

SEQUENCE LISTING

<110> AMGEN INC.

<120> PAC1 ANTIBODIES AND USES THEREOF

<130> A-2189-WO-PCT

<150> 62/617,157

<151> 2018-01-12

<160> 569

<170> PatentIn version 3.5

<210> 1

<211> 468

<212> PRT

<213> Artificial Sequence

<220>

<223> Human PAC1

<400> 1

Met Ala Gly Val Val His Val Ser Leu Ala Ala Leu Leu Leu Leu Pro
1 5 10 15

Met Ala Pro Ala Met His Ser Asp Cys Ile Phe Lys Lys Glu Gln Ala
20 25 30

Met Cys Leu Glu Lys Ile Gln Arg Ala Asn Glu Leu Met Gly Phe Asn
35 40 45

Asp Ser Ser Pro Gly Cys Pro Gly Met Trp Asp Asn Ile Thr Cys Trp
50 55 60

Lys Pro Ala His Val Gly Glu Met Val Leu Val Ser Cys Pro Glu Leu
65 70 75 80

Phe Arg Ile Phe Asn Pro Asp Gln Val Trp Glu Thr Glu Thr Ile Gly
85 90 95

Glu Ser Asp Phe Gly Asp Ser Asn Ser Leu Asp Leu Ser Asp Met Gly
100 105 110

Val Val Ser Arg Asn Cys Thr Glu Asp Gly Trp Ser Glu Pro Phe Pro
115 120 125

His Tyr Phe Asp Ala Cys Gly Phe Asp Glu Tyr Glu Ser Glu Thr Gly
130 135 140

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

Tyr Ser Thr Ser Leu Val Thr Leu Thr Thr Ala Met Val Ile Leu Cys
165 170 175

Arg Phe Arg Lys Leu His Cys Thr Arg Asn Phe Ile His Met Asn Leu
180 185 190

Phe Val Ser Phe Met Leu Arg Ala Ile Ser Val Phe Ile Lys Asp Trp
195 200 205

Ile Leu Tyr Ala Glu Gln Asp Ser Asn His Cys Phe Ile Ser Thr Val
210 215 220

Glu Cys Lys Ala Val Met Val Phe Phe His Tyr Cys Val Val Ser Asn
225 230 235 240

Tyr Phe Trp Leu Phe Ile Glu Gly Leu Tyr Leu Phe Thr Leu Leu Val
245 250 255

Glu Thr Phe Phe Pro Glu Arg Arg Tyr Phe Tyr Trp Tyr Thr Ile Ile
260 265 270

Gly Trp Gly Thr Pro Thr Val Cys Val Thr Val Trp Ala Thr Leu Arg
275 280 285

Leu Tyr Phe Asp Asp Thr Gly Cys Trp Asp Met Asn Asp Ser Thr Ala

290

295

300

Leu Trp Trp Val Ile Lys Gly Pro Val Val Gly Ser Ile Met Val Asn
 305 310 315 320

Phe Val Leu Phe Ile Gly Ile Ile Val Ile Leu Val Gln Lys Leu Gln
 325 330 335

Ser Pro Asp Met Gly Gly Asn Glu Ser Ser Ile Tyr Leu Arg Leu Ala
 340 345 350

Arg Ser Thr Leu Leu Leu Ile Pro Leu Phe Gly Ile His Tyr Thr Val
 355 360 365

Phe Ala Phe Ser Pro Glu Asn Val Ser Lys Arg Glu Arg Leu Val Phe
 370 375 380

Glu Leu Gly Leu Gly Ser Phe Gln Gly Phe Val Val Ala Val Leu Tyr
 385 390 395 400

Cys Phe Leu Asn Gly Glu Val Gln Ala Glu Ile Lys Arg Lys Trp Arg
 405 410 415

Ser Trp Lys Val Asn Arg Tyr Phe Ala Val Asp Phe Lys His Arg His
 420 425 430

Pro Ser Leu Ala Ser Ser Gly Val Asn Gly Gly Thr Gln Leu Ser Ile
 435 440 445

Leu Ser Lys Ser Ser Ser Gln Ile Arg Met Ser Gly Leu Pro Ala Asp
 450 455 460

Asn Leu Ala Thr
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<210> 2

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<223> Human PAC1 ECD

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Gln Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln Pro Gly Arg
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Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Arg Phe
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 Gly Asn Lys Tyr Tyr Ala Glu 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 Leu Phe Tyr Cys
85 90 95

Ala Arg Gly Tyr Asp Val Leu Thr Gly Tyr Pro Asp Tyr 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 Cys Ser Arg Ser Thr Ser Glu Ser 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 Asn Phe Gly Thr Gln Thr Tyr Thr Cys Asn Val Asp His Lys
 195 200 205

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

Val Asp
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<210> 3
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<220>
 <223> Human PAC1 ECD

<400> 3

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

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

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

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

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

Glu Asp Phe Ala Thr Tyr Tyr Cys His Gln Ser Ser Arg Leu Pro Phe
85 90 95

Thr Phe Gly Pro 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
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<220>
<223> Human PAC1 ECD

<400> 4

Gly Ser Met Ala His Ser Asp Gly Ile Phe Lys Lys Glu Gln Ala Met
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Cys Leu Glu Lys Ile Gln Arg Ala Asn Glu Leu Met Gly Phe Asn Asp
20 25 30

Ser Ser Pro Gly Cys Pro Gly Met Trp Asp Asn Ile Thr Cys Trp Lys
35 40 45

Pro Ala His Val Gly Glu Met Val Leu Val Ser Cys Pro Glu Leu Phe
50 55 60

Arg Ile Phe Asn Pro Asp Gln Asp Met Gly Val Val Ser Arg Asn Cys
65 70 75 80

Thr Glu Asp Gly Trp Ser Glu Pro Phe Pro His Tyr Phe Asp Ala Cys
85 90 95

Gly Phe Asp Glu Tyr Glu Ser Glu Thr
100 105

<210> 5
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<400> 5

Arg Ala Ser Gln Ser Val Gly Arg Ser Leu His
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<210> 6
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<400> 6

Arg Ala Ser Gln Ser Ile Gly Arg Ser Leu His
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<400> 7

Arg Ala Ser Lys Ser Val Gly Arg Ser Leu His
1 5 10

<210> 8
<211> 11
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<213> Artificial Sequence

<220>
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<400> 8

Arg Ala Ser Gln Ser Val Trp Arg Ser Leu His
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<400> 9

Arg Ala Ser Gln Ser Val Gly Arg Asn Leu His
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<223> Synthetic polypeptide

<400> 10

Arg Ala Ser Lys Ser Val Trp Arg Ser Leu His
1 5 10

<210> 11

<211> 11

<212> PRT

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<220>

<223> Synthetic polypeptide

<400> 11

Arg Ala Ser Lys Ser Val Gly Arg Asn Leu His
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<210> 12

<211> 11

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<220>

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<400> 12

Arg Ala Ser Lys Ser Val Gly Trp Ser Leu His
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<210> 13

<211> 11

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<400> 13

Arg Ala Ser Lys Ser Val Gly Tyr Ser Leu His
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<210> 14
<211> 11
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<220>
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<400> 14

Arg Ala Ser Lys Ala Val Gly Trp Ser Leu His
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Arg Ala Ser Lys Ser Val Gly Gln Ser Leu His
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<220>
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<400> 16

Arg Ala Ser Arg Ser Val Gly Leu Ala Leu His
1 5 10

<210> 17
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<400> 17

Arg Ala Ser Gln Ser Ile Ser Arg Tyr Leu Asn
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<210> 18

<211> 11

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<400> 18

Arg Ala Ser Gln Tyr Ile Val Arg Tyr Leu Asn
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<211> 11

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Arg Ala Ser Gln Thr Ile Val Arg Tyr Leu Asn
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<211> 11

<212> PRT

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<400> 20

Arg Ala Ser Gln Lys Ile Ala Arg Tyr Leu Val
1 5 10

<210> 21
<211> 11
<212> PRT
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<220>
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<400> 21

Arg Ala Ser Gln Pro Ile Ala Gln Tyr Leu Asn
1 5 10

<210> 22
<211> 11
<212> PRT
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<400> 22

Arg Ala Ser Gln Pro Ile Ser Arg Tyr Leu Ser
1 5 10

<210> 23
<211> 11
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<400> 23

Arg Ala Ser Gln Gln Ile Ala Arg Tyr Leu Asn
1 5 10

<210> 24
<211> 11
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<400> 24

Arg Ala Ser Gln Arg Ile Ala Arg Tyr Leu Asn
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<210> 25

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<400> 25

Arg Ala Ser Gln Met Ile Ala Arg Tyr Leu Asn
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<210> 26

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<400> 26

Tyr Ala Ser Gln Ser Leu Ser
1 5

<210> 27

<211> 7

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<400> 27

Ala Ala Ser Ser Leu Gln Ser
1 5

<210> 28
<211> 7
<212> PRT
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<400> 28

Ala Gly Gln Arg Leu Gln Ser
1 5

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<400> 29

Ala Ala His His Leu Gln Ser
1 5

<210> 30
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<400> 30

Ala Ala Asn Met Leu Gln Ser
1 5

<210> 31
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<400> 31

Ala Ser Tyr Asn Leu Gln Ser
1 5

<210> 32

<211> 7

<212> PRT

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<400> 32

Ala Gly Arg Tyr Leu Gln Ser
1 5

<210> 33

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<400> 33

Ala Gly Arg Ile Leu Gln Ser
1 5

<210> 34

<211> 7

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<400> 34

Ala Gly Ser Ile Leu Gln Ser
1 5

<210> 35
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<400> 35

Gly Ala Arg Asn Leu Gln Ser
1 5

<210> 36
<211> 9
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<400> 36

His Gln Ser Ser Arg Leu Pro Phe Thr
1 5

<210> 37
<211> 9
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<220>
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<400> 37

His Gln Ser Ser Met Leu Pro Phe Thr
1 5

<210> 38
<211> 9
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<220>

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<400> 38

His Gln Ser Ser Phe Leu Pro Phe Thr
1 5

<210> 39

<211> 9

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<400> 39

Gln Gln Ser Tyr Ser Pro Pro Phe Thr
1 5

<210> 40

<211> 9

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<400> 40

Gln Gln Ala Ile Gly Met Pro Tyr Thr
1 5

<210> 41

<211> 9

<212> PRT

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<220>

<223> Synthetic polypeptide

<400> 41

Gln Gln Ala Ile Gln Glu Pro Tyr Thr
1 5

<210> 42
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<220>
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<400> 42

Gln Gln Ala Ile Ile Asn Pro Tyr Thr
1 5

<210> 43
<211> 9
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<220>
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<400> 43

Gln Gln Ala Ile Asn Gln Pro Tyr Thr
1 5

<210> 44
<211> 9
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<400> 44

Gln Gln Ser Ile Gln Gln Pro Tyr Thr
1 5

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<400> 45

Gln Gln Ala Ile Gln Gln Pro Tyr Thr
1 5

<210> 46

<211> 9

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<400> 46

Gln Gln Ala Ile Met Ala Pro Tyr Thr
1 5

<210> 47

<211> 9

<212> PRT

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<220>

<223> Synthetic polypeptide

<400> 47

Gln Gln Ala Ile Gln Asn Pro Tyr Thr
1 5

<210> 48

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polypeptide

<400> 48

Gln Gln Ala Ile Val Gln Pro Tyr Thr
1 5

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

<220>
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<400> 49

Gln Gln Ala Ile Ser Ile Pro Tyr Thr
1 5

<210> 50
<211> 9
<212> PRT
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<220>
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<400> 50

Gln Gln Ala Ile Ile Gln Pro Tyr Thr
1 5

<210> 51
<211> 9
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<220>
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<400> 51

Gln Gln Ser Ile Gln Thr Pro Tyr Thr
1 5

<210> 52
<211> 108
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<220>

<223> Synthetic polypeptide

<400> 52

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 Gly Arg Ser
20 25 30

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

Lys Tyr Ala Ser Gln Ser Leu Ser 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 His Gln Ser Ser Arg Leu Pro Phe
85 90 95

Thr Phe Gly Pro Gly Thr Lys Val Asp Ile Lys Arg
100 105

<210> 53

<211> 108

<212> PRT

<213> Artificial Sequence

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<223> Synthetic polypeptide

<400> 53

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

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

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

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

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

Glu Asp Phe Ala Thr Tyr Tyr Cys His Gln Ser Ser Arg Leu Pro Phe
85 90 95

Thr Phe Gly Pro Gly Thr Lys Val Asp Ile Lys Arg
100 105

<210> 54
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<400> 54

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 Lys Ser Val Gly Arg Ser
20 25 30

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

Lys Tyr Ala Ser Gln Ser Leu Ser 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 His Gln Ser Ser Arg Leu Pro Phe
85 90 95

Thr Phe Gly Pro Gly Thr Lys Val Asp Ile Lys
100 105

<210> 55
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<400> 55

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 Gly Arg Ser
20 25 30

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

Lys Tyr Ala Ser Gln Ser Leu Ser 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 His Gln Ser Ser Arg Leu Pro Phe
85 90 95

Thr Phe Gly Pro Gly Thr Lys Val Asp Ile Lys
100 105

<210> 56
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<400> 56

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 Trp Arg Ser
20 25 30

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

Lys Tyr Ala Ser Gln Ser Leu Ser 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 His Gln Ser Ser Arg Leu Pro Phe
85 90 95

Thr Phe Gly Pro Gly Thr Lys Val Asp Ile Lys
100 105

<210> 57
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<220>
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<400> 57

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 Gly Arg Asn
20 25 30

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

Lys Tyr Ala Ser Gln Ser Leu Ser 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 His Gln Ser Ser Arg Leu Pro Phe
85 90 95

Thr Phe Gly Pro Gly Thr Lys Val Asp Ile Lys
100 105

<210> 58

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polypeptide

<400> 58

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 Gly Arg Ser
20 25 30

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

Lys Tyr Ala Ser Gln Ser Leu Ser 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 His Gln Ser Ser Met Leu Pro Phe
85 90 95

Thr Phe Gly Pro Gly Thr Lys Val Asp Ile Lys
100 105

<210> 59

<211> 107

<212> PRT

<213> Artificial Sequence

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<223> Synthetic polypeptide

<400> 59

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 Lys Ser Val Trp Arg Ser
20 25 30

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

Lys Tyr Ala Ser Gln Ser Leu Ser 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 His Gln Ser Ser Arg Leu Pro Phe

85

90

95

Thr Phe Gly Pro Gly Thr Lys Val Asp Ile Lys
 100 105

<210> 60

<211> 107

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<223> Synthetic polypeptide

<400> 60

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 Lys Ser Val Gly Arg Asn
 20 25 30

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

Lys Tyr Ala Ser Gln Ser Leu Ser 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 His Gln Ser Ser Arg Leu Pro Phe
 85 90 95

Thr Phe Gly Pro Gly Thr Lys Val Asp Ile Lys
 100 105

<210> 61

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<400> 61

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 Lys Ser Val Gly Arg Ser
20 25 30

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

Lys Tyr Ala Ser Gln Ser Leu Ser 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 His Gln Ser Ser Met Leu Pro Phe
85 90 95

Thr Phe Gly Pro Gly Thr Lys Val Asp Ile Lys
100 105

<210> 62

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<212> PRT

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<400> 62

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 Lys Ser Val Gly Trp Ser

20

25

30

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

Lys Tyr Ala Ser Gln Ser Leu Ser 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 His Gln Ser Ser Arg Leu Pro Phe
 85 90 95

Thr Phe Gly Pro Gly Thr Lys Val Asp Ile Lys Arg
 100 105

<210> 63
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<400> 63

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 Lys Ser Val Gly Tyr Ser
 20 25 30

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

Lys Tyr Ala Ser Gln Ser Leu Ser 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 His Gln Ser Ser Arg Leu Pro Phe
85 90 95

Thr Phe Gly Pro Gly Thr Lys Val Asp Ile Lys Arg
100 105

<210> 64
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<400> 64

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 Lys Ala Val Gly Trp Ser
20 25 30

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

Lys Tyr Ala Ser Gln Ser Leu Ser 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 His Gln Ser Ser Arg Leu Pro Phe
85 90 95

Thr Phe Gly Pro Gly Thr Lys Val Asp Ile Lys Arg
100 105

<210> 65
<211> 108
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<400> 65

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 Lys Ser Val Gly Gln Ser
20 25 30

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

Lys Tyr Ala Ser Gln Ser Leu Ser 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 His Gln Ser Ser Arg Leu Pro Phe
85 90 95

Thr Phe Gly Pro Gly Thr Lys Val Asp Ile Lys Arg
100 105

<210> 66
<211> 108
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<400> 66

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 Arg Ser Val Gly Leu Ala
20 25 30

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

Lys Tyr Ala Ser Gln Ser Leu Ser 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 His Gln Ser Ser Phe Leu Pro Phe
85 90 95

Thr Phe Gly Pro Gly Thr Lys Val Asp Ile Lys Arg
100 105

<210> 67
<211> 108
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<400> 67

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

Asp Arg Ile Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Arg 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 Ile Pro Ser Arg Phe Ser Gly
50 55 60

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

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

Thr Phe Gly Pro Gly Thr Lys Val Asp Ile Lys Arg
100 105

<210> 68

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polypeptide

<400> 68

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

Asp Arg Ile Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Arg Tyr
20 25 30

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

Phe Ala Gly Gln Arg Leu Gln Ser Gly Ile Pro Ser Arg Phe Ser Gly
50 55 60

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

Glu Asp Phe Ala Thr Tyr Phe Cys Gln Gln Ala Ile Gly Met Pro Tyr
85 90 95

Thr Phe Gly Pro Gly Thr Lys Val Asp Ile Lys
100 105

<210> 69
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<400> 69

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

Asp Arg Ile Thr Ile Thr Cys Arg Ala Ser Gln Tyr Ile Val Arg 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 His His Leu Gln Ser Gly Ile Pro Ser Arg Phe Ser Gly
50 55 60

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

Glu Asp Phe Ala Thr Tyr Phe Cys Gln Gln Ala Ile Gln Glu Pro Tyr
85 90 95

Thr Phe Gly Pro Gly Thr Lys Val Asp Ile Lys
100 105

<210> 70
<211> 107
<212> PRT
<213> Artificial Sequence

<220>

<223> Synthetic polypeptide

<400> 70

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

Asp Arg Ile Thr Ile Thr Cys Arg Ala Ser Gln Thr Ile Val Arg Tyr
20 25 30

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

Phe Ala Gly Gln Arg Leu Gln Ser Gly Ile Pro Ser Arg Phe Ser Gly
50 55 60

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

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

Thr Phe Gly Pro Gly Thr Lys Val Asp Ile Lys
100 105

<210> 71

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polypeptide

<400> 71

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

Asp Arg Ile Thr Ile Thr Cys Arg Ala Ser Gln Tyr Ile Val Arg 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 Asn Met Leu Gln Ser Gly Ile Pro Ser Arg Phe Ser Gly
50 55 60

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

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

Thr Phe Gly Pro Gly Thr Lys Val Asp Ile Lys
100 105

<210> 72

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polypeptide

<400> 72

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

Asp Arg Ile Thr Ile Thr Cys Arg Ala Ser Gln Lys Ile Ala Arg Tyr
20 25 30

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

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

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Asn Ser Leu Gln Pro

65		70		75		80									
Glu	Asp	Phe	Ala	Thr	Tyr	Phe	Cys	Gln	Gln	Ser	Ile	Gln	Gln	Pro	Tyr
				85				90						95	

Thr	Phe	Gly	Pro	Gly	Thr	Lys	Val	Asp	Ile	Lys
			100					105		

<210> 73
 <211> 108
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic polypeptide

<400> 73

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

Asp	Arg	Ile	Thr	Ile	Thr	Cys	Arg	Ala	Ser	Gln	Ser	Ile	Ser	Arg	Tyr
			20					25					30		

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

Phe	Ala	Gly	Gln	Arg	Leu	Gln	Ser	Gly	Ile	Pro	Ser	Arg	Phe	Ser	Gly
	50					55					60				

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

Glu	Asp	Phe	Ala	Thr	Tyr	Phe	Cys	Gln	Gln	Ala	Ile	Gln	Gln	Pro	Tyr
				85				90						95	

Thr	Phe	Gly	Pro	Gly	Thr	Lys	Val	Asp	Ile	Lys	Arg
			100					105			

<210> 74
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<400> 74

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

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

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

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

Thr Phe Gly Pro Gly Thr Lys Val Asp Ile Lys
100 105

<210> 75
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<400> 75

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

1	5	10	15
Asp Arg Ile Thr Ile Thr Cys Arg Ala Ser Gln Pro Ile Ala Gln 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 Gly Arg Tyr Leu Gln Ser Gly Ile Pro Ser Arg Phe Ser Gly	50	55	60
Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Asn Ser Leu Gln Pro	65	70	75
Glu Asp Phe Ala Thr Tyr Phe Cys Gln Gln Ala Ile Gln Asn Pro Tyr	85	90	95
Thr Phe Gly Pro Gly Thr Lys Val Asp Ile Lys	100	105	

<210> 76
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic polypeptide

<400> 76

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

Phe Ala Gly Gln Arg Leu Gln Ser Gly Ile Pro Ser Arg Phe Ser Gly
50 55 60

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

Glu Asp Phe Ala Thr Tyr Phe Cys Gln Gln Ala Ile Val Gln Pro Tyr
85 90 95

Thr Phe Gly Pro Gly Thr Lys Val Asp Ile Lys
100 105

<210> 77
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<400> 77

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

Asp Arg Ile Thr Ile Thr Cys Arg Ala Ser Gln Pro Ile Ser Arg Tyr
20 25 30

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

Phe Ala Gly Gln Arg Leu Gln Ser Gly Ile Pro Ser Arg Phe Ser Gly
50 55 60

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

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

Thr Phe Gly Pro Gly Thr Lys Val Asp Ile Lys
100 105

<210> 78
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<400> 78

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

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

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

Glu Asp Phe Ala Thr Tyr Phe Cys Gln Gln Ala Ile Ile Gln Pro Tyr
85 90 95

Thr Phe Gly Pro Gly Thr Lys Val Asp Ile Lys
100 105

<210> 79
<211> 107
<212> PRT
<213> Artificial Sequence

<220>

<223> Synthetic polypeptide

<400> 79

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

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

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

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

Thr Phe Gly Pro Gly Thr Lys Val Asp Ile Lys
100 105

<210> 80

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polypeptide

<400> 80

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

Asp Arg Ile Thr Ile Thr Cys Arg Ala Ser Gln Thr Ile Val Arg Tyr
20 25 30

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

Phe Ala Gly Gln Arg Leu Gln Ser Gly Ile Pro Ser Arg Phe Ser Gly
50 55 60

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

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

Thr Phe Gly Pro Gly Thr Lys Val Asp Ile Lys
100 105

<210> 81
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<400> 81

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

Asp Arg Ile Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Arg 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 Gly Arg Ile Leu Gln Ser Gly Ile Pro Ser Arg Phe Ser Gly
50 55 60

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

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

Thr Phe Gly Pro Gly Thr Lys Val Asp Ile Lys
100 105

<210> 82
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<400> 82

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

Asp Arg Ile Thr Ile Thr Cys Arg Ala Ser Gln Arg Ile Ala Arg Tyr
20 25 30

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

Phe Ala Gly Ser Ile Leu Gln Ser Gly Ile Pro Ser Arg Phe Ser Gly
50 55 60

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

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

Thr Phe Gly Pro Gly Thr Lys Val Asp Ile Lys
100 105

<210> 83

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

<220>
<223> Synthetic polypeptide

<400> 83

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

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

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

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

Thr Phe Gly Pro Gly Thr Lys Val Asp Ile Lys
100 105

<210> 84
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<400> 84

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

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

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

Glu Asp Phe Ala Thr Tyr Phe Cys Gln Gln Ala Ile Gln Gln Pro Tyr
85 90 95

Thr Phe Gly Pro Gly Thr Lys Val Asp Ile Lys
100 105

<210> 85

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polypeptide

<400> 85

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

Asp Arg Ile Thr Ile Thr Cys Arg Ala Ser Gln Met Ile Ala Arg 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 Ser Tyr Asn Leu Gln Ser Gly Ile Pro Ser Arg Phe Ser Gly

