25 30

Xaa Ile Gly Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Ile
 35 40 45

Gly Asp Ile Tyr Pro Gly Gly Gly Tyr Thr Xaa Tyr Ala Gln Lys Phe
 50 55 60

Gln Gly Arg Val Thr Met Thr Ala Asp Thr Ser Thr Ser Thr Val Tyr
 65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

Ala Ser Pro Tyr Tyr Gly Ser Ser Tyr Gly Phe Ala Phe Trp Gly Gln
 100 105 110

Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 1433
 <211> 120
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic polypeptide

<220>
 <221> MOD_RES
 <222> (31)..(31)
 <223> Asn, Gln, Ser or Ala

<220>
 <221> MOD_RES
 <222> (33)..(33)
 <223> Trp, Tyr, Phe or His

<220>
 <221> MOD_RES
 <222> (59)..(59)
 <223> Asn, Gln, Ser or Ala

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<400> 1433

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
1 5 10 15

Ser Val Lys Met Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Xaa Tyr
20 25 30

Xaa Ile Gly Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Ile
35 40 45

Gly Asp Ile Tyr Pro Gly Gly Gly Tyr Thr Xaa Tyr Ala Gln Lys Phe
50 55 60

Gln Gly Arg Ala Thr Leu Thr Ala Asp Thr Ser Thr Ser Thr Ala Tyr
65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Ser Pro Tyr Tyr Gly Ser Ser Tyr Gly Phe Ala Phe Trp Gly Gln
100 105 110

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 1434

<211> 120

<212> PRT

<213> Artificial sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 1434

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asp Tyr
20 25 30

Asn Ile Asn Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
35 40 45

Gly Tyr Ile Tyr Pro Tyr Ile Gly Gly Ser Gly Tyr Ala Gln Lys Phe
50 55 60

Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val Tyr
65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

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Ala Arg Glu Asp Lys Thr Ala Arg Asn Ala Met Asp Tyr Trp Gly Gln
100 105 110

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 1435
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 1435
Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asp Tyr
20 25 30

Asn Ile Asn Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Ile
35 40 45

Gly Tyr Ile Tyr Pro Tyr Ile Gly Gly Ser Gly Tyr Ala Gln Lys Phe
50 55 60

Gln Gly Arg Val Thr Met Thr Ala Asp Thr Ser Thr Ser Thr Val Tyr
65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Arg Glu Asp Lys Thr Ala Arg Asn Ala Met Asp Tyr Trp Gly Gln
100 105 110

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 1436
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 1436
Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
1 5 10 15

Ser Val Lys Ile Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asp Tyr
20 25 30

Asn Ile Asn Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Ile
 35 40 45

Gly Tyr Ile Tyr Pro Tyr Ile Gly Gly Ser Gly Tyr Ala Gln Lys Phe
 50 55 60

Gln Gly Arg Ala Thr Leu Thr Ala Asp Thr Ser Thr Ser Thr Ala Tyr
 65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

Ala Arg Glu Asp Lys Thr Ala Arg Asn Ala Met Asp Tyr Trp Gly Gln
 100 105 110

Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 1437

<211> 120

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 1437

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
 1 5 10 15

Ser Val Lys Ile Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asp Tyr
 20 25 30

Asn Ile Asn Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Ile
 35 40 45

Gly Tyr Ile Tyr Pro Tyr Ile Gly Gly Ser Gly Tyr Ala Gln Lys Phe
 50 55 60

Gln Gly Arg Ala Thr Leu Thr Ala Asp Asn Ser Thr Ser Thr Ala Tyr
 65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

Ala Arg Glu Asp Lys Thr Ala Arg Asn Ala Met Asp Tyr Trp Gly Gln
 100 105 110

Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 1438

<211> 118

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 1438

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Lys Phe Pro Asp Tyr
 20 25 30

Val Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
 35 40 45

Gly Ile Ile Ser Ile Tyr Ser Gly Asn Thr Asn Tyr Ala Gln Lys Phe
 50 55 60

Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val Tyr
 65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

Ala Arg Glu Gly Asp Leu Pro Met Phe Ala Tyr Trp Gly Gln Gly Thr
 100 105 110

Leu Val Thr Val Ser Ser
 115

<210> 1439

<211> 118

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 1439

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Lys Phe Pro Asp Tyr
 20 25 30

Val Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Ile
 35 40 45

Gly Ile Ile Ser Ile Tyr Ser Gly Asn Thr Asn Tyr Ala Gln Lys Phe
 50 55 60

Gln Gly Arg Val Thr Met Thr Val Asp Thr Ser Thr Ser Thr Val Tyr
 65 70 75 80

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Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Arg Glu Gly Asp Leu Pro Met Phe Ala Tyr Trp Gly Gln Gly Thr
100 105 110

Leu Val Thr Val Ser Ser
115

<210> 1440
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 1440
Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
1 5 10 15

Ser Val Lys Ile Ser Cys Lys Gly Ser Gly Tyr Lys Phe Pro Asp Tyr
20 25 30

Val Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Ile
35 40 45

Gly Ile Ile Ser Ile Tyr Ser Gly Asn Thr Asn Tyr Ala Gln Lys Phe
50 55 60

Gln Gly Arg Ala Thr Met Thr Val Asp Thr Ser Thr Ser Thr Ala Tyr
65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Arg Glu Gly Asp Leu Pro Met Phe Ala Tyr Trp Gly Gln Gly Thr
100 105 110

Leu Val Thr Val Ser Ser
115

<210> 1441
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 1441
Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
1 5 10 15

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Ser Val Lys Ile Ser Cys Lys Gly Ser Gly Tyr Lys Phe Pro Asp Tyr
20 25 30

Val Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Ile
35 40 45

Gly Ile Ile Ser Ile Tyr Ser Gly Asn Thr Asn Tyr Ala Gln Lys Phe
50 55 60

Gln Gly Arg Ala Thr Met Thr Val Asp Lys Ser Thr Ser Thr Ala Tyr
65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Arg Glu Gly Asp Leu Pro Met Phe Ala Tyr Trp Gly Gln Gly Thr
100 105 110

Leu Val Thr Val Ser Ser
115

<210> 1442

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 1442

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Ala Phe Thr Asn His
20 25 30

Leu Ile Glu Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
35 40 45

Gly Val Ile Asn Pro Gly Ser Asp Ser Thr Asp Tyr Ala Gln Lys Phe
50 55 60

Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val Tyr
65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Arg Ser Leu Tyr Tyr Asn Ser Trp Phe Val Tyr Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ser
115

<210> 1443

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 1443

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Ala Phe Thr Asn His
20 25 30

Leu Ile Glu Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Ile
35 40 45

Gly Val Ile Asn Pro Gly Ser Asp Ser Thr Asp Tyr Ala Gln Lys Phe
50 55 60

Gln Gly Arg Val Thr Met Thr Ala Asp Thr Ser Thr Ser Thr Val Tyr
65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Arg Ser Leu Tyr Tyr Asn Ser Trp Phe Val Tyr Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ser
115

<210> 1444

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 1444

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Ala Phe Thr Asn His
20 25 30

Leu Ile Glu Trp Ile Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Ile
35 40 45

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Gly Val Ile Asn Pro Gly Ser Asp Ser Thr Asp Tyr Ala Gln Lys Phe
50 55 60

Gln Gly Arg Ala Thr Leu Thr Ala Asp Thr Ser Thr Ser Thr Ala Tyr
65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Arg Ser Leu Tyr Tyr Asn Ser Trp Phe Val Tyr Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ser
115

<210> 1445

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 1445

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Ala Phe Thr Asn His
20 25 30

Leu Ile Glu Trp Ile Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Ile
35 40 45

Gly Val Ile Asn Pro Gly Ser Asp Ser Thr Asp Tyr Ala Gln Lys Phe
50 55 60

Gln Gly Arg Ala Thr Leu Thr Ala Asp Lys Ser Thr Ser Thr Ala Tyr
65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Arg Ser Leu Tyr Tyr Asn Ser Trp Phe Val Tyr Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ser
115

<210> 1446

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 1446

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Ala Phe Thr Asn Tyr
20 25 30

Leu Ile Glu Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
35 40 45

Gly Val Ile Asn Pro Gly Ser Gly Gly Ile Tyr Tyr Ala Gln Lys Phe
50 55 60

Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val Tyr
65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Arg Ser Glu Thr His Asp Thr Trp Phe Ala Tyr Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ser
115

<210> 1447

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 1447

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Ala Phe Thr Asn Tyr
20 25 30

Leu Ile Glu Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Ile
35 40 45

Gly Val Ile Asn Pro Gly Ser Gly Gly Ile Tyr Tyr Ala Gln Lys Phe
50 55 60

Gln Gly Arg Val Thr Met Thr Ala Asp Thr Ser Thr Ser Thr Val Tyr
65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Arg Ser Glu Thr His Asp Thr Trp Phe Ala Tyr Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ser
115

<210> 1448
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 1448
Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
1 5 10 15

Ser Val Lys Val Ser Cys Lys Thr Ser Gly Tyr Ala Phe Thr Asn Tyr
20 25 30

Leu Ile Glu Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Ile
35 40 45

Gly Val Ile Asn Pro Gly Ser Gly Gly Ile Tyr Tyr Ala Gln Lys Phe
50 55 60

Gln Gly Arg Val Thr Leu Thr Ala Asp Thr Ser Thr Ser Thr Ala Tyr
65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Arg Ser Glu Thr His Asp Thr Trp Phe Ala Tyr Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ser
115

<210> 1449
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 1449
Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
1 5 10 15

Ser Val Lys Val Ser Cys Lys Thr Ser Gly Tyr Ala Phe Thr Asn Tyr
20 25 30

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Leu Ile Glu Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Ile
35 40 45

Gly Val Ile Asn Pro Gly Ser Gly Gly Ile Tyr Tyr Ala Gln Lys Phe
50 55 60

Gln Gly Arg Val Thr Leu Thr Ala Asp Lys Ser Thr Ser Thr Ala Tyr
65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Arg Ser Glu Thr His Asp Thr Trp Phe Ala Tyr Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ser
115

<210> 1450

<211> 120

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 1450

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asn Tyr
20 25 30

Trp Ile Gly Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
35 40 45

Gly Asp Ile Tyr Pro Gly Gly Gly Tyr Thr Asn Tyr Ala Gln Lys Phe
50 55 60

Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val Tyr
65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Arg Pro Tyr Tyr Gly Ser Ser Tyr Gly Phe Ala Phe Trp Gly Gln
100 105 110

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 1451

<211> 120

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 1451

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
1 5 10 15Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asn Tyr
20 25 30Trp Ile Gly Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Ile
35 40 45Gly Asp Ile Tyr Pro Gly Gly Gly Tyr Thr Asn Tyr Ala Gln Lys Phe
50 55 60Gln Gly Arg Val Thr Met Thr Ala Asp Thr Ser Thr Ser Thr Val Tyr
65 70 75 80Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95Ala Ser Pro Tyr Tyr Gly Ser Ser Tyr Gly Phe Ala Phe Trp Gly Gln
100 105 110Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 1452

<211> 120

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 1452

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
1 5 10 15Ser Val Lys Met Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asn Tyr
20 25 30Trp Ile Gly Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Ile
35 40 45Gly Asp Ile Tyr Pro Gly Gly Gly Tyr Thr Asn Tyr Ala Gln Lys Phe
50 55 60

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Gln Gly Arg Ala Thr Leu Thr Ala Asp Thr Ser Thr Ser Thr Ala Tyr
65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Ser Pro Tyr Tyr Gly Ser Ser Tyr Gly Phe Ala Phe Trp Gly Gln
100 105 110

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 1453

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 1453

Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
1 5 10 15

Asp Arg Val Thr Ile Thr Cys Arg Val Ser Glu Asn Ile Tyr Ser Asn
20 25 30

Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile
35 40 45

Tyr Glu Ala Thr Asn Leu Ala Glu Gly Val Pro Ser Arg Phe Ser Gly
50 55 60

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
65 70 75 80

Glu Asp Phe Ala Thr Tyr Tyr Cys Gln His Phe Trp Gly Thr Pro Tyr
85 90 95

Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
100 105

<210> 1454

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 1454

Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
1 5 10 15

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Asp Arg Val Thr Ile Thr Cys Arg Val Ser Glu Asn Ile Tyr Ser Asn
20 25 30

Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile
35 40 45

Tyr Glu Ala Thr Asn Leu Ala Glu Gly Val Pro Ser Arg Phe Ser Gly
50 55 60

Ser Gly Ser Gly Thr Asp Tyr Thr Leu Thr Ile Ser Ser Leu Gln Pro
65 70 75 80

Glu Asp Phe Ala Thr Tyr Tyr Cys Gln His Phe Trp Gly Thr Pro Tyr
85 90 95

Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
100 105

<210> 1455

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 1455

Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
1 5 10 15

Asp Arg Val Thr Ile Thr Cys Arg Val Ser Glu Asn Ile Tyr Ser Asn
20 25 30

Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Val
35 40 45

Tyr Glu Ala Thr Asn Leu Ala Glu Gly Val Pro Ser Arg Phe Ser Gly
50 55 60

Ser Gly Ser Gly Thr Asp Tyr Thr Leu Thr Ile Ser Ser Leu Gln Pro
65 70 75 80

Glu Asp Phe Gly Thr Tyr Tyr Cys Gln His Phe Trp Gly Thr Pro Tyr
85 90 95

Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
100 105

<210> 1456

<211> 106

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 1456

Glu Ile Val Leu Thr Gln Ser Pro Ala Thr Leu Ser Leu Ser Pro Gly
1 5 10 15

Glu Arg Ala Thr Leu Ser Cys Asn Ala Ser Ser Ser Val Ser Tyr Met
20 25 30

Tyr Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile Tyr
35 40 45

Asp Thr Ser Asn Leu Ala Ser Gly Ile Pro Ala Arg Phe Ser Gly Ser
50 55 60

Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Glu Pro Glu
65 70 75 80

Asp Phe Ala Val Tyr Tyr Cys Gln Gln Trp Ser Ser Tyr Pro Leu Thr
85 90 95

Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
100 105

<210> 1457

<211> 106

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 1457

Glu Ile Val Leu Thr Gln Ser Pro Ala Thr Leu Ser Leu Ser Pro Gly
1 5 10 15

Glu Arg Ala Thr Leu Ser Cys Asn Ala Ser Ser Ser Val Ser Tyr Met
20 25 30

Tyr Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile Tyr
35 40 45

Asp Thr Ser Asn Leu Ala Ser Gly Ile Pro Ala Arg Phe Ser Gly Ser
50 55 60

Gly Ser Gly Thr Asp Tyr Thr Leu Thr Ile Ser Ser Leu Glu Pro Glu
65 70 75 80

Asp Phe Ala Val Tyr Tyr Cys Gln Gln Trp Ser Ser Tyr Pro Leu Thr
85 90 95

Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
100 105

<210> 1458
 <211> 106
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic polypeptide

