

SEQUENCE LISTING

<110> Orionis Biosciences Inc.
 Kley, Nikolai
 Tavernier, Jan
 Cauwels, Anje

<120> FIBROBLAST BINDING AGENTS AND USE THEREOF

<130> ORN-035PC/114384-5035

<150> US 62/626,453
 <151> 2018-02-05

<160> 914

<170> PatentIn version 3.5

<210> 1
 <211> 760
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic polymer.

<400> 1

Met Lys Thr Trp Val Lys Ile Val Phe Gly Val Ala Thr Ser Ala Val
 1 5 10 15

Leu Ala Leu Leu Val Met Cys Ile Val Leu Arg Pro Ser Arg Val His
 20 25 30

Asn Ser Glu Glu Asn Thr Met Arg Ala Leu Thr Leu Lys Asp Ile Leu
 35 40 45

Asn Gly Thr Phe Ser Tyr Lys Thr Phe Phe Pro Asn Trp Ile Ser Gly
 50 55 60

Gln Glu Tyr Leu His Gln Ser Ala Asp Asn Asn Ile Val Leu Tyr Asn
 65 70 75 80

Ile Glu Thr Gly Gln Ser Tyr Thr Ile Leu Ser Asn Arg Thr Met Lys

85

90

95

Ser Val Asn Ala Ser Asn Tyr Gly Leu Ser Pro Asp Arg Gln Phe Val
 100 105 110

Tyr Leu Glu Ser Asp Tyr Ser Lys Leu Trp Arg Tyr Ser Tyr Thr Ala
 115 120 125

Thr Tyr Tyr Ile Tyr Asp Leu Ser Asn Gly Glu Phe Val Arg Gly Asn
 130 135 140

Glu Leu Pro Arg Pro Ile Gln Tyr Leu Cys Trp Ser Pro Val Gly Ser
 145 150 155 160

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

Gly Asp Pro Pro Phe Gln Ile Thr Phe Asn Gly Arg Glu Asn Lys Ile
 180 185 190

Phe Asn Gly Ile Pro Asp Trp Val Tyr Glu Glu Glu Met Leu Pro Thr
 195 200 205

Lys Tyr Ala Leu Trp Trp Ser Pro Asn Gly Lys Phe Leu Ala Tyr Ala
 210 215 220

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

Asp Glu Gln Tyr Pro Arg Thr Ile Asn Ile Pro Tyr Pro Lys Ala Gly
 245 250 255

Ala Lys Asn Pro Val Val Arg Ile Phe Ile Ile Asp Thr Thr Tyr Pro
 260 265 270

Ala Tyr Val Gly Pro Gln Glu Val Pro Val Pro Ala Met Ile Ala Ser
 275 280 285

Ser Asp Tyr Tyr Phe Ser Trp Leu Thr Trp Val Thr Asp Glu Arg Val
290 295 300

Cys Leu Gln Trp Leu Lys Arg Val Gln Asn Val Ser Val Leu Ser Ile
305 310 315 320

Cys Asp Phe Arg Glu Asp Trp Gln Thr Trp Asp Cys Pro Lys Thr Gln
325 330 335

Glu His Ile Glu Glu Ser Arg Thr Gly Trp Ala Gly Gly Phe Phe Val
340 345 350

Ser Arg Pro Val Phe Ser Tyr Asp Ala Ile Ser Tyr Tyr Lys Ile Phe
355 360 365

Ser Asp Lys Asp Gly Tyr Lys His Ile His Tyr Ile Lys Asp Thr Val
370 375 380

Glu Asn Ala Ile Gln Ile Thr Ser Gly Lys Trp Glu Ala Ile Asn Ile
385 390 395 400

Phe Arg Val Thr Gln Asp Ser Leu Phe Tyr Ser Ser Asn Glu Phe Glu
405 410 415

Glu Tyr Pro Gly Arg Arg Asn Ile Tyr Arg Ile Ser Ile Gly Ser Tyr
420 425 430

Pro Pro Ser Lys Lys Cys Val Thr Cys His Leu Arg Lys Glu Arg Cys
435 440 445

Gln Tyr Tyr Thr Ala Ser Phe Ser Asp Tyr Ala Lys Tyr Tyr Ala Leu
450 455 460

Val Cys Tyr Gly Pro Gly Ile Pro Ile Ser Thr Leu His Asp Gly Arg
465 470 475 480

Thr Asp Gln Glu Ile Lys Ile Leu Glu Glu Asn Lys Glu Leu Glu Asn
485 490 495

Ala Leu Lys Asn Ile Gln Leu Pro Lys Glu Glu Ile Lys Lys Leu Glu
500 505 510

Val Asp Glu Ile Thr Leu Trp Tyr Lys Met Ile Leu Pro Pro Gln Phe
515 520 525

Asp Arg Ser Lys Lys Tyr Pro Leu Leu Ile Gln Val Tyr Gly Gly Pro
530 535 540

Cys Ser Gln Ser Val Arg Ser Val Phe Ala Val Asn Trp Ile Ser Tyr
545 550 555 560

Leu Ala Ser Lys Glu Gly Met Val Ile Ala Leu Val Asp Gly Arg Gly
565 570 575

Thr Ala Phe Gln Gly Asp Lys Leu Leu Tyr Ala Val Tyr Arg Lys Leu
580 585 590

Gly Val Tyr Glu Val Glu Asp Gln Ile Thr Ala Val Arg Lys Phe Ile
595 600 605

Glu Met Gly Phe Ile Asp Glu Lys Arg Ile Ala Ile Trp Gly Trp Ser
610 615 620

Tyr Gly Gly Tyr Val Ser Ser Leu Ala Leu Ala Ser Gly Thr Gly Leu
625 630 635 640

Phe Lys Cys Gly Ile Ala Val Ala Pro Val Ser Ser Trp Glu Tyr Tyr
645 650 655

Ala Ser Val Tyr Thr Glu Arg Phe Met Gly Leu Pro Thr Lys Asp Asp
660 665 670

Asn Leu Glu His Tyr Lys Asn Ser Thr Val Met Ala Arg Ala Glu Tyr
675 680 685

Phe Arg Asn Val Asp Tyr Leu Leu Ile His Gly Thr Ala Asp Asp Asn
690 695 700

Val His Phe Gln Asn Ser Ala Gln Ile Ala Lys Ala Leu Val Asn Ala
705 710 715 720

Gln Val Asp Phe Gln Ala Met Trp Tyr Ser Asp Gln Asn His Gly Leu
725 730 735

Ser Gly Leu Ser Thr Asn His Leu Tyr Thr His Met Thr His Phe Leu
740 745 750

Lys Gln Cys Phe Ser Leu Ser Asp
755 760

<210> 2
<211> 134
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 2

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Gly Phe Asp Ser Arg Asn
20 25 30

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

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

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

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

Ala Ala Pro Pro Ile Phe Gly Ser Trp Gly Gln Gly Thr Gln Val Thr
100 105 110

Val Ser Ser Ala Ala Ala Tyr Pro Tyr Asp Val Pro Asp Tyr Gly Ser
115 120 125

His His His His His His
130

<210> 3
<211> 134
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 3

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

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

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

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

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

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

Ala Ala Pro Pro Ile Phe Gly Ser Trp Gly Gln Gly Thr Gln Val Thr
100 105 110

Val Ser Ser Ala Ala Ala Tyr Pro Tyr Asp Val Pro Asp Tyr Gly Ser
115 120 125

His His His His His His
130

<210> 4
<211> 134
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 4

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Phe Asp Ser Arg Asn
20 25 30

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

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

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

Gln Met Asn Ser Leu Lys Pro Asp Asp Thr Ala Val Tyr Tyr Cys Asn

85

90

95

Ala Ala Pro Pro Ile Phe Asn Ser Trp Gly Gln Gly Thr Gln Val Thr
 100 105 110

Val Ser Ser Ala Ala Ala Tyr Pro Tyr Asp Val Pro Asp Tyr Gly Ser
 115 120 125

His His His His His His
 130

<210> 5

<211> 134

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 5

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

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

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

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

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

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

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

Val Ser Ser Ala Ala Ala Tyr Pro Tyr Asp Val Pro Asp Tyr Gly Ser
115 120 125

His His His His His His
130

<210> 6
<211> 134
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 6

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

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

Thr Met Gly Trp Tyr Arg Gln Ala Pro Gly Lys Arg Arg Glu Trp Val
35 40 45

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

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

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

Leu Ala Pro Pro Ile Phe Asn Ser Trp Gly Gln Gly Thr Gln Val Thr
100 105 110

Val Ser Ser Ala Ala Ala Tyr Pro Tyr Asp Val Pro Asp Tyr Gly Ser
115 120 125

His His His His His His
130

<210> 7
<211> 134
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 7

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

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

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

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

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

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

Ala Ala Pro Pro Ile Leu Asn Ser Trp Gly Gln Gly Thr Gln Val Thr
100 105 110

Val Ser Ser Ala Ala Ala Tyr Pro Tyr Asp Val Pro Asp Tyr Gly Ser
115 120 125

His His His His His His
130

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

<220>
<223> Synthetic polymer.