50

55

60

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

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

Thr Phe Gly Pro Gly Thr Lys Val Asp Ile Lys
100 105

<210> 86

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polypeptide

<400> 86

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

Asp Arg Ile Thr Ile Thr Cys Arg Ala Ser Gln Tyr Ile Val Arg Tyr
20 25 30

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

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

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

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

Thr Phe Gly Pro Gly Thr Lys Val Asp Ile Lys
100 105

<210> 87
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<400> 87

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

Asp Arg Ile Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Arg 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 Ile Pro Ser Arg Phe Ser Gly
50 55 60

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

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

Thr Phe Gly Pro Gly Thr Lys Val Asp Ile Lys
100 105

<210> 88
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<400> 88

Arg Phe Ala Met His
1 5

<210> 89

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polypeptide

<400> 89

His Phe Ala Met His
1 5

<210> 90

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polypeptide

<400> 90

Arg Tyr Ala Met His
1 5

<210> 91

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polypeptide

<400> 91

Lys Tyr Ala Met His
1 5

<210> 92
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<400> 92

Lys Phe Ala Met His
1 5

<210> 93
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<400> 93

His Tyr Ala Met His
1 5

<210> 94
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<400> 94

Tyr Phe Ala Met His
1 5

<210> 95
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<400> 95

Phe Tyr Ala Met His
1 5

<210> 96

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polypeptide

<400> 96

Tyr Tyr Ala Met His
1 5

<210> 97

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polypeptide

<400> 97

Ser Asn Ser Ala Thr Trp Asn
1 5

<210> 98

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polypeptide

<400> 98

Asn Arg Leu Ala Thr Trp Asn
1 5

<210> 99
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<400> 99

Ser Arg Gln Ala Thr Trp Asn
1 5

<210> 100
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<400> 100

Asn Lys Gln Ala Thr Trp Asn
1 5

<210> 101
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<400> 101

Ser Asn His Ala Thr Trp Asn
1 5

<210> 102
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<400> 102

Ser Arg Tyr Ala Thr Trp Asn
1 5

<210> 103

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polypeptide

<400> 103

Ser His Val Ala Thr Trp Asn
1 5

<210> 104

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polypeptide

<400> 104

Asn His Gln Ala Thr Trp Asn
1 5

<210> 105

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polypeptide

<400> 105

Ser Arg Asp Ala Thr Trp Asn
1 5

<210> 106
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<400> 106

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

Gly

<210> 107
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<400> 107

Val	Ile	Ser	Tyr	Asn	Gly	Gly	Asn	Lys	Tyr	Tyr	Ala	Glu	Ser	Val	Lys
1				5				10						15	

Gly

<210> 108
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<400> 108

Val	Ile	Ser	Tyr	Ile	Gly	Gly	Asn	Lys	Tyr	Tyr	Ala	Glu	Ser	Val	Lys
1				5				10						15	

Gly

<210> 109
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<400> 109

Val	Ile	Ser	Tyr	Gln	Gly	Gly	Asn	Lys	Tyr	Tyr	Ala	Glu	Ser	Val	Lys
1				5					10					15	

Gly

<210> 110
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<400> 110

Val	Ile	Ser	Tyr	Tyr	Gly	Gly	Asn	Lys	Tyr	Tyr	Ala	Glu	Ser	Val	Lys
1				5					10					15	

Gly

<210> 111
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<400> 111

Val Ile Ser Tyr Asp Gly Arg Asn Lys Tyr Tyr Ala Glu Ser Val Lys
1 5 10 15

Gly

<210> 112

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polypeptide

<400> 112

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

Gly

<210> 113

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polypeptide

<400> 113

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

Gly

<210> 114

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polypeptide

<400> 114

Val	Ile	Ser	Tyr	Asn	Gly	Arg	Asn	Lys	Tyr	Tyr	Ala	Glu	Ser	Val	Lys
1				5				10						15	

Gly

<210> 115

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polypeptide

<400> 115

Val	Ile	Ser	Tyr	Ile	Gly	Arg	Asn	Lys	Tyr	Tyr	Ala	Glu	Ser	Val	Lys
1				5				10						15	

Gly

<210> 116

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polypeptide

<400> 116

Val	Ile	Ser	Tyr	Gln	Gly	Arg	Asn	Lys	Tyr	Tyr	Ala	Glu	Ser	Val	Lys
1				5				10						15	

Gly

<210> 117
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<400> 117

Val Ile Ser Tyr Tyr Gly Arg Asn Lys Tyr Tyr Ala Glu Ser Val Lys
1 5 10 15

Gly

<210> 118
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<400> 118

Val Ile Ser Tyr Asn Gly Asn Asn Lys Tyr Tyr Ala Glu Ser Val Lys
1 5 10 15

Gly

<210> 119
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<400> 119

Val Ile Ser Tyr Ile Gly Asn Asn Lys Tyr Tyr Ala Glu Ser Val Lys

1 5 10 15

Gly

<210> 120
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<400> 120

Val Ile Ser Tyr Gln Gly Asn Asn Lys Tyr Tyr Ala Glu Ser Val Lys
1 5 10 15

Gly

<210> 121
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<400> 121

Val Ile Ser Tyr Tyr Gly Asn Asn Lys Tyr Tyr Ala Glu Ser Val Lys
1 5 10 15

Gly

<210> 122
<211> 17
<212> PRT
<213> Artificial Sequence

<220>

<223> Synthetic polypeptide

<400> 122

Val	Ile	Ser	Tyr	Asn	Gly	Gly	Asn	Lys	Tyr	Tyr	Ala	Arg	Ser	Val	Lys
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Gly

<210> 123

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polypeptide

<400> 123

Val	Ile	Ser	Tyr	Ile	Gly	Gly	Asn	Lys	Tyr	Tyr	Ala	Arg	Ser	Val	Lys
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Gly

<210> 124

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polypeptide

<400> 124

Val	Ile	Ser	Tyr	Gln	Gly	Gly	Asn	Lys	Tyr	Tyr	Ala	Arg	Ser	Val	Lys
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Gly

<210> 125

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

<220>
<223> Synthetic polypeptide

<400> 125

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

Gly

<210> 126
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<400> 126

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

Gly

<210> 127
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<400> 127

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

Gly

<210> 128
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<400> 128

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

Gly

<210> 129
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<400> 129

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

Gly

<210> 130
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<400> 130

Val Ile Ser Tyr Gln Gly Arg Asn Lys Tyr Tyr Ala Arg Ser Val Lys
1 5 10 15

Gly

<210> 131
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<400> 131

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

Gly

<210> 132
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<400> 132

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

Gly

<210> 133
<211> 17
<212> PRT
<213> Artificial Sequence

<220>

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<400> 133

Val	Ile	Ser	Tyr	Ile	Gly	Asn	Asn	Lys	Tyr	Tyr	Ala	Arg	Ser	Val	Lys
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Gly

<210> 134

<211> 17

<212> PRT

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<400> 134

Val	Ile	Ser	Tyr	Gln	Gly	Asn	Asn	Lys	Tyr	Tyr	Ala	Arg	Ser	Val	Lys
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Gly

<210> 135

<211> 17

<212> PRT

<213> Artificial Sequence

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<400> 135

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

Gly

<210> 136
<211> 17
<212> PRT
<213> Artificial Sequence

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<400> 136

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

Gly

<210> 137
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
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<400> 137

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

Gly

<210> 138
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
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<400> 138

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

Gly

<210> 139
<211> 17
<212> PRT
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<400> 139

Val	Ile	Ser	Tyr	Asn	Gly	Ala	Asn	Lys	Tyr	Tyr	Ala	Glu	Ser	Val	Lys
1				5					10					15	

Gly

<210> 140
<211> 17
<212> PRT
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<220>
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<400> 140

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

Gly

<210> 141
<211> 17
<212> PRT
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<220>
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<400> 141

Val	Ile	Ser	Phe	Asp	Gly	Gly	Asn	Lys	Tyr	Tyr	Ala	Arg	Ser	Val	Lys
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Gly

<210> 142

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

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<400> 142

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

Gly

<210> 143

<211> 17

<212> PRT

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<400> 143

Val	Ile	Ser	Phe	Lys	Gly	Ser	Asn	Lys	Tyr	Tyr	Ala	Glu	Ser	Val	Lys
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Gly

<210> 144

<211> 17

<212> PRT
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<220>
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<400> 144

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

Gly

<210> 145
<211> 17
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<220>
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<400> 145

Val	Ile	Ser	Tyr	Arg	Gly	Gly	Asn	Lys	Tyr	Tyr	Ala	Glu	Ser	Val	Lys
1				5				10						15	

Gly

<210> 146
<211> 17
<212> PRT
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<220>
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<400> 146

Val	Ile	Ser	Tyr	Ser	Gly	Ala	Asn	Lys	Tyr	Tyr	Ala	Glu	Ser	Val	Lys
1				5				10						15	

Gly

<210> 147
<211> 17
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<220>
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<400> 147

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

Gly

<210> 148
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
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<400> 148

Val	Ile	Ser	Tyr	Arg	Gly	Ala	Asn	Lys	Tyr	Tyr	Ala	Glu	Ser	Val	Lys
1				5				10						15	

Gly

<210> 149
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
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<400> 149

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

Gly

<210> 150
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
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<400> 150

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

Gly

<210> 151
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
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<400> 151

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

Gly

<210> 152
<211> 17
<212> PRT
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<220>

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<400> 152

Val	Ile	Ser	His	Arg	Gly	Thr	Asn	Lys	Tyr	Tyr	Ala	Glu	Ser	Val	Lys
1				5					10					15	

Gly

<210> 153

<211> 17

<212> PRT

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<220>

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<400> 153

Val	Ile	Asn	Tyr	Arg	Gly	His	Gly	Lys	Tyr	Tyr	Ala	Glu	Ser	Val	Lys
1				5					10					15	

Gly

<210> 154

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

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<400> 154

Val	Ile	Ser	Phe	Ser	Gly	Gly	Ser	Lys	Tyr	Tyr	Ala	Glu	Ser	Val	Lys
1				5					10					15	

Gly

<210> 155
<211> 17
<212> PRT
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<400> 155

Val	Ile	Ser	Tyr	Thr	Gly	Gln	Phe	Lys	Tyr	Tyr	Ala	Glu	Ser	Val	Lys
1				5				10						15	

Gly

<210> 156
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
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<400> 156

Val	Ile	Ser	Tyr	Thr	Gly	Ala	Gln	Lys	Tyr	Tyr	Ala	Glu	Ser	Val	Lys
1				5				10						15	

Gly

<210> 157
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
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<400> 157

Val	Ile	Ser	Tyr	Ser	Gly	Ala	Ser	Lys	Tyr	Tyr	Ala	Glu	Ser	Val	Lys
1				5				10						15	

Gly

<210> 158
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
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<400> 158

Val	Ile	Ser	Tyr	Ser	Gly	Ala	Phe	Lys	Tyr	Tyr	Ala	Glu	Ser	Val	Lys
1				5					10					15	

Gly

<210> 159
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
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<400> 159

Val	Ile	Thr	Tyr	Thr	Gly	Gly	Ala	Lys	Tyr	Tyr	Ala	Glu	Ser	Val	Lys
1				5					10					15	

Gly

<210> 160
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<220>
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<400> 160

Val	Ile	Asn	Phe	Gln	Gly	Thr	Thr	Lys	Tyr	Tyr	Ala	Glu	Ser	Val	Lys
1				5					10					15	

Gly

<210> 161

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polypeptide

<400> 161

Val	Ile	Ser	Tyr	Ser	Gly	Asp	Leu	Lys	Tyr	Tyr	Ala	Glu	Ser	Val	Lys
1				5					10					15	

Gly

<210> 162

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polypeptide

<400> 162

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

Gly

<210> 163

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polypeptide

<400> 163

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

Gly

<210> 164

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polypeptide

<400> 164

Val	Ile	Ser	Tyr	Ser	Gly	Ser	Asn	Lys	Tyr	Tyr	Ala	Glu	Ser	Val	Lys
1				5				10						15	

Gly

<210> 165

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polypeptide

<400> 165

Val	Ile	Ser	His	Tyr	Gly	Thr	Asn	Lys	Tyr	Tyr	Ala	Glu	Ser	Val	Lys
1				5				10						15	

Gly

<210> 166
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
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<400> 166

Val Ile Ser Tyr Gln Gly Ser Asn Lys Tyr Tyr Ala Glu Ser Val Lys
1 5 10 15

Gly

<210> 167
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<400> 167

Arg Thr Tyr Tyr Arg Ser Lys Trp Ser Asn His Tyr Ala Val Ser Val
1 5 10 15

Lys Ser

<210> 168
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<400> 168

Arg Thr Tyr Tyr Arg Gly Lys Trp Lys Asn His Tyr Ala Val Ser Val

1 5 10 15

Lys Ser

<210> 169
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<400> 169

Arg Thr Tyr Tyr Arg Gly Gln Trp Lys Asn His Tyr Ala Val Ser Val
1 5 10 15

Lys Ser

<210> 170
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<400> 170

Arg Thr Tyr Phe Arg Arg Thr Trp Lys Asn His Tyr Ala Val Ser Val
1 5 10 15

Lys Ser

<210> 171
<211> 11
<212> PRT
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<400> 171

Gly Tyr Asp Val Leu Thr Gly Tyr Pro Asp Tyr
1 5 10

<210> 172

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

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<400> 172

Gly Tyr Asp Ile Leu Thr Gly Tyr Pro Asp Tyr
1 5 10

<210> 173

<211> 11

<212> PRT

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<220>

<223> Synthetic polypeptide

<400> 173

Gly Tyr Asp Phe Leu Thr Gly Tyr Pro Asp Tyr
1 5 10

<210> 174

<211> 11

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<213> Artificial Sequence

<220>

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<400> 174

Gly Tyr Asp Leu Leu Thr Gly Tyr Pro Asp Tyr
1 5 10

<210> 175
<211> 11
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<213> Artificial Sequence

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<400> 175

Gly Tyr Asp Met Leu Thr Gly Tyr Pro Asp Tyr
1 5 10

<210> 176
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<400> 176

Gly Tyr Asp Leu Leu Ser Gly Tyr Pro Asp Tyr
1 5 10

<210> 177
<211> 11
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<213> Artificial Sequence

<220>
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<400> 177

Gly Tyr Asp Pro Leu Thr Gly Tyr Pro Asp Tyr
1 5 10

<210> 178
<211> 11
<212> PRT
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<400> 178

Gly Thr Trp Lys Gln Leu Trp Phe Leu Asp His
1 5 10

<210> 179

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<400> 179

Gly Thr Trp Asn Gln Asp Trp Phe Leu Asp His
1 5 10

<210> 180

<211> 11

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<400> 180

Gly Thr Trp Asp Gln Asp Trp Phe Leu Asp His
1 5 10

<210> 181

<211> 11

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<223> Synthetic polypeptide

<400> 181

Gly Thr Trp Glu Gln Asp Trp Phe Leu Asp His
1 5 10

<210> 182
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<400> 182

Gly Met Trp Asn Gln Asn Trp Phe Leu Asp His
1 5 10

<210> 183
<211> 11
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<220>
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<400> 183

Gly Thr Trp Ile Gly Asp Trp Phe Met Asp His
1 5 10

<210> 184
<211> 11
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<213> Artificial Sequence

<220>
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<400> 184

Gly Thr Trp Ile Gln Asp Trp Phe Leu Asp His
1 5 10

<210> 185
<211> 11
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<213> Artificial Sequence

<220>

<223> Synthetic polypeptide

<400> 185

Gly Met Trp Ser Gly Asp Trp Phe Leu Asp His
1 5 10

<210> 186

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polypeptide

<400> 186

Gly Met Trp Ser Glu Asp Trp Phe Leu Asp His
1 5 10

<210> 187

<211> 11

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<213> Artificial Sequence

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<223> Synthetic polypeptide

<400> 187

Gly Met Trp Gln Gly Asn Trp Phe Leu Asp His
1 5 10

<210> 188

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polypeptide

<400> 188

Gly Gln Trp Asn Glu Asp Trp Phe Leu Asp His
1 5 10

<210> 189
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<400> 189

Gly Arg Trp Glu Gly Asp Trp Phe Phe Asp His
1 5 10

<210> 190
<211> 11
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<213> Artificial Sequence

<220>
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<400> 190

Gly Val Trp Ile Gly Asn Trp Phe Leu Asp His
1 5 10

<210> 191
<211> 120
<212> PRT
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<220>
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<400> 191

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Arg Phe
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 Gly Asn Lys Tyr Tyr Ala Glu 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 Leu Phe Tyr Cys
85 90 95

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

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 192
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<400> 192

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

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

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

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

Lys Gly Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Leu Tyr

65		70		75		80
Met	Glu	Leu	Ser	Ser	Leu	Arg
			85			
				Glu	Asp	Thr
				90		
					Ala	Val
						Tyr
						Tyr
						Cys
						95
Ala	Arg	Gly	Tyr	Asp	Val	Leu
			100			
						Thr
						Gly
						105
						Tyr
						Pro
						Asp
						Tyr
						Trp
						Gly
						Gln
						110
Gly	Thr	Leu	Val	Thr	Val	Ser
						Ser
						115
						120
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<211> 120						
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Gln	Val	Gln	Leu	Val	Glu	Ser
						Gly
						Gly
						Gly
						Val
						Val
						Gln
						Pro
						Gly
						Arg
						1
						5
						10
						15
Ser	Leu	Arg	Leu	Ser	Cys	Ala
						Ala
						Ser
						Gly
						Phe
						Thr
						Phe
						Ser
						Arg
						Phe
						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	Asn	Gly
						Gly
						Asn
						Lys
						Tyr
						Tyr
						Ala
						Glu
						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
						Leu
						Phe
						Tyr
						Cys
						85
						90
						95

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

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 194

<211> 120

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polypeptide

<400> 194

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Arg Phe
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 Ile Gly Gly Asn Lys Tyr Tyr Ala Glu 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 Leu Phe Tyr Cys
85 90 95

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

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 195
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<400> 195

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

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

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

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 196
<211> 120
<212> PRT
<213> Artificial Sequence

<220>

<223> Synthetic polypeptide

<400> 196

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Arg Phe
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 Tyr Gly Gly Asn Lys Tyr Tyr Ala Glu 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 Leu Phe Tyr Cys
85 90 95

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

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 197

<211> 120

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polypeptide

<400> 197

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Arg Phe
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 Arg Asn Lys Tyr Tyr Ala Glu 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 Leu Phe Tyr Cys
85 90 95

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

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 198

<211> 120

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polypeptide

<400> 198

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Arg Phe
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 Asn Asn Lys Tyr Tyr Ala Glu 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 Leu Phe Tyr Cys
85 90 95

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

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 199
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<400> 199

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Arg Phe
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 Gly Asn Lys Tyr Tyr Ala Arg 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	Leu	Phe	Tyr	Cys
			85						90					95	
Ala	Arg	Gly	Tyr	Asp	Val	Leu	Thr	Gly	Tyr	Pro	Asp	Tyr	Trp	Gly	Gln
			100					105					110		
Gly	Thr	Leu	Val	Thr	Val	Ser	Ser								
		115					120								
<210> 200															
<211> 120															
<212> PRT															
<213> Artificial Sequence															
<220>															
<223> Synthetic polypeptide															
<400> 200															
Gln	Val	Gln	Leu	Val	Glu	Ser	Gly	Gly	Gly	Val	Val	Gln	Pro	Gly	Arg
1				5					10					15	
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Thr	Phe	Ser	Arg	Phe
			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	Gly	Asn	Lys	Tyr	Tyr	Ala	Glu	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	Leu	Phe	Tyr	Cys
			85						90					95	

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

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 201
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<400> 201

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Arg Phe
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 Asn Gly Arg Asn Lys Tyr Tyr Ala Glu 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 Leu Phe Tyr Cys
85 90 95

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

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 202
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<400> 202

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Arg Phe
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 Ile Gly Arg Asn Lys Tyr Tyr Ala Glu 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 Leu Phe Tyr Cys
85 90 95

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

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 203
<211> 120
<212> PRT
<213> Artificial Sequence

<220>

<223> Synthetic polypeptide

<400> 203

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

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

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

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 204

<211> 120

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polypeptide

<400> 204

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Arg Phe
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 Tyr Gly Arg Asn Lys Tyr Tyr Ala Glu 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 Leu Phe Tyr Cys
85 90 95

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

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 205

<211> 120

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polypeptide

<400> 205

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Arg Phe
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 Asn Gly Asn Asn Lys Tyr Tyr Ala Glu 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 Leu Phe Tyr Cys
85 90 95

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

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 206
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<400> 206

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Arg Phe
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 Ile Gly Asn Asn Lys Tyr Tyr Ala Glu 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	Leu	Phe	Tyr	Cys
			85					90					95		
Ala	Arg	Gly	Tyr	Asp	Val	Leu	Thr	Gly	Tyr	Pro	Asp	Tyr	Trp	Gly	Gln
		100						105					110		
Gly	Thr	Leu	Val	Thr	Val	Ser	Ser								
	115					120									
<210> 207															
<211> 120															
<212> PRT															
<213> Artificial Sequence															
<220>															
<223> Synthetic polypeptide															
<400> 207															
Gln	Val	Gln	Leu	Val	Glu	Ser	Gly	Gly	Gly	Val	Val	Gln	Pro	Gly	Arg
1			5					10					15		
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Thr	Phe	Ser	Arg	Phe
		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	Gln	Gly	Asn	Asn	Lys	Tyr	Tyr	Ala	Glu	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	Leu	Phe	Tyr	Cys
			85					90					95		

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

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 208

<211> 120

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polypeptide

<400> 208

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Arg Phe
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 Tyr Gly Asn Asn Lys Tyr Tyr Ala Glu 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 Leu Phe Tyr Cys
85 90 95

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

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 209
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<400> 209

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Arg Phe
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 Asn Gly Gly Asn Lys Tyr Tyr Ala Arg 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 Leu Phe Tyr Cys
85 90 95

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

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 210
<211> 120
<212> PRT
<213> Artificial Sequence

<220>

<223> Synthetic polypeptide

<400> 210

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Arg Phe
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 Ile Gly Gly Asn Lys Tyr Tyr Ala Arg 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 Leu Phe Tyr Cys
85 90 95

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

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 211

<211> 120

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polypeptide

<400> 211

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Arg Phe
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 Gln Gly Gly Asn Lys Tyr Tyr Ala Arg 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 Leu Phe Tyr Cys
85 90 95

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

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 212

<211> 120

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polypeptide

<400> 212

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Arg Phe
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 Tyr Gly Gly Asn Lys Tyr Tyr Ala Arg 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 Leu Phe Tyr Cys
85 90 95

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

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 213
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<400> 213

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Arg Phe
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 Asn Gly Gly Asn Lys Tyr Tyr Ala Glu 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	Leu	Phe	Tyr	Cys
			85						90					95	
Ala	Arg	Gly	Tyr	Asp	Ile	Leu	Thr	Gly	Tyr	Pro	Asp	Tyr	Trp	Gly	Gln
			100					105					110		
Gly	Thr	Leu	Val	Thr	Val	Ser	Ser								
		115					120								
<210> 214															
<211> 120															
<212> PRT															
<213> Artificial Sequence															
<220>															
<223> Synthetic polypeptide															
<400> 214															
Gln	Val	Gln	Leu	Val	Glu	Ser	Gly	Gly	Gly	Val	Val	Gln	Pro	Gly	Arg
1				5					10					15	
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Thr	Phe	Ser	Arg	Phe
			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	Ile	Gly	Gly	Asn	Lys	Tyr	Tyr	Ala	Glu	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	Leu	Phe	Tyr	Cys
			85						90					95	

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

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 215
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<400> 215

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

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

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

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 216
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<400> 216

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Arg Phe
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 Tyr Gly Gly Asn Lys Tyr Tyr Ala Glu 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 Leu Phe Tyr Cys
85 90 95

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

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 217
<211> 120
<212> PRT
<213> Artificial Sequence

<220>

<223> Synthetic polypeptide

<400> 217

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Arg Phe
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 Arg Asn Lys Tyr Tyr Ala Arg 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 Leu Phe Tyr Cys
85 90 95

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

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 218

<211> 120

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polypeptide

<400> 218

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Arg Phe
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 Asn Asn Lys Tyr Tyr Ala Arg 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 Leu Phe Tyr Cys
85 90 95

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

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 219

<211> 120

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polypeptide

<400> 219

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Arg Phe
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 Arg Asn Lys Tyr Tyr Ala Glu 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 Leu Phe Tyr Cys
85 90 95