<400> 1458
 Glu Ile Val Leu Thr Gln Ser Pro Ala Thr Leu Ser Leu Ser Pro Gly
 1 5 10 15
 Glu Arg Val Thr Met Ser Cys Asn Ala Ser Ser Ser Val Ser Tyr Met
 20 25 30
 Tyr Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile Tyr
 35 40 45
 Asp Thr Ser Asn Leu Ala Ser Gly Val Pro Ala Arg Phe Ser Gly Ser
 50 55 60
 Gly Ser Gly Thr Asp Tyr Thr Leu Thr Ile Ser Ser Met Glu Pro Glu
 65 70 75 80
 Asp Phe Ala Val Tyr Tyr Cys Gln Gln Trp Ser Ser Tyr Pro Leu Thr
 85 90 95
 Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105

<210> 1459
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic polypeptide

<400> 1459
 Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
 1 5 10 15
 Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Glu Asn Ile Tyr Ser Tyr
 20 25 30
 Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile
 35 40 45
 Tyr Asn Ala Lys Thr Leu Val Glu Gly Val Pro Ser Arg Phe Ser Gly
 50 55 60
 Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
 65 70 75 80

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Glu Asp Phe Ala Thr Tyr Tyr Cys Gln His His Tyr Gly Thr Pro Tyr
85 90 95

Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
100 105

<210> 1460
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 1460
Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
1 5 10 15

Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Glu Asn Ile Tyr Ser Tyr
20 25 30

Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Val
35 40 45

Tyr Asn Ala Lys Thr Leu Val Glu Gly Val Pro Ser Arg Phe Ser Gly
50 55 60

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
65 70 75 80

Glu Asp Phe Gly Thr Tyr Tyr Cys Gln His His Tyr Gly Thr Pro Tyr
85 90 95

Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
100 105

<210> 1461
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 1461
Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
1 5 10 15

Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Ser Val Arg Ile Ala
20 25 30

Val Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile
35 40 45

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Tyr Leu Ala Ser Thr Arg His Thr Gly Val Pro Ser Arg Phe Ser Gly
50 55 60

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
65 70 75 80

Glu Asp Phe Ala Thr Tyr Tyr Cys Leu Gln His Trp Asn Tyr Pro Tyr
85 90 95

Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
100 105

<210> 1462

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 1462

Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
1 5 10 15

Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Ser Val Arg Ile Ala
20 25 30

Val Ala Trp Phe Gln Gln Lys Pro Gly Lys Ala Pro Lys Ala Leu Ile
35 40 45

Tyr Leu Ala Ser Thr Arg His Thr Gly Val Pro Ser Arg Phe Ser Gly
50 55 60

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Val Gln Pro
65 70 75 80

Glu Asp Phe Ala Thr Tyr Tyr Cys Leu Gln His Trp Asn Tyr Pro Tyr
85 90 95

Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
100 105

<210> 1463

<211> 131

<212> PRT

<213> Homo sapiens

<400> 1463

Thr Pro Glu Val Trp Val Gln Val Arg Met Glu Ala Thr Glu Leu Ser
1 5 10 15

Ser Phe Thr Ile Arg Cys Gly Phe Leu Gly Ser Gly Ser Ile Ser Leu
20 25 30

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Val Thr Val Ser Trp Gly Gly Pro Asn Gly Ala Gly Gly Thr Thr Leu
35 40 45

Ala Val Leu His Pro Glu Arg Gly Ile Arg Gln Trp Ala Pro Ala Arg
50 55 60

Gln Ala Arg Trp Glu Thr Gln Ser Ser Ile Ser Leu Ile Leu Glu Gly
65 70 75 80

Ser Gly Ala Ser Ser Pro Cys Ala Asn Thr Thr Phe Cys Cys Lys Phe
85 90 95

Ala Ser Phe Pro Glu Gly Ser Trp Glu Ala Cys Gly Ser Leu Pro Pro
100 105 110

Ser Ser Asp Pro Gly Leu Ser Ala Pro Pro Thr Pro Ala Pro Ile Leu
115 120 125

Arg Ala Asp
130

<210> 1464
<211> 131
<212> PRT
<213> Macaca fascicularis

<400> 1464
Thr Pro Glu Val Trp Val Gln Val Gln Met Glu Ala Thr Glu Leu Ser
1 5 10 15

Ser Phe Thr Val His Cys Gly Phe Leu Gly Pro Gly Ser Ile Ser Leu
20 25 30

Val Thr Val Ser Trp Gly Gly Pro Asp Gly Ala Gly Gly Thr Lys Leu
35 40 45

Ala Val Leu His Pro Glu Leu Gly Thr Arg Gln Trp Ala Pro Ala Arg
50 55 60

Gln Ala Arg Trp Glu Thr Gln Ser Ser Ile Ser Leu Ala Leu Glu Asp
65 70 75 80

Ser Gly Ala Ser Ser Pro Phe Ala Asn Thr Thr Phe Cys Cys Lys Phe
85 90 95

Ala Ser Phe Pro Glu Gly Ser Trp Glu Ser Cys Gly Ser Leu Pro Pro
100 105 110

Ser Ser Asp Pro Gly Leu Ser Ala Pro Pro Thr Pro Val Pro Ile Leu
115 120 125

Arg Ala Asp
130

<210> 1465
<211> 126
<212> PRT
<213> Callithrix jacchus

<400> 1465
Thr Pro Glu Val Trp Val Gln Val Gln Met Lys Ala Thr Glu Leu Ser
1 5 10 15
Ser Phe Ile Val His Cys Gly Phe Leu Gly Ser Gly Ser Ile Ser Leu
20 25 30
Val Thr Val Ser Trp Gly Gly Pro Asp Gly Ala Gly Gly Thr Arg Leu
35 40 45
Ala Val Leu His Pro Glu Leu Gly Thr Arg Gln Trp Ala Pro Ala His
50 55 60
Gln Ala Arg Trp Glu Thr Gln Ser Ser Ile Ser Leu Val Leu Glu Glu
65 70 75 80
Pro Gly Ala Ser Ser Pro Ser Ala Asn Thr Thr Phe Cys Cys Lys Phe
85 90 95
Ala Ser Phe Pro Glu Gly Ser Trp Glu Ala Cys Gly Ser Leu Pro Pro
100 105 110
Ser Ser Asp Pro Gly Leu Ser Ala Pro Ile Leu Arg Ala Asp
115 120 125

<210> 1466
<211> 131
<212> PRT
<213> Macaca mulatta

<400> 1466
Thr Pro Glu Val Trp Val Gln Val Gln Met Glu Ala Thr Glu Leu Ser
1 5 10 15
Ser Phe Thr Val His Cys Gly Phe Leu Gly Pro Gly Ser Ile Ser Leu
20 25 30
Val Thr Val Ser Trp Gly Gly Pro Asp Gly Ala Gly Gly Thr Lys Leu
35 40 45
Ala Val Leu His Pro Glu Leu Gly Thr Arg Gln Trp Ala Pro Ala Arg
50 55 60
Gln Ala Arg Trp Glu Thr Gln Ser Ser Ile Ser Leu Ala Leu Glu Asp
65 70 75 80

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Ser Gly Ala Ser Ser Pro Phe Ala Asn Thr Thr Phe Cys Cys Lys Phe
85 90 95

Ala Ser Phe Pro Glu Gly Ser Trp Glu Ser Cys Gly Ser Leu Pro Pro
100 105 110

Ser Ser Asp Pro Gly Leu Ser Ala Pro Pro Thr Pro Val Pro Ile Leu
115 120 125

Arg Ala Asp
130

<210> 1467
<211> 131
<212> PRT
<213> Homo sapiens

<400> 1467
Thr Pro Glu Val Trp Val Gln Val Arg Met Glu Ala Thr Glu Leu Ser
1 5 10 15

Ser Phe Thr Ile Arg Cys Gly Phe Leu Gly Ser Gly Ser Ile Ser Leu
20 25 30

Val Thr Val Ser Trp Gly Gly Pro Asn Gly Ala Gly Gly Thr Thr Leu
35 40 45

Ala Val Leu His Pro Glu Arg Gly Ile Arg Gln Trp Ala Pro Ala Arg
50 55 60

Gln Ala Arg Trp Glu Thr Gln Ser Ser Ile Ser Leu Ile Leu Glu Gly
65 70 75 80

Ser Gly Ala Ser Ser Pro Cys Ala Asn Thr Thr Phe Cys Cys Lys Phe
85 90 95

Ala Ser Phe Pro Glu Gly Ser Trp Glu Ala Cys Gly Ser Leu Pro Pro
100 105 110

Ser Ser Asp Pro Gly Leu Ser Ala Pro Pro Thr Pro Ala Pro Ile Leu
115 120 125

Arg Ala Asp
130

<210> 1468
<211> 151
<212> PRT
<213> Homo sapiens

<400> 1468
Met Gly His Arg Thr Leu Val Leu Pro Trp Val Leu Leu Thr Leu Cys
1 5 10 15

Val Thr Ala Gly Thr Pro Glu Val Trp Val Gln Val Arg Met Glu Ala
20 25 30

Thr Glu Leu Ser Ser Phe Thr Ile Arg Cys Gly Phe Leu Gly Ser Gly
35 40 45

Ser Ile Ser Leu Val Thr Val Ser Trp Gly Gly Pro Asn Gly Ala Gly
50 55 60

Gly Thr Thr Leu Ala Val Leu His Pro Glu Arg Gly Ile Arg Gln Trp
65 70 75 80

Ala Pro Ala Arg Gln Ala Arg Trp Glu Thr Gln Ser Ser Ile Ser Leu
85 90 95

Ile Leu Glu Gly Ser Gly Ala Ser Ser Pro Cys Ala Asn Thr Thr Phe
100 105 110

Cys Cys Lys Phe Ala Ser Phe Pro Glu Gly Ser Trp Glu Ala Cys Gly
115 120 125

Ser Leu Pro Pro Ser Ser Asp Pro Gly Leu Ser Ala Pro Pro Thr Pro
130 135 140

Ala Pro Ile Leu Arg Ala Asp
145 150

<210> 1469
<211> 104
<212> PRT
<213> Homo sapiens

<400> 1469
Glu Val Trp Val Gln Val Arg Met Glu Ala Thr Glu Leu Ser Ser Phe
1 5 10 15

Thr Ile Arg Cys Gly Phe Leu Gly Ser Gly Ser Ile Ser Leu Val Thr
20 25 30

Val Ser Trp Gly Gly Pro Asn Gly Ala Gly Gly Thr Thr Leu Ala Val
35 40 45

Leu His Pro Glu Arg Gly Ile Arg Gln Trp Ala Pro Ala Arg Gln Ala
50 55 60

Arg Trp Glu Thr Gln Ser Ser Ile Ser Leu Ile Leu Glu Gly Ser Gly
65 70 75 80

Ala Ser Ser Pro Cys Ala Asn Thr Thr Phe Cys Cys Lys Phe Ala Ser
85 90 95

Phe Pro Glu Gly Ser Trp Glu Ala
100

<210> 1470
 <211> 179
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic polypeptide

<400> 1470
 Met Gly His Arg Thr Leu Val Leu Pro Trp Val Leu Leu Thr Leu Cys
 1 5 10 15

Val Thr Ala Gly Thr Pro Glu Val Trp Val Gln Val Arg Met Glu Ala
 20 25 30

Thr Glu Leu Ser Ser Phe Thr Ile Arg Cys Gly Phe Leu Gly Ser Gly
 35 40 45

Ser Ile Ser Leu Val Thr Val Ser Trp Gly Gly Pro Asn Gly Ala Gly
 50 55 60

Gly Thr Thr Leu Ala Val Leu His Pro Glu Arg Gly Ile Arg Gln Trp
 65 70 75 80

Ala Pro Ala Arg Gln Ala Arg Trp Glu Thr Gln Ser Ser Ile Ser Leu
 85 90 95

Ile Leu Glu Gly Ser Gly Ala Ser Ser Pro Cys Ala Asn Thr Thr Phe
 100 105 110

Cys Cys Lys Phe Ala Ser Phe Pro Glu Gly Ser Trp Glu Ala Cys Gly
 115 120 125

Ser Leu Pro Pro Ser Ser Asp Pro Gly Leu Ser Ala Pro Pro Thr Pro
 130 135 140

Ala Pro Ile Leu Arg Ala Asp Leu Ala Gly Ile Leu Gly Val Ser Gly
 145 150 155 160

Val Leu Leu Phe Gly Cys Val Tyr Leu Leu His Leu Leu Arg Arg His
 165 170 175

Lys His Arg

<210> 1471
 <211> 191
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic polypeptide