<400> 8

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

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

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

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

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

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

Ala Ala Pro Pro Ile Phe Asn Ser Trp Gly Gln Gly Thr Gln Val Thr
100 105 110

Val Ser Ser Ala Ala Ala Tyr Pro Tyr Asp Val Pro Asp Tyr Gly Ser
115 120 125

His His His His His His

130

<210> 9
<211> 134
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 9

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

Ser Leu Arg Leu Ser Cys Ala Val Ser Gly Arg Leu Phe Ser Ala Asn
20 25 30

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

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

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

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

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

Val Ser Ser Ala Ala Ala Tyr Pro Tyr Asp Val Pro Asp Tyr Gly Ser
115 120 125

His His His His His His
130

<210> 10
<211> 134
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 10

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

Ser Leu Arg Leu Ser Cys Ala Val Ser Gly Arg Leu Phe Ser Ala Asn
20 25 30

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

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

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

Gln Met Asn Ser Leu Lys Pro Asp Asp Thr Ala Val Tyr Tyr Cys Asn
85 90 95

Phe Ala Pro Pro Pro Glu Gly Tyr Trp Gly Gln Gly Thr Gln Val Thr
100 105 110

Val Ser Ser Ala Ala Ala Tyr Pro Tyr Asp Val Pro Asp Tyr Gly Ser
115 120 125

His His His His His His
130

<210> 11
<211> 136
<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 11

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

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

Ala Met Gly Trp Tyr Arg Gln Ala Leu Gly Asn Gln Arg Glu Leu Val
35 40 45

Ala Gly Ile Thr Ser Asp Gly Thr Thr Tyr Tyr Pro Asp Ser Val Lys
50 55 60

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

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

Leu Trp Pro Pro Arg Ile Gly Phe Ala Ser Trp Gly Gln Gly Thr Gln
100 105 110

Val Thr Val Ser Ser Ala Ala Ala Tyr Pro Tyr Asp Val Pro Asp Tyr
115 120 125

Gly Ser His His His His His His
130 135

<210> 12

<211> 136

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 12

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

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

Ala Met Gly Trp Tyr Arg Gln Ala Leu Gly Asn Gln Arg Glu Leu Val
35 40 45

Ala Gly Ile Thr Ser Asp Gly Thr Thr Tyr Tyr Pro Asp Ser Val Lys
50 55 60

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

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

Leu Trp Pro Pro Arg Ile Gly Phe Ala Ser Trp Gly Gln Gly Thr Gln
100 105 110

Val Thr Val Ser Ser Ala Ala Ala Tyr Pro Tyr Asp Val Pro Asp Tyr
115 120 125

Gly Ser His His His His His His
130 135

<210> 13

<211> 136

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 13

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

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

Ala Met Gly Trp Tyr Arg Gln Ala Leu Gly Asn Gln Arg Glu Leu Val
35 40 45

Ala Gly Ile Thr Ser Asp Gly Thr Thr Tyr Tyr Pro Asp Ser Val Lys
50 55 60

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

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

Leu Trp Pro Pro Arg Ile Gly Phe Ala Ser Trp Gly Gln Gly Thr Gln
100 105 110

Val Thr Val Ser Ser Ala Ala Ala Tyr Pro Tyr Asp Val Pro Asp Tyr
115 120 125

Gly Ser His His His His His His
130 135

<210> 14
<211> 136
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 14

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

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

Ala Met Gly Trp Tyr Arg Gln Ala Leu Gly Asn Gln Arg Glu Leu Val
35 40 45

Ala Gly Ile Thr Ser Asp Gly Thr Thr Tyr Tyr Pro Asp Ser Val Lys
50 55 60

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

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

Leu Trp Pro Pro Arg Ile Gly Phe Ala Ser Trp Gly Gln Gly Thr Gln
100 105 110

Val Thr Val Ser Ser Ala Ala Ala Tyr Pro Tyr Asp Val Pro Asp Tyr
115 120 125

Gly Ser His His His His His His
130 135

<210> 15
<211> 136
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 15

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Ile Ser Met Leu Asn

20

25

30

Ser Met Gly Trp Tyr Arg Gln Ala Leu Gly Lys Gln Arg Glu Phe Val
 35 40 45

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

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

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

Thr Trp Pro Pro Arg Ile Ala Phe Asp Ser Trp Gly Gln Gly Thr Gln
 100 105 110

Val Thr Val Ser Ser Ala Ala Ala Tyr Pro Tyr Asp Val Pro Asp Tyr
 115 120 125

Gly Ser His His His His His His
 130 135

<210> 16

<211> 140

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 16

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Ile Phe Ser Ser Asn
 20 25 30

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

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

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

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

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

Gln Gly Thr Gln Val Thr Val Ser Ser Ala Ala Ala Tyr Pro Tyr Asp
115 120 125

Val Pro Asp Tyr Gly Ser His His His His His His
130 135 140

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

<220>
<223> Synthetic polymer.

<400> 17

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

Ser Leu Arg Leu Ser Cys Val Val Ser Gly Ser Phe Asp Ser Arg Asn
20 25 30

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

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

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

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

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

Val Thr Val Ser Ser Ala Ala Ala Tyr Pro Tyr Asp Val Pro Asp Tyr
115 120 125

Gly Ser His His His His His His
130 135

<210> 18
<211> 135
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 18

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

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

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

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

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

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

Phe Phe Pro Pro Pro Val Pro Ala Ser Trp Gly Gln Gly Thr Gln Val
100 105 110

Thr Val Ser Ser Ala Ala Ala Tyr Pro Tyr Asp Val Pro Asp Tyr Gly
115 120 125

Ser His His His His His His
130 135

<210> 19
<211> 134
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 19

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

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

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

Ala Gly Leu Gly Ser Gly Val Ser Thr Thr Tyr Ala Asp Ala Val Lys
50 55 60

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

65		70		75		80
Gln Met Asn Ser	Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Asn					
	85		90		95	
Arg Trp Pro Pro Pro Tyr Asp Tyr Trp Gly Gln Gly Thr Gln Val Thr						
	100		105		110	
Val Ser Ser Ala Ala Ala Tyr Pro Tyr Asp Val Pro Asp Tyr Gly Ser						
	115		120		125	
His His His His His His						
	130					

<210> 20
 <211> 139
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic polymer.

<400> 20

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

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

Phe His Pro Pro Val Val Arg Asp Trp Gly Asp Thr Tyr Trp Gly Thr
100 105 110

Gln Val Thr Val Ser Ser Ala Ala Ala Tyr Pro Tyr Asp Val Pro Asp
115 120 125

Tyr Gly Ser His His His His His His Gln Gly
130 135

<210> 21
<211> 136
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 21

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

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

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

Ala Phe Ile Thr Val Asp His Asn Thr Tyr Tyr Thr Asp Ser Val Lys
50 55 60

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

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

Arg Ala Pro Pro Ser Thr Asp Gly Asp Arg Trp Gly Gln Gly Thr Gln
100 105 110

Val Thr Val Ser Ser Ala Ala Ala Tyr Pro Tyr Asp Val Pro Asp Tyr
115 120 125

Gly Ser His His His His His His
130 135

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

<220>
<223> Synthetic polymer.