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

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 220

<211> 120

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polypeptide

<400> 220

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Arg Phe
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 Asn Asn Lys Tyr Tyr Ala Glu 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	Leu	Phe	Tyr	Cys
			85						90					95	
Ala	Arg	Gly	Tyr	Asp	Ile	Leu	Thr	Gly	Tyr	Pro	Asp	Tyr	Trp	Gly	Gln
			100					105					110		
Gly	Thr	Leu	Val	Thr	Val	Ser	Ser								
		115					120								
<210> 221															
<211> 120															
<212> PRT															
<213> Artificial Sequence															
<220>															
<223> Synthetic polypeptide															
<400> 221															
Gln	Val	Gln	Leu	Val	Glu	Ser	Gly	Gly	Gly	Val	Val	Gln	Pro	Gly	Arg
1				5					10					15	
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Thr	Phe	Ser	Arg	Phe
			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	Gly	Asn	Lys	Tyr	Tyr	Ala	Arg	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	Leu	Phe	Tyr	Cys
			85						90					95	

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

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 222
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<400> 222

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Arg Phe
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 Asn Gly Arg Asn Lys Tyr Tyr Ala Arg 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 Leu Phe Tyr Cys
85 90 95

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

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 223
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<400> 223

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Arg Phe
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 Ile Gly Arg Asn Lys Tyr Tyr Ala Arg 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 Leu Phe Tyr Cys
85 90 95

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

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 224
<211> 120
<212> PRT
<213> Artificial Sequence

<220>

<223> Synthetic polypeptide

<400> 224

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Arg Phe
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 Gln Gly Arg Asn Lys Tyr Tyr Ala Arg 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 Leu Phe Tyr Cys
85 90 95

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

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 225

<211> 120

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polypeptide

<400> 225

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Arg Phe
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 Tyr Gly Arg Asn Lys Tyr Tyr Ala Arg 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 Leu Phe Tyr Cys
85 90 95

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

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 226

<211> 120

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polypeptide

<400> 226

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Arg Phe
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 Asn Gly Asn Asn Lys Tyr Tyr Ala Arg 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 Leu Phe Tyr Cys
85 90 95

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

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 227
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<400> 227

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Arg Phe
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 Ile Gly Asn Asn Lys Tyr Tyr Ala Arg 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	Leu	Phe	Tyr	Cys
			85						90					95	
Ala	Arg	Gly	Tyr	Asp	Val	Leu	Thr	Gly	Tyr	Pro	Asp	Tyr	Trp	Gly	Gln
			100					105					110		
Gly	Thr	Leu	Val	Thr	Val	Ser	Ser								
		115					120								
<210> 228															
<211> 120															
<212> PRT															
<213> Artificial Sequence															
<220>															
<223> Synthetic polypeptide															
<400> 228															
Gln	Val	Gln	Leu	Val	Glu	Ser	Gly	Gly	Gly	Val	Val	Gln	Pro	Gly	Arg
1			5						10					15	
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Thr	Phe	Ser	Arg	Phe
			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	Gln	Gly	Asn	Asn	Lys	Tyr	Tyr	Ala	Arg	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	Leu	Phe	Tyr	Cys
			85						90					95	

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

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 229
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<400> 229

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Arg Phe
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 Tyr Gly Asn Asn Lys Tyr Tyr Ala Arg 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 Leu Phe Tyr Cys
85 90 95

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

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 230
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<400> 230

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Arg Phe
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 Asn Gly Arg Asn Lys Tyr Tyr Ala Glu 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 Leu Phe Tyr Cys
85 90 95

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

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 231
<211> 120
<212> PRT
<213> Artificial Sequence

<220>

<223> Synthetic polypeptide

<400> 231

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Arg Phe
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 Ile Gly Arg Asn Lys Tyr Tyr Ala Glu 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 Leu Phe Tyr Cys
85 90 95

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

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 232

<211> 120

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polypeptide

<400> 232

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

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

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

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 233

<211> 120

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polypeptide

<400> 233

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Arg Phe
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 Tyr Gly Arg Asn Lys Tyr Tyr Ala Glu 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 Leu Phe Tyr Cys
85 90 95

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

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 234

<211> 120

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polypeptide

<400> 234

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Arg Phe
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 Asn Gly Asn Asn Lys Tyr Tyr Ala Glu Ser Val
50 55 60

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

120

65		70		75		80									
Leu	Gln	Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp	Thr	Ala	Leu	Phe	Tyr	Cys
			85					90					95		
Ala	Arg	Gly	Tyr	Asp	Ile	Leu	Thr	Gly	Tyr	Pro	Asp	Tyr	Trp	Gly	Gln
		100						105					110		
Gly	Thr	Leu	Val	Thr	Val	Ser	Ser								
		115					120								
<210> 235															
<211> 120															
<212> PRT															
<213> Artificial Sequence															
<220>															
<223> Synthetic polypeptide															
<400> 235															
Gln	Val	Gln	Leu	Val	Glu	Ser	Gly	Gly	Gly	Val	Val	Gln	Pro	Gly	Arg
1			5					10					15		
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Thr	Phe	Ser	Arg	Phe
		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	Ile	Gly	Asn	Asn	Lys	Tyr	Tyr	Ala	Glu	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	Leu	Phe	Tyr	Cys
			85					90					95		

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

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 236
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<400> 236

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

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

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

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 237
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<400> 237

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Arg Phe
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 Tyr Gly Asn Asn Lys Tyr Tyr Ala Glu 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 Leu Phe Tyr Cys
85 90 95

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

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 238
<211> 120
<212> PRT
<213> Artificial Sequence

<220>

<223> Synthetic polypeptide

<400> 238

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Arg Phe
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 Arg Asn Lys Tyr Tyr Ala Arg 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 Leu Phe Tyr Cys
85 90 95

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

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 239

<211> 120

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polypeptide

<400> 239

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Arg Phe
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 Asn Asn Lys Tyr Tyr Ala Arg 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 Leu Phe Tyr Cys
85 90 95

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

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 240

<211> 120

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polypeptide

<400> 240

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Arg Phe
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 Asn Gly Arg Asn Lys Tyr Tyr Ala Arg 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 Leu Phe Tyr Cys
85 90 95

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

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 241
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<400> 241

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Arg Phe
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 Ile Gly Arg Asn Lys Tyr Tyr Ala Arg 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	Leu	Phe	Tyr	Cys
			85					90						95	
Ala	Arg	Gly	Tyr	Asp	Ile	Leu	Thr	Gly	Tyr	Pro	Asp	Tyr	Trp	Gly	Gln
			100					105					110		
Gly	Thr	Leu	Val	Thr	Val	Ser	Ser								
		115					120								
<210> 242															
<211> 120															
<212> PRT															
<213> Artificial Sequence															
<220>															
<223> Synthetic polypeptide															
<400> 242															
Gln	Val	Gln	Leu	Val	Glu	Ser	Gly	Gly	Gly	Val	Val	Gln	Pro	Gly	Arg
1			5					10						15	
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Thr	Phe	Ser	Arg	Phe
			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	Gln	Gly	Arg	Asn	Lys	Tyr	Tyr	Ala	Arg	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	Leu	Phe	Tyr	Cys
			85					90						95	

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

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 243
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<400> 243

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Arg Phe
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 Tyr Gly Arg Asn Lys Tyr Tyr Ala Arg 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 Leu Phe Tyr Cys
85 90 95

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

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 244
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<400> 244

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Arg Phe
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 Asn Gly Asn Asn Lys Tyr Tyr Ala Arg 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 Leu Phe Tyr Cys
85 90 95

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

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 245
<211> 120
<212> PRT
<213> Artificial Sequence

<220>

<223> Synthetic polypeptide

<400> 245

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Arg Phe
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 Ile Gly Asn Asn Lys Tyr Tyr Ala Arg 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 Leu Phe Tyr Cys
85 90 95

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

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 246

<211> 120

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polypeptide

<400> 246

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Arg Phe
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 Gln Gly Asn Asn Lys Tyr Tyr Ala Arg 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 Leu Phe Tyr Cys
85 90 95

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

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 247

<211> 120

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polypeptide

<400> 247

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Arg Phe
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 Tyr Gly Asn Asn Lys Tyr Tyr Ala Arg 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 Leu Phe Tyr Cys
85 90 95

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

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 248
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<400> 248

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser His Phe
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 Gly Asn Lys Tyr Tyr Ala Glu 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	Leu	Phe	Tyr	Cys
			85						90					95	
Ala	Arg	Gly	Tyr	Asp	Val	Leu	Thr	Gly	Tyr	Pro	Asp	Tyr	Trp	Gly	Gln
			100					105					110		
Gly	Thr	Leu	Val	Thr	Val	Ser	Ser								
		115					120								
<210> 249															
<211> 120															
<212> PRT															
<213> Artificial Sequence															
<220>															
<223> Synthetic polypeptide															
<400> 249															
Gln	Val	Gln	Leu	Val	Glu	Ser	Gly	Gly	Gly	Val	Val	Gln	Pro	Gly	Arg
1				5					10					15	
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Thr	Phe	Ser	Arg	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	Gly	Asn	Lys	Tyr	Tyr	Ala	Glu	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	Leu	Phe	Tyr	Cys
			85						90					95	

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

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 250

<211> 120

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polypeptide

<400> 250

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Arg Phe
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 Phe Asp Gly Gly Asn Lys Tyr Tyr Ala Glu 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 Leu Phe Tyr Cys
85 90 95

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

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 251
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<400> 251

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Arg Phe
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 Ala Asn Lys Tyr Tyr Ala Glu 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 Leu Phe Tyr Cys
85 90 95

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

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 252
<211> 120
<212> PRT
<213> Artificial Sequence

<220>

<223> Synthetic polypeptide

<400> 252

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Arg Phe
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 Gly Asn Lys Tyr Tyr Ala Glu 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 Leu Phe Tyr Cys
85 90 95

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

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 253

<211> 120

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polypeptide

<400> 253

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

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

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

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 254

<211> 120

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polypeptide

<400> 254

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Arg 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 Asn Gly Gly Asn Lys Tyr Tyr Ala Glu 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 Leu Phe Tyr Cys
85 90 95

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

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 255
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<400> 255

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Arg Phe
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 Phe Asn Gly Gly Asn Lys Tyr Tyr Ala Glu 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	Leu	Phe	Tyr	Cys
			85						90					95	
Ala	Arg	Gly	Tyr	Asp	Val	Leu	Thr	Gly	Tyr	Pro	Asp	Tyr	Trp	Gly	Gln
			100					105					110		
Gly	Thr	Leu	Val	Thr	Val	Ser	Ser								
		115					120								
<210> 256															
<211> 120															
<212> PRT															
<213> Artificial Sequence															
<220>															
<223> Synthetic polypeptide															
<400> 256															
Gln	Val	Gln	Leu	Val	Glu	Ser	Gly	Gly	Gly	Val	Val	Gln	Pro	Gly	Arg
1				5					10					15	
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Thr	Phe	Ser	Arg	Phe
			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	Asn	Gly	Ala	Asn	Lys	Tyr	Tyr	Ala	Glu	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	Leu	Phe	Tyr	Cys
			85						90					95	

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

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 257

<211> 120

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polypeptide

<400> 257

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Arg Phe
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 Asn Gly Gly Asn Lys Tyr Tyr Ala Glu 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 Leu Phe Tyr Cys
85 90 95

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

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 258
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<400> 258

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

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

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

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 259
<211> 120
<212> PRT
<213> Artificial Sequence

<220>

<223> Synthetic polypeptide

<400> 259

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Arg 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 Arg Asn Lys Tyr Tyr Ala Glu 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 Leu Phe Tyr Cys
85 90 95

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

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 260

<211> 120

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polypeptide

<400> 260

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Arg Phe
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 Phe Asp Gly Arg Asn Lys Tyr Tyr Ala Glu 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 Leu Phe Tyr Cys
85 90 95

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

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 261

<211> 120

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polypeptide

<400> 261

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Arg Phe
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 Arg Asn Lys Tyr Tyr Ala Glu 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 Leu Phe Tyr Cys
85 90 95

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

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 262
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<400> 262

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser His Phe
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 Gly Asn Lys Tyr Tyr Ala Arg 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	Leu	Phe	Tyr	Cys
			85						90					95	
Ala	Arg	Gly	Tyr	Asp	Val	Leu	Thr	Gly	Tyr	Pro	Asp	Tyr	Trp	Gly	Gln
			100					105					110		
Gly	Thr	Leu	Val	Thr	Val	Ser	Ser								
		115					120								
<210> 263															
<211> 120															
<212> PRT															
<213> Artificial Sequence															
<220>															
<223> Synthetic polypeptide															
<400> 263															
Gln	Val	Gln	Leu	Val	Glu	Ser	Gly	Gly	Gly	Val	Val	Gln	Pro	Gly	Arg
1				5					10					15	
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Thr	Phe	Ser	Arg	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	Gly	Asn	Lys	Tyr	Tyr	Ala	Arg	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	Leu	Phe	Tyr	Cys
			85						90					95	

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

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 264
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<400> 264

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Arg Phe
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 Phe Asp Gly Gly Asn Lys Tyr Tyr Ala Arg 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 Leu Phe Tyr Cys
85 90 95

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

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 265
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<400> 265

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Arg Phe
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 Ala Asn Lys Tyr Tyr Ala Arg 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 Leu Phe Tyr Cys
85 90 95

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

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 266
<211> 120
<212> PRT
<213> Artificial Sequence

<220>

<223> Synthetic polypeptide

<400> 266

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Arg Phe
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 Gly Asn Lys Tyr Tyr Ala Arg 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 Leu Phe Tyr Cys
85 90 95

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

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 267

<211> 120

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polypeptide

<400> 267

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

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

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

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 268

<211> 120

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polypeptide

<400> 268

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Arg 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 Gly Asn Lys Tyr Tyr Ala Glu 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 Leu Phe Tyr Cys
85 90 95

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

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 269
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<400> 269

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Arg Phe
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 Phe Asp Gly Gly Asn Lys Tyr Tyr Ala Glu 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	Leu	Phe	Tyr	Cys
			85						90					95	
Ala	Arg	Gly	Tyr	Asp	Ile	Leu	Thr	Gly	Tyr	Pro	Asp	Tyr	Trp	Gly	Gln
			100					105					110		
Gly	Thr	Leu	Val	Thr	Val	Ser	Ser								
		115					120								
<210> 270															
<211> 120															
<212> PRT															
<213> Artificial Sequence															
<220>															
<223> Synthetic polypeptide															
<400> 270															
Gln	Val	Gln	Leu	Val	Glu	Ser	Gly	Gly	Gly	Val	Val	Gln	Pro	Gly	Arg
1				5					10					15	
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Thr	Phe	Ser	Arg	Phe
			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	Ala	Asn	Lys	Tyr	Tyr	Ala	Glu	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	Leu	Phe	Tyr	Cys
			85						90					95	

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

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 271
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<400> 271

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Lys 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 Phe Lys Gly Ser Asn Lys Tyr Tyr Ala Glu 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 Leu Phe Tyr Cys
85 90 95

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

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 272
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<400> 272

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

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

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

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 273
<211> 120
<212> PRT
<213> Artificial Sequence

<220>

<223> Synthetic polypeptide

<400> 273

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

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

Ala Arg Gly Tyr Asp Met Leu Thr Gly Tyr Pro Asp Tyr Trp Gly Gln
100 105 110

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 274

<211> 120

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polypeptide

<400> 274

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Lys Phe
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 Arg Gly Gly Asn Lys Tyr Tyr Ala Glu 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 Leu Phe Tyr Cys
85 90 95

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

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 275

<211> 120

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polypeptide

<400> 275

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Arg 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 Ser Gly Ala Asn Lys Tyr Tyr Ala Glu 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 Leu Phe Tyr Cys
85 90 95

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

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 276
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<400> 276

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser His 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 Phe Lys Gly Ala Asn Lys Tyr Tyr Ala Glu 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	Leu	Phe	Tyr	Cys
			85					90					95		
Ala	Arg	Gly	Tyr	Asp	Leu	Leu	Thr	Gly	Tyr	Pro	Asp	Tyr	Trp	Gly	Gln
		100						105					110		
Gly	Thr	Leu	Val	Thr	Val	Ser	Ser								
		115					120								
<210> 277															
<211> 120															
<212> PRT															
<213> Artificial Sequence															
<220>															
<223> Synthetic polypeptide															
<400> 277															
Gln	Val	Gln	Leu	Val	Glu	Ser	Gly	Gly	Gly	Val	Val	Gln	Pro	Gly	Arg
1			5					10					15		
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Thr	Phe	Ser	His	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	Arg	Gly	Ala	Asn	Lys	Tyr	Tyr	Ala	Glu	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	Leu	Phe	Tyr	Cys
			85					90					95		

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

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 278
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<400> 278

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

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

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

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 279
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<400> 279

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

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

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

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 280
<211> 120
<212> PRT
<213> Artificial Sequence

<220>

<223> Synthetic polypeptide

<400> 280

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser His 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 Phe Met Gly Thr Asn Lys Tyr Tyr Ala Glu 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 Leu Phe Tyr Cys
85 90 95

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

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 281

<211> 120

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polypeptide

<400> 281

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

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

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

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 282

<211> 120

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polypeptide

<400> 282

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

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

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

Gly Val Ile Asn Tyr Arg Gly His Gly Lys Tyr Tyr Ala Glu Ser Val
50 55 60

Lys Gly Arg Phe Thr Val 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 Leu Phe Tyr Cys
85 90 95

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

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 283

<211> 120

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polypeptide

<400> 283

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

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

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

Gly Val Ile Ser Phe Ser Gly Gly Ser Lys Tyr Tyr Ala Glu Ser Val
50 55 60

Lys Gly Arg Phe Thr Leu 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	Leu	Phe	Tyr	Cys
			85					90						95	
Ala	Arg	Gly	Tyr	Asp	Val	Leu	Thr	Gly	Tyr	Pro	Asp	Tyr	Trp	Gly	Gln
			100					105					110		
Gly	Thr	Leu	Val	Thr	Val	Ser	Ser								
		115					120								
<210> 284															
<211> 120															
<212> PRT															
<213> Artificial Sequence															
<220>															
<223> Synthetic polypeptide															
<400> 284															
Gln	Val	Gln	Leu	Val	Glu	Ser	Gly	Gly	Gly	Val	Val	Gln	Pro	Gly	Arg
1				5					10					15	
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Thr	Phe	Ser	Arg	Phe
			20					25					30		
Ala	Met	His	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Val
		35					40					45			
Gly	Val	Ile	Ser	Tyr	Thr	Gly	Gln	Phe	Lys	Tyr	Tyr	Ala	Glu	Ser	Val
	50					55					60				
Lys	Gly	Arg	Phe	Thr	Val	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	Leu	Phe	Tyr	Cys
			85						90					95	

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

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 285

<211> 120

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polypeptide

<400> 285

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

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

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

Gly Val Ile Ser Tyr Thr Gly Ala Gln Lys Tyr Tyr Ala Glu Ser Val
50 55 60

Lys Gly Arg Phe Thr Met 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 Leu Phe Tyr Cys
85 90 95

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

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 286
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<400> 286

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

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

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

Gly Val Ile Ser Tyr Ser Gly Ala Ser Lys Tyr Tyr Ala Glu Ser Val
50 55 60

Lys Gly Arg Phe Thr Met 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 Leu Phe Tyr Cys
85 90 95

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

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 287
<211> 120
<212> PRT
<213> Artificial Sequence

<220>

<223> Synthetic polypeptide

<400> 287

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Arg Phe
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 Ser Gly Ala Phe Lys Tyr Tyr Ala Glu Ser Val
50 55 60

Lys Gly Arg Phe Thr Val 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 Leu Phe Tyr Cys
85 90 95

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

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 288

<211> 120

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polypeptide

<400> 288

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

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

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

Gly Val Ile Thr Tyr Thr Gly Gly Ala Lys Tyr Tyr Ala Glu 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 Leu Phe Tyr Cys
85 90 95

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

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 289

<211> 120

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polypeptide

<400> 289

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

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

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

Gly Val Ile Asn Phe Gln Gly Thr Thr Lys Tyr Tyr Ala Glu 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 Leu Phe Tyr Cys
85 90 95

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

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 290

<211> 120

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polypeptide

<400> 290

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

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

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

Gly Val Ile Ser Tyr Ser Gly Asp Leu Lys Tyr Tyr Ala Glu Ser Val
50 55 60

Lys Gly Arg Phe Thr Val 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	Leu	Phe	Tyr	Cys
			85					90					95		
Ala	Arg	Gly	Tyr	Asp	Val	Leu	Thr	Gly	Tyr	Pro	Asp	Tyr	Trp	Gly	Gln
		100						105					110		
Gly	Thr	Leu	Val	Thr	Val	Ser	Ser								
		115					120								
<210> 291															
<211> 120															
<212> PRT															
<213> Artificial Sequence															
<220>															
<223> Synthetic polypeptide															
<400> 291															
Gln	Val	Gln	Leu	Val	Glu	Ser	Gly	Gly	Gly	Val	Val	Gln	Pro	Gly	Arg
1			5					10					15		
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Thr	Phe	Ser	Arg	Phe
		20						25					30		
Ala	Met	His	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Val
		35					40					45			
Gly	Val	Ile	Asn	Tyr	Phe	Gly	Asp	Ala	Lys	Tyr	Tyr	Ala	Glu	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	Leu	Phe	Tyr	Cys
			85					90					95		

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

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 292
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<400> 292

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Phe 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 Ser Phe Gly Ser Asn Lys Tyr Tyr Ala Glu 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 Leu Phe Tyr Cys
85 90 95

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

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 293
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<400> 293

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Tyr 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 Ser Gly Ser Asn Lys Tyr Tyr Ala Glu 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 Leu Phe Tyr Cys
85 90 95

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

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 294
<211> 120
<212> PRT
<213> Artificial Sequence

<220>

<223> Synthetic polypeptide

<400> 294

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

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

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

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 295

<211> 120

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polypeptide

<400> 295

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

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

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

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 296

<211> 123

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polypeptide

<400> 296

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

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

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

Trp Leu Gly Arg Thr Tyr Tyr Arg Ser Lys Trp Ser Asn His Tyr Ala
50 55 60

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

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

Tyr Tyr Cys Ala Arg Gly Thr Trp Lys Gln Leu Trp Phe Leu Asp His
100 105 110

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

<210> 297
<211> 123
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<400> 297

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

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

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

Trp Leu Gly Arg Thr Tyr Tyr Arg Gly Lys Trp Lys Asn His Tyr Ala
50 55 60

Val Ser Val Lys Ser Arg Ile Thr Ile Asn Pro Asp Thr Ser Lys Ser

65		70		75		80
Gln Phe Ser Leu Gln Leu Asn Ser Val Thr Pro Glu Asp Thr Ala Val						
	85		90		95	
Tyr Tyr Cys Ala Arg Gly Thr Trp Asn Gln Asp Trp Phe Leu Asp His						
	100		105		110	
Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser						
	115		120			
<210> 298						
<211> 123						
<212> PRT						
<213> Artificial Sequence						
<220>						
<223> Synthetic polypeptide						
<400> 298						
Gln Val Gln Leu Gln Gln Ser Gly Pro Gly Leu Val Lys Pro Ser Gln						
1	5		10		15	
Thr Leu Ser Leu Thr Cys Ala Ile Ser Gly Asp Ser Val Ser Asn Arg						
	20		25		30	
Leu Ala Thr Trp Asn Trp Ile Arg Gln Ser Pro Ser Arg Gly Leu Glu						
	35		40		45	
Trp Leu Gly Arg Thr Tyr Tyr Arg Gly Lys Trp Lys Asn His Tyr Ala						
	50		55		60	
Val Ser Val Lys Ser Arg Ile Thr Ile Asn Pro Asp Thr Ser Lys Ser						
65	70		75		80	
Gln Phe Ser Leu Gln Leu Asn Ser Val Thr Pro Glu Asp Thr Ala Val						
	85		90		95	

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

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

<210> 299

<211> 123

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polypeptide

<400> 299

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

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

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

Trp Leu Gly Arg Thr Tyr Tyr Arg Gly Lys Trp Lys Asn His Tyr Ala
50 55 60

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

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

Tyr Tyr Cys Ala Arg Gly Thr Trp Glu Gln Asp Trp Phe Leu Asp His
100 105 110

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

<210> 300
<211> 123
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<400> 300