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<400> 1471

Met Gly His Arg Thr Leu Val Leu Pro Trp Val Leu Leu Thr Leu Cys
1 5 10 15

Val Thr Ala Gly Thr Pro Glu Val Trp Val Gln Val Arg Met Glu Ala
20 25 30

Thr Glu Leu Ser Ser Phe Thr Ile Arg Cys Gly Phe Leu Gly Ser Gly
35 40 45

Ser Ile Ser Leu Val Thr Val Ser Trp Gly Gly Pro Asn Gly Ala Gly
50 55 60

Gly Thr Thr Leu Ala Val Leu His Pro Glu Arg Gly Ile Arg Gln Trp
65 70 75 80

Ala Pro Ala Arg Gln Ala Arg Trp Glu Thr Gln Ser Ser Ile Ser Leu
85 90 95

Ile Leu Glu Gly Ser Gly Ala Ser Ser Pro Cys Ala Asn Thr Thr Phe
100 105 110

Cys Cys Lys Phe Ala Ser Phe Pro Glu Gly Ser Trp Glu Ala Cys Gly
115 120 125

Ser Leu Pro Pro Ser Ser Asp Pro Gly Leu Ser Val Pro Pro Thr Pro
130 135 140

Ala Pro Ile Leu Arg Ala Asp Leu Ala Gly Ile Leu Gly Val Ser Gly
145 150 155 160

Val Leu Leu Phe Asp Cys Gly Tyr Leu Leu His Leu Leu Cys Arg Gln
165 170 175

Lys His Arg Pro Ala Pro Arg Leu Gln Pro Ser His Thr Ser Ser
180 185 190

<210> 1472

<211> 211

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 1472

Met Gly His Arg Thr Leu Val Leu Pro Trp Val Leu Leu Thr Leu Cys
1 5 10 15

Val Thr Ala Gly Thr Pro Glu Val Trp Val Gln Val Arg Met Glu Ala
20 25 30

Thr Glu Leu Ser Ser Phe Thr Ile Arg Trp Leu Ser Ala Pro Pro Thr
 35 40 45

Pro Ala Pro Ile Leu Arg Ala Asp Leu Ala Gly Ile Leu Gly Val Ser
 50 55 60

Gly Val Leu Leu Phe Gly Cys Val Tyr Leu Leu His Leu Leu Arg Arg
 65 70 75 80

His Lys His Arg Pro Ala Pro Arg Leu Gln Pro Ser Arg Thr Ser Pro
 85 90 95

Gln Ala Pro Arg Ala Arg Ala Trp Ala Pro Ser Gln Ala Ser Gln Ala
 100 105 110

Ala Leu His Val Pro Tyr Ala Thr Ile Asn Thr Ser Cys Arg Pro Ala
 115 120 125

Thr Leu Asp Thr Ala His Pro His Gly Gly Pro Ser Trp Trp Ala Ser
 130 135 140

Leu Pro Thr His Ala Ala His Arg Pro Gln Gly Pro Ala Ala Trp Ala
 145 150 155 160

Ser Thr Pro Ile Pro Ala Arg Gly Ser Phe Val Ser Val Glu Asn Gly
 165 170 175

Leu Tyr Ala Gln Ala Gly Glu Arg Pro Pro His Thr Gly Pro Gly Leu
 180 185 190

Thr Leu Phe Pro Asp Pro Arg Gly Pro Arg Ala Met Glu Gly Pro Leu
 195 200 205

Gly Val Arg
 210

<210> 1473

<211> 189

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 1473

Met Gly His Arg Thr Leu Val Leu Pro Trp Val Leu Leu Thr Leu Cys
 1 5 10 15

Val Thr Ala Gly Leu Ser Ala Pro Pro Thr Pro Ala Pro Ile Leu Arg
 20 25 30

Ala Asp Leu Ala Gly Ile Leu Gly Val Ser Gly Val Leu Leu Phe Gly
 35 40 45

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Cys Val Tyr Leu Leu His Leu Leu Arg Arg His Lys His Arg Pro Ala
50 55 60

Pro Arg Leu Gln Pro Ser Arg Thr Ser Pro Gln Ala Pro Arg Ala Arg
65 70 75 80

Ala Trp Ala Pro Ser Gln Ala Ser Gln Ala Ala Leu His Val Pro Tyr
85 90 95

Ala Thr Ile Asn Thr Ser Cys Arg Pro Ala Thr Leu Asp Thr Ala His
100 105 110

Pro His Gly Gly Pro Ser Trp Trp Ala Ser Leu Pro Thr His Ala Ala
115 120 125

His Arg Pro Gln Gly Pro Ala Ala Trp Ala Ser Thr Pro Ile Pro Ala
130 135 140

Arg Gly Ser Phe Val Ser Val Glu Asn Gly Leu Tyr Ala Gln Ala Gly
145 150 155 160

Glu Arg Pro Pro His Thr Gly Pro Gly Leu Thr Leu Phe Pro Asp Pro
165 170 175

Arg Gly Pro Arg Ala Met Glu Gly Pro Leu Gly Val Arg
180 185

<210> 1474

<211> 74

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 1474

Met Gly His Arg Thr Leu Val Leu Pro Trp Val Leu Leu Thr Leu Cys
1 5 10 15

Val Thr Ala Gly Leu Ser Val Pro Pro Thr Pro Ala Pro Ile Leu Arg
20 25 30

Ala Asp Leu Ala Gly Ile Leu Gly Val Ser Gly Val Leu Leu Phe Asp
35 40 45

Cys Gly Tyr Leu Leu His Leu Leu Cys Arg Gln Lys His Arg Pro Ala
50 55 60

Pro Arg Leu Gln Pro Ser His Thr Ser Ser
65 70

<210> 1475

<211> 203

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 1475

Met Gly His Arg Thr Leu Val Leu Pro Trp Val Leu Leu Thr Leu Cys
1 5 10 15Val Thr Ala Gly Thr Pro Glu Val Trp Val Gln Val Arg Met Glu Ala
20 25 30Thr Glu Leu Ser Ser Phe Thr Ile Arg Cys Gly Phe Leu Gly Ser Gly
35 40 45Ser Ile Ser Leu Val Thr Val Ser Trp Gly Gly Pro Asn Gly Ala Gly
50 55 60Gly Thr Thr Leu Ala Val Leu His Pro Glu Arg Gly Ile Arg Gln Trp
65 70 75 80Ala Pro Ala Arg Gln Ala Arg Trp Glu Thr Gln Ser Ser Ile Ser Leu
85 90 95Ile Leu Glu Gly Ser Gly Ala Ser Ser Pro Cys Ala Asn Thr Thr Phe
100 105 110Cys Cys Lys Phe Ala Ser Phe Pro Glu Gly Ser Trp Glu Ala Cys Gly
115 120 125Ser Leu Pro Pro Ser Ser Asp Pro Gly Gly Ala Gly Ala Arg Gly Pro
130 135 140Gly Gly Gln Gly Gly Ala Arg Glu Leu Ala Thr His Leu Ile Leu Val
145 150 155 160Ser Val Pro Arg Ala Leu Cys Pro Ala Asp Ser Cys Pro His Ser Ala
165 170 175Gly Arg Pro Gly Arg Asp Leu Gly Gly Leu Arg Ser Pro Pro Leu Trp
180 185 190Leu Cys Leu Pro Pro Ser Ser Ala Ala Pro Thr
195 200

<210> 1476

<211> 230

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 1476

Met Gly His Arg Thr Leu Val Leu Pro Trp Val Leu Leu Thr Leu Cys
1 5 10 15

Val Thr Ala Gly Thr Pro Glu Val Trp Val Gln Val Arg Met Glu Ala
20 25 30

Thr Glu Leu Ser Ser Phe Thr Ile Arg Cys Gly Phe Leu Gly Ser Gly
35 40 45

Ser Ile Ser Leu Val Thr Val Ser Trp Gly Gly Pro Asn Gly Ala Gly
50 55 60

Gly Thr Thr Leu Ala Val Leu His Pro Glu Arg Gly Ala Gln Ile Ser
65 70 75 80

Pro Arg Gly Pro Lys Ile Gly Gly Pro Pro Cys Pro Arg Pro Gly Pro
85 90 95

Ala Gly Lys Pro Arg Ala Ala Ser Leu Ser Ser Trp Lys Ala Leu Gly
100 105 110

Pro Ala Ala Pro Ala Pro Thr Pro Pro Ser Ala Ala Ser Leu Arg Pro
115 120 125

Ser Gln Ala Ala Leu His Val Pro Tyr Ala Thr Ile Asn Thr Ser Cys
130 135 140

Arg Pro Ala Thr Leu Asp Thr Ala His Pro His Gly Gly Pro Ser Trp
145 150 155 160

Trp Ala Ser Leu Pro Thr His Ala Ala His Arg Pro Gln Gly Pro Ala
165 170 175

Ala Trp Ala Ser Thr Pro Ile Pro Ala Arg Gly Ser Phe Val Ser Val
180 185 190

Glu Asn Gly Leu Tyr Ala Gln Ala Gly Glu Arg Pro Pro His Thr Gly
195 200 205

Pro Gly Leu Thr Leu Phe Pro Asp Pro Arg Gly Pro Arg Ala Met Glu
210 215 220

Gly Pro Leu Gly Val Arg
225 230

<210> 1477

<211> 182

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 1477

Met Gly His Arg Thr Leu Val Leu Pro Trp Val Leu Leu Thr Leu Cys
1 5 10 15Val Thr Ala Gly Thr Pro Glu Val Trp Val Gln Val Arg Met Glu Ala
20 25 30Thr Glu Leu Ser Ser Phe Thr Ile Arg Cys Gly Phe Leu Gly Ser Gly
35 40 45Ser Ile Ser Leu Val Thr Val Ser Trp Gly Gly Pro Asn Gly Ala Gly
50 55 60Gly Thr Thr Leu Ala Val Leu His Pro Glu Arg Gly Ile Arg Gln Trp
65 70 75 80Ala Pro Ala Arg Gln Ala Arg Trp Glu Thr Gln Ser Ser Ile Ser Leu
85 90 95Ile Leu Glu Gly Ser Gly Ala Ser Ser Pro Cys Ala Asn Thr Thr Phe
100 105 110Cys Cys Lys Phe Ala Ser Phe Pro Gly Cys Ser Ser Arg Pro Leu Cys
115 120 125His Tyr Gln His Gln Leu Pro Pro Ser Tyr Phe Gly His Ser Ser Pro
130 135 140Pro Trp Gly Ala Val Leu Val Gly Val Thr Pro His Pro Arg Cys Thr
145 150 155 160Pro Ala Pro Gly Pro Cys Arg Leu Gly Leu His Thr His Pro Cys Thr
165 170 175Trp Gln Leu Cys Leu Cys
180

<210> 1478

<211> 183

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 1478

Thr Pro Glu Val Trp Val Gln Val Arg Met Glu Ala Thr Glu Leu Ser
1 5 10 15

Ser Phe Thr Ile Arg Cys Gly Phe Leu Gly Ser Gly Ser Ile Ser Leu
20 25 30

Val Thr Val Ser Trp Gly Gly Pro Asn Gly Ala Gly Gly Thr Thr Leu
35 40 45

Ala Val Leu His Pro Glu Arg Gly Ile Arg Gln Trp Ala Pro Ala Arg
50 55 60

Gln Ala Arg Trp Glu Thr Gln Ser Ser Ile Ser Leu Ile Leu Glu Gly
65 70 75 80

Ser Gly Ala Ser Ser Pro Cys Ala Asn Thr Thr Phe Cys Cys Lys Phe
85 90 95

Ala Ser Phe Pro Glu Gly Ser Trp Glu Ala Cys Gly Ser Leu Pro Pro
100 105 110

Ser Ser Asp Pro Gly Gly Ala Gly Ala Arg Gly Pro Gly Gly Gln Gly
115 120 125

Gly Ala Arg Glu Leu Ala Thr His Leu Ile Leu Val Ser Val Pro Arg
130 135 140

Ala Leu Cys Pro Ala Asp Ser Cys Pro His Ser Ala Gly Arg Pro Gly
145 150 155 160

Arg Asp Leu Gly Gly Leu Arg Ser Pro Pro Leu Trp Leu Cys Leu Pro
165 170 175

Pro Ser Ser Ala Ala Pro Thr
180

<210> 1479

<211> 210

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 1479

Thr Pro Glu Val Trp Val Gln Val Arg Met Glu Ala Thr Glu Leu Ser
1 5 10 15

Ser Phe Thr Ile Arg Cys Gly Phe Leu Gly Ser Gly Ser Ile Ser Leu
20 25 30

Val Thr Val Ser Trp Gly Gly Pro Asn Gly Ala Gly Gly Thr Thr Leu
35 40 45

Ala Val Leu His Pro Glu Arg Gly Ala Gln Ile Ser Pro Arg Gly Pro
50 55 60

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Lys Ile Gly Gly Pro Pro Cys Pro Arg Pro Gly Pro Ala Gly Lys Pro
65 70 75 80

Arg Ala Ala Ser Leu Ser Ser Trp Lys Ala Leu Gly Pro Ala Ala Pro
85 90 95

Ala Pro Thr Pro Pro Ser Ala Ala Ser Leu Arg Pro Ser Gln Ala Ala
100 105 110

Leu His Val Pro Tyr Ala Thr Ile Asn Thr Ser Cys Arg Pro Ala Thr
115 120 125

Leu Asp Thr Ala His Pro His Gly Gly Pro Ser Trp Trp Ala Ser Leu
130 135 140

Pro Thr His Ala Ala His Arg Pro Gln Gly Pro Ala Ala Trp Ala Ser
145 150 155 160

Thr Pro Ile Pro Ala Arg Gly Ser Phe Val Ser Val Glu Asn Gly Leu
165 170 175

Tyr Ala Gln Ala Gly Glu Arg Pro Pro His Thr Gly Pro Gly Leu Thr
180 185 190

Leu Phe Pro Asp Pro Arg Gly Pro Arg Ala Met Glu Gly Pro Leu Gly
195 200 205

Val Arg
210

<210> 1480
<211> 162
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 1480
Thr Pro Glu Val Trp Val Gln Val Arg Met Glu Ala Thr Glu Leu Ser
1 5 10 15