<400> 22

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

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

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

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

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

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

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

Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser Ala Ala Ala Tyr Pro
115 120 125

Tyr Asp Val Pro Asp Tyr Gly Ser His His His His His His
130 135 140

<210> 23
<211> 142
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 23

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

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

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

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

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

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

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

Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser Ala Ala Ala Tyr Pro

115

120

125

Tyr Asp Val Pro Asp Tyr Gly Ser His His His His His His
 130 135 140

<210> 24

<211> 142

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 24

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

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

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

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

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

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

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

Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser Ala Ala Ala Tyr Pro
 115 120 125

Tyr Asp Val Pro Asp Tyr Gly Ser His His His His His His
130 135 140

<210> 25
<211> 142
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 25

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

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

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

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

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

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

Ala Arg Arg Gly Ser Ala Tyr Tyr Thr Asn His Val Asp Trp Pro Tyr
100 105 110

Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser Ala Ala Ala Tyr Pro
115 120 125

Tyr Asp Val Pro Asp Tyr Gly Ser His His His His His His
130 135 140

<210> 26
<211> 142
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 26

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

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

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

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

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

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

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

Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser Ala Ala Ala Tyr Pro
115 120 125

Tyr Asp Val Pro Asp Tyr Gly Ser His His His His His His
130 135 140

<210> 27
<211> 142

<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 27

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

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

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

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

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

Gln Thr Asn Ser Pro Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Ala
85 90 95

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

Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser Ala Ala Ala Tyr Pro
115 120 125

Tyr Asp Val Pro Asp Tyr Gly Ser His His His His His His
130 135 140

<210> 28
<211> 142
<212> PRT
<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 28

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

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

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

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

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

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

Ala Lys Thr Gly Ser Ala Tyr Tyr Thr Asn Arg Ile Asp Trp Pro Tyr
100 105 110

Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser Ala Ala Ala Tyr Pro
115 120 125

Tyr Asp Val Pro Asp Tyr Gly Ser His His His His His His
130 135 140

<210> 29

<211> 142

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 29

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

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

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

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

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

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

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

Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser Ala Ala Ala Tyr Pro
115 120 125

Tyr Asp Val Pro Asp Tyr Gly Ser His His His His His His
130 135 140

<210> 30

<211> 142

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 30

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

1	5	10	15
Ser	Leu	Arg	Leu
	20		
Ser	Cys	Ala	Ala
		25	
Ser	Gly	Arg	Thr
Phe	Gly	Ser	Tyr
	30		
Ala	Met	Gly	Trp
	35		
Phe	Arg	Gln	Ala
		40	
Ala	Gly	Lys	Glu
Arg	Glu	Leu	Val
	45		
Ala	Ala	Ile	Ser
	50		
Ala	Gly	Gly	Ser
		55	
Thr	Leu	Tyr	Ala
Asp	Asn	Val	Lys
	60		
Gly	Arg	Phe	Thr
	65		
Ile	Ser	Arg	Asp
	70		
Asn	Ala	Arg	Asn
		75	
Thr	Val	Tyr	Leu
			80
Leu	Ser	Asn	Ser
Leu	Lys	Pro	Glu
	85		
Asp	Thr	Ala	Val
	90		
Tyr	Tyr	Cys	Ala
		95	
Ala	Arg	Arg	Gly
Ser	Ala	Tyr	Tyr
	100		
Thr	Asn	His	Ile
	105		
Asp	Trp	Pro	Tyr
	110		
Trp	Gly	Gln	Gly
	115		
Thr	Gln	Val	Thr
Val	Ser	Ser	Ala
Ala	Ala	Ala	Tyr
	125		
Tyr	Asp	Val	Pro
	130		
Asp	Tyr	Gly	Ser
		135	
His	His	His	His
		140	
His	His	His	His
<210>	31		
<211>	142		
<212>	PRT		
<213>	Artificial Sequence		
<220>			
<223>	Synthetic polymer.		
<400>	31		
Gln	Val	Gln	Leu
Gln	Glu	Ser	Gly
	5		
Gly	Gly	Gly	Leu
		10	
Val	Gln	Pro	Gly
Gly	Gly		
	15		

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

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

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

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

Leu Ser Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Ala
85 90 95

Ala Arg Arg Gly Ser Ala Tyr Tyr Thr Asn His Ile Asp Trp Pro Tyr
100 105 110

Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser Ala Ala Ala Tyr Pro
115 120 125

Tyr Asp Val Pro Asp Tyr Gly Ser His His His His His His
130 135 140

<210> 32
<211> 142
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 32

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

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

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

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

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

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

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

Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser Ala Ala Ala Tyr Pro
115 120 125

Tyr Asp Val Pro Asp Tyr Gly Ser His His His His His His
130 135 140

<210> 33
<211> 142
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 33

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

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

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

Ala Ala Ile Ser Ser Gly Gly Ser Thr Leu Tyr Ala Gly Ser Val Lys
 50 55 60

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

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

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

Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser Ala Ala Ala Tyr Pro
 115 120 125

Tyr Asp Val Pro Asp Tyr Gly Ser His His His His His His
 130 135 140

<210> 34
 <211> 142
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic polymer.

<400> 34

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

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

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

Ala Ala Ile Ser Ser Gly Gly Ile Thr Tyr Tyr Ala Asp Ser Val Lys

50

55

60

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

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

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

Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser Ala Ala Ala Tyr Pro
115 120 125

Tyr Asp Val Pro Asp Tyr Gly Ser His His His His His His
130 135 140

<210> 35

<211> 142

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 35

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

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

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

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

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

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

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

Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser Ala Ala Ala Tyr Pro
115 120 125

Tyr Asp Val Pro Asp Tyr Gly Ser His His His His His His
130 135 140

<210> 36
<211> 142
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 36

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

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

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

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

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

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

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

Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser Ala Ala Ala Tyr Pro
115 120 125

Tyr Asp Val Pro Asp Tyr Gly Ser His His His His His His
130 135 140

<210> 37
<211> 142
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<220>
<221> misc_feature
<222> (13)..(13)
<223> Xaa can be any naturally occurring amino acid

<400> 37

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

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

Ala Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Ile
35 40 45

Ala Gly Ile Ser Trp Gly Gly Ser Ser Thr Tyr Tyr Ala Asp Ser Val
50 55 60

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

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

Ala Ala Arg Leu Ser Gly Val Ser Arg Ser Asp Arg Pro Tyr Asp Tyr
100 105 110

Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser Ala Ala Ala Tyr Pro
115 120 125

Tyr Asp Val Pro Asp Tyr Gly Ser His His His His His His
130 135 140

<210> 38
<211> 142
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 38

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

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

Ala Ile Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Leu Val
35 40 45

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

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

Gln Met Met Ser Leu Glu Pro Glu Ala Thr Gly Val Tyr Tyr Cys Ala
85 90 95

Ala Arg Asp Gly Ser Ala Leu Tyr Thr Ala His Ser Asp Trp Asp Tyr
100 105 110

Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser Ala Ala Ala Tyr Pro
115 120 125

Tyr Asp Val Pro Asp Tyr Gly Ser His His His His His His
130 135 140

<210> 39
<211> 142
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 39

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Glu Arg Thr Phe Ser Met Tyr
20 25 30

Ala Ile Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Leu Val
35 40 45

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

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

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

Ala Arg Ser Gly Ser Ala Tyr Phe Ser Gly Arg Tyr Tyr Trp Asn Tyr
100 105 110

Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser Ala Ala Ala Tyr Pro
115 120 125