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

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

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

Trp Leu Gly Arg Thr Tyr Tyr Arg Gly Lys Trp Lys Asn His Tyr Ala
50 55 60

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

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

Tyr Tyr Cys Ala Arg Gly Met Trp Asn Gln Asn Trp Phe Leu Asp His
100 105 110

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

<210> 301
<211> 123
<212> PRT
<213> Artificial Sequence

<220>

<223> Synthetic polypeptide

<400> 301

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

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

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

Trp Leu Gly Arg Thr Tyr Tyr Arg Gly Gln Trp Lys Asn His Tyr Ala
50 55 60

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

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

Tyr Tyr Cys Ala Arg Gly Thr Trp Ile Gly Asp Trp Phe Met Asp His
100 105 110

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

<210> 302

<211> 123

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polypeptide

<400> 302

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

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

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

Trp Leu Gly Arg Thr Tyr Tyr Arg Gly Lys Trp Lys Asn His Tyr Ala
50 55 60

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

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

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

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

<210> 303

<211> 123

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polypeptide

<400> 303

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

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

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

Trp Leu Gly Arg Thr Tyr Tyr Arg Gly Lys Trp Lys Asn His Tyr Ala
50 55 60

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

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

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

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

<210> 304

<211> 123

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polypeptide

<400> 304

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

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

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

Trp Leu Gly Arg Thr Tyr Tyr Arg Gly Gln Trp Lys Asn His Tyr Ala
50 55 60

Val Ser Val Lys Ser Arg Ile Thr Ile Asn Pro Asp Thr Ser Lys Ser

65		70		75		80
Gln Phe Ser Leu Gln Leu Asn Ser Val Thr Pro Glu Asp Thr Ala Val						
	85		90		95	
Tyr Tyr Cys Ala Arg Gly Met Trp Asn Gln Asn Trp Phe Leu Asp His						
	100		105		110	
Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser						
	115		120			
<210> 305						
<211> 123						
<212> PRT						
<213> Artificial Sequence						
<220>						
<223> Synthetic polypeptide						
<400> 305						
Gln Val Gln Leu Gln Gln Ser Gly Pro Gly Leu Val Lys Pro Ser Gln						
1	5		10		15	
Thr Leu Ser Leu Thr Cys Ala Ile Ser Gly Asp Ser Val Ser Asn Lys						
	20		25		30	
Gln Ala Thr Trp Asn Trp Ile Arg Gln Ser Pro Ser Arg Gly Leu Glu						
	35		40		45	
Trp Leu Gly Arg Thr Tyr Tyr Arg Gly Lys Trp Lys Asn His Tyr Ala						
	50		55		60	
Val Ser Val Lys Ser Arg Ile Thr Ile Asn Pro Asp Thr Ser Lys Ser						
65	70		75		80	
Gln Phe Ser Leu Gln Leu Asn Ser Val Thr Pro Glu Asp Thr Ala Val						
	85		90		95	

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

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

<210> 306

<211> 123

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polypeptide

<400> 306

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

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

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

Trp Leu Gly Arg Thr Tyr Tyr Arg Gly Lys Trp Lys Asn His Tyr Ala
50 55 60

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

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

Tyr Tyr Cys Ala Arg Gly Met Trp Ser Glu Asp Trp Phe Leu Asp His
100 105 110

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

<210> 307
<211> 123
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<400> 307

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

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

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

Trp Leu Gly Arg Thr Tyr Tyr Arg Gly Lys Trp Lys Asn His Tyr Ala
50 55 60

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

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

Tyr Tyr Cys Ala Arg Gly Met Trp Gln Gly Asn Trp Phe Leu Asp His
100 105 110

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

<210> 308
<211> 123
<212> PRT
<213> Artificial Sequence

<220>

<223> Synthetic polypeptide

<400> 308

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

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

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

Trp Leu Gly Arg Thr Tyr Tyr Arg Gly Lys Trp Lys Asn His Tyr Ala
50 55 60

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

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

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

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

<210> 309

<211> 123

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polypeptide

<400> 309

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

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

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

Trp Leu Gly Arg Thr Tyr Tyr Arg Gly Lys Trp Lys Asn His Tyr Ala
50 55 60

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

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

Tyr Tyr Cys Ala Arg Gly Gln Trp Asn Glu Asp Trp Phe Leu Asp His
100 105 110

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

<210> 310
<211> 123
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<400> 310

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

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

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

Trp Leu Gly Arg Thr Tyr Tyr Arg Gly Lys Trp Lys Asn His Tyr Ala
50 55 60

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

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

Tyr Tyr Cys Ala Arg Gly Arg Trp Glu Gly Asp Trp Phe Phe Asp His
100 105 110

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

<210> 311

<211> 123

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polypeptide

<400> 311

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

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

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

Trp Leu Gly Arg Thr Tyr Phe Arg Arg Thr Trp Lys Asn His Tyr Ala
50 55 60

Val Ser Val Lys Ser Arg Ile Thr Ile Asn Pro Asp Thr Ser Lys Ser

65		70		75		80
Gln Phe Ser Leu	Gln Leu Asn Ser Val	Thr Pro Glu Asp Thr	Ala Val			
	85	90	95			
Tyr Tyr Cys Ala	Arg Gly Met Trp Ser	Glu Asp Trp Phe	Leu Asp His			
	100	105	110			
Trp Gly Gln Gly	Thr Leu Val Thr	Val Ser Ser				
	115	120				
<210> 312						
<211> 123						
<212> PRT						
<213> Artificial Sequence						
<220>						
<223> Synthetic polypeptide						
<400> 312						
Gln Val Gln Leu	Gln Gln Ser Gly Pro	Gly Leu Val Lys Pro	Ser Gln			
1	5	10	15			
Thr Leu Ser Leu	Thr Cys Ala Ile Ser	Gly Asp Ser Val	Ser Asn Arg			
	20	25	30			
Leu Ala Thr Trp	Asn Trp Ile Arg	Gln Ser Pro Ser	Arg Gly Leu Glu			
	35	40	45			
Trp Leu Gly Arg	Thr Tyr Tyr Arg	Gly Lys Trp Lys	Asn His Tyr Ala			
	50	55	60			
Val Ser Val Lys	Ser Arg Ile Thr	Ile Asn Pro Asp	Thr Ser Lys Ser			
65	70	75	80			
Gln Phe Ser Leu	Gln Leu Asn Ser Val	Thr Pro Glu Asp Thr	Ala Val			
	85	90	95			

Tyr Tyr Cys Ala Arg Gly Val Trp Ile Gly Asn Trp Phe Leu Asp His
100 105 110

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

<210> 313
<211> 106
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<400> 313

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

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

Phe Tyr Pro Gly Ala Val Thr Val Ala Trp Lys Ala Asp Gly Ser Pro
35 40 45

Val Lys Ala Gly Val Glu Thr Thr Lys Pro Ser Lys Gln Ser Asn Asn
50 55 60

Lys Tyr Ala Ala Ser Ser Tyr Leu Ser Leu Thr Pro Glu Gln Trp Lys
65 70 75 80

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

Glu Lys Thr Val Ala Pro Thr Glu Cys Ser
100 105

<210> 314
<211> 106
<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polypeptide

<400> 314

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

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

Phe Tyr Pro Gly Ala Val Thr Val Ala Trp Lys Ala Asp Ser Ser Pro
35 40 45

Val Lys Ala Gly Val Glu Thr Thr Thr Pro Ser Lys Gln Ser Asn Asn
50 55 60

Lys Tyr Ala Ala Ser Ser Tyr Leu Ser Leu Thr Pro Glu Gln Trp Lys
65 70 75 80

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

Glu Lys Thr Val Ala Pro Thr Glu Cys Ser
100 105

<210> 315

<211> 105

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polypeptide

<400> 315

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

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

Tyr Pro Gly Ala Val Thr Val Ala Trp Lys Ala Asp Ser Ser Pro Val
35 40 45

Lys Ala Gly Val Glu Thr Thr Thr Pro Ser Lys Gln Ser Asn Asn Lys
50 55 60

Tyr Ala Ala Ser Ser Tyr Leu Ser Leu Thr Pro Glu Gln Trp Lys Ser
65 70 75 80

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

Lys Thr Val Ala Pro Thr Glu Cys Ser
100 105

<210> 316

<211> 106

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polypeptide

<400> 316

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

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

Phe Tyr Pro Gly Ala Val Thr Val Ala Trp Lys Ala Asp Ser Ser Pro
35 40 45

Val Lys Ala Gly Val Glu Thr Thr Thr Pro Ser Lys Gln Ser Asn Asn
50 55 60

Lys Tyr Ala Ala Ser Ser Tyr Leu Ser Leu Thr Pro Glu Gln Trp Lys
65 70 75 80

Ser His Lys Ser Tyr Ser Cys Gln Val Thr His Glu Gly Ser Thr Val
85 90 95

Glu Lys Thr Val Ala Pro Thr Glu Cys Ser
100 105

<210> 317

<211> 106

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polypeptide

<400> 317

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

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

Phe Tyr Pro Gly Ala Val Thr Val Ala Trp Lys Ala Asp Gly Ser Pro
35 40 45

Val Lys Val Gly Val Glu Thr Thr Lys Pro Ser Lys Gln Ser Asn Asn
50 55 60

Lys Tyr Ala Ala Ser Ser Tyr Leu Ser Leu Thr Pro Glu Gln Trp Lys
65 70 75 80

Ser His Arg Ser Tyr Ser Cys Arg Val Thr His Glu Gly Ser Thr Val
85 90 95

Glu Lys Thr Val Ala Pro Ala Glu Cys Ser
100 105

<210> 318
<211> 106
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<400> 318

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

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

Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser
35 40 45

Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr
50 55 60

Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys
65 70 75 80

His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro
85 90 95

Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
100 105

<210> 319
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<400> 319

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

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

Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln
35 40 45

Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser
50 55 60

Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu
65 70 75 80

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

Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
100 105

<210> 320

<211> 330

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polypeptide

<400> 320

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 Glu Glu
225 230 235 240

Met 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> 321

<211> 330

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polypeptide

<400> 321

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> 322

<211> 330

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polypeptide

<400> 322

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

Arg 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 Glu Glu
225 230 235 240

Met 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> 323

<211> 330

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polypeptide

<400> 323

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

Arg 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> 324

<211> 330

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polypeptide

<400> 324

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 Gly 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 Glu Glu
225 230 235 240

Met 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> 325
 <211> 330
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic polypeptide

<400> 325

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 Cys Glu
165 170 175

Glu Gln Tyr Gly Ser Thr Tyr Arg Cys 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 Glu Glu
225 230 235 240

Met 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> 326

<211> 326

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polypeptide

<400> 326

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

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> 327
<211> 330
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<400> 327

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 Cys Glu
165 170 175

Glu Gln Tyr Gly Ser Thr Tyr Arg Cys 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 Glu Glu
225 230 235 240

Met 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> 328
<211> 326
<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic polynucleotide

<400> 328

gagatcgtac ttactcagtc acccgccaca ttgtccctga gcccgggtga acgggcgacc	60
ctcagctgcc gagcatccca gtccgtcgga cgatcattgc actggtacca acaaaaaccg	120
ggccaggccc ccagacttct gatcaagtat gcgtcacaga gcttgtcggg tattcccgct	180
cgcttttcgg ggtcgggatc cgggacagat ttcacgctca caatctcctc gctggaaccc	240
gaggacttcg cgggtactta ttgtcatcag tcatcgaggt tgcctttcac gtttggacca	300
gggaccaagg tggacattaa gcgtac	326

<210> 329

<211> 326

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic polynucleotide

<400> 329

gatatccagc tactcaatc gccatcattt ctctccgctt cggtaggcga ccgggtcacg	60
atcacatgca gggcgtcgca aagcattggg aggtcgttgc attggtatca gcagaaaccc	120
ggaaaggccc cgaaacttct gatcaaatac gcatcacaaa gcttgagcgg tgtgccgtcg	180
cgcttctccg gttccggaag cggaacggaa ttcacgctta caatctcctc actgcagccc	240
gaggatttcg cgacctatta ctgtcaccag tcatccagac tcccgtttac ttttggccct	300
gggaccaagg tggacattaa gcgtac	326

<210> 330

<211> 321

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic polynucleotide

<400> 330
gagatcgtac ttactcagtc acccgccaca ttgtccctga gcccgggtga acgggcgacc 60
ctcagctgcc gagcatccaa gtccgtcgga cgatcattgc actggtacca acaaaaaccg 120
ggccaggccc ccagacttct gatcaagtat gcgtcacaga gcttgtcggg tattccccgct 180
cgcttttcgg ggtcgggatc cgggacagat ttcacgctca caatctcctc gctggaaccc 240
gaggacttcg cgggtacta ttgtcatcag tcatcgaggt tgcctttcac gtttggacca 300
gggaccaagg tggacattaa g 321

<210> 331
<211> 321
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic polynucleotide

<400> 331
gagatcgtac ttactcagtc acccgccaca ttgtccctga gcccgggtga acgggcgacc 60
ctcagctgcc gagcatccca gtccgtcgga cgatcattgc actggtacca acaaaaaccg 120
ggccaggccc ccagacttct gatcaagtat gcgtcacaga gcttgtcggg tattccccgct 180
cgcttttcgg ggtcgggatc cgggacagat ttcacgctca caatctcctc gctggaaccc 240
gaggacttcg cgggtacta ttgtcatcag tcatcgaggt tgcctttcac gtttggacca 300
gggaccaagg tggacattaa g 321

<210> 332
<211> 321
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic polynucleotide

<400> 332
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ggccaggccc ccagacttct gatcaagtat gcgtcacaga gcttgtcggg tattccccgct	180
cgcttttcgg ggtcgggatc cgggacagat ttcacgctca caatctcctc gctggaaccc	240
gaggacttcg cgggtctacta ttgtcatcag tcatcgaggt tgcctttcac gtttggacca	300
gggaccaagg tggacattaa g	321

<210> 333
 <211> 321
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic polynucleotide

<400> 333	
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ggccaggccc ccagacttct gatcaagtat gcgtcacaga gcttgtcggg tattccccgct	180
cgcttttcgg ggtcgggatc cgggacagat ttcacgctca caatctcctc gctggaaccc	240
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gggaccaagg tggacattaa g	321

<210> 334
 <211> 321
 <212> DNA
 <213> Artificial Sequence

<220>
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<400> 334	
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ggccaggccc ccagacttct gatcaagtat gcgtcacaga gcttgtcggg tattccccgct	180
cgcttttcgg ggtcgggatc cgggacagat ttcacgctca caatctcctc gctggaaccc	240
gaggacttcg cgggtctacta ttgtcatcag tcatcgatgt tgcctttcac gtttggacca	300

gggaccaagg tggacattaa g 321

<210> 335

<211> 321

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic polynucleotide

<400> 335

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ggccaggccc ccagacttct gatcaagtat gcgtcacaga gcttgtcggg tattcccgct 180

cgcttttcgg ggtcgggatc cgggacagat ttcacgctca caatctcctc gctggaaccc 240

gaggacttcg cgggtacta ttgtcatcag tcatcgaggt tgcctttcac gtttggacca 300

gggaccaagg tggacattaa g 321

<210> 336

<211> 321

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic polynucleotide

<400> 336

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ctcagctgcc gagcatccaa gtccgtcggg cgaaacttgc actggtacca acaaaaaccg 120

ggccaggccc ccagacttct gatcaagtat gcgtcacaga gcttgtcggg tattcccgct 180

cgcttttcgg ggtcgggatc cgggacagat ttcacgctca caatctcctc gctggaaccc 240

gaggacttcg cgggtacta ttgtcatcag tcatcgaggt tgcctttcac gtttggacca 300

gggaccaagg tggacattaa g 321

<210> 337

<211> 321
<212> DNA
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<220>
<223> Synthetic polynucleotide

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ggccaggccc ccagacttct gatcaagtat gcgtcacaga gcttgtcggg tattcccgt 180
cgcttttcgg ggtcgggatc cgggacagat ttcacgtca caatctcctc gctggaaccc 240
gaggacttcg cgggtctacta ttgtcatcag tcatcgatgt tgcctttcac gtttggacca 300
gggaccaagg tggacattaa g 321

<210> 338
<211> 325
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic polynucleotide

<400> 338
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ctcagctgcc gagcatccaa atccgtcggg tggagcttgc actggtacca acaaaaaccg 120
ggccaggccc ccagacttct gatcaagtat gcgtcacaga gcttgtcggg tattcccgt 180
cgcttttcgg ggtcgggatc cgggacagat ttcacgtca caatctcctc gctggaaccc 240
gaggacttcg cgggtctacta ttgtcatcag tcatcgaggt tgcctttcac gtttggacca 300
gggaccaagg tggacattaa gcgta 325

<210> 339
<211> 325
<212> DNA
<213> Artificial Sequence

<220>

<223> Synthetic polynucleotide

<400> 339

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ggccaggccc ccagacttct gatcaagtat gcgtcacaga gcttgtcggg tattccccgct	180
cgcttttcgg ggtcgggatc cgggacagat ttcacgctca caatctcctc gctggaaccc	240
gaggacttcg cgggtctacta ttgtcatcag tcatcgaggt tgcctttcac gtttggacca	300
gggaccaagg tggacattaa gcgta	325

<210> 340

<211> 325

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic polynucleotide

<400> 340

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ggccaggccc ccagacttct gatcaagtat gcgtcacaga gcttgtcggg tattccccgct	180
cgcttttcgg ggtcgggatc cgggacagat ttcacgctca caatctcctc gctggaaccc	240
gaggacttcg cgggtctacta ttgtcatcag tcatcgaggt tgcctttcac gtttggacca	300
gggaccaagg tggacattaa gcgta	325

<210> 341

<211> 325

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic polynucleotide

<400> 341

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ctcagctgcc gagcatccaa atcagtcggt cagtctttgc actggtacca acaaaaaccg	120
ggccaggccc ccagacttct gatcaagtat gcgtcacaga gcttgtcggg tattcccgct	180
cgcttttcgg ggtcgggatc cgggacagat ttcacgctca caatctcctc gctggaaccc	240
gaggacttcg cggcttacta ttgtcatcag tcatcgcgtt tgcctttcac gtttggacca	300
gggaccaagg tggacattaa gcgta	325

<210> 342
 <211> 325
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic polynucleotide

<400> 342	
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ctcagctgcc gagcatcccg ttcagtcggt ctggctttgc actggtacca acaaaaaccg	120
ggccaggccc ccagacttct gatcaagtat gcgtcacaga gcttgtcggg tattcccgct	180
cgcttttcgg ggtcgggatc cgggacagat ttcacgctca caatctcctc gctggaaccc	240
gaggacttcg cggcttacta ttgtcatcag tcatcgttct tgcctttcac gtttggacca	300
gggaccaagg tggacattaa gcgta	325

<210> 343
 <211> 326
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic polynucleotide

<400> 343	
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atcacttgcc gggcaagtca gagcattagc aggtatttaa attggtatca acagaaacca	120
gggaaagccc ctaaactcct gatctatgct gcatccagtt tgcaaagtgg gatcccatca	180
aggttcagcg gcagtggatc tgggacagat ttcactctca ccatcaacag tctgcaacct	240

gaagattttg caacttactt ctgtcaacag agttacagtc cccattcac tttcggccct	300
gggaccaaag tggatatcaa acgtac	326

<210> 344
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 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic polynucleotide

<400> 344	
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gggaaagccc ctaaactcct gatcttcgct ggtcagcgtt tgcaaagtgg gatcccatca	180
aggttcagcg gcagtggatc tgggacagat ttcactctca ccatcaacag tctgcaacct	240
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gggaccaaag tggatatcaa a	321

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gggaaagccc ctaaactcct gatctacgct gctcatcatt tgcaaagtgg gatcccatca	180
aggttcagcg gcagtggatc tgggacagat ttcactctca ccatcaacag tctgcaacct	240
gaagattttg caacttactt ctgtcaacag gctatccagg aaccatacac tttcggccct	300
gggaccaaag tggatatcaa a	321

<210> 346
<211> 321
<212> DNA
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<220>
<223> Synthetic polynucleotide

<400> 346
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gggaaagccc ctaaactcct gatcttcgct ggtcagcggt tgcaaagtgg gatcccatca 180
aggttcagcg gcagtggatc tgggacagat ttcactctca ccatcaacag tctgcaacct 240
gaagattttg caacttactt ctgtcaacag gctatcatca acccatacac tttcggccct 300
gggaccaaag tggatatcaa a 321

<210> 347
<211> 321
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic polynucleotide

<400> 347
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atcacttgcc gggcaagtca gtacattggt cgttacttaa actggtatca acagaaacca 120
gggaaagccc ctaaactcct gatctacgct gctaacaatgt tgcaaagtgg gatcccatca 180
aggttcagcg gcagtggatc tgggacagat ttcactctca ccatcaacag tctgcaacct 240
gaagattttg caacttactt ctgtcaacag gctatcaacc agccatacac tttcggccct 300
gggaccaaag tggatatcaa a 321

<210> 348
<211> 321
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<213> Artificial Sequence

<220>

<223> Synthetic polynucleotide

<400> 348

gacatccaga tgacccagtc tccatcctcc ctgtctgcat ctgtaggaga cagaatcacc	60
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gggaaagccc ctaaactcct gatctacgct gctaacatgt tgcaaagtgg gatcccatca	180
aggttcagcg gcagtggatc tgggacagat ttcactctca ccatcaacag tctgcaacct	240
gaagattttg caacttactt ctgtcaacag tctatccagc agccatacac tttcggccct	300
gggaccaaag tggatatcaa a	321

<210> 349

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<212> DNA

<213> Artificial Sequence

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<400> 349

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gggaaagccc ctaaactcct gatcttcgct ggtcagcggt tgcaaagtgg gatcccatca	180
aggttcagcg gcagtggatc tgggacagat ttcactctca ccatcaacag tctgcaacct	240
gaagattttg caacttactt ctgtcaacag gctatccagc agccatacac tttcggccct	300
gggaccaaag tggatatcaa acgt	324

<210> 350

<211> 321

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic polynucleotide

<400> 350

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gggaaagccc ctaaactcct gatctacgct tcttacaact tgcaaagtgg gatcccatca	180
aggttcagcg gcagtggatc tgggacagat ttcacttca ccatcaacag tctgcaacct	240
gaagattttg caacttactt ctgtcaacag gctatcatgg ctccatacac tttcggccct	300
gggaccaaag tggatatcaa a	321

<210> 351
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<220>
 <223> Synthetic polynucleotide

<400> 351	
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atcacttgcc gggcaagtca gcctattgct cagtacttaa actggtatca acagaaacca	120
gggaaagccc ctaaactcct gatctacgct ggctcgttact tgcaaagtgg gatcccatca	180
aggttcagcg gcagtggatc tgggacagat ttcacttca ccatcaacag tctgcaacct	240
gaagattttg caacttactt ctgtcaacag gctatccaga acccatacac tttcggccct	300
gggaccaaag tggatatcaa a	321

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 <213> Artificial Sequence

<220>
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gggaaagccc ctaaactcct gatcttcgct ggctcagcgtt tgcaaagtgg gatcccatca	180

aggttcagcg gcagtggatc tgggacagat ttcactctca ccatcaacag tctgcaacct	240
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gggaccaaag tggatatcaa a	321

<210> 353
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 <212> DNA
 <213> Artificial Sequence

<220>
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gggaaagccc ctaaactcct gatcttcgct ggtagcgtt tgcaaagtgg gatcccatca	180
aggttcagcg gcagtggatc tgggacagat ttcactctca ccatcaacag tctgcaacct	240
gaagattttg caacttactt ctgtcaacag gctatctcta tcccatacac tttcggccct	300
gggaccaaag tggatatcaa a	321

<210> 354
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 <212> DNA
 <213> Artificial Sequence