Ser Phe Thr Ile Arg Cys Gly Phe Leu Gly Ser Gly Ser Ile Ser Leu
20 25 30

Val Thr Val Ser Trp Gly Gly Pro Asn Gly Ala Gly Gly Thr Thr Leu
35 40 45

Ala Val Leu His Pro Glu Arg Gly Ile Arg Gln Trp Ala Pro Ala Arg
50 55 60

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Gln Ala Arg Trp Glu Thr Gln Ser Ser Ile Ser Leu Ile Leu Glu Gly
65 70 75 80

Ser Gly Ala Ser Ser Pro Cys Ala Asn Thr Thr Phe Cys Cys Lys Phe
85 90 95

Ala Ser Phe Pro Gly Cys Ser Ser Arg Pro Leu Cys His Tyr Gln His
100 105 110

Gln Leu Pro Pro Ser Tyr Phe Gly His Ser Ser Pro Pro Trp Gly Ala
115 120 125

Val Leu Val Gly Val Thr Pro His Pro Arg Cys Thr Pro Ala Pro Gly
130 135 140

Pro Cys Arg Leu Gly Leu His Thr His Pro Cys Thr Trp Gln Leu Cys
145 150 155 160

Leu Cys

<210> 1481

<211> 66

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 1481

Gly Ala Gly Ala Arg Gly Pro Gly Gly Gln Gly Gly Ala Arg Glu Leu
1 5 10 15

Ala Thr His Leu Ile Leu Val Ser Val Pro Arg Ala Leu Cys Pro Ala
20 25 30

Asp Ser Cys Pro His Ser Ala Gly Arg Pro Gly Arg Asp Leu Gly Gly
35 40 45

Leu Arg Ser Pro Pro Leu Trp Leu Cys Leu Pro Pro Ser Ser Ala Ala
50 55 60

Pro Thr
65

<210> 1482

<211> 154

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 1482

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Ala Gln Ile Ser Pro Arg Gly Pro Lys Ile Gly Gly Pro Pro Cys Pro
1 5 10 15

Arg Pro Gly Pro Ala Gly Lys Pro Arg Ala Ala Ser Leu Ser Ser Trp
20 25 30

Lys Ala Leu Gly Pro Ala Ala Pro Ala Pro Thr Pro Pro Ser Ala Ala
35 40 45

Ser Leu Arg Pro Ser Gln Ala Ala Leu His Val Pro Tyr Ala Thr Ile
50 55 60

Asn Thr Ser Cys Arg Pro Ala Thr Leu Asp Thr Ala His Pro His Gly
65 70 75 80

Gly Pro Ser Trp Trp Ala Ser Leu Pro Thr His Ala Ala His Arg Pro
85 90 95

Gln Gly Pro Ala Ala Trp Ala Ser Thr Pro Ile Pro Ala Arg Gly Ser
100 105 110

Phe Val Ser Val Glu Asn Gly Leu Tyr Ala Gln Ala Gly Glu Arg Pro
115 120 125

Pro His Thr Gly Pro Gly Leu Thr Leu Phe Pro Asp Pro Arg Gly Pro
130 135 140

Arg Ala Met Glu Gly Pro Leu Gly Val Arg
145 150

<210> 1483

<211> 52

<212> PRT

<213> Artificial sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 1483

Ala Gln Ile Ser Pro Arg Gly Pro Lys Ile Gly Gly Pro Pro Cys Pro
1 5 10 15

Arg Pro Gly Pro Ala Gly Lys Pro Arg Ala Ala Ser Leu Ser Ser Trp
20 25 30

Lys Ala Leu Gly Pro Ala Ala Pro Ala Pro Thr Pro Pro Ser Ala Ala
35 40 45

Ser Leu Arg Pro
50

<210> 1484

<211> 62

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 1484

Gly Cys Ser Ser Arg Pro Leu Cys His Tyr Gln His Gln Leu Pro Pro
 1 5 10 15

Ser Tyr Phe Gly His Ser Ser Pro Pro Trp Gly Ala Val Leu Val Gly
 20 25 30

Val Thr Pro His Pro Arg Cys Thr Pro Ala Pro Gly Pro Cys Arg Leu
 35 40 45

Gly Leu His Thr His Pro Cys Thr Trp Gln Leu Cys Leu Cys
 50 55 60

<210> 1485

<211> 129

<212> PRT

<213> Homo sapiens

<400> 1485

Thr Pro Glu Val Trp Val Gln Val Arg Met Glu Ala Thr Glu Leu Ser
 1 5 10 15

Ser Phe Thr Ile Arg Cys Gly Phe Leu Gly Ser Gly Ser Ile Ser Leu
 20 25 30

Val Thr Val Ser Trp Gly Gly Pro Asn Gly Ala Gly Gly Thr Thr Leu
 35 40 45

Ala Val Leu His Pro Glu Arg Gly Ile Arg Gln Trp Ala Pro Ala Arg
 50 55 60

Gln Ala Arg Trp Glu Thr Gln Ser Ser Ile Ser Leu Ile Leu Glu Gly
 65 70 75 80

Ser Gly Ala Ser Ser Pro Cys Ala Asn Thr Thr Phe Cys Cys Lys Phe
 85 90 95

Ala Ser Phe Pro Glu Gly Ser Trp Glu Ala Cys Gly Ser Leu Pro Pro
 100 105 110

Ser Ser Asp Pro Gly Leu Ser Ala Pro Pro Thr Pro Ala Pro Ile Leu
 115 120 125

Arg

<210> 1486

<211> 130

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<212> PRT

<213> Homo sapiens

<400> 1486

Thr Pro Glu Val Trp Val Gln Val Arg Met Glu Ala Thr Glu Leu Ser
1 5 10 15

Ser Phe Thr Ile Arg Cys Gly Phe Leu Gly Ser Gly Ser Ile Ser Leu
20 25 30

Val Thr Val Ser Trp Gly Gly Pro Asn Gly Ala Gly Gly Thr Thr Leu
35 40 45

Ala Val Leu His Pro Glu Arg Gly Ile Arg Gln Trp Ala Pro Ala Arg
50 55 60

Gln Ala Arg Trp Glu Thr Gln Ser Ser Ile Ser Leu Ile Leu Glu Gly
65 70 75 80

Ser Gly Ala Ser Ser Pro Cys Ala Asn Thr Thr Phe Cys Cys Lys Phe
85 90 95

Ala Ser Phe Pro Glu Gly Ser Trp Glu Ala Cys Gly Ser Leu Pro Pro
100 105 110

Ser Ser Asp Pro Gly Leu Ser Ala Pro Pro Thr Pro Ala Pro Ile Leu
115 120 125

Arg Ala
130

<210> 1487

<211> 132

<212> PRT

<213> Homo sapiens

<400> 1487

Thr Pro Glu Val Trp Val Gln Val Arg Met Glu Ala Thr Glu Leu Ser
1 5 10 15

Ser Phe Thr Ile Arg Cys Gly Phe Leu Gly Ser Gly Ser Ile Ser Leu
20 25 30

Val Thr Val Ser Trp Gly Gly Pro Asn Gly Ala Gly Gly Thr Thr Leu
35 40 45

Ala Val Leu His Pro Glu Arg Gly Ile Arg Gln Trp Ala Pro Ala Arg
50 55 60

Gln Ala Arg Trp Glu Thr Gln Ser Ser Ile Ser Leu Ile Leu Glu Gly
65 70 75 80

Ser Gly Ala Ser Ser Pro Cys Ala Asn Thr Thr Phe Cys Cys Lys Phe
85 90 95

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Ala Ser Phe Pro Glu Gly Ser Trp Glu Ala Cys Gly Ser Leu Pro Pro
100 105 110

Ser Ser Asp Pro Gly Leu Ser Ala Pro Pro Thr Pro Ala Pro Ile Leu
115 120 125

Arg Ala Asp Leu
130

<210> 1488
<211> 133
<212> PRT
<213> Homo sapiens

<400> 1488
Thr Pro Glu Val Trp Val Gln Val Arg Met Glu Ala Thr Glu Leu Ser
1 5 10 15

Ser Phe Thr Ile Arg Cys Gly Phe Leu Gly Ser Gly Ser Ile Ser Leu
20 25 30

Val Thr Val Ser Trp Gly Gly Pro Asn Gly Ala Gly Gly Thr Thr Leu
35 40 45

Ala Val Leu His Pro Glu Arg Gly Ile Arg Gln Trp Ala Pro Ala Arg
50 55 60

Gln Ala Arg Trp Glu Thr Gln Ser Ser Ile Ser Leu Ile Leu Glu Gly
65 70 75 80

Ser Gly Ala Ser Ser Pro Cys Ala Asn Thr Thr Phe Cys Cys Lys Phe
85 90 95

Ala Ser Phe Pro Glu Gly Ser Trp Glu Ala Cys Gly Ser Leu Pro Pro
100 105 110

Ser Ser Asp Pro Gly Leu Ser Ala Pro Pro Thr Pro Ala Pro Ile Leu
115 120 125

Arg Ala Asp Leu Ala
130

<210> 1489
<211> 104
<212> PRT
<213> Homo sapiens

<400> 1489
Thr Pro Glu Val Trp Val Gln Val Arg Met Glu Ala Thr Glu Leu Ser
1 5 10 15

Ser Phe Thr Ile Arg Cys Gly Phe Leu Gly Ser Gly Ser Ile Ser Leu
20 25 30

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Val Thr Val Ser Trp Gly Gly Pro Asn Gly Ala Gly Gly Thr Thr Leu
35 40 45

Ala Val Leu His Pro Glu Arg Gly Ile Arg Gln Trp Ala Pro Ala Arg
50 55 60

Gln Ala Arg Trp Glu Thr Gln Ser Ser Ile Ser Leu Ile Leu Glu Gly
65 70 75 80

Ser Gly Ala Ser Ser Pro Cys Ala Asn Thr Thr Phe Cys Cys Lys Phe
85 90 95

Ala Ser Phe Pro Glu Gly Ser Trp
100

<210> 1490
<211> 105
<212> PRT
<213> Homo sapiens

<400> 1490
Thr Pro Glu Val Trp Val Gln Val Arg Met Glu Ala Thr Glu Leu Ser
1 5 10 15

Ser Phe Thr Ile Arg Cys Gly Phe Leu Gly Ser Gly Ser Ile Ser Leu
20 25 30

Val Thr Val Ser Trp Gly Gly Pro Asn Gly Ala Gly Gly Thr Thr Leu
35 40 45

Ala Val Leu His Pro Glu Arg Gly Ile Arg Gln Trp Ala Pro Ala Arg
50 55 60

Gln Ala Arg Trp Glu Thr Gln Ser Ser Ile Ser Leu Ile Leu Glu Gly
65 70 75 80

Ser Gly Ala Ser Ser Pro Cys Ala Asn Thr Thr Phe Cys Cys Lys Phe
85 90 95

Ala Ser Phe Pro Glu Gly Ser Trp Glu
100 105

<210> 1491
<211> 106
<212> PRT
<213> Homo sapiens

<400> 1491
Thr Pro Glu Val Trp Val Gln Val Arg Met Glu Ala Thr Glu Leu Ser
1 5 10 15

Ser Phe Thr Ile Arg Cys Gly Phe Leu Gly Ser Gly Ser Ile Ser Leu
20 25 30

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Val Thr Val Ser Trp Gly Gly Pro Asn Gly Ala Gly Gly Thr Thr Leu
35 40 45

Ala Val Leu His Pro Glu Arg Gly Ile Arg Gln Trp Ala Pro Ala Arg
50 55 60

Gln Ala Arg Trp Glu Thr Gln Ser Ser Ile Ser Leu Ile Leu Glu Gly
65 70 75 80

Ser Gly Ala Ser Ser Pro Cys Ala Asn Thr Thr Phe Cys Cys Lys Phe
85 90 95

Ala Ser Phe Pro Glu Gly Ser Trp Glu Ala
100 105

<210> 1492
<211> 107
<212> PRT
<213> Homo sapiens

<400> 1492
Thr Pro Glu Val Trp Val Gln Val Arg Met Glu Ala Thr Glu Leu Ser
1 5 10 15

Ser Phe Thr Ile Arg Cys Gly Phe Leu Gly Ser Gly Ser Ile Ser Leu
20 25 30

Val Thr Val Ser Trp Gly Gly Pro Asn Gly Ala Gly Gly Thr Thr Leu
35 40 45

Ala Val Leu His Pro Glu Arg Gly Ile Arg Gln Trp Ala Pro Ala Arg
50 55 60

Gln Ala Arg Trp Glu Thr Gln Ser Ser Ile Ser Leu Ile Leu Glu Gly
65 70 75 80

Ser Gly Ala Ser Ser Pro Cys Ala Asn Thr Thr Phe Cys Cys Lys Phe
85 90 95

Ala Ser Phe Pro Glu Gly Ser Trp Glu Ala Cys
100 105

<210> 1493
<211> 108
<212> PRT
<213> Homo sapiens

<400> 1493
Thr Pro Glu Val Trp Val Gln Val Arg Met Glu Ala Thr Glu Leu Ser
1 5 10 15

Ser Phe Thr Ile Arg Cys Gly Phe Leu Gly Ser Gly Ser Ile Ser Leu
20 25 30

Val Thr Val Ser Trp Gly Gly Pro Asn Gly Ala Gly Gly Thr Thr Leu
35 40 45

Ala Val Leu His Pro Glu Arg Gly Ile Arg Gln Trp Ala Pro Ala Arg
50 55 60

Gln Ala Arg Trp Glu Thr Gln Ser Ser Ile Ser Leu Ile Leu Glu Gly
65 70 75 80

Ser Gly Ala Ser Ser Pro Cys Ala Asn Thr Thr Phe Cys Cys Lys Phe
85 90 95

Ala Ser Phe Pro Glu Gly Ser Trp Glu Ala Cys Gly
100 105

<210> 1494
<211> 103
<212> PRT
<213> Homo sapiens

<400> 1494
Pro Glu Val Trp Val Gln Val Arg Met Glu Ala Thr Glu Leu Ser Ser
1 5 10 15