Tyr Asp Val Pro Asp Tyr Gly Ser His His His His His His
130 135 140

<210> 40
<211> 142
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 40

Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Asp
1 5 10 15

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

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

Ala Ala Ile Thr Ser Gly Leu Ser Thr Tyr Tyr Ala Asp Ser Leu Lys
50 55 60

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

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

Ala Arg Glu Gly Gly Gly Ile Trp Thr Ser Ser Thr Gln Tyr Asp Tyr

100	105	110
Trp Gly Gln Gly Thr Gln Val	Thr Val Ser Ser Ala Ala Ala Tyr Pro	
115	120	125
Tyr Asp Val Pro Asp Tyr Gly Ser His His His His His His		
130	135	140
<210> 41		
<211> 137		
<212> PRT		
<213> Artificial Sequence		
<220>		
<223> Synthetic polymer.		
<400> 41		
Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly		
1	5	10 15
Ser Leu Arg Leu Ser Cys Val Ala Ser Gly Thr Ile Phe Ser Ser Gly		
20	25	30
Ala Met Ala Met Gly Trp Tyr Arg Gln Ala Pro Gly Lys Gln Arg Glu		
35	40	45
Trp Val Ala Gly Ile Thr Gly Ser Arg Thr Thr Thr Tyr Ala Asp Ser		
50	55	60
Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Glu Asn Thr Val		
65	70	75 80
Phe Leu Gln Met Asn Asn Leu Lys Ser Glu Asp Thr Ala Val Tyr Tyr		
85	90	95
Cys Asn Leu Trp Pro Pro Ser Arg Pro Asp His Trp Gly Gln Gly Thr		
100	105	110

Gln Val Thr Val Ser Ser Ala Ala Ala Tyr Pro Tyr Asp Val Pro Asp
115 120 125

Tyr Gly Ser His His His His His His
130 135

<210> 42
<211> 134
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 42

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

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

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

Gly Ile Thr Gly Ser Arg Thr Thr Met Tyr Thr Glu Ser Val Lys Gly
50 55 60

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

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

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

Val Ser Ser Ala Ala Ala Tyr Pro Tyr Asp Val Pro Asp Tyr Gly Ser
115 120 125

His His His His His His
130

<210> 43
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 43

His His His His His His
1 5

<210> 44
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 44

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

<210> 45
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 45

Ala Ala Ala Tyr Pro Tyr Asp Val Pro Asp Tyr Gly Ser His His His
1 5 10 15

His His His

<210> 46
<211> 115
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 46

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Gly Phe Asp Ser Arg Asn
20 25 30

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

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

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

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

Ala Ala Pro Pro Ile Phe Gly Ser Trp Gly Gln Gly Thr Gln Val Thr
100 105 110

Val Ser Ser
115

<210> 47
<211> 115
<212> PRT
<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 47

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

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

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

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

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

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

Ala Ala Pro Pro Ile Phe Gly Ser Trp Gly Gln Gly Thr Gln Val Thr
100 105 110

Val Ser Ser
115

<210> 48

<211> 115

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 48

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Phe Asp Ser Arg Asn
20 25 30

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

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

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

Gln Met Asn Ser Leu Lys Pro Asp Asp Thr Ala Val Tyr Tyr Cys Asn
85 90 95

Ala Ala Pro Pro Ile Phe Asn Ser Trp Gly Gln Gly Thr Gln Val Thr
100 105 110

Val Ser Ser
115

<210> 49
<211> 115
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 49

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

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

Ala Met Gly Trp Tyr Arg Gln Ala Pro Gly Thr Arg Arg Glu Trp Val

35

40

45

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

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

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

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

Val Ser Ser
 115

<210> 50

<211> 115

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 50

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

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

Thr Met Gly Trp Tyr Arg Gln Ala Pro Gly Lys Arg Arg Glu Trp Val
 35 40 45

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

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

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

Leu Ala Pro Pro Ile Phe Asn Ser Trp Gly Gln Gly Thr Gln Val Thr
100 105 110

Val Ser Ser
115

<210> 51
<211> 115
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 51

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

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

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

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

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

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

Ala Ala Pro Pro Ile Leu Asn Ser Trp Gly Gln Gly Thr Gln Val Thr
100 105 110

Val Ser Ser
115

<210> 52
<211> 115
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 52

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

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

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

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

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

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

Ala Ala Pro Pro Ile Phe Asn Ser Trp Gly Gln Gly Thr Gln Val Thr
100 105 110

Val Ser Ser
115

<210> 53
<211> 115
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 53

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

Ser Leu Arg Leu Ser Cys Ala Val Ser Gly Arg Leu Phe Ser Ala Asn
20 25 30

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

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

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

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

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

Val Ser Ser
115

<210> 54
<211> 115
<212> PRT
<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 54

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

Ser Leu Arg Leu Ser Cys Ala Val Ser Gly Arg Leu Phe Ser Ala Asn
20 25 30

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

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

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

Gln Met Asn Ser Leu Lys Pro Asp Asp Thr Ala Val Tyr Tyr Cys Asn
85 90 95

Phe Ala Pro Pro Pro Glu Gly Tyr Trp Gly Gln Gly Thr Gln Val Thr
100 105 110

Val Ser Ser
115

<210> 55

<211> 117

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 55

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

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

Ala Met Gly Trp Tyr Arg Gln Ala Leu Gly Asn Gln Arg Glu Leu Val
35 40 45

Ala Gly Ile Thr Ser Asp Gly Thr Thr Tyr Tyr Pro Asp Ser Val Lys
50 55 60

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

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

Leu Trp Pro Pro Arg Ile Gly Phe Ala Ser Trp Gly Gln Gly Thr Gln
100 105 110

Val Thr Val Ser Ser
115

<210> 56
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 56

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

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

Ala Met Gly Trp Tyr Arg Gln Ala Leu Gly Asn Gln Arg Glu Leu Val

35

40

45

Ala Gly Ile Thr Ser Asp Gly Thr Thr Tyr Tyr Pro Asp Ser Val Lys
 50 55 60

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

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

Leu Trp Pro Pro Arg Ile Gly Phe Ala Ser Trp Gly Gln Gly Thr Gln
 100 105 110

Val Thr Val Ser Ser
 115

<210> 57

<211> 117

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 57

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

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

Ala Met Gly Trp Tyr Arg Gln Ala Leu Gly Asn Gln Arg Glu Leu Val
 35 40 45

Ala Gly Ile Thr Ser Asp Gly Thr Thr Tyr Tyr Pro Asp Ser Val Lys
 50 55 60

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

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

Leu Trp Pro Pro Arg Ile Gly Phe Ala Ser Trp Gly Gln Gly Thr Gln
100 105 110

Val Thr Val Ser Ser
115

<210> 58
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 58

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

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

Ala Met Gly Trp Tyr Arg Gln Ala Leu Gly Asn Gln Arg Glu Leu Val
35 40 45

Ala Gly Ile Thr Ser Asp Gly Thr Thr Tyr Tyr Pro Asp Ser Val Lys
50 55 60

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

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

Leu Trp Pro Pro Arg Ile Gly Phe Ala Ser Trp Gly Gln Gly Thr Gln
100 105 110

Val Thr Val Ser Ser
115

<210> 59
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 59

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Ile Ser Met Leu Asn
20 25 30

Ser Met Gly Trp Tyr Arg Gln Ala Leu Gly Lys Gln Arg Glu Phe Val
35 40 45

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

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

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

Thr Trp Pro Pro Arg Ile Ala Phe Asp Ser Trp Gly Gln Gly Thr Gln
100 105 110

Val Thr Val Ser Ser
115

<210> 60
<211> 121
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 60

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Ile Phe Ser Ser Asn
20 25 30

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

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

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

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

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

Gln Gly Thr Gln Val Thr Val Ser Ser
115 120

<210> 61
<211> 117
<212> PRT
<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 61

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

Ser Leu Arg Leu Ser Cys Val Val Ser Gly Ser Phe Asp Ser Arg Asn
20 25 30

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

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

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

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

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

Val Thr Val Ser Ser
115

<210> 62

<211> 116

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 62

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

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

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

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

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

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

Phe Phe Pro Pro Pro Val Pro Ala Ser Trp Gly Gln Gly Thr Gln Val
100 105 110

Thr Val Ser Ser
115

<210> 63
<211> 115
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 63

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

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

Ala Met Gly Trp Tyr Arg Gln Ala Pro Gly Lys Arg Arg Glu Leu Val

35

40

45

Ala Gly Leu Gly Ser Gly Val Ser Thr Thr Tyr Ala Asp Ala Val Lys
 50 55 60

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

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

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

Val Ser Ser
 115

<210> 64

<211> 120

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 64

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

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

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

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

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

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

Phe His Pro Pro Val Val Arg Asp Trp Gly Asp Thr Tyr Trp Gly Thr
100 105 110

Gln Val Thr Val Ser Ser Gln Gly
115 120

<210> 65
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 65

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

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

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

Ala Phe Ile Thr Val Asp His Asn Thr Tyr Tyr Thr Asp Ser Val Lys
50 55 60

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

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

Arg Ala Pro Pro Ser Thr Asp Gly Asp Arg Trp Gly Gln Gly Thr Gln
100 105 110

Val Thr Val Ser Ser
115

<210> 66
<211> 123
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 66

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

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

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

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

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

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

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

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

<210> 67
<211> 123
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 67

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

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

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

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

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

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

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

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

<210> 68
<211> 123
<212> PRT
<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 68