<220>
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<400> 354	
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gggaaagccc ctaaactcct gatctacgct tcttacaact tgcaaagtgg gatcccatca	180
aggttcagcg gcagtggatc tgggacagat ttcactctca ccatcaacag tctgcaacct	240
gaagattttg caacttactt ctgtcaacag gctatcatcc agccatacac tttcggccct	300

gggaccaaag tggatatcaa a 321

<210> 355

<211> 321

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic polynucleotide

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gggaaagccc ctaaactcct gatctacgct tcttacaact tgcaaagtgg gatcccatca 180

aggttcagcg gcagtggatc tgggacagat ttcactctca ccatcaacag tctgcaacct 240

gaagattttg caacttactt ctgtcaacag gctatccaga acccatacac tttcggccct 300

gggaccaaag tggatatcaa a 321

<210> 356

<211> 321

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic polynucleotide

<400> 356

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gggaaagccc ctaaactcct gatcttcgct ggtcagcggt tgcaaagtgg gatcccatca 180

aggttcagcg gcagtggatc tgggacagat ttcactctca ccatcaacag tctgcaacct 240

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gggaccaaag tggatatcaa a 321

<210> 357

<211> 321

<212> DNA
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<220>
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gggaaagccc ctaaactcct gatctacgct ggctgtatct tgcaaagtgg gatcccatca 180
aggttcagcg gcagtggatc tgggacagat ttcactctca ccatcaacag tctgcaacct 240
gaagattttg caacttactt ctgtcaacag gctatcatca acccatacac tttcggccct 300
gggaccaaag tggatatcaa a 321

<210> 358
<211> 321
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic polynucleotide

<400> 358
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atcacttgcc gggcaagtca gcgtattgct cgttacttaa actggtatca acagaaacca 120
gggaaagccc ctaaactcct gatcttcgct gggtctatct tgcaaagtgg gatcccatca 180
aggttcagcg gcagtggatc tgggacagat ttcactctca ccatcaacag tctgcaacct 240
gaagattttg caacttactt ctgtcaacag gctatccaga acccatacac tttcggccct 300
gggaccaaag tggatatcaa a 321

<210> 359
<211> 321
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic polynucleotide

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gggaaagccc ctaaactcct gatctacgct tcttacaact tgcaaagtgg gatcccatca 180
aggttcagcg gcagtggatc tgggacagat ttcactctca ccatcaacag tctgcaacct 240
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gggaccaaag tggatatcaa a 321

<210> 360
<211> 321
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic polynucleotide

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gggaaagccc ctaaactcct gatctacgct tcttacaact tgcaaagtgg gatcccatca 180
aggttcagcg gcagtggatc tgggacagat ttcactctca ccatcaacag tctgcaacct 240
gaagattttg caacttactt ctgtcaacag gctatccagc agccatacac tttcggcct 300
gggaccaaag tggatatcaa a 321

<210> 361
<211> 321
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic polynucleotide

<400> 361
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gggaaagccc ctaaactcct gatctacgct tcttacaact tgcaaagtgg gatcccatca	180
aggttcagcg gcagtggatc tgggacagat ttcactctca ccatcaacag tctgcaacct	240
gaagattttg caacttactt ctgtcaacag gctatcatca acccatacac tttcggccct	300
gggaccaaag tggatatcaa a	321

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 <213> Artificial Sequence

<220>
 <223> Synthetic polynucleotide

<400> 362	
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gggaaagccc ctaaactcct gatctacggt gctcgtaact tgcaaagtgg gatcccatca	180
aggttcagcg gcagtggatc tgggacagat ttcactctca ccatcaacag tctgcaacct	240
gaagattttg caacttactt ctgtcaacag tctatccaga ctccatacac tttcggccct	300
gggaccaaag tggatatcaa a	321

<210> 363
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 <212> DNA
 <213> Artificial Sequence

<220>
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gggaaagccc ctaaactcct gatctatgct gcatccagtt tgcaaagtgg gatcccatca	180
aggttcagcg gcagtggatc tgggacagat ttcactctca ccatcaacag tctgcaacct	240

gaagatTTTtg caacttactt ctgtcaacag agttacagtc cccattcac tttcggccct	300
gggaccaaag tggatatcaa a	321

<210> 364
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 <213> Artificial Sequence

<220>
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<400> 364	
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ccaggcaagg ggctggagtg ggtggcagtt atatcatatg atggaggaaa taaatactat	180
gcagagtccg tgaagggccg gttcaccatc tccagagaca attccaagaa caccctgtat	240
ctgcaaatga acagcctgag agctgaggac acggctctgt tttactgtgc gagaggatac	300
gatgttttga ctggttaccc cgactactgg ggccagggaa ccctggTcac cgtctcctca	360
gc	362

<210> 365
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<220>
 <223> Synthetic polynucleotide

<400> 365	
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cccggTcagg ggttggagtg gatgggagtt attagctatg acgggggcaa taagtactac	180
gccgagtctg ttaagggTcg ggtcacaatg acacgggaca cctcaaccag tacactctat	240
atggaaactgt ctagcctgag atccgaggac accgctgtgt attattgcgc tagggggTtac	300
gatgtattga cgggttatcc tgattactgg gggcagggga cactcgtaac cgtctctagt	360

<210> 366
<211> 360
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic polynucleotide

<400> 366
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tcctgtgcag cctctggatt caccttcagt agatttgcca tgcactgggt ccgccaggct 120
ccaggcaagg ggctggagtg ggtggcagtt atatcatata acggaggaaa taaatactat 180
gcagagtccg tgaagggccg gttcaccatc tccagagaca attccaagaa caccctgtat 240
ctgcaaatga acagcctgag agctgaggac acggctctgt tttactgtgc gagaggatac 300
gatgttttga ctggttaccc cgactactgg ggccaggga ccttggtcac cgtctctagt 360

<210> 367
<211> 360
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic polynucleotide

<400> 367
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tcctgtgcag cctctggatt caccttcagt agatttgcca tgcactgggt ccgccaggct 120
ccaggcaagg ggctggagtg ggtggcagtt atatcatata tcggaggaaa taaatactat 180
gcagagtccg tgaagggccg gttcaccatc tccagagaca attccaagaa caccctgtat 240
ctgcaaatga acagcctgag agctgaggac acggctctgt tttactgtgc gagaggatac 300
gatgttttga ctggttaccc cgactactgg ggccaggga ccttggtcac cgtctctagt 360

<210> 368
<211> 360
<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic polynucleotide

<400> 368

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tcctgtgcag	cctctggatt	caccttcagt	agatttgcca	tgactgggt	ccgccaggct	120
ccaggcaagg	ggctggagtg	ggtggcagtt	atatcatatc	agggaggaaa	taaatactat	180
gcagagtccg	tgaagggccg	gttcaccatc	tccagagaca	attccaagaa	caccctgtat	240
ctgcaaatga	acagcctgag	agctgaggac	acggctctgt	tttactgtgc	gagaggatac	300
gatgttttga	ctggttacct	cgactactgg	ggccaggga	ccctgggtcac	cgctcttagt	360

<210> 369

<211> 360

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic polynucleotide

<400> 369

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tcctgtgcag	cctctggatt	caccttcagt	agatttgcca	tgactgggt	ccgccaggct	120
ccaggcaagg	ggctggagtg	ggtggcagtt	atatcatatt	acggaggaaa	taaatactat	180
gcagagtccg	tgaagggccg	gttcaccatc	tccagagaca	attccaagaa	caccctgtat	240
ctgcaaatga	acagcctgag	agctgaggac	acggctctgt	tttactgtgc	gagaggatac	300
gatgttttga	ctggttacct	cgactactgg	ggccaggga	ccctgggtcac	cgctcttagt	360

<210> 370

<211> 360

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic polynucleotide

<400> 370
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tcctgtgcag cctctggatt caccttcagt agatttgcca tgcactgggt ccgccaggct 120
ccaggcaagg ggctggagtg ggtggcagtt atatcatatg atggacgcaa taaatactat 180
gcagagtccg tgaagggccg gttcaccatc tccagagaca attccaagaa caccctgtat 240
ctgcaaatga acagcctgag agctgaggac acggctctgt ttactgtgc gagaggatac 300
gatgttttga ctggttacct cgactactgg ggccaggga ccttggtcac cgtctctagt 360

<210> 371
<211> 360
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic polynucleotide

<400> 371
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tcctgtgcag cctctggatt caccttcagt agatttgcca tgcactgggt ccgccaggct 120
ccaggcaagg ggctggagtg ggtggcagtt atatcatatg atggaaacaa taaatactat 180
gcagagtccg tgaagggccg gttcaccatc tccagagaca attccaagaa caccctgtat 240
ctgcaaatga acagcctgag agctgaggac acggctctgt ttactgtgc gagaggatac 300
gatgttttga ctggttacct cgactactgg ggccaggga ccttggtcac cgtctctagt 360

<210> 372
<211> 360
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic polynucleotide

<400> 372
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tcctgtgcag cctctggatt caccttcagt agatttgcca tgcactgggt ccgccaggct 120

ccaggcaagg ggctggagtg ggtggcagtt atatcatatg atggaggaaa taaatactat	180
gcacgctccg tgaagggccg gttcaccatc tccagagaca attccaagaa caccctgtat	240
ctgcaaatga acagcctgag agctgaggac acggctctgt tttactgtgc gagaggatac	300
gatgttttga ctggttaccc cgactactgg ggccaggga ccttggtcac cgtctctagt	360

<210> 373
 <211> 360
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic polynucleotide

<400> 373	
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ccaggcaagg ggctggagtg ggtggcagtt atatcatatg atggaggaaa taaatactat	180
gcagagtccg tgaagggccg gttcaccatc tccagagaca attccaagaa caccctgtat	240
ctgcaaatga acagcctgag agctgaggac acggctctgt tttactgtgc gagaggatac	300
gatatcttga ctggttaccc cgactactgg ggccaggga ccttggtcac cgtctctagt	360

<210> 374
 <211> 360
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic polynucleotide

<400> 374	
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ccaggcaagg ggctggagtg ggtggcagtt atatcatata acggacgcaa taaatactat	180
gcagagtccg tgaagggccg gttcaccatc tccagagaca attccaagaa caccctgtat	240
ctgcaaatga acagcctgag agctgaggac acggctctgt tttactgtgc gagaggatac	300

gatgttttga ctggttaccc cgactactgg ggccagggaa ccctgggtcac cgtctctagt 360

<210> 375

<211> 360

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic polynucleotide

<400> 375

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tcctgtgcag cctctggatt caccttcagt agatttgcca tgcactgggt ccgccaggct 120

ccaggcaagg ggctggagtg ggtggcagtt atatcatata tcggacgcaa taaatactat 180

gcagagtccg tgaagggccg gttcaccatc tccagagaca attccaagaa caccctgtat 240

ctgcaaatga acagcctgag agctgaggac acggctctgt tttactgtgc gagaggatac 300

gatgttttga ctggttaccc cgactactgg ggccagggaa ccctgggtcac cgtctctagt 360

<210> 376

<211> 360

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic polynucleotide

<400> 376

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tcctgtgcag cctctggatt caccttcagt agatttgcca tgcactgggt ccgccaggct 120

ccaggcaagg ggctggagtg ggtggcagtt atatcatatc agggacgcaa taaatactat 180

gcagagtccg tgaagggccg gttcaccatc tccagagaca attccaagaa caccctgtat 240

ctgcaaatga acagcctgag agctgaggac acggctctgt tttactgtgc gagaggatac 300

gatgttttga ctggttaccc cgactactgg ggccagggaa ccctgggtcac cgtctctagt 360

<210> 377

<211> 360
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic polynucleotide

<400> 377
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tcctgtgcag cctctggatt caccttcagt agatttgcca tgcactgggt ccgccaggct 120
ccaggcaagg ggctggagtg ggtggcagtt atatcatatt acggacgcaa taaatactat 180
gcagagtccg tgaagggccg gttcaccatc tccagagaca attccaagaa caccctgtat 240
ctgcaaatga acagcctgag agctgaggac acggctctgt ttactgtgc gagaggatac 300
gatgttttga ctggttacct cgactactgg ggccaggga ccttggtcac cgtctctagt 360

<210> 378
<211> 360
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic polynucleotide

<400> 378
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tcctgtgcag cctctggatt caccttcagt agatttgcca tgcactgggt ccgccaggct 120
ccaggcaagg ggctggagtg ggtggcagtt atatcatata acggaaacaa taaatactat 180
gcagagtccg tgaagggccg gttcaccatc tccagagaca attccaagaa caccctgtat 240
ctgcaaatga acagcctgag agctgaggac acggctctgt ttactgtgc gagaggatac 300
gatgttttga ctggttacct cgactactgg ggccaggga ccttggtcac cgtctctagt 360

<210> 379
<211> 360
<212> DNA
<213> Artificial Sequence

<220>

<223> Synthetic polynucleotide

<400> 379

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tcctgtgcag cctctggatt caccttcagt agatttgcca tgcactgggt cgcaggct	120
ccaggcaagg ggctggagtg ggtggcagtt atatcatata tcggaaacaa taaatactat	180
gcagagtccg tgaagggccg gttcaccatc tccagagaca attccaagaa caccctgtat	240
ctgcaaatga acagcctgag agctgaggac acggctctgt ttactgtgc gagaggatac	300
gatgttttga ctggttacct cgactactgg ggccaggga cctgggtcac cgtctctagt	360

<210> 380

<211> 360

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic polynucleotide

<400> 380

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tcctgtgcag cctctggatt caccttcagt agatttgcca tgcactgggt cgcaggct	120
ccaggcaagg ggctggagtg ggtggcagtt atatcatatc agggaaacaa taaatactat	180
gcagagtccg tgaagggccg gttcaccatc tccagagaca attccaagaa caccctgtat	240
ctgcaaatga acagcctgag agctgaggac acggctctgt ttactgtgc gagaggatac	300
gatgttttga ctggttacct cgactactgg ggccaggga cctgggtcac cgtctctagt	360

<210> 381

<211> 360

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic polynucleotide

<400> 381

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tcctgtgcag cctctggatt caccttcagt agatttgcca tgcactgggt ccgccaggct	120
ccaggcaagg ggctggagtg ggtggcagtt atatcatatt acggaaacaa taaatactat	180
gcagagtccg tgaagggccg gttcaccatc tccagagaca attccaagaa caccctgtat	240
ctgcaaatga acagcctgag agctgaggac acggctctgt tttactgtgc gagaggatac	300
gatgttttga ctggttacct cgactactgg ggccaggga ccttggtcac cgtctctagt	360

<210> 382
 <211> 360
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic polynucleotide

<400> 382	
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tcctgtgcag cctctggatt caccttcagt agatttgcca tgcactgggt ccgccaggct	120
ccaggcaagg ggctggagtg ggtggcagtt atatcatata acggaggaaa taaatactat	180
gcacgctccg tgaagggccg gttcaccatc tccagagaca attccaagaa caccctgtat	240
ctgcaaatga acagcctgag agctgaggac acggctctgt tttactgtgc gagaggatac	300
gatgttttga ctggttacct cgactactgg ggccaggga ccttggtcac cgtctctagt	360

<210> 383
 <211> 360
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic polynucleotide

<400> 383	
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tcctgtgcag cctctggatt caccttcagt agatttgcca tgcactgggt ccgccaggct	120
ccaggcaagg ggctggagtg ggtggcagtt atatcatata tcggaggaaa taaatactat	180
gcacgctccg tgaagggccg gttcaccatc tccagagaca attccaagaa caccctgtat	240

ctgcaaatga acagcctgag agctgaggac acggctctgt tttactgtgc gagaggatac	300
gatgttttga ctggttaccc cgactactgg ggccagggaa ccctgggtcac cgtctctagt	360

<210> 384
 <211> 360
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic polynucleotide

<400> 384	
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tcctgtgcag cctctggatt caccttcagt agatttgcca tgcactgggt ccgccaggct	120
ccaggcaagg ggctggagtg ggtggcagtt atatcatatc agggaggaaa taaatactat	180
gcacgctccg tgaagggccg gttcaccatc tccagagaca attccaagaa caccctgtat	240
ctgcaaatga acagcctgag agctgaggac acggctctgt tttactgtgc gagaggatac	300
gatgttttga ctggttaccc cgactactgg ggccagggaa ccctgggtcac cgtctctagt	360

<210> 385
 <211> 360
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic polynucleotide

<400> 385	
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tcctgtgcag cctctggatt caccttcagt agatttgcca tgcactgggt ccgccaggct	120
ccaggcaagg ggctggagtg ggtggcagtt atatcatatt acggaggaaa taaatactat	180
gcacgctccg tgaagggccg gttcaccatc tccagagaca attccaagaa caccctgtat	240
ctgcaaatga acagcctgag agctgaggac acggctctgt tttactgtgc gagaggatac	300
gatgttttga ctggttaccc cgactactgg ggccagggaa ccctgggtcac cgtctctagt	360

<210> 386
 <211> 360
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic polynucleotide

<400> 386
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 ccaggcaagg ggctggagtg ggtggcagtt atatcatata acggaggaaa taaatactat 180
 gcagagtccg tgaagggccg gttcaccatc tccagagaca attccaagaa caccctgtat 240
 ctgcaaatga acagcctgag agctgaggac acggctctgt tttactgtgc gagaggatac 300
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<210> 387
 <211> 360
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic polynucleotide

<400> 387
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 ccaggcaagg ggctggagtg ggtggcagtt atatcatata tcggaggaaa taaatactat 180
 gcagagtccg tgaagggccg gttcaccatc tccagagaca attccaagaa caccctgtat 240
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 gatatcttga ctggttaccc cgactactgg ggccaggga ccttggtcac cgtctctagt 360

<210> 388
 <211> 360
 <212> DNA
 <213> Artificial Sequence

<220>

<223> Synthetic polynucleotide

<400> 388

cagggtgcagc	tggtggagtc	tgggggaggc	gtgggtccagc	ctgggagggtc	cctgcgactc	60
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ccaggcaagg	ggctggagtg	ggtggcagtt	atatcatatc	agggaggaaa	taaatactat	180
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ctgcaaatga	acagcctgag	agctgaggac	acggctctgt	tttactgtgc	gagaggatac	300
gatatcttga	ctggttacct	cgactactgg	ggccaggga	ccctgggtcac	cgctcttagt	360

<210> 389

<211> 360

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic polynucleotide

<400> 389

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tcctgtgcag	cctctggatt	caccttcagt	agatttgcca	tgactgggt	ccgccaggct	120
ccaggcaagg	ggctggagtg	ggtggcagtt	atatcatatt	acggaggaaa	taaatactat	180
gcagagtccg	tgaagggccg	gttcaccatc	tccagagaca	attccaagaa	caccctgtat	240
ctgcaaatga	acagcctgag	agctgaggac	acggctctgt	tttactgtgc	gagaggatac	300
gatatcttga	ctggttacct	cgactactgg	ggccaggga	ccctgggtcac	cgctcttagt	360

<210> 390

<211> 360

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic polynucleotide

<400> 390

caggtgcagc tgggtggagtc tgggggaggc gtggtccagc ctgggaggtc cctgcgactc	60
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ccaggcaagg ggctggagtg ggtggcagtt atatcatatg atggacgcaa taaatactat	180
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ctgcaaatga acagcctgag agctgaggac acggctctgt tttactgtgc gagaggatac	300
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<210> 391
 <211> 360
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic polynucleotide

<400> 391	
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ctgcaaatga acagcctgag agctgaggac acggctctgt tttactgtgc gagaggatac	300
gatgttttga ctggttaccc cgactactgg ggccaggga ccttggtcac cgtctctagt	360

<210> 392
 <211> 360
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic polynucleotide

<400> 392	
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gcagagtccg tgaagggccg gttcaccatc tccagagaca attccaagaa caccctgtat	240
ctgcaaatga acagcctgag agctgaggac acggctctgt tttactgtgc gagaggatac	300
gatatcttga ctggttaccc cgactactgg ggccagggaa ccctgggtcac cgtctctagt	360

<210> 393
 <211> 360
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic polynucleotide

<400> 393	
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ccaggcaagg ggctggagtg ggtggcagtt atatcatatg atggaaacaa taaatactat	180
gcagagtccg tgaagggccg gttcaccatc tccagagaca attccaagaa caccctgtat	240
ctgcaaatga acagcctgag agctgaggac acggctctgt tttactgtgc gagaggatac	300
gatatcttga ctggttaccc cgactactgg ggccagggaa ccctgggtcac cgtctctagt	360

<210> 394
 <211> 360
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic polynucleotide

<400> 394	
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ccaggcaagg ggctggagtg ggtggcagtt atatcatatg atggaggaaa taaatactat	180
gcacgctccg tgaagggccg gttcaccatc tccagagaca attccaagaa caccctgtat	240
ctgcaaatga acagcctgag agctgaggac acggctctgt tttactgtgc gagaggatac	300

gatatcttga ctggttaccc cgactactgg ggccagggaa ccctgggtcac cgtctctagt 360

<210> 395

<211> 360

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic polynucleotide

<400> 395

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gcacgctccg tgaagggccg gttcaccatc tccagagaca attccaagaa caccctgtat 240

ctgcaaatga acagcctgag agctgaggac acggctctgt tttactgtgc gagaggatac 300

gatgttttga ctggttaccc cgactactgg ggccagggaa ccctgggtcac cgtctctagt 360

<210> 396

<211> 360

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic polynucleotide

<400> 396

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ccaggcaagg ggctggagtg ggtggcagtt atatcatata tcggacgcaa taaatactat 180

gcacgctccg tgaagggccg gttcaccatc tccagagaca attccaagaa caccctgtat 240

ctgcaaatga acagcctgag agctgaggac acggctctgt tttactgtgc gagaggatac 300

gatgttttga ctggttaccc cgactactgg ggccagggaa ccctgggtcac cgtctctagt 360

<210> 397

<211> 360

<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic polynucleotide

<400> 397
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ccaggcaagg ggctggagtg ggtggcagtt atatcatatc agggacgcaa taaatactat 180
gcacgctccg tgaagggccg gttcaccatc tccagagaca attccaagaa caccctgtat 240
ctgcaaatga acagcctgag agctgaggac acggctctgt ttactgtgc gagaggatac 300
gatgttttga ctggttacct cgactactgg ggccaggga ccttggtcac cgtctctagt 360

<210> 398
<211> 360
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic polynucleotide

<400> 398
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ccaggcaagg ggctggagtg ggtggcagtt atatcatatt acggacgcaa taaatactat 180
gcacgctccg tgaagggccg gttcaccatc tccagagaca attccaagaa caccctgtat 240
ctgcaaatga acagcctgag agctgaggac acggctctgt ttactgtgc gagaggatac 300
gatgttttga ctggttacct cgactactgg ggccaggga ccttggtcac cgtctctagt 360

<210> 399
<211> 360
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic polynucleotide

<400> 399
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ccaggcaagg ggctggagtg ggtggcagtt atatcatata acggaaacaa taaatactat 180
gcacgctccg tgaagggccg gttcaccatc tccagagaca attccaagaa caccctgtat 240
ctgcaaatga acagcctgag agctgaggac acggctctgt tttactgtgc gagaggatac 300
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<210> 400
<211> 360
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic polynucleotide

<400> 400
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gcacgctccg tgaagggccg gttcaccatc tccagagaca attccaagaa caccctgtat 240
ctgcaaatga acagcctgag agctgaggac acggctctgt tttactgtgc gagaggatac 300
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<210> 401
<211> 360
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic polynucleotide

<400> 401
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ccaggcaagg ggctggagtg ggtggcagtt atatcatatc agggaaacaa taaatactat	180
gcacgctccg tgaagggccg gttcaccatc tccagagaca attccaagaa caccctgtat	240
ctgcaaatga acagcctgag agctgaggac acggctctgt tttactgtgc gagaggatac	300
gatgttttga ctggttaccc cgactactgg ggccagggaa ccctgggtcac cgtctctagt	360

<210> 402
 <211> 360
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic polynucleotide

<400> 402	
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ccaggcaagg ggctggagtg ggtggcagtt atatcatatt acggaaacaa taaatactat	180
gcacgctccg tgaagggccg gttcaccatc tccagagaca attccaagaa caccctgtat	240
ctgcaaatga acagcctgag agctgaggac acggctctgt tttactgtgc gagaggatac	300
gatgttttga ctggttaccc cgactactgg ggccagggaa ccctgggtcac cgtctctagt	360

<210> 403
 <211> 360
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic polynucleotide

<400> 403	
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ccaggcaagg ggctggagtg ggtggcagtt atatcatata acggacgcaa taaatactat	180
gcagagtccg tgaagggccg gttcaccatc tccagagaca attccaagaa caccctgtat	240

ctgcaaatga acagcctgag agctgaggac acggctctgt tttactgtgc gagaggatac	300
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<210> 404
 <211> 360
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic polynucleotide