Phe Thr Ile Arg Cys Gly Phe Leu Gly Ser Gly Ser Ile Ser Leu Val
20 25 30

Thr Val Ser Trp Gly Gly Pro Asn Gly Ala Gly Gly Thr Thr Leu Ala
35 40 45

Val Leu His Pro Glu Arg Gly Ile Arg Gln Trp Ala Pro Ala Arg Gln
50 55 60

Ala Arg Trp Glu Thr Gln Ser Ser Ile Ser Leu Ile Leu Glu Gly Ser
65 70 75 80

Gly Ala Ser Ser Pro Cys Ala Asn Thr Thr Phe Cys Cys Lys Phe Ala
85 90 95

Ser Phe Pro Glu Gly Ser Trp
100

<210> 1495
<211> 104
<212> PRT
<213> Homo sapiens

<400> 1495
Pro Glu Val Trp Val Gln Val Arg Met Glu Ala Thr Glu Leu Ser Ser
1 5 10 15

Phe Thr Ile Arg Cys Gly Phe Leu Gly Ser Gly Ser Ile Ser Leu Val
20 25 30

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Thr Val Ser Trp Gly Gly Pro Asn Gly Ala Gly Gly Thr Thr Leu Ala
35 40 45
Val Leu His Pro Glu Arg Gly Ile Arg Gln Trp Ala Pro Ala Arg Gln
50 55 60
Ala Arg Trp Glu Thr Gln Ser Ser Ile Ser Leu Ile Leu Glu Gly Ser
65 70 75 80
Gly Ala Ser Ser Pro Cys Ala Asn Thr Thr Phe Cys Cys Lys Phe Ala
85 90 95
Ser Phe Pro Glu Gly Ser Trp Glu
100

<210> 1496
<211> 105
<212> PRT
<213> Homo sapiens

<400> 1496
Pro Glu Val Trp Val Gln Val Arg Met Glu Ala Thr Glu Leu Ser Ser
1 5 10 15

Phe Thr Ile Arg Cys Gly Phe Leu Gly Ser Gly Ser Ile Ser Leu Val
20 25 30

Thr Val Ser Trp Gly Gly Pro Asn Gly Ala Gly Gly Thr Thr Leu Ala
35 40 45

Val Leu His Pro Glu Arg Gly Ile Arg Gln Trp Ala Pro Ala Arg Gln
50 55 60

Ala Arg Trp Glu Thr Gln Ser Ser Ile Ser Leu Ile Leu Glu Gly Ser
65 70 75 80

Gly Ala Ser Ser Pro Cys Ala Asn Thr Thr Phe Cys Cys Lys Phe Ala
85 90 95

Ser Phe Pro Glu Gly Ser Trp Glu Ala
100 105

<210> 1497
<211> 106
<212> PRT
<213> Homo sapiens

<400> 1497
Pro Glu Val Trp Val Gln Val Arg Met Glu Ala Thr Glu Leu Ser Ser
1 5 10 15

Phe Thr Ile Arg Cys Gly Phe Leu Gly Ser Gly Ser Ile Ser Leu Val
20 25 30

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Thr Val Ser Trp Gly Gly Pro Asn Gly Ala Gly Gly Thr Thr Leu Ala
35 40 45

Val Leu His Pro Glu Arg Gly Ile Arg Gln Trp Ala Pro Ala Arg Gln
50 55 60

Ala Arg Trp Glu Thr Gln Ser Ser Ile Ser Leu Ile Leu Glu Gly Ser
65 70 75 80

Gly Ala Ser Ser Pro Cys Ala Asn Thr Thr Phe Cys Cys Lys Phe Ala
85 90 95

Ser Phe Pro Glu Gly Ser Trp Glu Ala Cys
100 105

<210> 1498
<211> 107
<212> PRT
<213> Homo sapiens

<400> 1498
Pro Glu Val Trp Val Gln Val Arg Met Glu Ala Thr Glu Leu Ser Ser
1 5 10 15

Phe Thr Ile Arg Cys Gly Phe Leu Gly Ser Gly Ser Ile Ser Leu Val
20 25 30

Thr Val Ser Trp Gly Gly Pro Asn Gly Ala Gly Gly Thr Thr Leu Ala
35 40 45

Val Leu His Pro Glu Arg Gly Ile Arg Gln Trp Ala Pro Ala Arg Gln
50 55 60

Ala Arg Trp Glu Thr Gln Ser Ser Ile Ser Leu Ile Leu Glu Gly Ser
65 70 75 80

Gly Ala Ser Ser Pro Cys Ala Asn Thr Thr Phe Cys Cys Lys Phe Ala
85 90 95

Ser Phe Pro Glu Gly Ser Trp Glu Ala Cys Gly
100 105

<210> 1499
<211> 102
<212> PRT
<213> Homo sapiens

<400> 1499
Glu Val Trp Val Gln Val Arg Met Glu Ala Thr Glu Leu Ser Ser Phe
1 5 10 15

Thr Ile Arg Cys Gly Phe Leu Gly Ser Gly Ser Ile Ser Leu Val Thr
20 25 30

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Val Ser Trp Gly Gly Pro Asn Gly Ala Gly Gly Thr Thr Leu Ala Val
35 40 45

Leu His Pro Glu Arg Gly Ile Arg Gln Trp Ala Pro Ala Arg Gln Ala
50 55 60

Arg Trp Glu Thr Gln Ser Ser Ile Ser Leu Ile Leu Glu Gly Ser Gly
65 70 75 80

Ala Ser Ser Pro Cys Ala Asn Thr Thr Phe Cys Cys Lys Phe Ala Ser
85 90 95

Phe Pro Glu Gly Ser Trp
100

<210> 1500
<211> 103
<212> PRT
<213> Homo sapiens

<400> 1500
Glu Val Trp Val Gln Val Arg Met Glu Ala Thr Glu Leu Ser Ser Phe
1 5 10 15

Thr Ile Arg Cys Gly Phe Leu Gly Ser Gly Ser Ile Ser Leu Val Thr
20 25 30

Val Ser Trp Gly Gly Pro Asn Gly Ala Gly Gly Thr Thr Leu Ala Val
35 40 45

Leu His Pro Glu Arg Gly Ile Arg Gln Trp Ala Pro Ala Arg Gln Ala
50 55 60

Arg Trp Glu Thr Gln Ser Ser Ile Ser Leu Ile Leu Glu Gly Ser Gly
65 70 75 80

Ala Ser Ser Pro Cys Ala Asn Thr Thr Phe Cys Cys Lys Phe Ala Ser
85 90 95

Phe Pro Glu Gly Ser Trp Glu
100

<210> 1501
<211> 105
<212> PRT
<213> Homo sapiens

<400> 1501
Glu Val Trp Val Gln Val Arg Met Glu Ala Thr Glu Leu Ser Ser Phe
1 5 10 15

Thr Ile Arg Cys Gly Phe Leu Gly Ser Gly Ser Ile Ser Leu Val Thr
20 25 30

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Val Ser Trp Gly Gly Pro Asn Gly Ala Gly Gly Thr Thr Leu Ala Val
35 40 45

Leu His Pro Glu Arg Gly Ile Arg Gln Trp Ala Pro Ala Arg Gln Ala
50 55 60

Arg Trp Glu Thr Gln Ser Ser Ile Ser Leu Ile Leu Glu Gly Ser Gly
65 70 75 80

Ala Ser Ser Pro Cys Ala Asn Thr Thr Phe Cys Cys Lys Phe Ala Ser
85 90 95

Phe Pro Glu Gly Ser Trp Glu Ala Cys
100 105

<210> 1502
<211> 106
<212> PRT
<213> Homo sapiens

<400> 1502
Glu Val Trp Val Gln Val Arg Met Glu Ala Thr Glu Leu Ser Ser Phe
1 5 10 15

Thr Ile Arg Cys Gly Phe Leu Gly Ser Gly Ser Ile Ser Leu Val Thr
20 25 30

Val Ser Trp Gly Gly Pro Asn Gly Ala Gly Gly Thr Thr Leu Ala Val
35 40 45

Leu His Pro Glu Arg Gly Ile Arg Gln Trp Ala Pro Ala Arg Gln Ala
50 55 60

Arg Trp Glu Thr Gln Ser Ser Ile Ser Leu Ile Leu Glu Gly Ser Gly
65 70 75 80

Ala Ser Ser Pro Cys Ala Asn Thr Thr Phe Cys Cys Lys Phe Ala Ser
85 90 95

Phe Pro Glu Gly Ser Trp Glu Ala Cys Gly
100 105

<210> 1503
<211> 101
<212> PRT
<213> Homo sapiens

<400> 1503
Val Trp Val Gln Val Arg Met Glu Ala Thr Glu Leu Ser Ser Phe Thr
1 5 10 15

Ile Arg Cys Gly Phe Leu Gly Ser Gly Ser Ile Ser Leu Val Thr Val
20 25 30

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Ser Trp Gly Gly Pro Asn Gly Ala Gly Gly Thr Thr Leu Ala Val Leu
35 40 45

His Pro Glu Arg Gly Ile Arg Gln Trp Ala Pro Ala Arg Gln Ala Arg
50 55 60

Trp Glu Thr Gln Ser Ser Ile Ser Leu Ile Leu Glu Gly Ser Gly Ala
65 70 75 80

Ser Ser Pro Cys Ala Asn Thr Thr Phe Cys Cys Lys Phe Ala Ser Phe
85 90 95

Pro Glu Gly Ser Trp
100

<210> 1504
<211> 102
<212> PRT
<213> Homo sapiens

<400> 1504
Val Trp Val Gln Val Arg Met Glu Ala Thr Glu Leu Ser Ser Phe Thr
1 5 10 15

Ile Arg Cys Gly Phe Leu Gly Ser Gly Ser Ile Ser Leu Val Thr Val
20 25 30

Ser Trp Gly Gly Pro Asn Gly Ala Gly Gly Thr Thr Leu Ala Val Leu
35 40 45

His Pro Glu Arg Gly Ile Arg Gln Trp Ala Pro Ala Arg Gln Ala Arg
50 55 60

Trp Glu Thr Gln Ser Ser Ile Ser Leu Ile Leu Glu Gly Ser Gly Ala
65 70 75 80

Ser Ser Pro Cys Ala Asn Thr Thr Phe Cys Cys Lys Phe Ala Ser Phe
85 90 95

Pro Glu Gly Ser Trp Glu
100

<210> 1505
<211> 103
<212> PRT
<213> Homo sapiens

<400> 1505
Val Trp Val Gln Val Arg Met Glu Ala Thr Glu Leu Ser Ser Phe Thr
1 5 10 15

Ile Arg Cys Gly Phe Leu Gly Ser Gly Ser Ile Ser Leu Val Thr Val
20 25 30

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Ser Trp Gly Gly Pro Asn Gly Ala Gly Gly Thr Thr Leu Ala Val Leu
35 40 45

His Pro Glu Arg Gly Ile Arg Gln Trp Ala Pro Ala Arg Gln Ala Arg
50 55 60

Trp Glu Thr Gln Ser Ser Ile Ser Leu Ile Leu Glu Gly Ser Gly Ala
65 70 75 80

Ser Ser Pro Cys Ala Asn Thr Thr Phe Cys Cys Lys Phe Ala Ser Phe
85 90 95

Pro Glu Gly Ser Trp Glu Ala
100

<210> 1506
<211> 104
<212> PRT
<213> Homo sapiens

<400> 1506
Val Trp Val Gln Val Arg Met Glu Ala Thr Glu Leu Ser Ser Phe Thr
1 5 10 15

Ile Arg Cys Gly Phe Leu Gly Ser Gly Ser Ile Ser Leu Val Thr Val
20 25 30

Ser Trp Gly Gly Pro Asn Gly Ala Gly Gly Thr Thr Leu Ala Val Leu
35 40 45

His Pro Glu Arg Gly Ile Arg Gln Trp Ala Pro Ala Arg Gln Ala Arg
50 55 60

Trp Glu Thr Gln Ser Ser Ile Ser Leu Ile Leu Glu Gly Ser Gly Ala
65 70 75 80

Ser Ser Pro Cys Ala Asn Thr Thr Phe Cys Cys Lys Phe Ala Ser Phe
85 90 95

Pro Glu Gly Ser Trp Glu Ala Cys
100

<210> 1507
<211> 105
<212> PRT
<213> Homo sapiens

<400> 1507
Val Trp Val Gln Val Arg Met Glu Ala Thr Glu Leu Ser Ser Phe Thr
1 5 10 15

Ile Arg Cys Gly Phe Leu Gly Ser Gly Ser Ile Ser Leu Val Thr Val
20 25 30

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Ser Trp Gly Gly Pro Asn Gly Ala Gly Gly Thr Thr Leu Ala Val Leu
35 40 45

His Pro Glu Arg Gly Ile Arg Gln Trp Ala Pro Ala Arg Gln Ala Arg
50 55 60

Trp Glu Thr Gln Ser Ser Ile Ser Leu Ile Leu Glu Gly Ser Gly Ala
65 70 75 80

Ser Ser Pro Cys Ala Asn Thr Thr Phe Cys Cys Lys Phe Ala Ser Phe
85 90 95

Pro Glu Gly Ser Trp Glu Ala Cys Gly
100 105

<210> 1508
<211> 100
<212> PRT
<213> Homo sapiens

<400> 1508
Trp Val Gln Val Arg Met Glu Ala Thr Glu Leu Ser Ser Phe Thr Ile
1 5 10 15