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

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

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

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

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

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

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

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

<210> 69

<211> 123

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 69

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

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

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

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

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

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

Ala Arg Arg Gly Ser Ala Tyr Tyr Thr Asn His Val Asp Trp Pro Tyr
100 105 110

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

<210> 70

<211> 123

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 70

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

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

Ala Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Ser Arg Glu Leu Val

35

40

45

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

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

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

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

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

<210> 71

<211> 123

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 71

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

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

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

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

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

Gln Thr Asn Ser Pro Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Ala
85 90 95

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

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

<210> 72
<211> 123
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 72

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

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

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

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

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

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

Ala Lys Thr Gly Ser Ala Tyr Tyr Thr Asn Arg Ile Asp Trp Pro Tyr
100 105 110

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

<210> 73
<211> 123
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 73

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

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

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

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

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

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

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

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

<210> 74
<211> 123
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 74

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

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

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

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

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

Leu Ser Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Ala
85 90 95

Ala Arg Arg Gly Ser Ala Tyr Tyr Thr Asn His Ile Asp Trp Pro Tyr
100 105 110

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

<210> 75
<211> 123
<212> PRT
<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 75

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

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

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

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

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

Leu Ser Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Ala
85 90 95

Ala Arg Arg Gly Ser Ala Tyr Tyr Thr Asn His Ile Asp Trp Pro Tyr
100 105 110

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

<210> 76

<211> 123

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 76

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

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

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

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

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

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

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

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

<210> 77

<211> 123

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 77

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

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

Ala Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Leu Val

35

40

45

Ala Ala Ile Ser Ser Gly Gly Ser Thr Leu Tyr Ala Gly Ser Val Lys
 50 55 60

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

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

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

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

<210> 78

<211> 123

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 78

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

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

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

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

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

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

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

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

<210> 79
<211> 123
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 79

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

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

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

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

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

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

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

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

<210> 80
<211> 123
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 80

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

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

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

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

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

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

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

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

<210> 81
<211> 123
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<220>
<221> misc_feature
<222> (13)..(13)
<223> Xaa can be any naturally occurring amino acid

<400> 81

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

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

Ala Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Ile
35 40 45

Ala Gly Ile Ser Trp Gly Gly Ser Ser Thr Tyr Tyr Ala Asp Ser Val
50 55 60

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

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

Ala Ala Arg Leu Ser Gly Val Ser Arg Ser Asp Arg Pro Tyr Asp Tyr
100 105 110

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

<210> 82
<211> 123
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 82

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

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

Ala Ile Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Leu Val
35 40 45

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

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

Gln Met Met Ser Leu Glu Pro Glu Ala Thr Gly Val Tyr Tyr Cys Ala
85 90 95

Ala Arg Asp Gly Ser Ala Leu Tyr Thr Ala His Ser Asp Trp Asp Tyr
100 105 110

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

<210> 83
<211> 123
<212> PRT
<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 83

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Glu Arg Thr Phe Ser Met Tyr
20 25 30

Ala Ile Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Leu Val
35 40 45

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

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

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

Ala Arg Ser Gly Ser Ala Tyr Phe Ser Gly Arg Tyr Tyr Trp Asn Tyr
100 105 110

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

<210> 84

<211> 123

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 84

Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Asp
1 5 10 15

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

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

Ala Ala Ile Thr Ser Gly Leu Ser Thr Tyr Tyr Ala Asp Ser Leu Lys
50 55 60

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

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

Ala Arg Glu Gly Gly Gly Ile Trp Thr Ser Ser Thr Gln Tyr Asp Tyr
100 105 110

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

<210> 85
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 85

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

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

Ala Met Ala Met Gly Trp Tyr Arg Gln Ala Pro Gly Lys Gln Arg Glu
35 40 45

Trp Val Ala Gly Ile Thr Gly Ser Arg Thr Thr Thr Tyr Ala Asp Ser
50 55 60

Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Glu Asn Thr Val
65 70 75 80

Phe Leu Gln Met Asn Asn Leu Lys Ser Glu Asp Thr Ala Val Tyr Tyr
85 90 95

Cys Asn Leu Trp Pro Pro Ser Arg Pro Asp His Trp Gly Gln Gly Thr
100 105 110

Gln Val Thr Val Ser Ser
115

<210> 86
<211> 115
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 86

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

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

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

Gly Ile Thr Gly Ser Arg Thr Thr Met Tyr Thr Glu Ser Val Lys Gly
50 55 60

Arg Phe Thr Ile Ser Arg Asp Asn Ala Glu Asn Thr Val Phe Leu Gln

65		70		75		80									
Met	Asn	Asn	Leu	Lys	Ser	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys	Asn	Leu
				85					90					95	

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

Val	Ser	Ser
		115

<210> 87
 <211> 10
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic polymer.

<400> 87

Gly	Gly	Phe	Asp	Ser	Arg	Asn	Ala	Met	Gly
1				5					10

<210> 88
 <211> 10
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic polymer.

<400> 88

Gly	Thr	Phe	Asp	Ser	Arg	Asn	Ala	Met	Gly
1				5					10

<210> 89
 <211> 10
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 89

Gly	Ser	Phe	Asp	Ser	Arg	Asn	Ala	Met	Gly
1				5					10

<210> 90

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 90

Gly	Ser	Ile	Asp	Ile	Arg	Asn	Ala	Met	Gly
1				5					10

<210> 91

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 91

Gly	Ser	Ile	Asp	Ser	Arg	Asn	Thr	Met	Gly
1				5					10

<210> 92

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 92

Glu	Ser	Ile	Asp	Val	Arg	Asn	Ala	Met	Gly
1				5					10

<210> 93
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 93

Gly	Ser	Phe	Asp	Ser	Arg	Asn	Ser	Met	Gly
1				5					10

<210> 94
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 94

Gly	Arg	Leu	Phe	Ser	Ala	Asn	Thr	Met	Gly
1				5					10

<210> 95
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 95

Gly	Ser	Ile	Phe	Val	Gly	Asn	Ala	Met	Gly
1				5					10

<210> 96
<211> 10
<212> PRT
<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 96

Gly	Ser	Ile	Ser	Met	Leu	Asn	Ser	Met	Gly
1				5					10

<210> 97

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 97

Gly	Ser	Ile	Phe	Ser	Ser	Asn	Ala	Met	Gly
1				5					10

<210> 98

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 98

Gly	Ser	Phe	Asp	Ser	Arg	Asn	Ala	Met	Ala
1				5					10

<210> 99

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 99

Gly	Thr	Met	Ser	Ser	Ile	Asn	Ala	Met	Gly
1				5					10

<210> 100
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 100

Gly	Ile	Ile	Ser	Ser	Met	Asn	Ala	Met	Gly
1				5					10

<210> 101
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 101

Gly	Thr	Ile	Leu	Ser	Ser	Asn	Ser	Met	Gly
1				5					10

<210> 102
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 102

Arg	Ser	Ile	Phe	Ser	Ile	Gly	Thr	Met	Gly
1				5					10

<210> 103
<211> 10
<212> PRT
<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 103

Gly	Arg	Thr	Phe	Ser	Thr	Tyr	Ala	Met	Gly
1				5					10

<210> 104

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 104

Gly	Arg	Thr	Phe	Ser	Ser	Tyr	Ala	Met	Gly
1				5					10

<210> 105

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 105

Gly	Arg	Thr	Phe	Gly	Thr	Tyr	Ala	Met	Gly
1				5					10

<210> 106

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 106

Gly	Arg	Thr	Phe	Gly	Ser	Tyr	Ala	Met	Gly
1				5					10

<210> 107
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 107

Gly	Arg	Thr	Phe	Gly	Thr	Tyr	Ala	Leu	Ala
1				5					10

<210> 108
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 108

Gly	Arg	Ala	Phe	Gly	Ser	Tyr	Ala	Met	Gly
1				5					10

<210> 109
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 109

Gly	Asn	Ile	Asp	Ser	Ile	Ala	Ser	Met	Gly
1				5					10

<210> 110
<211> 10
<212> PRT
<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 110