<400> 404	
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ccaggcaagg ggctggagtg ggtggcagtt atatcatata tcggacgcaa taaatactat	180
gcagagtccg tgaagggccg gttcaccatc tccagagaca attccaagaa caccctgtat	240
ctgcaaatga acagcctgag agctgaggac acggctctgt tttactgtgc gagaggatac	300
gatatcttga ctggttaccc cgactactgg ggccagggaa ccctgggtcac cgtctctagt	360

<210> 405
 <211> 360
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic polynucleotide

<400> 405	
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ccaggcaagg ggctggagtg ggtggcagtt atatcatatc agggacgcaa taaatactat	180
gcagagtccg tgaagggccg gttcaccatc tccagagaca attccaagaa caccctgtat	240
ctgcaaatga acagcctgag agctgaggac acggctctgt tttactgtgc gagaggatac	300
gatatcttga ctggttaccc cgactactgg ggccagggaa ccctgggtcac cgtctctagt	360

<210> 406
<211> 360
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic polynucleotide

<400> 406
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ccaggcaagg ggctggagtg ggtggcagtt atatcatatt acggacgcaa taaatactat 180
gcagagtccg tgaagggccg gttcaccatc tccagagaca attccaagaa caccctgtat 240
ctgcaaatga acagcctgag agctgaggac acggctctgt ttactgtgc gagaggatac 300
gatatcttga ctggttacct cgactactgg ggccaggga ccttggtcac cgtctctagt 360

<210> 407
<211> 360
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic polynucleotide

<400> 407
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ccaggcaagg ggctggagtg ggtggcagtt atatcatata acggaaacaa taaatactat 180
gcagagtccg tgaagggccg gttcaccatc tccagagaca attccaagaa caccctgtat 240
ctgcaaatga acagcctgag agctgaggac acggctctgt ttactgtgc gagaggatac 300
gatatcttga ctggttacct cgactactgg ggccaggga ccttggtcac cgtctctagt 360

<210> 408
<211> 360
<212> DNA
<213> Artificial Sequence

<220>

<223> Synthetic polynucleotide

<400> 408

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ccaggcaagg	ggctggagtg	ggtggcagtt	atatcatata	tcggaaacaa	taaatactat	180
gcagagtccg	tgaagggccg	gttcaccatc	tccagagaca	attccaagaa	caccctgtat	240
ctgcaaatga	acagcctgag	agctgaggac	acggctctgt	tttactgtgc	gagaggatac	300
gatatcttga	ctggttaccc	cgactactgg	ggccaggga	ccctgggtcac	cgtctctagt	360

<210> 409

<211> 360

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic polynucleotide

<400> 409

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ccaggcaagg	ggctggagtg	ggtggcagtt	atatcatatc	agggaacaa	taaatactat	180
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ctgcaaatga	acagcctgag	agctgaggac	acggctctgt	tttactgtgc	gagaggatac	300
gatatcttga	ctggttaccc	cgactactgg	ggccaggga	ccctgggtcac	cgtctctagt	360

<210> 410

<211> 360

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic polynucleotide

<400> 410

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tcctgtgcag cctctggatt caccttcagt agatttgcca tgcactgggt ccgccaggct	120
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ctgcaaatga acagcctgag agctgaggac acggctctgt tttactgtgc gagaggatac	300
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<210> 411
 <211> 360
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic polynucleotide

<400> 411	
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ccaggcaagg ggctggagtg ggtggcagtt atatcatatg atggacgcaa taaatactat	180
gcacgctccg tgaagggccg gttcaccatc tccagagaca attccaagaa caccctgtat	240
ctgcaaatga acagcctgag agctgaggac acggctctgt tttactgtgc gagaggatac	300
gatatcttga ctggttacct cgactactgg ggccaggga ccttggtcac cgtctctagt	360

<210> 412
 <211> 360
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic polynucleotide

<400> 412	
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ccaggcaagg ggctggagtg ggtggcagtt atatcatatg atggaaacaa taaatactat	180

gcacgctccg tgaagggccg gttcaccatc tccagagaca attccaagaa caccctgtat	240
ctgcaaatga acagcctgag agctgaggac acggctctgt ttactgtgc gagaggatac	300
gatatcttga ctggttaccc cgactactgg ggccagggaa ccctgggtcac cgtctctagt	360

<210> 413
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 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic polynucleotide

<400> 413	
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ccaggcaagg ggctggagtg ggtggcagtt atatcatata acggacgcaa taaatactat	180
gcacgctccg tgaagggccg gttcaccatc tccagagaca attccaagaa caccctgtat	240
ctgcaaatga acagcctgag agctgaggac acggctctgt ttactgtgc gagaggatac	300
gatatcttga ctggttaccc cgactactgg ggccagggaa ccctgggtcac cgtctctagt	360

<210> 414
 <211> 360
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic polynucleotide

<400> 414	
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gcacgctccg tgaagggccg gttcaccatc tccagagaca attccaagaa caccctgtat	240
ctgcaaatga acagcctgag agctgaggac acggctctgt ttactgtgc gagaggatac	300
gatatcttga ctggttaccc cgactactgg ggccagggaa ccctgggtcac cgtctctagt	360

<210> 415
<211> 360
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic polynucleotide

<400> 415
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ctgcaaatga acagcctgag agctgaggac acggctctgt tttactgtgc gagaggatac 300
gatatcttga ctggttaccc cgactactgg ggccaggga ccttggtcac cgtctctagt 360

<210> 416
<211> 360
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic polynucleotide

<400> 416
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ctgcaaatga acagcctgag agctgaggac acggctctgt tttactgtgc gagaggatac 300
gatatcttga ctggttaccc cgactactgg ggccaggga ccttggtcac cgtctctagt 360

<210> 417
<211> 360
<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic polynucleotide

<400> 417

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ccaggcaagg ggctggagtg ggtggcagtt atatcatata acggaaacaa taaatactat	180
gcacgctccg tgaagggccg gttcaccatc tccagagaca attccaagaa caccctgtat	240
ctgcaaatga acagcctgag agctgaggac acggctctgt tttactgtgc gagaggatac	300
gatatcttga ctggttacct cgactactgg ggccaggga ccttggtcac cgtctctagt	360

<210> 418

<211> 360

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic polynucleotide

<400> 418

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tcctgtgcag cctctggatt caccttcagt agatttgcca tgcactgggt ccgccaggct	120
ccaggcaagg ggctggagtg ggtggcagtt atatcatata tcggaaacaa taaatactat	180
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ctgcaaatga acagcctgag agctgaggac acggctctgt tttactgtgc gagaggatac	300
gatatcttga ctggttacct cgactactgg ggccaggga ccttggtcac cgtctctagt	360

<210> 419

<211> 360

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic polynucleotide

<400> 419
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tcctgtgcag cctctggatt caccttcagt agatttgcca tgcactgggt ccgccaggct 120
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<210> 420
<211> 360
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic polynucleotide

<400> 420
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<210> 421
<211> 360
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic polynucleotide

<400> 421
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ccaggcaagg ggctggagtg ggtggcagtt atatcatatg atggaggaaa taaatactat	180
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ctgcaaatga acagcctgag agctgaggac acggctctgt tttactgtgc gagaggatac	300
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<210> 422
 <211> 360
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic polynucleotide

<400> 422	
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ctgcaaatga acagcctgag agctgaggac acggctctgt tttactgtgc gagaggatac	300
gatgttttga ctggttaccc cgactactgg ggccaggga ccttggtcac cgtctctagt	360

<210> 423
 <211> 360
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic polynucleotide

<400> 423	
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ccaggcaagg ggctggagtg ggtggcagtt atatcattcg atggaggaaa taaatactat	180
gcagagtccg tgaagggccg gttcaccatc tccagagaca attccaagaa caccctgtat	240
ctgcaaatga acagcctgag agctgaggac acggctctgt tttactgtgc gagaggatac	300

gatgttttga ctggttaccc cgactactgg ggccagggaa ccctgggtcac cgtctctagt 360

<210> 424

<211> 360

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic polynucleotide

<400> 424

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<210> 425

<211> 360

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic polynucleotide

<400> 425

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tcctgtgcag cctctggatt caccttcagt agatttgcca tgcactgggt ccgccaggct 120

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gcagagtccg tgaagggccg gttcaccatc tccagagaca attccaagaa caccctgtat 240

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gatttcttga ctggttaccc cgactactgg ggccagggaa ccctgggtcac cgtctctagt 360

<210> 426

<211> 360
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic polynucleotide

<400> 426
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ccaggcaagg ggctggagtg ggtggcagtt atatcatata acggaggaaa taaatactat 180
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<210> 427
<211> 360
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic polynucleotide

<400> 427
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ccaggcaagg ggctggagtg ggtggcagtt atatcatata acggaggaaa taaatactat 180
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ctgcaaatga acagcctgag agctgaggac acggctctgt ttactgtgc gagaggatac 300
gatgttttga ctggttacct cgactactgg ggccaggga ccttggtcac cgtctctagt 360

<210> 428
<211> 360
<212> DNA
<213> Artificial Sequence

<220>

<223> Synthetic polynucleotide

<400> 428

cagggtgcagc	tggtggagtc	tgggggaggc	gtgggtccagc	ctgggagggtc	cctgcgactc	60
tcctgtgcag	cctctggatt	caccttcagt	agatttgcca	tgactgggt	ccgccaggct	120
ccaggcaagg	ggctggagtg	ggtggcagtt	atatcattca	acggaggaaa	taaatactat	180
gcagagtccg	tgaagggccg	gttcaccatc	tccagagaca	attccaagaa	caccctgtat	240
ctgcaaatga	acagcctgag	agctgaggac	acggctctgt	tttactgtgc	gagaggatac	300
gatgttttga	ctggttaccc	cgactactgg	ggccagggaa	ccctgggtcac	cgtctctagt	360

<210> 429

<211> 360

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic polynucleotide

<400> 429

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tcctgtgcag	cctctggatt	caccttcagt	agatttgcca	tgactgggt	ccgccaggct	120
ccaggcaagg	ggctggagtg	ggtggcagtt	atatcatata	acggagccaa	taaatactat	180
gcagagtccg	tgaagggccg	gttcaccatc	tccagagaca	attccaagaa	caccctgtat	240
ctgcaaatga	acagcctgag	agctgaggac	acggctctgt	tttactgtgc	gagaggatac	300
gatgttttga	ctggttaccc	cgactactgg	ggccagggaa	ccctgggtcac	cgtctctagt	360

<210> 430

<211> 360

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic polynucleotide

<400> 430

cagggtgcagc	tggtggagtc	tgggggaggc	gtgggtccagc	ctgggagggtc	cctgcgactc	60
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tcctgtgcag cctctggatt caccttcagt agatttgcca tgcactgggt ccgccaggct	120
ccaggcaagg ggctggagtg ggtggcagtt atatcatata acggaggaaa taaatactat	180
gcagagtccg tgaagggccg gttcaccatc tccagagaca attccaagaa caccctgtat	240
ctgcaaatga acagcctgag agctgaggac acggctctgt tttactgtgc gagaggatac	300
gatttcttga ctggttacct cgactactgg ggccaggga ccttggtcac cgtctctagt	360

<210> 431
 <211> 360
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic polynucleotide

<400> 431	
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tcctgtgcag cctctggatt caccttcagt cactttgcca tgcactgggt ccgccaggct	120
ccaggcaagg ggctggagtg ggtggcagtt atatcatatg atggacgcaa taaatactat	180
gcagagtccg tgaagggccg gttcaccatc tccagagaca attccaagaa caccctgtat	240
ctgcaaatga acagcctgag agctgaggac acggctctgt tttactgtgc gagaggatac	300
gatgttttga ctggttacct cgactactgg ggccaggga ccttggtcac cgtctctagt	360

<210> 432
 <211> 360
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic polynucleotide

<400> 432	
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tcctgtgcag cctctggatt caccttcagt agatacgcca tgcactgggt ccgccaggct	120
ccaggcaagg ggctggagtg ggtggcagtt atatcatatg atggacgcaa taaatactat	180
gcagagtccg tgaagggccg gttcaccatc tccagagaca attccaagaa caccctgtat	240

ctgcaaatga acagcctgag agctgaggac acggctctgt tttactgtgc gagaggatac	300
gatgttttga ctggttaccc cgactactgg ggccagggaa ccctgggtcac cgtctctagt	360

<210> 433
 <211> 360
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic polynucleotide

<400> 433	
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ccaggcaagg ggctggagtg ggtggcagtt atatcattcg atggacgcaa taaatactat	180
gcagagtccg tgaagggccg gttcaccatc tccagagaca attccaagaa caccctgtat	240
ctgcaaatga acagcctgag agctgaggac acggctctgt tttactgtgc gagaggatac	300
gatgttttga ctggttaccc cgactactgg ggccagggaa ccctgggtcac cgtctctagt	360

<210> 434
 <211> 360
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic polynucleotide

<400> 434	
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tcctgtgcag cctctggatt caccttcagt agatttgcca tgcactgggt ccgccaggct	120
ccaggcaagg ggctggagtg ggtggcagtt atatcatatg atggacgcaa taaatactat	180
gcagagtccg tgaagggccg gttcaccatc tccagagaca attccaagaa caccctgtat	240
ctgcaaatga acagcctgag agctgaggac acggctctgt tttactgtgc gagaggatac	300
gatttcttga ctggttaccc cgactactgg ggccagggaa ccctgggtcac cgtctctagt	360

<210> 435
<211> 360
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic polynucleotide

<400> 435
caggtgcagc tgggtggagtc tgggggaggc gtgggtccagc ctgggagggtc cctgcgactc 60
tcctgtgcag cctctggatt caccttcagt cactttgcca tgcactgggt ccgccaggct 120
ccaggcaagg ggctggagtg ggtggcagtt atatcatatg atggaggaaa taaatactat 180
gcacgctccg tgaagggccg gttcaccatc tccagagaca attccaagaa caccctgtat 240
ctgcaaatga acagcctgag agctgaggac acggctctgt tttactgtgc gagaggatac 300
gatgttttga ctggttaccc cgactactgg ggccaggga ccttggtcac cgtctctagt 360

<210> 436
<211> 360
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic polynucleotide

<400> 436
caggtgcagc tgggtggagtc tgggggaggc gtgggtccagc ctgggagggtc cctgcgactc 60
tcctgtgcag cctctggatt caccttcagt agatacgcca tgcactgggt ccgccaggct 120
ccaggcaagg ggctggagtg ggtggcagtt atatcatatg atggaggaaa taaatactat 180
gcacgctccg tgaagggccg gttcaccatc tccagagaca attccaagaa caccctgtat 240
ctgcaaatga acagcctgag agctgaggac acggctctgt tttactgtgc gagaggatac 300
gatgttttga ctggttaccc cgactactgg ggccaggga ccttggtcac cgtctctagt 360

<210> 437
<211> 360
<212> DNA
<213> Artificial Sequence

<220>

<223> Synthetic polynucleotide

<400> 437

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tcctgtgcag	cctctggatt	caccttcagt	agatttgcca	tgactgggt	ccgccaggct	120
ccaggcaagg	ggctggagtg	ggtggcagtt	atatcattcg	atggaggaaa	taaatactat	180
gcacgctccg	tgaagggccg	gttcaccatc	tccagagaca	attccaagaa	caccctgtat	240
ctgcaaatga	acagcctgag	agctgaggac	acggctctgt	tttactgtgc	gagaggatac	300
gatgttttga	ctggttaccc	cgactactgg	ggccagggaa	ccctgggtcac	cgtctctagt	360

<210> 438

<211> 360

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic polynucleotide

<400> 438

cagggtgcagc	tggtggagtc	tgggggaggc	gtgggtccagc	ctgggagggtc	cctgcgactc	60
tcctgtgcag	cctctggatt	caccttcagt	agatttgcca	tgactgggt	ccgccaggct	120
ccaggcaagg	ggctggagtg	ggtggcagtt	atatcatatg	atggagccaa	taaatactat	180
gcacgctccg	tgaagggccg	gttcaccatc	tccagagaca	attccaagaa	caccctgtat	240
ctgcaaatga	acagcctgag	agctgaggac	acggctctgt	tttactgtgc	gagaggatac	300
gatgttttga	ctggttaccc	cgactactgg	ggccagggaa	ccctgggtcac	cgtctctagt	360

<210> 439

<211> 360

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic polynucleotide

<400> 439

caggtgcagc tgggtggagtc tgggggaggc gtggtccagc ctgggaggtc cctgcgactc	60
tcctgtgcag cctctggatt caccttcagt agatttgcca tgcactgggt ccgccaggct	120
ccaggcaagg ggctggagtg ggtggcagtt atatcatatg atggaggaaa taaatactat	180
gcacgctccg tgaagggccg gttcaccatc tccagagaca attccaagaa caccctgtat	240
ctgcaaatga acagcctgag agctgaggac acggctctgt tttactgtgc gagaggatac	300
gatttcttga ctggttaccc cgactactgg ggccagggaa ccctgggtcac cgtctctagt	360

<210> 440
 <211> 360
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic polynucleotide

<400> 440	
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tcctgtgcag cctctggatt caccttcagt cactttgcca tgcactgggt ccgccaggct	120
ccaggcaagg ggctggagtg ggtggcagtt atatcatatg atggaggaaa taaatactat	180
gcagagtccg tgaagggccg gttcaccatc tccagagaca attccaagaa caccctgtat	240
ctgcaaatga acagcctgag agctgaggac acggctctgt tttactgtgc gagaggatac	300
gatatcttga ctggttaccc cgactactgg ggccagggaa ccctgggtcac cgtctctagt	360

<210> 441
 <211> 360
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic polynucleotide

<400> 441	
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tcctgtgcag cctctggatt caccttcagt agatacgcca tgcactgggt ccgccaggct	120
ccaggcaagg ggctggagtg ggtggcagtt atatcatatg atggaggaaa taaatactat	180

gcagagtccg tgaagggccg gttcaccatc tccagagaca attccaagaa caccctgtat	240
ctgcaaatga acagcctgag agctgaggac acggctctgt tttactgtgc gagaggatac	300
gatatcttga ctggttaccc cgactactgg ggccagggaa ccctgggtcac cgtctctagt	360

<210> 442
 <211> 360
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic polynucleotide

<400> 442	
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tcctgtgcag cctctggatt caccttcagt agatttgcca tgcactgggt ccgccaggct	120
ccaggcaagg ggctggagtg ggtggcagtt atatcattcg atggaggaaa taaatactat	180
gcagagtccg tgaagggccg gttcaccatc tccagagaca attccaagaa caccctgtat	240
ctgcaaatga acagcctgag agctgaggac acggctctgt tttactgtgc gagaggatac	300
gatatcttga ctggttaccc cgactactgg ggccagggaa ccctgggtcac cgtctctagt	360

<210> 443
 <211> 360
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic polynucleotide

<400> 443	
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tcctgtgcag cctctggatt caccttcagt agatttgcca tgcactgggt ccgccaggct	120
ccaggcaagg ggctggagtg ggtggcagtt atatcatatg atggagccaa taaatactat	180
gcagagtccg tgaagggccg gttcaccatc tccagagaca attccaagaa caccctgtat	240
ctgcaaatga acagcctgag agctgaggac acggctctgt tttactgtgc gagaggatac	300

gatatcttga ctggttaccc cgactactgg ggccagggaa ccctgggtcac cgtctctagt 360

<210> 444

<211> 360

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic polynucleotide

<400> 444

cagggtgcagc tgggtggagtc tgggggaggc gtggtccagc ctgggaggtc cctgcgactc 60

tcctgtgcag cctctggatt caccttcagt aagtacgcca tgcactgggt ccgccaggct 120

ccaggcaagg ggctggagtg ggtggcagtt atatcattca aggggaagcaa taaatactat 180

gcagagtccg tgaagggccg gttcaccatc tccagagaca attccaagaa caccctgtat 240

ctgcaaatga acagcctgag agctgaggac acggctctgt tttactgtgc gagaggatac 300

gatctgttga ctggttaccc cgactactgg ggccagggaa ccctgggtcac cgtctctagt 360

<210> 445

<211> 360

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic polynucleotide

<400> 445

cagggtgcagc tgggtggagtc tgggggaggc gtggtccagc ctgggaggtc cctgcgactc 60

tcctgtgcag cctctggatt caccttcagt agatacgcca tgcactgggt ccgccaggct 120

ccaggcaagg ggctggagtg ggtggcagtt atatcatatc agggaggaaa taaatactat 180

gcagagtccg tgaagggccg gttcaccatc tccagagaca attccaagaa caccctgtat 240

ctgcaaatga acagcctgag agctgaggac acggctctgt tttactgtgc gagaggatac 300

gatctgttga ctggttaccc cgactactgg ggccagggaa ccctgggtcac cgtctctagt 360

<210> 446

<211> 360

<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic polynucleotide

<400> 446
caggtgcagc tgggtggagtc tgggggaggc gtgggtccagc ctgggaggtc cctgcgactc 60
tcctgtgcag cctctggatt caccttcagt cactttgcc a tgactgggt ccgccaggct 120
ccaggcaagg ggctggagtg ggtggcagtt atatcattca gcggaagcaa taaatactat 180
gcagagtccg tgaagggccg gttcaccatc tccagagaca attccaagaa caccctgtat 240
ctgcaaatga acagcctgag agctgaggac acggctctgt tttactgtgc gagaggatac 300
gatatgttga ctggttaccc cgactactgg ggccaggga cccctgggtcac cgtctctagt 360

<210> 447
<211> 360
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic polynucleotide

<400> 447
caggtgcagc tgggtggagtc tgggggaggc gtgggtccagc ctgggaggtc cctgcgactc 60
tcctgtgcag cctctggatt caccttcagt aagtttgcca tgactgggt ccgccaggct 120
ccaggcaagg ggctggagtg ggtggcagtt atatcatatc gcggaggaaa taaatactat 180
gcagagtccg tgaagggccg gttcaccatc tccagagaca attccaagaa caccctgtat 240
ctgcaaatga acagcctgag agctgaggac acggctctgt tttactgtgc gagaggatac 300
gatctgttga ctggttaccc cgactactgg ggccaggga cccctgggtcac cgtctctagt 360

<210> 448
<211> 360
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic polynucleotide

<400> 448
caggtgcagc tgggtggagtc tgggggaggc gtggtccagc ctgggaggtc cctgcgactc 60
tcctgtgcag cctctggatt caccttcagt agatacgcca tgcactgggt ccgccaggct 120
ccaggcaagg ggctggagtg ggtggcagtt atatcatata gcggagccaa taaatactat 180
gcagagtccg tgaagggccg gttcaccatc tccagagaca attccaagaa caccctgtat 240
ctgcaaatga acagcctgag agctgaggac acggctctgt ttactgtgc gagaggatac 300
gatctgttga gcggttacct cgactactgg ggccaggga ccttggtcac cgtctctagt 360

<210> 449
<211> 360
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic polynucleotide

<400> 449
caggtgcagc tgggtggagtc tgggggaggc gtggtccagc ctgggaggtc cctgcgactc 60
tcctgtgcag cctctggatt caccttcagt cactacgcca tgcactgggt ccgccaggct 120
ccaggcaagg ggctggagtg ggtggcagtt atatcattca agggagccaa taaatactat 180
gcagagtccg tgaagggccg gttcaccatc tccagagaca attccaagaa caccctgtat 240
ctgcaaatga acagcctgag agctgaggac acggctctgt ttactgtgc gagaggatac 300
gatctgttga ctggttacct cgactactgg ggccaggga ccttggtcac cgtctctagt 360

<210> 450
<211> 360
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic polynucleotide

<400> 450
caggtgcagc tgggtggagtc tgggggaggc gtggtccagc ctgggaggtc cctgcgactc 60
tcctgtgcag cctctggatt caccttcagt cactacgcca tgcactgggt ccgccaggct 120

ccaggcaagg ggctggagtg ggtggcagtt atatcatatc gcggagccaa taaatactat	180
gcagagtccg tgaagggccg gttcaccatc tccagagaca attccaagaa caccctgtat	240
ctgcaaatga acagcctgag agctgaggac acggctctgt tttactgtgc gagaggatac	300
gatctgttga ctggttaccc cgactactgg ggccagggaa ccctgggtcac cgtctctagt	360