Arg Cys Gly Phe Leu Gly Ser Gly Ser Ile Ser Leu Val Thr Val Ser
20 25 30

Trp Gly Gly Pro Asn Gly Ala Gly Gly Thr Thr Leu Ala Val Leu His
35 40 45

Pro Glu Arg Gly Ile Arg Gln Trp Ala Pro Ala Arg Gln Ala Arg Trp
50 55 60

Glu Thr Gln Ser Ser Ile Ser Leu Ile Leu Glu Gly Ser Gly Ala Ser
65 70 75 80

Ser Pro Cys Ala Asn Thr Thr Phe Cys Cys Lys Phe Ala Ser Phe Pro
85 90 95

Glu Gly Ser Trp
100

<210> 1509
<211> 101
<212> PRT
<213> Homo sapiens

<400> 1509
Trp Val Gln Val Arg Met Glu Ala Thr Glu Leu Ser Ser Phe Thr Ile
1 5 10 15

Arg Cys Gly Phe Leu Gly Ser Gly Ser Ile Ser Leu Val Thr Val Ser
20 25 30

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Trp Gly Gly Pro Asn Gly Ala Gly Gly Thr Thr Leu Ala Val Leu His
35 40 45

Pro Glu Arg Gly Ile Arg Gln Trp Ala Pro Ala Arg Gln Ala Arg Trp
50 55 60

Glu Thr Gln Ser Ser Ile Ser Leu Ile Leu Glu Gly Ser Gly Ala Ser
65 70 75 80

Ser Pro Cys Ala Asn Thr Thr Phe Cys Cys Lys Phe Ala Ser Phe Pro
85 90 95

Glu Gly Ser Trp Glu
100

<210> 1510
<211> 102
<212> PRT
<213> Homo sapiens

<400> 1510
Trp Val Gln Val Arg Met Glu Ala Thr Glu Leu Ser Ser Phe Thr Ile
1 5 10 15

Arg Cys Gly Phe Leu Gly Ser Gly Ser Ile Ser Leu Val Thr Val Ser
20 25 30

Trp Gly Gly Pro Asn Gly Ala Gly Gly Thr Thr Leu Ala Val Leu His
35 40 45

Pro Glu Arg Gly Ile Arg Gln Trp Ala Pro Ala Arg Gln Ala Arg Trp
50 55 60

Glu Thr Gln Ser Ser Ile Ser Leu Ile Leu Glu Gly Ser Gly Ala Ser
65 70 75 80

Ser Pro Cys Ala Asn Thr Thr Phe Cys Cys Lys Phe Ala Ser Phe Pro
85 90 95

Glu Gly Ser Trp Glu Ala
100

<210> 1511
<211> 103
<212> PRT
<213> Homo sapiens

<400> 1511
Trp Val Gln Val Arg Met Glu Ala Thr Glu Leu Ser Ser Phe Thr Ile
1 5 10 15

Arg Cys Gly Phe Leu Gly Ser Gly Ser Ile Ser Leu Val Thr Val Ser
20 25 30

114386-5002-US_SL_original

Trp Gly Gly Pro Asn Gly Ala Gly Gly Thr Thr Leu Ala Val Leu His
35 40 45

Pro Glu Arg Gly Ile Arg Gln Trp Ala Pro Ala Arg Gln Ala Arg Trp
50 55 60

Glu Thr Gln Ser Ser Ile Ser Leu Ile Leu Glu Gly Ser Gly Ala Ser
65 70 75 80

Ser Pro Cys Ala Asn Thr Thr Phe Cys Cys Lys Phe Ala Ser Phe Pro
85 90 95

Glu Gly Ser Trp Glu Ala Cys
100

<210> 1512
<211> 104
<212> PRT
<213> Homo sapiens

<400> 1512
Trp Val Gln Val Arg Met Glu Ala Thr Glu Leu Ser Ser Phe Thr Ile
1 5 10 15

Arg Cys Gly Phe Leu Gly Ser Gly Ser Ile Ser Leu Val Thr Val Ser
20 25 30

Trp Gly Gly Pro Asn Gly Ala Gly Gly Thr Thr Leu Ala Val Leu His
35 40 45

Pro Glu Arg Gly Ile Arg Gln Trp Ala Pro Ala Arg Gln Ala Arg Trp
50 55 60

Glu Thr Gln Ser Ser Ile Ser Leu Ile Leu Glu Gly Ser Gly Ala Ser
65 70 75 80

Ser Pro Cys Ala Asn Thr Thr Phe Cys Cys Lys Phe Ala Ser Phe Pro
85 90 95

Glu Gly Ser Trp Glu Ala Cys Gly
100

<210> 1513
<211> 234
<212> PRT
<213> Mus musculus

<400> 1513
Met Arg Thr Gly Asn Thr Gln Ala Ala His Ala Thr Asn Met Gly Gln
1 5 10 15

Met Gln Thr Leu Val Leu Phe Ser Thr Leu Leu Thr Leu Cys Val Ser
20 25 30

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Glu Ala Ser Pro Glu Val Trp Val Gln Val Gln Met Glu Ala Thr Asn
35 40 45

Leu Ser Ser Phe Ser Val His Cys Gly Val Leu Gly Tyr Ser Leu Ile
50 55 60

Ser Leu Val Thr Val Ser Cys Glu Gly Phe Val Asp Ala Gly Arg Thr
65 70 75 80

Lys Leu Ala Val Leu His Pro Glu Phe Gly Thr Gln Gln Trp Ala Pro
85 90 95

Ala Arg Gln Ala His Trp Glu Thr Pro Asn Ser Val Ser Val Thr Leu
100 105 110

Thr Met Gly Gln Ser Lys Ala Arg Ser Ser Leu Ala Asn Thr Thr Phe
115 120 125

Cys Cys Glu Phe Val Thr Phe Pro His Gly Ser Arg Val Ala Cys Arg
130 135 140

Asp Leu His Arg Ser Asp Pro Gly Leu Ser Ala Pro Thr Pro Ala Leu
145 150 155 160

Asn Leu Gln Ala Asp Leu Val Arg Ile Leu Gly Thr Ser Gly Val Phe
165 170 175

Leu Phe Gly Phe Ile Phe Ile Leu Cys Leu Arg Trp Gln Gln Arg His
180 185 190

Trp Cys Leu Ser Lys Ser Gln Pro Ser Leu Thr Ser Thr Gln Ala Gln
195 200 205

Val Glu Thr Gln Pro Pro His Leu Ala Ser Thr His Ser Ser Phe Ile
210 215 220

Ser Met Glu Asn Gly Leu Tyr Ala Leu Ala
225 230

<210> 1514

<211> 221

<212> PRT

<213> Mus musculus

<400> 1514

Met Gly Gln Met Gln Thr Leu Val Leu Phe Ser Thr Leu Leu Thr Leu
1 5 10 15

Cys Val Ser Glu Ala Ser Pro Glu Val Trp Val Gln Val Gln Met Glu
20 25 30

Ala Thr Asn Leu Ser Ser Phe Ser Val His Cys Gly Val Leu Gly Tyr
 35 40 45

Ser Leu Ile Ser Leu Val Thr Val Ser Cys Glu Gly Phe Val Asp Ala
 50 55 60

Gly Arg Thr Lys Leu Ala Val Leu His Pro Glu Phe Gly Thr Gln Gln
 65 70 75 80

Trp Ala Pro Ala Arg Gln Ala His Trp Glu Thr Pro Asn Ser Val Ser
 85 90 95

Val Thr Leu Thr Met Gly Gln Ser Lys Ala Arg Ser Ser Leu Ala Asn
 100 105 110

Thr Thr Phe Cys Cys Glu Phe Val Thr Phe Pro His Gly Ser Arg Val
 115 120 125

Ala Cys Arg Asp Leu His Arg Ser Asp Pro Gly Leu Ser Ala Pro Thr
 130 135 140

Pro Ala Leu Asn Leu Gln Ala Asp Leu Val Arg Ile Leu Gly Thr Ser
 145 150 155 160

Gly Val Phe Leu Phe Gly Phe Ile Phe Ile Leu Cys Leu Arg Trp Gln
 165 170 175

Gln Arg His Trp Cys Leu Ser Lys Ser Gln Pro Ser Leu Thr Ser Thr
 180 185 190

Gln Ala Gln Val Glu Thr Gln Pro Pro His Leu Ala Ser Thr His Ser
 195 200 205

Ser Phe Ile Ser Met Glu Asn Gly Leu Tyr Ala Leu Ala
 210 215 220

<210> 1515

<211> 131

<212> PRT

<213> Mus musculus

<400> 1515

Ser Pro Glu Val Trp Val Gln Val Gln Met Glu Ala Thr Asn Leu Ser
 1 5 10 15

Ser Phe Ser Val His Cys Gly Val Leu Gly Tyr Ser Leu Ile Ser Leu
 20 25 30

Val Thr Val Ser Cys Glu Gly Phe Val Asp Ala Gly Arg Thr Lys Leu
 35 40 45

Ala Val Leu His Pro Glu Phe Gly Thr Gln Gln Trp Ala Pro Ala Arg
 50 55 60

Gln Ala His Trp Glu Thr Pro Asn Ser Val Ser Val Thr Leu Thr Met
65 70 75 80

Gly Gln Ser Lys Ala Arg Ser Ser Leu Ala Asn Thr Thr Phe Cys Cys
85 90 95

Glu Phe Val Thr Phe Pro His Gly Ser Arg Val Ala Cys Arg Asp Leu
100 105 110

His Arg Ser Asp Pro Gly Leu Ser Ala Pro Thr Pro Ala Leu Asn Leu
115 120 125

Gln Ala Asp
130

<210> 1516
<211> 152
<212> PRT
<213> Mus musculus

<400> 1516
Met Gly Gln Met Gln Thr Leu Val Leu Phe Ser Thr Leu Leu Thr Leu
1 5 10 15

Cys Val Ser Glu Ala Ser Pro Glu Val Trp Val Gln Val Gln Met Glu
20 25 30

Ala Thr Asn Leu Ser Ser Phe Ser Val His Cys Gly Val Leu Gly Tyr
35 40 45

Ser Leu Ile Ser Leu Val Thr Val Ser Cys Glu Gly Phe Val Asp Ala
50 55 60

Gly Arg Thr Lys Leu Ala Val Leu His Pro Glu Phe Gly Thr Gln Gln
65 70 75 80

Trp Ala Pro Ala Arg Gln Ala His Trp Glu Thr Pro Asn Ser Val Ser
85 90 95

Val Thr Leu Thr Met Gly Gln Ser Lys Ala Arg Ser Ser Leu Ala Asn
100 105 110

Thr Thr Phe Cys Cys Glu Phe Val Thr Phe Pro His Gly Ser Arg Val
115 120 125

Ala Cys Arg Asp Leu His Arg Ser Asp Pro Gly Leu Ser Ala Pro Thr
130 135 140

Pro Ala Leu Asn Leu Gln Ala Asp
145 150

<210> 1517

<211> 363

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 1517

Thr Pro Glu Val Trp Val Gln Val Arg Met Glu Ala Thr Glu Leu Ser
1 5 10 15

Ser Phe Thr Ile Arg Cys Gly Phe Leu Gly Ser Gly Ser Ile Ser Leu
20 25 30

Val Thr Val Ser Trp Gly Gly Pro Asn Gly Ala Gly Gly Thr Thr Leu
35 40 45

Ala Val Leu His Pro Glu Arg Gly Ile Arg Gln Trp Ala Pro Ala Arg
50 55 60

Gln Ala Arg Trp Glu Thr Gln Ser Ser Ile Ser Leu Ile Leu Glu Gly
65 70 75 80

Ser Gly Ala Ser Ser Pro Cys Ala Asn Thr Thr Phe Cys Cys Lys Phe
85 90 95

Ala Ser Phe Pro Glu Gly Ser Trp Glu Ala Cys Gly Ser Leu Pro Pro
100 105 110

Ser Ser Asp Pro Gly Leu Ser Ala Pro Pro Thr Pro Ala Pro Ile Leu
115 120 125

Arg Ala Asp Glu Pro Lys Ser Ser Asp Lys Thr His Thr Cys Pro Pro
130 135 140

Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro
145 150 155 160

Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr
165 170 175

Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn
180 185 190

Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg
195 200 205

Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val
210 215 220

Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser
225 230 235 240

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Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys
245 250 255

Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Asp
260 265 270

Glu Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe
275 280 285

Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu
290 295 300

Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe
305 310 315 320

Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly
325 330 335

Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr
340 345 350

Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
355 360

<210> 1518

<211> 363

<212> PRT

<213> Artificial sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 1518

Thr Pro Glu Val Trp Val Gln Val Arg Met Glu Ala Thr Glu Leu Ser
1 5 10 15

Ser Phe Thr Ile Arg Cys Gly Phe Leu Gly Ser Gly Ser Ile Ser Leu
20 25 30

Val Thr Val Ser Trp Gly Gly Pro Asn Gly Ala Gly Gly Thr Thr Leu
35 40 45

Ala Val Leu His Pro Glu Arg Gly Ile Arg Gln Trp Ala Pro Ala Arg
50 55 60

Gln Ala Arg Trp Glu Thr Gln Ser Ser Ile Ser Leu Ile Leu Glu Gly
65 70 75 80

Ser Gly Ala Ser Ser Pro Phe Ala Asn Thr Thr Phe Cys Cys Lys Phe
85 90 95

Ala Ser Phe Pro Glu Gly Ser Trp Glu Ala Ser Gly Ser Leu Pro Pro
 100 105 110
 Ser Ser Asp Pro Gly Leu Ser Ala Pro Pro Thr Pro Ala Pro Ile Leu
 115 120 125
 Arg Ala Asp Glu Pro Lys Ser Ser Asp Lys Thr His Thr Cys Pro Pro
 130 135 140
 Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro
 145 150 155 160
 Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr
 165 170 175
 Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn
 180 185 190
 Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg
 195 200 205
 Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val
 210 215 220
 Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser
 225 230 235 240
 Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys
 245 250 255
 Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Asp
 260 265 270
 Glu Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe
 275 280 285
 Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu
 290 295 300
 Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe
 305 310 315 320
 Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly
 325 330 335
 Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr
 340 345 350
 Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
 355 360