Gly	Arg	Thr	Phe	Ser	Asp	Tyr	Ala	Met	Gly
1				5					10

<210> 111

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 111

Gly	Arg	Thr	Phe	Ser	Met	Tyr	Ala	Ile	Gly
1				5					10

<210> 112

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 112

Glu	Arg	Thr	Phe	Ser	Met	Tyr	Ala	Ile	Gly
1				5					10

<210> 113

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 113

Gly	Arg	Thr	Phe	Ser	Ser	Tyr	Val	Met	Gly
1				5					10

<210> 114
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 114

Gly Thr Ile Phe Ser Ser Gly Ala Met Ala Met Gly
1 5 10

<210> 115
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 115

Gly Thr Ile Ser Ser Gly Ala Met Gly
1 5

<210> 116
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 116

Thr Ile Thr Ser Asp Gly Arg Thr Asn
1 5

<210> 117
<211> 9
<212> PRT
<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 117

Thr Ile Thr Thr Asp Gly Arg Thr Asn
1 5

<210> 118

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 118

Thr Ile Thr Thr Gly Gly Arg Thr Asn
1 5

<210> 119

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 119

Thr Ile Thr Ser Gly Ser Arg Thr Asn
1 5

<210> 120

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 120

Thr Ile Leu Ser Ser Gly Ser Thr Asn
1 5

<210> 121
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 121

Gly Ile Thr Ser Asp Gly Thr Thr Tyr
1 5

<210> 122
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 122

Gly Ile Thr Ser Gly Gly Arg Thr Asn
1 5

<210> 123
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 123

Gly Ile Arg Ser Asp Gly Asn Thr Asn
1 5

<210> 124
<211> 9
<212> PRT
<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 124

Gly Ile Ile Ser Asp Gly Ser Thr Asn
1 5

<210> 125

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 125

Gly Ile Leu Ser Asp Gly Thr Thr Lys
1 5

<210> 126

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 126

Gly Leu Gly Ser Gly Val Ser Thr Thr
1 5

<210> 127

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 127

Ser Ile Ser Thr Asp Gly Ser Thr Asn
1 5

<210> 128
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 128

Phe Ile Thr Val Asp His Asn Thr Tyr
1 5

<210> 129
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 129

Ala Ile Ser Asn Gly Gly Ser Ala Tyr
1 5

<210> 130
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 130

Ala Ile Ser Ser Gly Gly Ser Ala Tyr
1 5

<210> 131
<211> 9
<212> PRT
<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 131

Ala Ile Ser Thr Gly Gly Ser Thr Tyr
1 5

<210> 132

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 132

Ala Ile Ser Ser Gly Gly Thr Thr Tyr
1 5

<210> 133

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 133

Ala Ile Ser Ser Gly Gly Ser Thr Tyr
1 5

<210> 134

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 134

Ala Ile Ser Ala Gly Gly Ser Thr Leu
1 5

<210> 135
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 135

Ala Ile Ser Ser Gly Gly Ser Thr Leu
1 5

<210> 136
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 136

Ala Ile Ser Ser Gly Gly Ile Thr Tyr
1 5

<210> 137
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 137

Ala Ile Ser Val Gly Gly Ser Thr Tyr
1 5

<210> 138
<211> 9
<212> PRT
<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 138

Gly Ile Ser Ser Gly Gly Ile Thr Asn
1 5

<210> 139

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 139

Gly Ile Ser Trp Gly Gly Ser Ser Thr Tyr
1 5 10

<210> 140

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 140

Ser Ile Ser Ser Gly Gly Ser Thr Asn
1 5

<210> 141

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 141

Gly Ile Ser Ser Gly Gly Ser Thr Asn
1 5

<210> 142
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 142

Ala Ile Thr Ser Gly Leu Ser Thr Tyr
1 5

<210> 143
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 143

Gly Ile Thr Gly Ser Arg Thr Thr Thr
1 5

<210> 144
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 144

Gly Ile Thr Gly Ser Arg Thr Thr Met
1 5

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

<220>

<223> Synthetic polymer.

<400> 145

Asn Ala Ala Pro Pro Ile Phe Gly Ser
1 5

<210> 146

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 146

Asn Ala Ala Pro Pro Ile Phe Asn Ser
1 5

<210> 147

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 147

Asn Leu Ala Pro Pro Ile Phe Gly Ser
1 5

<210> 148

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 148

Asn Leu Ala Pro Pro Ile Phe Asn Ser
1 5

<210> 149
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 149

Asn Ala Ala Pro Pro Ile Leu Asn Ser
1 5

<210> 150
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 150

Asn Leu Ala Pro Pro Pro Glu Gly Tyr
1 5

<210> 151
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 151

Asn Phe Ala Pro Pro Pro Glu Gly Tyr
1 5

<210> 152
<211> 11
<212> PRT
<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 152

Asn	Leu	Trp	Pro	Pro	Arg	Ile	Gly	Phe	Ala	Ser
1				5					10	

<210> 153

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 153

Asn	Thr	Trp	Pro	Pro	Arg	Ile	Ala	Phe	Asp	Ser
1				5					10	

<210> 154

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 154

Asn	Tyr	Trp	Pro	Pro	Pro	Leu	Arg	Gln	Gly	Gly	Asp	Tyr	Ala	Tyr
1				5					10					15

<210> 155

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 155

Asn	Ala	Trp	Pro	Pro	Arg	Ile	Gly	Leu	Gly	Ser
1				5					10	

<210> 156
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 156

Asn Phe Phe Pro Pro Pro Val Pro Ala Ser
1 5 10

<210> 157
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 157

Asn Arg Trp Pro Pro Pro Tyr Asp Tyr
1 5

<210> 158
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 158

Asn Phe His Pro Pro Val Val Arg Asp Trp Gly Asp Thr Tyr
1 5 10

<210> 159
<211> 11
<212> PRT
<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 159

Asn	Arg	Ala	Pro	Pro	Ser	Thr	Asp	Gly	Asp	Arg
1				5					10	

<210> 160

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 160

Ala	Ala	Arg	Arg	Gly	Ser	Ala	Tyr	Tyr	Thr	Asn	Arg	Ile	Asp	Trp	Pro
1				5					10					15	

Tyr

<210> 161

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 161

Ala	Ala	Arg	Arg	Gly	Ser	Ala	Tyr	Tyr	Thr	Asn	His	Val	Asp	Trp	Pro
1				5					10					15	

Tyr

<210> 162

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 162

Ala	Ala	Arg	Thr	Gly	Ser	Ala	Tyr	Tyr	Thr	Asn	Arg	Ile	Asp	Trp	Pro
1				5					10					15	

Tyr

<210> 163

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 163

Ala	Ala	Lys	Thr	Gly	Ser	Ala	Tyr	Tyr	Thr	Asn	Arg	Ile	Asp	Trp	Pro
1				5					10					15	

Tyr

<210> 164

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 164

Ala	Ala	Arg	Thr	Gly	Gly	Ala	Ala	Tyr	Thr	Arg	Arg	Ile	Asp	Trp	Pro
1				5					10					15	

Tyr

<210> 165
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 165

Ala	Ala	Arg	Arg	Gly	Ser	Ala	Tyr	Tyr	Thr	Asn	His	Ile	Asp	Trp	Pro
1				5					10					15	

Tyr

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

<220>
<223> Synthetic polymer.