<210> 451
 <211> 360
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic polynucleotide

<400> 451	
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tcctgtgcag cctctggatt caccttcagt cactacgcca tgcactgggt ccgccaggct	120
ccaggcaagg ggctggagtg ggtggcagtt atatcattct acggaagcaa taaatactat	180
gcagagtccg tgaagggccg gttcaccatc tccagagaca attccaagaa caccctgtat	240
ctgcaaatga acagcctgag agctgaggac acggctctgt tttactgtgc gagaggatac	300
gatttcttga ctggttaccc cgactactgg ggccagggaa ccctgggtcac cgtctctagt	360

<210> 452
 <211> 360
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic polynucleotide

<400> 452	
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tcctgtgcag cctctggatt caccttcagt cactttgcc a tgcactgggt ccgccaggct	120
ccaggcaagg ggctggagtg ggtggcagtt atatcattct tcggaggaaa taaatactat	180
gcagagtccg tgaagggccg gttcaccatc tccagagaca attccaagaa caccctgtat	240

ctgcaaatga acagcctgag agctgaggac acggctctgt tttactgtgc gagaggatac	300
gattttcttga ctggttaccc cgactactgg ggccagggaa ccctgggtcac cgtctctagt	360

<210> 453
 <211> 360
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic polynucleotide

<400> 453	
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tcctgtgcag cctctggatt caccttcagt cactacgcca tgcactgggt ccgccaggct	120
ccaggcaagg ggctggagtg ggtggcagtt atatcattca tgggaaccaa taaatactat	180
gcagagtccg tgaagggccg gttcaccatc tccagagaca attccaagaa caccctgtat	240
ctgcaaatga acagcctgag agctgaggac acggctctgt tttactgtgc gagaggatac	300
gattttcttga ctggttaccc cgactactgg ggccagggaa ccctgggtcac cgtctctagt	360

<210> 454
 <211> 360
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic polynucleotide

<400> 454	
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tcctgtgcag cctctggatt caccttcagt tactttgcca tgcactgggt ccgccaggct	120
ccaggcaagg ggctggagtg ggtggcagtt atatcacacc gcggaaccaa taaatactat	180
gcagagtccg tgaagggccg gttcaccatc tccagagaca attccaagaa caccctgtat	240
ctgcaaatga acagcctgag agctgaggac acggctctgt tttactgtgc gagaggatac	300
gatctgttga gcggttaccc cgactactgg ggccagggaa ccctgggtcac cgtctctagt	360

<210> 455
 <211> 360
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic polynucleotide

<400> 455
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 tcctgtgcag cctctggatt caccttcagt agatttgcca tgcactgggt ccgccaggct 120
 ccaggcaagg ggctggagtg ggtgggtggt atcaactatc gtggacatgg taaatactat 180
 gcagagtccg tgaagggccg gttcacctg tccagagaca attccaagaa caccctgtat 240
 ctgcaaatga acagcctgag agctgaggac acggctctgt ttactgtgc gagaggatac 300
 gatgttttga ctggttacct cgactactgg ggccaggga ccctgggtcac cgtgtctagt 360

<210> 456
 <211> 360
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic polynucleotide

<400> 456
 caggtgcagc tgggtggagtc tgggggaggc gtggtccagc ctgggaggtc cctgcgactc 60
 tcctgtgcag cctctggatt caccttcagt agatttgcca tgcactgggt ccgccaggct 120
 ccaggcaagg ggctggagtg ggtgggtggt atatcttttt ctggagggttc taaatactat 180
 gcagagtccg tgaagggccg gttcaccttg tccagagaca attccaagaa caccctgtat 240
 ctgcaaatga acagcctgag agctgaggac acggctctgt ttactgtgc gagaggatac 300
 gatgttttga ctggttacct cgactactgg ggccaggga ccctgggtcac cgtgtctagt 360

<210> 457
 <211> 360
 <212> DNA
 <213> Artificial Sequence

<220>

<223> Synthetic polynucleotide

<400> 457

cagggtgcagc	tggtggagtc	tgggggaggc	gtgggtccagc	ctgggagggtc	cctgcgactc	60
tcctgtgcag	cctctggatt	caccttcagt	agatttgcca	tgactgggt	ccgccaggct	120
ccaggcaagg	ggctggagtg	ggtgggtgtt	atctcttata	ctggacagtt	caaatactat	180
gcagagtccg	tgaagggccg	gttcaccgtg	tccagagaca	attccaagaa	caccctgtat	240
ctgcaaatga	acagcctgag	agctgaggac	acggctctgt	tttactgtgc	gagaggatac	300
gatgttttga	ctggttaccc	cgactactgg	ggccagggaa	ccctgggtcac	cgtgtctagt	360

<210> 458

<211> 360

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic polynucleotide

<400> 458

cagggtgcagc	tggtggagtc	tgggggaggc	gtgggtccagc	ctgggagggtc	cctgcgactc	60
tcctgtgcag	cctctggatt	caccttcagt	agatttgcca	tgactgggt	ccgccaggct	120
ccaggcaagg	ggctggagtg	ggtgggtgtt	atatcttata	ctggagctca	gaaatactat	180
gcagagtccg	tgaagggccg	gttcaccatg	tccagagaca	attccaagaa	caccctgtat	240
ctgcaaatga	acagcctgag	agctgaggac	acggctctgt	tttactgtgc	gagaggatac	300
gatgttttga	ctggttaccc	cgactactgg	ggccagggaa	ccctgggtcac	cgtgtctagt	360

<210> 459

<211> 360

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic polynucleotide

<400> 459

cagggtgcagc	tggtggagtc	tgggggaggc	gtgggtccagc	ctgggagggtc	cctgcgactc	60
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tcctgtgcag cctctggatt caccttcagt agatttgcca tgcactgggt ccgccaggct	120
ccaggcaagg ggctggagtg ggtgggtgtt atatcttatt ctggagcttc taaatactat	180
gcagagtccg tgaagggccg gttcaccatg tccagagaca attccaagaa caccctgtat	240
ctgcaaatga acagcctgag agctgaggac acggctctgt tttactgtgc gagaggatac	300
gatgttttga ctggttacct cgactactgg ggccaggga ccttggtcac cgtgtctagt	360

<210> 460
 <211> 360
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic polynucleotide

<400> 460	
caggtgcagc tgggtggagtc tgggggaggc gtggtccagc ctgggaggtc cctgcgactc	60
tcctgtgcag cctctggatt caccttcagt agatttgcca tgcactgggt ccgccaggct	120
ccaggcaagg ggctggagtg ggtggctgtt atatcttatt ctggagcttt caaatactat	180
gcagagtccg tgaagggccg gttcaccgtg tccagagaca attccaagaa caccctgtat	240
ctgcaaatga acagcctgag agctgaggac acggctctgt tttactgtgc gagaggatac	300
gatgttttga ctggttacct cgactactgg ggccaggga ccttggtcac cgtgtctagt	360

<210> 461
 <211> 360
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic polynucleotide

<400> 461	
caggtgcagc tgggtggagtc tgggggaggc gtggtccagc ctgggaggtc cctgcgactc	60
tcctgtgcag cctctggatt caccttcagt agatttgcca tgcactgggt ccgccaggct	120
ccaggcaagg ggctggagtg ggtgggtgtt ataacttata ctggaggtgc taaatactat	180

gcagagtccg tgaagggccg gttcaccatc tccagagaca attccaagaa caccctgtat	240
ctgcaaatga acagcctgag agctgaggac acggctctgt ttactgtgc gagaggatac	300
gatgttttga ctggttacct cgactactgg ggccagggaa ccctgggtcac cgtgtctagt	360

<210> 462
 <211> 360
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic polynucleotide

<400> 462	
caggtgcagc tgggtggagtc tgggggaggc gtgggtccagc ctgggaggtc cctgcgactc	60
tcctgtgcag cctctggatt caccttcagt agatttgcca tgcactgggt ccgccaggct	120
ccaggcaagg ggctggagtg ggtgggtgtt atcaactttc aggggaactac taaatactat	180
gcagagtccg tgaagggccg gttcaccatc tccagagaca attccaagaa caccctgtat	240
ctgcaaatga acagcctgag agctgaggac acggctctgt ttactgtgc gagaggatac	300
gatgttttga ctggttacct cgactactgg ggccagggaa ccctgggtcac cgtgtctagt	360

<210> 463
 <211> 360
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic polynucleotide

<400> 463	
caggtgcagc tgggtggagtc tgggggaggc gtgggtccagc ctgggaggtc cctgcgactc	60
tcctgtgcag cctctggatt caccttcagt agatttgcca tgcactgggt ccgccaggct	120
ccaggcaagg ggctggagtg ggtgggtgtt atatcttatt ctggagatct gaaatactat	180
gcagagtccg tgaagggccg gttcaccgtg tccagagaca attccaagaa caccctgtat	240
ctgcaaatga acagcctgag agctgaggac acggctctgt ttactgtgc gagaggatac	300
gatgttttga ctggttacct cgactactgg ggccagggaa ccctgggtcac cgtgtctagt	360

<210> 464
<211> 360
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic polynucleotide

<400> 464
cagggtgcagc tgggtggagtc tgggggaggc gtgggtccagc ctgggagggtc cctgcgactc 60
tcctgtgcag cctctggatt caccttcagt agatttgcca tgcactgggt ccgccaggct 120
ccaggcaagg ggctggagtg ggtgggtgtt atcaactatt tcggagacgc taaatactat 180
gcagagtccg tgaagggccg gttcaccatc tccagagaca attccaagaa caccctgtat 240
ctgcaaatga acagcctgag agctgaggac acggctctgt tttactgtgc gagaggatac 300
gatgttttga ctggttaccc cgactactgg ggccaggga ccttggtcac cgtgtctagt 360

<210> 465
<211> 360
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic polynucleotide

<400> 465
cagggtgcagc tgggtggagtc tgggggaggc gtgggtccagc ctgggagggtc cctgagactc 60
tcctgtgcag cctctggatt caccttcagt ttctacgcca tgcactgggt ccgccaggct 120
ccaggcaagg ggctggagtg ggtggcagtt atctcatctt tcggaagtaa taaatactat 180
gcagagtccg tgaagggccg gttcaccatc tccagagaca attccaagaa caccctgtat 240
ctgcaaatga acagcctgag agctgaggac acggctctgt tttactgtgc gagaggatac 300
gatctgctga ctggttaccc cgactactgg ggccaggga ccttggtcac cgtgtctagt 360

<210> 466
<211> 360
<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic polynucleotide

<400> 466

caggtgcagc	tggtggagtc	tgggggaggc	gtggtccagc	ctgggaggtc	cctgcgactc	60
tcctgtgcag	cctctggatt	caccttcagt	tactacgcca	tgactgggt	ccgccaggct	120
ccaggcaagg	ggctggagtg	ggtggcagtt	atctcatact	ctggaagtaa	taaatactat	180
gcagagtccg	tgaagggccg	gttcaccatc	tccagagaca	attccaagaa	caccctgtat	240
ctgcaaatga	acagcctgag	agctgaggac	acggctctgt	tttactgtgc	gagaggatac	300
gatctgctga	ctggttacct	cgactactgg	ggccaggga	ccctgggtcac	cgtgtctagt	360

<210> 467

<211> 360

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic polynucleotide

<400> 467

caggtgcagc	tggtggagtc	tgggggaggc	gtggtccagc	ctgggaggtc	cctgcgactc	60
tcctgtgcag	cctctggatt	caccttcagt	tactacgcca	tgactgggt	ccgccaggct	120
ccaggcaagg	ggctggagtg	ggtggcagtt	atctcacatt	acggaactaa	taaatactat	180
gcagagtccg	tgaagggccg	gttcaccatc	tccagagaca	attccaagaa	caccctgtat	240
ctgcaaatga	acagcctgag	agctgaggac	acggctctgt	tttactgtgc	gagaggatac	300
gatcctctga	ctggttacct	cgactactgg	ggccaggga	ccctgggtcac	cgtgtctagt	360

<210> 468

<211> 360

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic polynucleotide

<400> 468
caggtgcagc tgggtggagtc tgggggaggc gtggtccagc ctgggaggtc cctgcgactc 60
tcctgtgcag cctctggatt caccttcagt cattacgcca tgcactgggt ccgccaggct 120
ccaggcaagg ggctggagtg ggtggcagtt atctcatacc aggggaagtaa taaatactat 180
gcagagtccg tgaagggccg gttcaccatc tccagagaca attccaagaa caccctgtat 240
ctgcaaatga acagcctgag agctgaggac acggctctgt ttactgtgc gagaggatac 300
gatctgctga ctggttaccc cgactactgg ggccaggga ccttggtcac cgtgtctagt 360

<210> 469
<211> 370
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic polynucleotide

<400> 469
caggtacagc tgcagcagtc aggtccagga ctggtgaagc cctcgagac cctctcactc 60
acctgtgcca tctccgggga cagtgtctct agcaacagtg ctacttgga ctggatcagg 120
cagtccccat cgagaggcct tgagtggctg ggaaggacat attacaggtc caagtggctc 180
aatcattatg cagtatctgt gaaaagtcga ataaccatca accccgacac gtccaagagc 240
cagttctccc tgcagctgaa ctctgtgact cccgaggaca cggctgtgta ttactgtgca 300
agaggaacgt ggaaacagct atggttcctt gaccactggg gccagggaac cctggtcacc 360
gtctctagt 370

<210> 470
<211> 369
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic polynucleotide

<400> 470
caggtacagc tgcagcagtc aggtccagga ctggtgaagc cctcgagac cctctcactc 60

acctgtgcc	tctccgggga	cagtgtctct	aaccgtctgg	ctacttggaa	ctggatcagg	120
cagtcccat	cgagaggcct	tgagtggctg	ggaaggacat	actacagggg	taaatggaaa	180
aatcattatg	cagtatctgt	gaaaagtcga	ataaccatca	accccgacac	gtccaagagc	240
cagttctccc	tgagctgaa	ctctgtgact	cccgaggaca	cggctgtgta	ttactgtgca	300
agaggaactt	ggaaccagga	ctggttcctg	gaccactggg	gccaggggaa	cctggtcacc	360
gtctctagt						369

<210> 471
 <211> 369
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic polynucleotide

<400> 471	
caggtacagc	60
tgagcagtc	
aggtccagga	
ctggatgaagc	
cctcgagac	
cctctcactc	
acctgtgcc	120
tctccgggga	
cagtgtctct	
aaccgtctgg	
ctacttggaa	
ctggatcagg	
cagtcccat	180
cgagaggcct	
tgagtggctg	
ggaaggacat	
actacagggg	
taaatggaaa	
aatcattatg	240
cagtatctgt	
gaaaagtcga	
ataaccatca	
accccgacac	
gtccaagagc	
cagttctccc	300
tgagctgaa	
ctctgtgact	
cccgaggaca	
cggctgtgta	
ttactgtgca	
agaggaactt	360
gggaccagga	
ctggttcctg	
gaccactggg	
gccaggggaa	
cctggtcacc	
gtctctagt	369

<210> 472
 <211> 369
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic polynucleotide

<400> 472	
caggtacagc	60
tgagcagtc	
aggtccagga	
ctggatgaagc	
cctcgagac	
cctctcactc	
acctgtgcc	120
tctccgggga	
cagtgtctct	
tctcgtcagg	
ctacttggaa	
ctggatcagg	

cagtcccat cgagaggcct tgagtggctg ggaaggacat actacagggg taaatggaaa	180
aatcattatg cagtatctgt gaaaagtcga ataaccatca accccgacac gtccaagagc	240
cagttctccc tgcagctgaa ctctgtgact cccgaggaca cggctgtgta ttactgtgca	300
agaggaactt gggaacagga ctgggttcctg gaccactggg gccaggggaac cctggtcacc	360
gtctctagt	369

<210> 473
 <211> 369
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic polynucleotide

<400> 473	
caggtacagc tgcagcagtc aggtccagga ctgggtgaagc cctcgagac cctctcactc	60
acctgtgcca tctccgggga cagtgtctct aacaaacagg ctacttggaa ctggatcagg	120
cagtcccat cgagaggcct tgagtggctg ggaaggacat actacagggg taaatggaaa	180
aatcattatg cagtatctgt gaaaagtcga ataaccatca accccgacac gtccaagagc	240
cagttctccc tgcagctgaa ctctgtgact cccgaggaca cggctgtgta ttactgtgca	300
agaggaatgt ggaaccagaa ctgggttcctg gaccactggg gccaggggaac cctggtcacc	360
gtctctagt	369

<210> 474
 <211> 369
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic polynucleotide

<400> 474	
caggtacagc tgcagcagtc aggtccagga ctgggtgaagc cctcgagac cctctcactc	60
acctgtgcca tctccgggga cagtgtctct aacaaacagg ctacttggaa ctggatcagg	120

cagtcccat	cgagaggcct	tgagtggctg	ggaaggacat	actacagggg	tcagtggaaa	180
aatcattatg	cagtatctgt	gaaaagtcga	ataaccatca	accccgacac	gtccaagagc	240
cagttctccc	tgacagtgaa	ctctgtgact	cccgaggaca	cggctgtgta	ttactgtgca	300
agaggaactt	ggatcgggtga	ctggttcatg	gaccactggg	gccagggaac	cctggtcacc	360
gtctctagt						369

<210> 475
 <211> 369
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic polynucleotide

<400> 475	
caggtagc	60
acctgtgcca	120
cagtcccat	180
aatcattatg	240
cagttctccc	300
agaggaactt	360
gtctctagt	369

<210> 476
 <211> 369
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic polynucleotide

<400> 476	
caggtagc	60
acctgtgcca	120
cagtcccat	180

aatcattatg cagtatctgt gaaaagtcga ataaccatca accccgacac gtccaagagc	240
cagttctccc tgcagctgaa ctctgtgact cccgaggaca cggctgtgta ttactgtgca	300
agaggaactt gggaccagga ctggttcctg gaccactggg gccagggaac cctggtcacc	360
gtctctagt	369

<210> 477
 <211> 369
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic polynucleotide

<400> 477	
caggtagcagc tgcagcagtc aggtccagga ctggtgaagc cctcgcagac cctctcactc	60
acctgtgcca tctccgggga cagtgtctct tctcgttacg ctacttggaa ctggatcagg	120
cagtcccatat cgagaggcct tgagtggctg ggaaggacat actacagggg tcagtggaaa	180
aatcattatg cagtatctgt gaaaagtcga ataaccatca accccgacac gtccaagagc	240
cagttctccc tgcagctgaa ctctgtgact cccgaggaca cggctgtgta ttactgtgca	300
agaggaatgt ggaaccagaa ctggttcctg gaccactggg gccagggaac cctggtcacc	360
gtctctagt	369

<210> 478
 <211> 369
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic polynucleotide

<400> 478	
caggtagcagc tgcagcagtc aggtccagga ctggtgaagc cctcgcagac cctctcactc	60
acctgtgcca tctccgggga cagtgtctct aacaaacagg ctacttggaa ctggatcagg	120
cagtcccatat cgagaggcct tgagtggctg ggaaggacat actacagggg taaatggaaa	180

aatcattatg cagtatctgt gaaaagtcga ataaccatca accccgacac gtccaagagc	240
cagttctccc tgcagctgaa ctctgtgact cccgaggaca cggctgtgta ttactgtgca	300
agaggaatgt ggtctgggtga ctggttcctg gaccactggg gccagggaac cctggtcacc	360
gtctctagt	369

<210> 479
 <211> 369
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic polynucleotide

<400> 479	
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acctgtgcca tctccgggga cagtgtctct tctcatgttg ctacttggaa ctggatcagg	120
cagtcccat cgagaggcct tgagtggctg ggaaggacat actacagggg taaatggaaa	180
aatcattatg cagtatctgt gaaaagtcga ataaccatca accccgacac gtccaagagc	240
cagttctccc tgcagctgaa ctctgtgact cccgaggaca cggctgtgta ttactgtgca	300
agaggaatgt ggtctgaaga ctggttcctg gaccactggg gccagggaac cctggtcacc	360
gtctctagt	369

<210> 480
 <211> 369
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic polynucleotide

<400> 480	
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acctgtgcca tctccgggga cagtgtctct tctcgtcagg ctacttggaa ctggatcagg	120
cagtcccat cgagaggcct tgagtggctg ggaaggacat actacagggg taaatggaaa	180
aatcattatg cagtatctgt gaaaagtcga ataaccatca accccgacac gtccaagagc	240

cagttctccc tgcagctgaa ctctgtgact cccgaggaca cggctgtgta ttactgtgca	300
agaggaatgt ggcagggtaa ctggttcctg gaccactggg gccagggaac cctggtcacc	360
gtctctagt	369

<210> 481
 <211> 369
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic polynucleotide

<400> 481	
caggtacagc tgcagcagtc aggtccagga ctggtgaagc cctcgagac cctctcactc	60
acctgtgcca tctccgggga cagtgtctct aaccatcagg ctacttggaa ctggatcagg	120
cagtcccat cgagaggcct tgagtggctg ggaaggacat actacagggg taaatggaaa	180
aatcattatg cagtatctgt gaaaagtcga ataaccatca accccgacac gtccaagagc	240
cagttctccc tgcagctgaa ctctgtgact cccgaggaca cggctgtgta ttactgtgca	300
agaggaactt ggatccagga ctggttcctg gaccactggg gccagggaac cctggtcacc	360
gtctctagt	369

<210> 482
 <211> 369
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic polynucleotide

<400> 482	
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acctgtgcca tctccgggga cagtgtctct tctcgtgacg ctacttggaa ctggatcagg	120
cagtcccat cgagaggcct tgagtggctg ggaaggacat actacagggg taaatggaaa	180
aatcattatg cagtatctgt gaaaagtcga ataaccatca accccgacac gtccaagagc	240

cagttctccc tgcagctgaa ctctgtgact cccgaggaca cggctgtgta ttactgtgca	300
agaggacagt ggaacgaaga ctggttcctg gaccactggg gccagggaac cctggtcacc	360
gtctctagt	369

<210> 483
 <211> 369
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic polynucleotide

<400> 483	
caggtacagc tgcagcagtc aggtccagga ctggtgaagc cctcgagac cctctcactc	60
acctgtgcca tctccgggga cagtgtctct aaccgtctgg ctacttggaa ctggatcagg	120
cagtcccat cgagaggcct tgagtggctg ggaaggacat actacagggg taaatggaaa	180
aatcattatg cagtatctgt gaaaagtcga ataaccatca accccgacac gtccaagagc	240
cagttctccc tgcagctgaa ctctgtgact cccgaggaca cggctgtgta ttactgtgca	300
agaggacgtt gggaagggtga ctggttcttc gaccactggg gccagggaac cctggtcacc	360
gtctctagt	369

<210> 484
 <211> 369
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic polynucleotide

<400> 484	
caggtacagc tgcagcagtc aggtccagga ctggtgaagc cctcgagac cctctcactc	60
acctgtgcca tctccgggga cagtgtctct aacaaacagg ctacttggaa ctggatcagg	120
cagtcccat cgagaggcct tgagtggctg ggaaggacat acttcaggcg tacttggaaa	180
aatcattatg cagtatctgt gaaaagtcga ataaccatca accccgacac gtccaagagc	240
cagttctccc tgcagctgaa ctctgtgact cccgaggaca cggctgtgta ttactgtgca	300

agaggaatgt ggtctgaaga ctggttcctg gaccactggg gccagggaac cctggtcacc 360
gtctctagt 369

<210> 485
<211> 369
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic polynucleotide

<400> 485
caggtagcagc tgcagcagtc aggtccagga ctggtgaagc cctcgagac cctctcactc 60
acctgtgcca tctccgggga cagtgtctct aaccgtctgg ctacttgga ctggatcagg 120
cagtcctccat cgagaggcct tgagtggctg ggaaggacat actacagggg taaatggaaa 180
aatcattatg cagtatctgt gaaaagtcga ataaccatca accccgacac gtccaagagc 240
cagttctccc tgcagctgaa ctctgtgact cccgaggaca cggctgtgta ttactgtgca 300
agaggagttt ggatcggtaa ctggttcctg gaccactggg gccagggaac cctggtcacc 360
gtctctagt 369

<210> 486
<211> 22
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<400> 486