<210> 1519

<211> 363

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 1519

Thr Pro Glu Val Trp Val Gln Val Arg Met Glu Ala Thr Glu Leu Ser
 1 5 10 15

Ser Phe Thr Ile Arg Cys Gly Phe Leu Gly Ser Gly Ser Ile Ser Leu
 20 25 30

Val Thr Val Ser Trp Gly Gly Pro Asn Gly Ala Gly Gly Thr Thr Leu
 35 40 45

Ala Val Leu His Pro Glu Arg Gly Ile Arg Gln Trp Ala Pro Ala Arg
 50 55 60

Gln Ala Arg Trp Glu Thr Gln Ser Ser Ile Ser Leu Ile Leu Glu Gly
 65 70 75 80

Ser Gly Ala Ser Ser Pro Cys Ala Asn Thr Thr Phe Cys Cys Lys Phe
 85 90 95

Ala Ser Phe Pro Glu Gly Ser Trp Glu Ala Cys Gly Ser Leu Pro Pro
 100 105 110

Ser Ser Asp Pro Gly Leu Ser Ala Pro Pro Thr Pro Ala Pro Ile Leu
 115 120 125

Arg Ala Asp Glu Pro Lys Ser Ser Asp Lys Thr His Thr Ser Pro Pro
 130 135 140

Ser Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro
 145 150 155 160

Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr
 165 170 175

Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn
 180 185 190

Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg
 195 200 205

Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val
 210 215 220

Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser
 225 230 235 240

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Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys
245 250 255

Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Asp
260 265 270

Glu Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe
275 280 285

Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu
290 295 300

Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe
305 310 315 320

Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly
325 330 335

Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr
340 345 350

Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
355 360

<210> 1520

<211> 363

<212> PRT

<213> Artificial sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 1520

Thr Pro Glu Val Trp Val Gln Val Arg Met Glu Ala Thr Glu Leu Ser
1 5 10 15

Ser Phe Thr Ile Arg Cys Gly Phe Leu Gly Ser Gly Ser Ile Ser Leu
20 25 30

Val Thr Val Ser Trp Gly Gly Pro Asn Gly Ala Gly Gly Thr Thr Leu
35 40 45

Ala Val Leu His Pro Glu Arg Gly Ile Arg Gln Trp Ala Pro Ala Arg
50 55 60

Gln Ala Arg Trp Glu Thr Gln Ser Ser Ile Ser Leu Ile Leu Glu Gly
65 70 75 80

Ser Gly Ala Ser Ser Pro Phe Ala Asn Thr Thr Phe Cys Cys Lys Phe
85 90 95

Ala Ser Phe Pro Glu Gly Ser Trp Glu Ala Cys Gly Ser Leu Pro Pro
 100 105 110
 Ser Ser Asp Pro Gly Leu Ser Ala Pro Pro Thr Pro Ala Pro Ile Leu
 115 120 125
 Arg Ala Asp Glu Pro Lys Ser Ser Asp Lys Thr His Thr Ser Pro Pro
 130 135 140
 Ser Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro
 145 150 155 160
 Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr
 165 170 175
 Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn
 180 185 190
 Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg
 195 200 205
 Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val
 210 215 220
 Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser
 225 230 235 240
 Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys
 245 250 255
 Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Asp
 260 265 270
 Glu Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe
 275 280 285
 Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu
 290 295 300
 Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe
 305 310 315 320
 Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly
 325 330 335
 Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr
 340 345 350
 Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
 355 360

<210> 1521

<211> 364

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 1521

Ser Pro Glu Val Trp Val Gln Val Gln Met Glu Ala Thr Asn Leu Ser
1 5 10 15Ser Phe Ser Val His Cys Gly Val Leu Gly Tyr Ser Leu Ile Ser Leu
20 25 30Val Thr Val Ser Cys Glu Gly Phe Val Asp Ala Gly Arg Thr Lys Leu
35 40 45Ala Val Leu His Pro Glu Phe Gly Thr Gln Gln Trp Ala Pro Ala Arg
50 55 60Gln Ala His Trp Glu Thr Pro Asn Ser Val Ser Val Thr Leu Thr Met
65 70 75 80Gly Gln Ser Lys Ala Arg Ser Ser Leu Ala Asn Thr Thr Phe Cys Cys
85 90 95Glu Phe Val Thr Phe Pro His Gly Ser Arg Val Ala Cys Arg Asp Leu
100 105 110His Arg Ser Asp Pro Gly Leu Ser Ala Pro Thr Pro Ala Leu Asn Leu
115 120 125Gln Ala Asp Glu Pro Arg Gly Pro Thr Ile Lys Pro Cys Pro Pro Cys
130 135 140Lys Cys Pro Ala Pro Asn Leu Leu Gly Gly Pro Ser Val Phe Ile Phe
145 150 155 160Pro Pro Lys Ile Lys Asp Val Leu Met Ile Ser Leu Ser Pro Ile Val
165 170 175Thr Cys Val Val Val Asp Val Ser Glu Asp Asp Pro Asp Val Gln Ile
180 185 190Ser Trp Phe Val Asn Asn Val Glu Val His Thr Ala Gln Thr Gln Thr
195 200 205His Arg Glu Asp Tyr Asn Ser Thr Leu Arg Val Val Ser Ala Leu Pro
210 215 220Ile Gln His Gln Asp Trp Met Ser Gly Lys Glu Phe Lys Cys Lys Val
225 230 235 240

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Asn Asn Lys Asp Leu Pro Ala Pro Ile Glu Arg Thr Ile Ser Lys Pro
245 250 255

Lys Gly Ser Val Arg Ala Pro Gln Val Tyr Val Leu Pro Pro Pro Glu
260 265 270

Glu Glu Met Thr Lys Lys Gln Val Thr Leu Thr Cys Met Val Thr Asp
275 280 285

Phe Met Pro Glu Asp Ile Tyr Val Glu Trp Thr Asn Asn Gly Lys Thr
290 295 300

Glu Leu Asn Tyr Lys Asn Thr Glu Pro Val Leu Asp Ser Asp Gly Ser
305 310 315 320

Tyr Phe Met Tyr Ser Lys Leu Arg Val Glu Lys Lys Asn Trp Val Glu
325 330 335

Arg Asn Ser Tyr Ser Cys Ser Val Val His Glu Gly Leu His Asn His
340 345 350

His Thr Thr Lys Ser Phe Ser Arg Thr Pro Gly Lys
355 360

<210> 1522

<211> 364

<212> PRT

<213> Artificial sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 1522

Ser Pro Glu Val Trp Val Gln Val Gln Met Glu Ala Thr Asn Leu Ser
1 5 10 15

Ser Phe Ser Val His Cys Gly Val Leu Gly Tyr Ser Leu Ile Ser Leu
20 25 30

Val Thr Val Ser Cys Glu Gly Phe Val Asp Ala Gly Arg Thr Lys Leu
35 40 45

Ala Val Leu His Pro Glu Phe Gly Thr Gln Gln Trp Ala Pro Ala Arg
50 55 60

Gln Ala His Trp Glu Thr Pro Asn Ser Val Ser Val Thr Leu Thr Met
65 70 75 80

Gly Gln Ser Lys Ala Arg Ser Ser Leu Ala Asn Thr Thr Phe Cys Cys
85 90 95

Glu Phe Val Thr Phe Pro His Gly Ser Arg Val Ala Cys Arg Asp Leu
 100 105 110
 His Arg Ser Asp Pro Gly Leu Ser Ala Pro Thr Pro Ala Leu Asn Leu
 115 120 125
 Gln Ala Asp Glu Pro Arg Gly Pro Thr Ile Lys Pro Ser Pro Pro Ser
 130 135 140
 Lys Ser Pro Ala Pro Asn Leu Leu Gly Gly Pro Ser Val Phe Ile Phe
 145 150 155 160
 Pro Pro Lys Ile Lys Asp Val Leu Met Ile Ser Leu Ser Pro Ile Val
 165 170 175
 Thr Cys Val Val Val Asp Val Ser Glu Asp Asp Pro Asp Val Gln Ile
 180 185 190
 Ser Trp Phe Val Asn Asn Val Glu Val His Thr Ala Gln Thr Gln Thr
 195 200 205
 His Arg Glu Asp Tyr Asn Ser Thr Leu Arg Val Val Ser Ala Leu Pro
 210 215 220
 Ile Gln His Gln Asp Trp Met Ser Gly Lys Glu Phe Lys Cys Lys Val
 225 230 235 240
 Asn Asn Lys Asp Leu Pro Ala Pro Ile Glu Arg Thr Ile Ser Lys Pro
 245 250 255
 Lys Gly Ser Val Arg Ala Pro Gln Val Tyr Val Leu Pro Pro Pro Glu
 260 265 270
 Glu Glu Met Thr Lys Lys Gln Val Thr Leu Thr Cys Met Val Thr Asp
 275 280 285
 Phe Met Pro Glu Asp Ile Tyr Val Glu Trp Thr Asn Asn Gly Lys Thr
 290 295 300
 Glu Leu Asn Tyr Lys Asn Thr Glu Pro Val Leu Asp Ser Asp Gly Ser
 305 310 315 320
 Tyr Phe Met Tyr Ser Lys Leu Arg Val Glu Lys Lys Asn Trp Val Glu
 325 330 335
 Arg Asn Ser Tyr Ser Cys Ser Val Val His Glu Gly Leu His Asn His
 340 345 350
 His Thr Thr Lys Ser Phe Ser Arg Thr Pro Gly Lys
 355 360

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<210> 1523

<211> 232

<212> PRT

<213> Homo sapiens

<400> 1523

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Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala
1      5      10      15

Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro
      20      25      30

Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val
      35      40      45

Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val
      50      55      60

Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln
65      70      75      80

Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln
      85      90      95

Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala
      100      105      110

Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro
      115      120      125

Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Asp Glu Leu Thr
      130      135      140

Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser
145      150      155      160

Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr
      165      170      175

Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr
      180      185      190

Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe
      195      200      205

Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys
      210      215      220

Ser Leu Ser Leu Ser Pro Gly Lys
225      230

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<210> 1524

<211> 232

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 1524

Glu Pro Lys Ser Ser Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala
 1 5 10 15

Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro
 20 25 30

Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val
 35 40 45

Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val
 50 55 60

Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln
 65 70 75 80

Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln
 85 90 95

Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala
 100 105 110

Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro
 115 120 125

Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Asp Glu Leu Thr
 130 135 140

Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser
 145 150 155 160

Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr
 165 170 175

Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr
 180 185 190

Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe
 195 200 205

Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys
 210 215 220

Ser Leu Ser Leu Ser Pro Gly Lys
 225 230

<210> 1525

<211> 232

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 1525

Glu Pro Lys Ser Ser Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala
1 5 10 15Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro
20 25 30Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val
35 40 45Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val
50 55 60Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln
65 70 75 80Tyr Ala Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln
85 90 95Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala
100 105 110Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro
115 120 125Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Asp Glu Leu Thr
130 135 140Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser
145 150 155 160Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr
165 170 175Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr
180 185 190Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe
195 200 205Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys
210 215 220Ser Leu Ser Leu Ser Pro Gly Lys
225 230

<210> 1526
 <211> 217
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic polypeptide

<400> 1526
 Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys
 1 5 10 15
 Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val
 20 25 30
 Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr
 35 40 45
 Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu
 50 55 60
 Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His
 65 70 75 80
 Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys
 85 90 95
 Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln
 100 105 110
 Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Asp Glu Leu
 115 120 125
 Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro
 130 135 140
 Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn
 145 150 155 160
 Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu
 165 170 175
 Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val
 180 185 190
 Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln
 195 200 205
 Lys Ser Leu Ser Leu Ser Pro Gly Lys
 210 215