<400> 166

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

Tyr

<210> 167
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 167

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

Tyr

<210> 168
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 168

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

Tyr

<210> 169
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 169

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

Tyr

<210> 170
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 170

Ala Ala Arg Leu Ser Gly Val Ser Arg Ser Asp Arg Pro Tyr Asp Tyr
1 5 10 15

<210> 171

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 171

Ala Ala Arg Asp Gly Ser Ala Leu Tyr Thr Ala His Ser Asp Trp Asp
1 5 10 15

Tyr

<210> 172

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 172

Ala Ala Arg Ser Gly Ser Ala Tyr Phe Ser Gly Arg Tyr Tyr Trp Asn
1 5 10 15

Tyr

<210> 173

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 173

Ala Ala Arg Glu Gly Gly Gly Ile Trp Thr Ser Ser Thr Gln Tyr Asp
1 5 10 15

Tyr

<210> 174

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 174

Asn Leu Trp Pro Pro Ser Arg Pro Asp His
1 5 10

<210> 175

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 175

Asn Leu Trp Pro Pro Ser Arg Pro Asp Tyr
1 5 10

<210> 176

<211> 165

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 176

Cys Asp Leu Pro Gln Thr His Ser Leu Gly Ser Arg Arg Thr Leu Met
 1 5 10 15

Leu Leu Ala Gln Met Arg Lys Ile Ser Leu Phe Ser Cys Leu Lys Asp
 20 25 30

Arg His Asp Phe Gly Phe Pro Gln Glu Glu Phe Gly Asn Gln Phe Gln
 35 40 45

Lys Ala Glu Thr Ile Pro Val Leu His Glu Met Ile Gln Gln Ile Phe
 50 55 60

Asn Leu Phe Ser Thr Lys Asp Ser Ser Ala Ala Trp Asp Glu Thr Leu
 65 70 75 80

Leu Asp Lys Phe Tyr Thr Glu Leu Tyr Gln Gln Leu Asn Asp Leu Glu
 85 90 95

Ala Cys Val Ile Gln Gly Val Gly Val Thr Glu Thr Pro Leu Met Lys
 100 105 110

Glu Asp Ser Ile Leu Ala Val Arg Lys Tyr Phe Gln Arg Ile Thr Leu
 115 120 125

Tyr Leu Lys Glu Lys Lys Tyr Ser Pro Cys Ala Trp Glu Val Val Arg
 130 135 140

Ala Glu Ile Met Arg Ser Phe Ser Leu Ser Thr Asn Leu Gln Glu Ser
 145 150 155 160

Leu Arg Ser Lys Glu
 165

<210> 177
 <211> 165
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 177

Cys Asp Leu Pro Gln Thr His Ser Leu Gly Ser Arg Arg Thr Leu Met
1 5 10 15

Leu Leu Ala Gln Met Arg Arg Ile Ser Leu Phe Ser Cys Leu Lys Asp
20 25 30

Arg His Asp Phe Gly Phe Pro Gln Glu Glu Phe Gly Asn Gln Phe Gln
35 40 45

Lys Ala Glu Thr Ile Pro Val Leu His Glu Met Ile Gln Gln Ile Phe
50 55 60

Asn Leu Phe Ser Thr Lys Asp Ser Ser Ala Ala Trp Asp Glu Thr Leu
65 70 75 80

Leu Asp Lys Phe Tyr Thr Glu Leu Tyr Gln Gln Leu Asn Asp Leu Glu
85 90 95

Ala Cys Val Ile Gln Gly Val Gly Val Thr Glu Thr Pro Leu Met Lys
100 105 110

Glu Asp Ser Ile Leu Ala Val Arg Lys Tyr Phe Gln Arg Ile Thr Leu
115 120 125

Tyr Leu Lys Glu Lys Lys Tyr Ser Pro Cys Ala Trp Glu Val Val Arg
130 135 140

Ala Glu Ile Met Arg Ser Phe Ser Leu Ser Thr Asn Leu Gln Glu Ser
145 150 155 160

Leu Arg Ser Lys Glu
165

<210> 178
<211> 166
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 178

Met Ser Tyr Asn Leu Leu Gly Phe Leu Gln Arg Ser Ser Asn Phe Gln
1 5 10 15

Cys Gln Lys Leu Leu Trp Gln Leu Asn Gly Arg Leu Glu Tyr Cys Leu
20 25 30

Lys Asp Arg Met Asn Phe Asp Ile Pro Glu Glu Ile Lys Gln Leu Gln
35 40 45

Gln Phe Gln Lys Glu Asp Ala Ala Leu Thr Ile Tyr Glu Met Leu Gln
50 55 60

Asn Ile Phe Ala Ile Phe Arg Gln Asp Ser Ser Ser Thr Gly Trp Asn
65 70 75 80

Glu Thr Ile Val Glu Asn Leu Leu Ala Asn Val Tyr His Gln Ile Asn
85 90 95

His Leu Lys Thr Val Leu Glu Glu Lys Leu Glu Lys Glu Asp Phe Thr
100 105 110

Arg Gly Lys Leu Met Ser Ser Leu His Leu Lys Arg Tyr Tyr Gly Arg
115 120 125

Ile Leu His Tyr Leu Lys Ala Lys Glu Tyr Ser His Cys Ala Trp Thr
130 135 140

Ile Val Arg Val Glu Ile Leu Arg Asn Phe Tyr Phe Ile Asn Arg Leu
145 150 155 160

Thr Gly Tyr Leu Arg Asn
165

<210> 179
<211> 166
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 179

Cys Asp Leu Pro Gln Thr His Ser Leu Gly Asn Arg Arg Ala Leu Ile
1 5 10 15

Leu Leu Ala Gln Met Arg Arg Ile Ser Pro Phe Ser Cys Leu Lys Asp
20 25 30

Arg His Asp Phe Gly Phe Pro Gln Glu Glu Phe Asp Gly Asn Gln Phe
35 40 45

Gln Lys Ala Gln Ala Ile Ser Val Leu His Glu Met Ile Gln Gln Thr
50 55 60

Phe Asn Leu Phe Ser Thr Lys Asp Ser Ser Ala Ala Trp Asp Glu Ser
65 70 75 80

Leu Leu Glu Lys Phe Tyr Thr Glu Leu Tyr Gln Gln Leu Asn Asp Leu
85 90 95

Glu Ala Cys Val Ile Gln Glu Val Gly Val Glu Glu Thr Pro Leu Met
100 105 110

Asn Val Asp Ser Ile Leu Ala Val Lys Lys Tyr Phe Gln Arg Ile Thr
115 120 125

Leu Tyr Leu Thr Glu Lys Lys Tyr Ser Pro Cys Ala Trp Glu Val Val
130 135 140

Arg Ala Glu Ile Met Arg Ser Phe Ser Leu Ser Thr Asn Leu Gln Glu
 145 150 155 160

Arg Leu Arg Arg Lys Glu
 165

<210> 180
 <211> 165
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic polymer.