Met Asp Met Arg Val Pro Ala Gln Leu Leu Gly Leu Leu Leu Leu Trp
1 5 10 15

Leu Arg Gly Ala Arg Cys
20

<210> 487

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

<220>
<223> Synthetic polypeptide

<400> 487

Met	Ala	Trp	Ala	Leu	Leu	Leu	Leu	Thr	Leu	Leu	Thr	Gln	Gly	Thr	Gly
1				5					10					15	

Ser Trp Ala

<210> 488
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<400> 488

Met	Thr	Cys	Ser	Pro	Leu	Leu	Leu	Thr	Leu	Leu	Ile	His	Cys	Thr	Gly
1				5					10					15	

Ser Trp Ala

<210> 489
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<400> 489

Met	Glu	Ala	Pro	Ala	Gln	Leu	Leu	Phe	Leu	Leu	Leu	Leu	Trp	Leu	Pro
1				5					10					15	

Asp Thr Thr Gly
20

<210> 490
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<400> 490

Met Glu Trp Thr Trp Arg Val Leu Phe Leu Val Ala Ala Ala Thr Gly
1 5 10 15

Ala His Ser

<210> 491
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<400> 491

Met Glu Thr Pro Ala Gln Leu Leu Phe Leu Leu Leu Leu Trp Leu Pro
1 5 10 15

Asp Thr Thr Gly
20

<210> 492
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<400> 492

Met Glu Thr Pro Ala Gln Leu Leu Phe Leu Leu Leu Leu Trp Leu Pro
1 5 10 15

Asp Thr Thr Gly
20

<210> 493
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<400> 493

Met Lys His Leu Trp Phe Phe Leu Leu Leu Val Ala Ala Pro Arg Trp
1 5 10 15

Val Leu Ser

<210> 494
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<400> 494

Met Glu Trp Ser Trp Val Phe Leu Phe Phe Leu Ser Val Thr Thr Gly
1 5 10 15

Val His Ser

<210> 495
<211> 22
<212> PRT
<213> Artificial Sequence

<220>

<223> Synthetic polypeptide

<400> 495

Met Asp Ile Arg Ala Pro Thr Gln Leu Leu Gly Leu Leu Leu Leu Trp
1 5 10 15

Leu Pro Gly Ala Lys Cys
20

<210> 496

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polypeptide

<400> 496

Met Asp Ile Arg Ala Pro Thr Gln Leu Leu Gly Leu Leu Leu Leu Trp
1 5 10 15

Leu Pro Gly Ala Arg Cys
20

<210> 497

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polypeptide

<400> 497

Met Asp Thr Arg Ala Pro Thr Gln Leu Leu Gly Leu Leu Leu Leu Trp
1 5 10 15

Leu Pro Gly Ala Thr Phe
20

<210> 498
<211> 22
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<400> 498

Met Asp Thr Arg Ala Pro Thr Gln Leu Leu Gly Leu Leu Leu Leu Trp
1 5 10 15

Leu Pro Gly Ala Arg Cys
20

<210> 499
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<400> 499

Met Glu Thr Gly Leu Arg Trp Leu Leu Leu Val Ala Val Leu Lys Gly
1 5 10 15

Val Gln Cys

<210> 500
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<400> 500

Met Glu Thr Gly Leu Arg Trp Leu Leu Leu Val Ala Val Leu Lys Gly
1 5 10 15

Val Gln Cys Gln Glu
20

<210> 501
<211> 22
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<400> 501

Met Asp Met Arg Ala Pro Thr Gln Leu Leu Gly Leu Leu Leu Leu Trp
1 5 10 15

Leu Pro Gly Ala Arg Cys
20

<210> 502
<211> 110
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<400> 502

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

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

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

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

Gly Ser Lys Ser Gly Thr Ser Thr Thr Leu Gly Ile Thr Gly Leu Gln
65 70 75 80

Thr Gly Asp Glu Ala Asp Tyr Tyr Cys Gly Thr Trp Asp Ser Arg Leu
85 90 95

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

<210> 503
<211> 130
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<400> 503

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

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

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

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

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Phe
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 Arg Leu Asn Tyr Tyr Asp Ser Ser Gly Tyr Tyr His Tyr
100 105 110

Lys Tyr Tyr Gly Met Ala Val Trp Gly Gln Gly Thr Thr Val Thr Val
115 120 125

Ser Ser
130

<210> 504
<211> 214
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<400> 504

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 Gly Arg Ser
20 25 30

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

Lys Tyr Ala Ser Gln Ser Leu Ser 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 His Gln Ser Ser Arg Leu Pro Phe
85 90 95

Thr Phe Gly Pro 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> 505

<211> 214

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polypeptide

<400> 505

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

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

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

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

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

Glu Asp Phe Ala Thr Tyr Tyr Cys His Gln Ser Ser Arg Leu Pro Phe
85 90 95

Thr Phe Gly Pro 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> 506
<211> 214
<212> PRT
<213> Artificial Sequence

<220>

<223> Synthetic polypeptide

<400> 506

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 Lys Ser Val Gly Arg Ser
20 25 30

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

Lys Tyr Ala Ser Gln Ser Leu Ser 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 His Gln Ser Ser Arg Leu Pro Phe
85 90 95

Thr Phe Gly Pro 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> 507
<211> 214
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<400> 507

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 Lys Ser Val Gly Trp Ser
20 25 30

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

Lys Tyr Ala Ser Gln Ser Leu Ser 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 His Gln Ser Ser Arg Leu Pro Phe
85 90 95

Thr Phe Gly Pro 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> 508

<211> 142

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polypeptide

<400> 508

Leu Thr Ile Ser Ser Leu Glu Pro Glu Asp Phe Ala Val Tyr Tyr Cys
1 5 10 15

His Gln Ser Ser Arg Leu Pro Phe Thr Phe Gly Pro Gly Thr Lys Val
20 25 30

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

Ser Asp Glu Gln Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu
50 55 60

Asn Asn Phe Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn
65 70 75 80

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

Lys Asp Ser Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala
100 105 110

Asp Tyr Glu Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly
115 120 125

Leu Ser Ser Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
130 135 140

<210> 509

<211> 214

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polypeptide

<400> 509

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

Asp Arg Ile Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Arg 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 Ile Pro Ser Arg Phe Ser Gly

50

55

60

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

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

Thr Phe Gly Pro 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> 510

<211> 214

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polypeptide

<400> 510

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

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

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

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

Thr Phe Gly Pro 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> 511

<211> 214

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polypeptide

<400> 511

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

Asp Arg Ile Thr Ile Thr Cys Arg Ala Ser Gln Lys Ile Ala Arg Tyr
 20 25 30

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

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

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

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

Thr Phe Gly Pro 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> 512
 <211> 214
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic polypeptide

<400> 512

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

Asp Arg Ile Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Arg 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 Gly Arg Ile Leu Gln Ser Gly Ile Pro Ser Arg Phe Ser Gly
50 55 60

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

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

Thr Phe Gly Pro 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> 513
<211> 214
<212> PRT
<213> Artificial Sequence

<220>

<223> Synthetic polypeptide

<400> 513

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

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

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

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

Thr Phe Gly Pro 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

300

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> 514
<211> 214
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<400> 514

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

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

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

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

Thr Phe Gly Pro 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> 515

<211> 214

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polypeptide

<400> 515

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

Asp Arg Ile Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Arg Tyr
20 25 30

Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile

35

40

45

Phe Ala Gly Gln Arg Leu Gln Ser Gly Ile Pro Ser Arg Phe Ser Gly
 50 55 60

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

Glu Asp Phe Ala Thr Tyr Phe Cys Gln Gln Ala Ile Gly Met Pro Tyr
 85 90 95

Thr Phe Gly Pro 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> 516

<211> 214

<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<400> 516

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

Asp Arg Ile Thr Ile Thr Cys Arg Ala Ser Gln Tyr Ile Val Arg 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 Asn Met Leu Gln Ser Gly Ile Pro Ser Arg Phe Ser Gly
50 55 60

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

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

Thr Phe Gly Pro 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> 517

<211> 214

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polypeptide

<400> 517

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

Asp Arg Ile Thr Ile Thr Cys Arg Ala Ser Gln Pro Ile Ser Arg Tyr
 20 25 30

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

Phe Ala Gly Gln Arg Leu Gln Ser Gly Ile Pro Ser Arg Phe Ser Gly
 50 55 60

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

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

305

Thr Phe Gly Pro 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> 518

<211> 214

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polypeptide

<400> 518

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

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

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

Glu Asp Phe Ala Thr Tyr Phe Cys Gln Gln Ala Ile Ile Gln Pro Tyr
85 90 95

Thr Phe Gly Pro 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> 519
<211> 450
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<400> 519

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Arg Phe
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 Gly Asn Lys Tyr Tyr Ala Glu 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 Leu Phe Tyr Cys
85 90 95

Ala Arg Gly Tyr Asp Val Leu Thr Gly Tyr Pro Asp Tyr 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 Cys Glu Glu Gln Tyr Gly Ser Thr Tyr Arg
290 295 300

Cys 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> 520

<211> 450

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polypeptide

<400> 520

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

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

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

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

Lys Gly Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Leu 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 Tyr Asp Val Leu Thr Gly Tyr Pro Asp Tyr 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 Gly 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> 521

<211> 450

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polypeptide

<400> 521

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Arg Phe
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 Ile Gly Gly Asn Lys Tyr Tyr Ala Glu 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 Leu Phe Tyr Cys
85 90 95

Ala Arg Gly Tyr Asp Val Leu Thr Gly Tyr Pro Asp Tyr 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 Cys Glu Glu Gln Tyr Gly Ser Thr Tyr Arg
290 295 300

Cys 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> 522

<211> 450

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polypeptide

<400> 522

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

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

Ala Arg Gly Tyr Asp Val Leu Thr Gly Tyr Pro Asp Tyr 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 Cys Glu Glu Gln Tyr Gly Ser Thr Tyr Arg
 290 295 300

Cys 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> 523
<211> 450
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<400> 523

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Arg Phe
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 Gln Gly Asn Asn Lys Tyr Tyr Ala Arg 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 Leu Phe Tyr Cys
85 90 95

Ala Arg Gly Tyr Asp Val Leu Thr Gly Tyr Pro Asp Tyr 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
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
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 Cys Glu Glu Gln Tyr Gly Ser Thr Tyr Arg		
290	295	300

Cys 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> 524

<211> 450

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polypeptide

<400> 524

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Lys Phe
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 Arg Gly Gly Asn Lys Tyr Tyr Ala Glu 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 Leu Phe Tyr Cys
85 90 95

Ala Arg Gly Tyr Asp Leu Leu Thr Gly Tyr Pro Asp Tyr 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 Cys Glu Glu Gln Tyr Gly Ser Thr Tyr Arg
290 295 300

Cys 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> 525
<211> 450
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<400> 525

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Arg Phe
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 Ile Gly Gly Asn Lys Tyr Tyr Ala Glu 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 Leu Phe Tyr Cys
85 90 95

Ala Arg Gly Tyr Asp Ile Leu Thr Gly Tyr Pro Asp Tyr 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 Cys Glu Glu Gln Tyr Gly Ser Thr Tyr Arg
290 295 300

Cys 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> 526
<211> 450
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<400> 526

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Arg Phe
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 Asn Gly Arg Asn Lys Tyr Tyr Ala Arg 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 Leu Phe Tyr Cys
85 90 95

Ala Arg Gly Tyr Asp Ile Leu Thr Gly Tyr Pro Asp Tyr 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 Cys Glu Glu Gln Tyr Gly Ser Thr Tyr Arg
290 295 300

Cys 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> 527

<211> 450

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polypeptide

<400> 527

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

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

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

Gly Val Ile Asn Tyr Arg Gly His Gly Lys Tyr Tyr Ala Glu Ser Val
50 55 60

Lys Gly Arg Phe Thr Val 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 Leu Phe Tyr Cys
85 90 95

Ala Arg Gly Tyr Asp Val Leu Thr Gly Tyr Pro Asp Tyr 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 Cys Glu Glu Gln Tyr Gly Ser Thr Tyr Arg
290 295 300

Cys 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
330

435

440

445

Gly Lys
450

<210> 528

<211> 450

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polypeptide

<400> 528

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

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

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

Gly Val Ile Ser Phe Ser Gly Gly Ser Lys Tyr Tyr Ala Glu Ser Val
50 55 60

Lys Gly Arg Phe Thr Leu 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 Leu Phe Tyr Cys
85 90 95

Ala Arg Gly Tyr Asp Val Leu Thr Gly Tyr Pro Asp Tyr 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 Cys Glu Glu Gln Tyr Gly Ser Thr Tyr Arg
290 295 300

Cys 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> 529

<211> 450

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polypeptide

<400> 529

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

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

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

Gly Val Ile Ser Tyr Thr Gly Gln Phe Lys Tyr Tyr Ala Glu Ser Val
50 55 60

Lys Gly Arg Phe Thr Val 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 Leu Phe Tyr Cys
85 90 95

Ala Arg Gly Tyr Asp Val Leu Thr Gly Tyr Pro Asp Tyr 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 Cys Glu Glu Gln Tyr Gly Ser Thr Tyr Arg
 290 295 300

Cys 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

335

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> 530

<211> 453

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polypeptide

<400> 530

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

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

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

Trp Leu Gly Arg Thr Tyr Tyr Arg Ser Lys Trp Ser Asn His Tyr Ala
50 55 60

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

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

Tyr Tyr Cys Ala Arg Gly Thr Trp Lys Gln Leu Trp Phe Leu Asp His

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
Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe		
	165	170
Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val		
	180	185
Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val		
	195	200
Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys Lys Val Glu Pro Lys		
	210	215
Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu		
225	230	235
Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr		
	245	250
Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val		
	260	265
Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val		
	275	280
Glu Val His Asn Ala Lys Thr Lys Pro Cys Glu Glu Gln Tyr Gly Ser		
	290	295
		300

Thr Tyr Arg Cys 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> 531

<211> 453

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polypeptide

<400> 531

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

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

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

Trp Leu Gly Arg Thr Tyr Tyr Arg Gly Lys Trp Lys Asn His Tyr Ala
50 55 60

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

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

Tyr Tyr Cys Ala Arg Gly Val Trp Ile Gly Asn Trp Phe Leu Asp His
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 Cys Glu Glu Gln Tyr Gly Ser
290 295 300

Thr Tyr Arg Cys 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> 532
<211> 453
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<400> 532

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

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

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

Trp Leu Gly Arg Thr Tyr Tyr Arg Gly Lys Trp Lys Asn His Tyr Ala
50 55 60

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

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

Tyr Tyr Cys Ala Arg Gly Met Trp Asn Gln Asn Trp Phe Leu Asp His
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 Cys Glu Glu Gln Tyr Gly Ser
290 295 300

Thr Tyr Arg Cys 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> 533
 <211> 453
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic polypeptide

<400> 533

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

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

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

Trp Leu Gly Arg Thr Tyr Tyr Arg Gly Lys Trp Lys Asn His Tyr Ala
 50 55 60

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

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

Tyr Tyr Cys Ala Arg Gly Met Trp Gln Gly Asn Trp Phe Leu Asp His
 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 Cys Glu Glu Gln Tyr Gly Ser
290 295 300

Thr Tyr Arg Cys 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> 534

<211> 453

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polypeptide

<400> 534

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

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

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

Trp Leu Gly Arg Thr Tyr Tyr Arg Gly Lys Trp Lys Asn His Tyr Ala
50 55 60

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

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

Tyr Tyr Cys Ala Arg Gly Arg Trp Glu Gly Asp Trp Phe Phe Asp His
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 Cys Glu Glu Gln Tyr Gly Ser
290 295 300

Thr Tyr Arg Cys 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> 535

<211> 453

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polypeptide

<400> 535

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

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

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

Trp Leu Gly Arg Thr Tyr Tyr Arg Gly Lys Trp Lys Asn His Tyr Ala
50 55 60

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

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

Tyr Tyr Cys Ala Arg Gly Thr Trp Asn Gln Asp Trp Phe Leu Asp His
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 Cys Glu Glu Gln Tyr Gly Ser
290 295 300

Thr Tyr Arg Cys 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> 536

<211> 453

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polypeptide

<400> 536

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

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

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

Trp Leu Gly Arg Thr Tyr Tyr Arg Gly Gln Trp Lys Asn His Tyr Ala
50 55 60

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

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

Tyr Tyr Cys Ala Arg Gly Met Trp Asn Gln Asn Trp Phe Leu Asp His
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 Cys Glu Glu Gln Tyr Gly Ser
 290 295 300

Thr Tyr Arg Cys 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> 537
<211> 645
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic polynucleotide

<400> 537
gagatcgtac ttactcagtc acccgccaca ttgtccctga gcccgggtga acgggcgacc 60
ctcagctgcc gagcatccca gtccgtcgga cgatcattgc actggtacca acaaaaaccg 120
ggccaggccc ccagacttct gatcaagtat gcgtcacaga gcttgtcggg tattccccgct 180
cgcttttcgg ggtcgggatc cgggacagat ttcacgctca caatctcctc gctggaaccc 240
gaggacttcg cgggtactacta ttgtcatcag tcatcgaggt tgcctttcac gtttggacca 300
gggaccaagg tggacattaa gcgtacgggtg gctgcaccat ctgtcttcat cttcccgcc 360
tctgatgagc agttgaaatc tggaactgcc tctgttgtgt gcctgctgaa taacttctat 420
cccagagagg ccaaagtaca gtggaagggtg gataacgccc tccaatcggg taactcccag 480
gagagtgtca cagagcagga cagcaaggac agcacctaca gcctcagcag caccctgacg 540
ctgagcaaag cagactacga gaaacacaaa gtctacgcct gcgaagtcac ccatcagggc 600
ctgagctcgc ccgtcacaaa gagcttcaac aggggagagt gttag 645

<210> 538
<211> 642
<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic polynucleotide

<400> 538

gatatccagc	tcactcaatc	gccatcattt	ctctccgctt	cggtaggcga	ccgggtcacg	60
atcacatgca	gggcgtcgca	aagcattggg	aggtcgttgc	attggtatca	gcagaaaccc	120
ggaaaggccc	cgaaacttct	gatcaaatac	gcatcacaaa	gcttgagcgg	tgtgccgtcg	180
cgcttctccg	gttccggaag	cggaacggaa	ttcacgctta	caatctcctc	actgcagccc	240
gaggatttcg	cgacctatta	ctgtcaccag	tcatccagac	tcccgtttac	ttttggccct	300
gggaccaagg	tggacattaa	gcgtacggtg	gctgcaccat	ctgtcttcat	cttcccgcc	360
tctgatgagc	agttgaaatc	tggaaactgcc	tctgttgtgt	gcctgctgaa	taacttctat	420
cccagagagg	ccaaagtaca	gtggaagggtg	gataacgccc	tccaatcggg	taactcccag	480
gagagtgtca	cagagcagga	cagcaaggac	agcacctaca	gcctcagcag	caccctgacg	540
ctgagcaaag	cagactacga	gaaacacaaa	gtctacgcct	gcgaagtcac	ccatcagggc	600
ctgagctcgc	ccgtcacaaa	gagcttcaac	aggggagagt	gt		642

<210> 539

<211> 642

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic polynucleotide

<400> 539

gagatcgtac	ttactcagtc	acccgccaca	ttgtccctga	gcccgggtga	acgggcgacc	60
ctcagctgcc	gagcatccaa	gtccgtcgga	cgatcattgc	actggtacca	acaaaaaccg	120
ggccaggccc	ccagacttct	gatcaagtat	gcgtcacaga	gcttgtcggg	tattcccgt	180
cgcttttcgg	ggtcgggatc	cgggacagat	ttcacgtca	caatctcctc	gctggaaccc	240
gaggacttcg	cggctacta	ttgtcatcag	tcatcgaggt	tgcttttcac	gtttggacca	300
gggaccaagg	tggacattaa	gcgtacggtg	gctgcaccat	ctgtcttcat	cttcccgcc	360

tctgatgagc agttgaaatc tggaactgcc tctgttgtgt gcctgctgaa taacttctat	420
cccagagagg ccaaagtaca gtggaagggtg gataacgccc tccaatcggg taactcccag	480
gagagtgtca cagagcagga cagcaaggac agcacctaca gcctcagcag caccctgacg	540
ctgagcaaag cagactacga gaaacacaaa gtctacgcct gcgaagtcac ccatcagggc	600
ctgagctcgc ccgtcacaaa gagcttcaac aggggagagt gt	642

<210> 540
 <211> 642
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic polynucleotide

<400> 540	
gagatcgtac ttactcagtc acccgccaca ttgtccctga gcccgggtga acgggcgacc	60
ctcagctgcc gagcatccaa atccgtcggg tggagcttgc actggtacca acaaaaaccg	120
ggccaggccc ccagacttct gatcaagtat gcgtcacaga gcttgtcggg tattcccgt	180
cgcttttcgg ggtcgggatc cgggacagat ttcacgctca caatctcctc gctggaaccc	240
gaggacttcg cggctacta ttgtcatcag tcatcgaggt tgcctttcac gtttggacca	300
gggaccaagg tggacattaa gcgtacgggtg gctgcaccat ctgtcttcat cttcccgcc	360
tctgatgagc agttgaaatc tggaactgcc tctgttgtgt gcctgctgaa taacttctat	420
cccagagagg ccaaagtaca gtggaagggtg gataacgccc tccaatcggg taactcccag	480
gagagtgtca cagagcagga cagcaaggac agcacctaca gcctcagcag caccctgacg	540
ctgagcaaag cagactacga gaaacacaaa gtctacgcct gcgaagtcac ccatcagggc	600
ctgagctcgc ccgtcacaaa gagcttcaac aggggagagt gt	642

<210> 541
 <211> 642
 <212> DNA
 <213> Artificial Sequence

<220>

<223> Synthetic polynucleotide

<400> 541

gagatcgtac ttactcagtc acccgccaca ttgtccctga gcccgggtga acgggcgacc	60
ctcagctgcc gagcatccaa atccgtcggg tacagcttgc actggtacca acaaaaaccg	120
ggccaggccc ccagacttct gatcaagtat gcgtcacaga gcttgtcggg tattcccgt	180
cgcttttcgg ggtcgggatc cgggacagat ttcacgctca caatctcctc gctggaaccc	240
gaggacttcg cgggtctacta ttgtcatcag tcatcgaggt tgcctttcac gtttggacca	300
gggaccaagg tggacattaa gcgtacgggtg gctgcaccat ctgtcttcat cttcccgcc	360
tctgatgagc agttgaaatc tggaactgcc tctgttgtgt gcctgctgaa taacttctat	420
cccagagagg ccaaagtaca gtggaagggtg gataacgccc tccaatcggg taactcccag	480
gagagtgtca cagagcagga cagcaaggac agcacctaca gcctcagcag caccctgacg	540
ctgagcaaag cagactacga gaaacacaaa gtctacgcct gcgaagtcac ccatcagggc	600
ctgagctcgc ccgtcacaaa gagcttcaac aggggagagt gt	642

<210> 542

<211> 642

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic polynucleotide

<400> 542

gacatccaga tgacccagtc tccatcctcc ctgtctgcat ctgtaggaga cagaatcacc	60
atcacttgcc gggcaagtca gagcattagc aggtatttaa attggtatca acagaaacca	120
gggaaagccc ctaaactcct gatctatgct gcatccagtt tgcaaagtgg gatcccatca	180
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<220>
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<220>

<223> Synthetic polynucleotide

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<211> 1350

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic polynucleotide

<400> 557

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<223> Synthetic polynucleotide

<400> 558

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<210> 559

<211> 1350

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic polynucleotide

<400> 559

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<220>
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 <212> DNA
 <213> Artificial Sequence

<220>
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 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic polynucleotide

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<211> 1359

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic polynucleotide

<400> 564

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 <212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic polynucleotide

<400> 565

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<210> 566

<211> 1359

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic polynucleotide

<400> 566

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cagtcacccat cgagaggcct tgagtggctg ggaaggacat actacagggg taaatggaaa	180
aatcattatg cagtatctgt gaaaagtcga ataaccatca accccgacac gtccaagagc	240
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<210> 567
 <211> 1359
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic polynucleotide

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cagtcccat cgagaggcct tgagtggctg ggaaggacat actacagggg taaatggaaa	180
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 <211> 1359
 <212> DNA
 <213> Artificial Sequence

<220>
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<211> 1359

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic polynucleotide

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