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<210> 1527

<211> 233

<212> PRT

<213> Mus musculus

<400> 1527

Glu Pro Arg Gly Pro Thr Ile Lys Pro Cys Pro Pro Cys Lys Cys Pro
1 5 10 15

Ala Pro Asn Leu Leu Gly Gly Pro Ser Val Phe Ile Phe Pro Pro Lys
20 25 30

Ile Lys Asp Val Leu Met Ile Ser Leu Ser Pro Ile Val Thr Cys Val
35 40 45

Val Val Asp Val Ser Glu Asp Asp Pro Asp Val Gln Ile Ser Trp Phe
50 55 60

Val Asn Asn Val Glu Val His Thr Ala Gln Thr Gln Thr His Arg Glu
65 70 75 80

Asp Tyr Asn Ser Thr Leu Arg Val Val Ser Ala Leu Pro Ile Gln His
85 90 95

Gln Asp Trp Met Ser Gly Lys Glu Phe Lys Cys Lys Val Asn Asn Lys
100 105 110

Asp Leu Pro Ala Pro Ile Glu Arg Thr Ile Ser Lys Pro Lys Gly Ser
115 120 125

Val Arg Ala Pro Gln Val Tyr Val Leu Pro Pro Pro Glu Glu Glu Met
130 135 140

Thr Lys Lys Gln Val Thr Leu Thr Cys Met Val Thr Asp Phe Met Pro
145 150 155 160

Glu Asp Ile Tyr Val Glu Trp Thr Asn Asn Gly Lys Thr Glu Leu Asn
165 170 175

Tyr Lys Asn Thr Glu Pro Val Leu Asp Ser Asp Gly Ser Tyr Phe Met
180 185 190

Tyr Ser Lys Leu Arg Val Glu Lys Lys Asn Trp Val Glu Arg Asn Ser
195 200 205

Tyr Ser Cys Ser Val Val His Glu Gly Leu His Asn His His Thr Thr
210 215 220

Lys Ser Phe Ser Arg Thr Pro Gly Lys
225 230

<210> 1528

<211> 233

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 1528

Glu Pro Arg Gly Pro Thr Ile Lys Pro Cys Pro Pro Cys Lys Cys Pro
 1 5 10 15

Ala Pro Asn Leu Leu Gly Gly Pro Ser Val Phe Ile Phe Pro Pro Lys
 20 25 30

Ile Lys Asp Val Leu Met Ile Ser Leu Ser Pro Ile Val Thr Cys Val
 35 40 45

Val Val Asp Val Ser Glu Asp Asp Pro Asp Val Gln Ile Ser Trp Phe
 50 55 60

Val Asn Asn Val Glu Val His Thr Ala Gln Thr Gln Thr His Arg Glu
 65 70 75 80

Asp Tyr Ala Ser Thr Leu Arg Val Val Ser Ala Leu Pro Ile Gln His
 85 90 95

Gln Asp Trp Met Ser Gly Lys Glu Phe Lys Cys Lys Val Asn Asn Lys
 100 105 110

Asp Leu Pro Ala Pro Ile Glu Arg Thr Ile Ser Lys Pro Lys Gly Ser
 115 120 125

Val Arg Ala Pro Gln Val Tyr Val Leu Pro Pro Pro Glu Glu Glu Met
 130 135 140

Thr Lys Lys Gln Val Thr Leu Thr Cys Met Val Thr Asp Phe Met Pro
 145 150 155 160

Glu Asp Ile Tyr Val Glu Trp Thr Asn Asn Gly Lys Thr Glu Leu Asn
 165 170 175

Tyr Lys Asn Thr Glu Pro Val Leu Asp Ser Asp Gly Ser Tyr Phe Met
 180 185 190

Tyr Ser Lys Leu Arg Val Glu Lys Lys Asn Trp Val Glu Arg Asn Ser
 195 200 205

Tyr Ser Cys Ser Val Val His Glu Gly Leu His Asn His His Thr Thr
 210 215 220

Lys Ser Phe Ser Arg Thr Pro Gly Lys
 225 230

<210> 1529

<211> 217

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 1529

Ala Pro Asn Leu Leu Gly Gly Pro Ser Val Phe Ile Phe Pro Pro Lys
1 5 10 15Ile Lys Asp Val Leu Met Ile Ser Leu Ser Pro Ile Val Thr Cys Val
20 25 30Val Val Asp Val Ser Glu Asp Asp Pro Asp Val Gln Ile Ser Trp Phe
35 40 45Val Asn Asn Val Glu Val His Thr Ala Gln Thr Gln Thr His Arg Glu
50 55 60Asp Tyr Asn Ser Thr Leu Arg Val Val Ser Ala Leu Pro Ile Gln His
65 70 75 80Gln Asp Trp Met Ser Gly Lys Glu Phe Lys Cys Lys Val Asn Asn Lys
85 90 95Asp Leu Pro Ala Pro Ile Glu Arg Thr Ile Ser Lys Pro Lys Gly Ser
100 105 110Val Arg Ala Pro Gln Val Tyr Val Leu Pro Pro Pro Glu Glu Glu Met
115 120 125Thr Lys Lys Gln Val Thr Leu Thr Cys Met Val Thr Asp Phe Met Pro
130 135 140Glu Asp Ile Tyr Val Glu Trp Thr Asn Asn Gly Lys Thr Glu Leu Asn
145 150 155 160Tyr Lys Asn Thr Glu Pro Val Leu Asp Ser Asp Gly Ser Tyr Phe Met
165 170 175Tyr Ser Lys Leu Arg Val Glu Lys Lys Asn Trp Val Glu Arg Asn Ser
180 185 190Tyr Ser Cys Ser Val Val His Glu Gly Leu His Asn His His Thr Thr
195 200 205Lys Ser Phe Ser Arg Thr Pro Gly Lys
210 215

<210> 1530

<211> 232

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 1530

Glu Pro Lys Ser Ser Asp Lys Thr His Thr Ser Pro Pro Ser Pro Ala
 1 5 10 15

Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro
 20 25 30

Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val
 35 40 45

Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val
 50 55 60

Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln
 65 70 75 80

Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln
 85 90 95

Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala
 100 105 110

Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro
 115 120 125

Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Asp Glu Leu Thr
 130 135 140

Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser
 145 150 155 160

Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr
 165 170 175

Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr
 180 185 190

Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe
 195 200 205

Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys
 210 215 220

Ser Leu Ser Leu Ser Pro Gly Lys
 225 230

<210> 1531
 <211> 20
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Synthetic
 primer

 <400> 1531
 ccaccaacct ctcgtctttc 20

 <210> 1532
 <211> 18
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Synthetic
 primer

 <400> 1532
 tcatgccaga gcatacag 18

 <210> 1533
 <211> 20
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Synthetic
 primer

 <400> 1533
 cagtgcctct aactgctgac 20

 <210> 1534
 <211> 22
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Synthetic
 primer

 <400> 1534
 tcactgttac cagggagatg ag 22

 <210> 1535
 <211> 19
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Synthetic
 primer

 <400> 1535
 cacaggctgc ccatgcaac 19

 <210> 1536
 <211> 20
 <212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic primer

<400> 1536

tgccctgggtg ctagtgagag

20

<210> 1537

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic primer

<400> 1537

ccaccaacct ctcgtctttc

20

<210> 1538

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic primer

<400> 1538

gaccctgtta cctgtcattg

20

<210> 1539

<211> 314

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 1539

Met Gly His Arg Thr Leu Val Leu Pro Trp Val Leu Leu Thr Leu Cys
1 5 10 15

Val Thr Ala Gly Thr Pro Glu Val Trp Val Gln Val Arg Met Glu Ala
20 25 30

Thr Glu Leu Ser Ser Phe Thr Ile Arg Cys Gly Phe Leu Gly Ser Gly
35 40 45

Ser Ile Ser Leu Val Thr Val Ser Trp Gly Gly Pro Asn Gly Ala Gly
50 55 60

Gly Thr Thr Leu Ala Val Leu His Pro Glu Arg Gly Ile Arg Gln Trp
65 70 75 80

Ala Pro Ala Arg Gln Ala Arg Trp Glu Thr Gln Ser Ser Ile Ser Leu
85 90 95

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Ile Leu Glu Gly Ser Gly Ala Ser Ser Pro Cys Ala Asn Thr Thr Phe
100 105 110

Cys Cys Lys Phe Ala Ser Phe Pro Glu Gly Ser Trp Glu Ala Cys Gly
115 120 125

Ser Leu Pro Pro Ser Ser Asp Pro Gly Leu Ser Ala Pro Pro Thr Pro
130 135 140

Ala Pro Ile Leu Arg Ala Asp Leu Ala Gly Ile Leu Gly Val Ser Gly
145 150 155 160

Val Leu Leu Phe Gly Cys Val Tyr Leu Leu His Leu Leu Arg Arg His
165 170 175

Lys His Arg Pro Ala Pro Arg Leu Gln Pro Ser Arg Thr Ser Pro Gln
180 185 190

Ala Pro Arg Ala Arg Ala Trp Ala Pro Ser Gln Ala Ser Gln Ala Ala
195 200 205

Leu His Val Pro Tyr Ala Thr Ile Asn Thr Ser Cys Arg Pro Ala Thr
210 215 220

Leu Asp Thr Ala His Pro His Gly Gly Pro Ser Trp Trp Ala Ser Leu
225 230 235 240

Pro Thr His Ala Ala His Arg Pro Gln Gly Pro Ala Ala Trp Ala Ser
245 250 255

Thr Pro Ile Pro Ala Arg Gly Ser Phe Val Ser Val Glu Asn Gly Leu
260 265 270

Tyr Ala Gln Ala Gly Glu Arg Pro Pro His Thr Gly Pro Gly Leu Thr
275 280 285

Leu Phe Pro Asp Pro Arg Gly Pro Arg Ala Met Glu Gly Pro Leu Gly
290 295 300

Val Arg Asp Tyr Lys Asp Asp Asp Asp Lys
305 310

<210> 1540

<211> 242

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 1540

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Met Arg Thr Gly Asn Thr Gln Ala Ala His Ala Thr Asn Met Gly Gln
1 5 10 15

Met Gln Thr Leu Val Leu Phe Ser Thr Leu Leu Thr Leu Cys Val Ser
20 25 30

Glu Ala Asp Tyr Lys Asp Asp Asp Asp Lys Ser Pro Glu Val Trp Val
35 40 45

Gln Val Gln Met Glu Ala Thr Asn Leu Ser Ser Phe Ser Val His Cys
50 55 60

Gly Val Leu Gly Tyr Ser Leu Ile Ser Leu Val Thr Val Ser Cys Glu
65 70 75 80

Gly Phe Val Asp Ala Gly Arg Thr Lys Leu Ala Val Leu His Pro Glu
85 90 95

Phe Gly Thr Gln Gln Trp Ala Pro Ala Arg Gln Ala His Trp Glu Thr
100 105 110

Pro Asn Ser Val Ser Val Thr Leu Thr Met Gly Gln Ser Lys Ala Arg
115 120 125

Ser Ser Leu Ala Asn Thr Thr Phe Cys Cys Glu Phe Val Thr Phe Pro
130 135 140

His Gly Ser Arg Val Ala Cys Arg Asp Leu His Arg Ser Asp Pro Gly
145 150 155 160

Leu Ser Ala Pro Thr Pro Ala Leu Asn Leu Gln Ala Asp Leu Val Arg
165 170 175

Ile Leu Gly Thr Ser Gly Val Phe Leu Phe Gly Phe Ile Phe Ile Leu
180 185 190

Cys Leu Arg Trp Gln Gln Arg His Trp Cys Leu Ser Lys Ser Gln Pro
195 200 205

Ser Leu Thr Ser Thr Gln Ala Gln Val Glu Thr Gln Pro Pro His Leu
210 215 220

Ala Ser Thr His Ser Ser Phe Ile Ser Met Glu Asn Gly Leu Tyr Ala
225 230 235 240

Leu Ala

<210> 1541

<211> 218

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 1541

Met Gln Thr Leu Val Leu Phe Ser Thr Leu Leu Thr Leu Cys Val Ser
1 5 10 15Glu Ala Ser Pro Glu Val Trp Val Gln Val Gln Met Glu Ala Thr Asn
20 25 30Leu Ser Ser Phe Ser Val His Cys Gly Val Leu Gly Tyr Ser Leu Ile
35 40 45Ser Leu Val Thr Val Ser Cys Glu Gly Phe Val Asp Ala Gly Arg Thr
50 55 60Lys Leu Ala Val Leu His Pro Glu Phe Gly Thr Gln Gln Trp Ala Pro
65 70 75 80Ala Arg Gln Ala His Trp Glu Thr Pro Asn Ser Val Ser Val Thr Leu
85 90 95Thr Met Gly Gln Ser Lys Ala Arg Ser Ser Leu Ala Asn Thr Thr Phe
100 105 110Cys Cys Glu Phe Val Thr Phe Pro His Gly Ser Arg Val Ala Cys Arg
115 120 125Asp Leu His Arg Ser Asp Pro Gly Leu Ser Ala Pro Thr Pro Ala Leu
130 135 140Asn Leu Gln Ala Asp Leu Val Arg Ile Leu Gly Thr Ser Gly Val Phe
145 150 155 160Leu Phe Gly Phe Ile Phe Ile Leu Cys Leu Arg Trp Gln Gln Arg His
165 170 175Trp Cys Leu Ser Lys Ser Gln Pro Ser Leu Thr Ser Thr Gln Ala Gln
180 185 190Val Glu Thr Gln Pro Pro His Leu Ala Ser Thr His Ser Ser Phe Ile
195 200 205Ser Met Glu Asn Gly Leu Tyr Ala Leu Ala
210 215

<210> 1542

<211> 226

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 1542

Met Gln Thr Leu Val Leu Phe Ser Thr Leu Leu Thr Leu Cys Val Ser
1 5 10 15

Glu Ala Asp Tyr Lys Asp Asp Asp Asp Lys Ser Pro Glu Val Trp Val
20 25 30

Gln Val Gln Met Glu Ala Thr Asn Leu Ser Ser Phe Ser Val His Cys
35 40 45

Gly Val Leu Gly Tyr Ser Leu Ile Ser Leu Val Thr Val Ser Cys Glu
50 55 60

Gly Phe Val Asp Ala Gly Arg Thr Lys Leu Ala Val Leu His Pro Glu
65 70 75 80

Phe Gly Thr Gln Gln Trp Ala Pro Ala Arg Gln Ala His Trp Glu Thr
85 90 95

Pro Asn Ser Val Ser Val Thr Leu Thr Met Gly Gln Ser Lys Ala Arg
100 105 110

Ser Ser Leu Ala Asn Thr Thr Phe Cys Cys Glu Phe Val Thr Phe Pro
115 120 125

His Gly Ser Arg Val Ala Cys Arg Asp Leu His Arg Ser Asp Pro Gly
130 135 140

Leu Ser Ala Pro Thr Pro Ala Leu Asn Leu Gln Ala Asp Leu Val Arg
145 150 155 160

Ile Leu Gly Thr Ser Gly Val Phe Leu Phe Gly Phe Ile Phe Ile Leu
165 170 175

Cys Leu Arg Trp Gln Gln Arg His Trp Cys Leu Ser Lys Ser Gln Pro
180 185 190

Ser Leu Thr Ser Thr Gln Ala Gln Val Glu Thr Gln Pro Pro His Leu
195 200 205

Ala Ser Thr His Ser Ser Phe Ile Ser Met Glu Asn Gly Leu Tyr Ala
210 215 220

Leu Ala
225