<400> 180

Ala Pro Met Ala Glu Gly Gly Gly Gln Asn His His Glu Val Val Lys
 1 5 10 15

Phe Met Asp Val Tyr Gln Arg Ser Tyr Cys His Pro Ile Glu Thr Leu
 20 25 30

Val Asp Ile Phe Gln Glu Tyr Pro Asp Glu Ile Glu Tyr Ile Phe Lys
 35 40 45

Pro Ser Cys Val Pro Leu Met Arg Cys Gly Gly Cys Cys Asn Asp Glu
 50 55 60

Gly Leu Glu Cys Val Pro Thr Glu Glu Ser Asn Ile Thr Met Gln Ile
 65 70 75 80

Met Arg Ile Lys Pro His Gln Gly Gln His Ile Gly Glu Met Ser Phe
 85 90 95

Leu Gln His Asn Lys Cys Glu Cys Arg Pro Lys Lys Asp Arg Ala Arg
 100 105 110

Gln Glu Asn Pro Cys Gly Pro Cys Ser Glu Arg Arg Lys His Leu Phe

115

120

125

Val Gln Asp Pro Gln Thr Cys Lys Cys Ser Cys Lys Asn Thr Asp Ser
 130 135 140

Arg Cys Lys Ala Arg Gln Leu Glu Leu Asn Glu Arg Thr Cys Arg Cys
 145 150 155 160

Asp Lys Pro Arg Arg
 165

<210> 181

<211> 165

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 181

Ala Pro Met Ala Glu Gly Gly Gly Gln Asn His His Glu Val Val Lys
 1 5 10 15

Phe Met Asp Val Tyr Gln Arg Ser Tyr Cys His Pro Ile Glu Thr Leu
 20 25 30

Val Asp Ile Phe Gln Glu Tyr Pro Asp Glu Ile Glu Tyr Ile Phe Lys
 35 40 45

Pro Ser Cys Val Pro Leu Met Arg Cys Gly Gly Cys Cys Asn Asp Glu
 50 55 60

Gly Leu Glu Cys Val Pro Thr Glu Glu Ser Asn Ile Thr Met Gln Ile
 65 70 75 80

Met Arg Ile Lys Pro His Gln Gly Gln His Ile Gly Glu Met Ser Phe
 85 90 95

Leu Gln His Asn Lys Cys Glu Cys Arg Pro Lys Lys Asp Arg Ala Arg
100 105 110

Gln Glu Asn Pro Cys Gly Pro Cys Ser Glu Arg Arg Lys His Leu Phe
115 120 125

Val Gln Asp Pro Gln Thr Cys Lys Cys Ser Cys Lys Asn Thr Asp Ser
130 135 140

Arg Cys Lys Ala Arg Gln Leu Glu Leu Asn Glu Arg Thr Cys Arg Ser
145 150 155 160

Leu Thr Arg Lys Asp
165

<210> 182
<211> 156
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 182

Val Arg Ser Ser Ser Arg Thr Pro Ser Asp Lys Pro Val Ala His Trp
1 5 10 15

Ala Asn Pro Gln Ala Glu Gly Gln Leu Gln Trp Leu Asn Arg Arg Ala
20 25 30

Asn Ala Leu Leu Ala Asn Gly Val Glu Leu Arg Asp Asn Gln Leu Val
35 40 45

Val Pro Ser Glu Gly Leu Tyr Leu Ile Tyr Ser Gln Val Leu Phe Lys
50 55 60

Gly Gln Gly Cys Pro Ser Thr His Val Leu Leu Thr His Thr Ile Ser
65 70 75 80

Arg Ile Ala Val Ser Tyr Gln Thr Lys Val Asn Leu Leu Ser Ala Ile
85 90 95

Lys Ser Pro Cys Gln Arg Glu Thr Pro Glu Gly Ala Glu Ala Lys Pro
100 105 110

Trp Tyr Glu Pro Ile Tyr Leu Gly Gly Val Phe Gln Leu Glu Lys Gly
115 120 125

Asp Arg Leu Ser Ala Glu Ile Asn Arg Pro Asp Tyr Leu Asp Phe Ala
130 135 140

Glu Ser Gly Gln Val Tyr Phe Gly Ile Ile Ala Leu
145 150 155

<210> 183
<211> 170
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 183

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

His Pro Lys Met His Leu Ala His Ser Asn Leu Lys Pro Ala Ala His
20 25 30

Leu Ile Gly Asp Pro Ser Lys Gln Asn Ser Leu Leu Trp Arg Ala Asn
35 40 45

Thr Asp Arg Ala Phe Leu Gln Asp Gly Phe Ser Leu Ser Asn Asn Ser
50 55 60

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

Ser Gly Lys Ala Tyr Ser Pro Lys Ala Thr Ser Ser Pro Leu Tyr Leu
85 90 95

Ala His Glu Val Gln Leu Phe Ser Ser Gln Tyr Pro Phe His Val Pro
100 105 110

Leu Leu Ser Ser Gln Lys Met Val Tyr Pro Gly Leu Gln Glu Pro Trp
115 120 125

Leu His Ser Met Tyr His Gly Ala Ala Phe Gln Leu Thr Gln Gly Asp
130 135 140

Gln Leu Ser Thr His Thr Asp Gly Ile Pro His Leu Val Leu Ser Pro
145 150 155 160

Ser Thr Val Phe Phe Gly Ala Phe Ala Leu
165 170

<210> 184
<211> 281
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 184

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

Val Leu Ile Val Ile Phe Thr Val Leu Leu Gln Ser Leu Cys Val Ala
20 25 30

Val Thr Tyr Val Tyr Phe Thr Asn Glu Leu Lys Gln Met Gln Asp Lys
35 40 45

Tyr Ser Lys Ser Gly Ile Ala Cys Phe Leu Lys Glu Asp Asp Ser Tyr

50

55

60

Trp Asp Pro Asn Asp Glu Glu Ser Met Asn Ser Pro Cys Trp Gln Val
 65 70 75 80

Lys Trp Gln Leu Arg Gln Leu Val Arg Lys Met Ile Leu Arg Thr Ser
 85 90 95

Glu Glu Thr Ile Ser Thr Val Gln Glu Lys Gln Gln Asn Ile Ser Pro
 100 105 110

Leu Val Arg Glu Arg Gly Pro Gln Arg Val Ala Ala His Ile Thr Gly
 115 120 125

Thr Arg Gly Arg Ser Asn Thr Leu Ser Ser Pro Asn Ser Lys Asn Glu
 130 135 140

Lys Ala Leu Gly Arg Lys Ile Asn Ser Trp Glu Ser Ser Arg Ser Gly
 145 150 155 160

His Ser Phe Leu Ser Asn Leu His Leu Arg Asn Gly Glu Leu Val Ile
 165 170 175

His Glu Lys Gly Phe Tyr Tyr Ile Tyr Ser Gln Thr Tyr Phe Arg Phe
 180 185 190

Gln Glu Glu Ile Lys Glu Asn Thr Lys Asn Asp Lys Gln Met Val Gln
 195 200 205

Tyr Ile Tyr Lys Tyr Thr Ser Tyr Pro Asp Pro Ile Leu Leu Met Lys
 210 215 220

Ser Ala Arg Asn Ser Cys Trp Ser Lys Asp Ala Glu Tyr Gly Leu Tyr
 225 230 235 240

Ser Ile Tyr Gln Gly Gly Ile Phe Glu Leu Lys Glu Asn Asp Arg Ile
 245 250 255

Phe Val Ser Val Thr Asn Glu His Leu Ile Asp Met Asp His Glu Ala
260 265 270

Ser Phe Phe Gly Ala Phe Leu Val Gly
275 280

<210> 185
<211> 153
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 185

Ala Pro Val Arg Ser Leu Asn Cys Thr Leu Arg Asp Ser Gln Gln Lys
1 5 10 15

Ser Leu Val Met Ser Gly Pro Tyr Glu Leu Lys Ala Leu His Leu Gln
20 25 30

Gly Gln Asp Met Glu Gln Gln Val Val Phe Ser Met Ser Phe Val Gln
35 40 45

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

Lys Asn Leu Tyr Leu Ser Cys Val Leu Lys Asp Asp Lys Pro Thr Leu
65 70 75 80

Gln Leu Glu Ser Val Asp Pro Lys Asn Tyr Pro Lys Lys Lys Met Glu
85 90 95

Lys Arg Phe Val Phe Asn Lys Ile Glu Leu Asn Asn Lys Leu Glu Phe
100 105 110

Glu Ser Ala Gln Phe Pro Asn Trp Tyr Ile Ser Thr Ser Gln Ala Glu

115

120

125

Asn Met Pro Val Phe Leu Gly Gly Thr Lys Gly Gly Gln Asp Ile Thr
 130 135 140

Asp Phe Thr Met Gln Phe Val Ser Ser
 145 150

<210> 186

<211> 133

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 186

Ala Pro Thr Ser Ser Ser Thr Lys Lys Thr Gln Leu Gln Leu Glu His
 1 5 10 15

Leu Leu Leu Asp Leu Gln Met Ile Leu Asn Gly Ile Asn Asn Tyr Lys
 20 25 30

Asn Pro Lys Leu Thr Arg Met Leu Thr Phe Lys Phe Tyr Met Pro Lys
 35 40 45

Lys Ala Thr Glu Leu Lys His Leu Gln Cys Leu Glu Glu Glu Leu Lys
 50 55 60

Pro Leu Glu Glu Val Leu Asn Leu Ala Gln Ser Lys Asn Phe His Leu
 65 70 75 80

Arg Pro Arg Asp Leu Ile Ser Asn Ile Asn Val Ile Val Leu Glu Leu
 85 90 95

Lys Gly Ser Glu Thr Thr Phe Met Cys Glu Tyr Ala Asp Glu Thr Ala
 100 105 110

Thr Ile Val Glu Phe Leu Asn Arg Trp Ile Thr Phe Cys Gln Ser Ile
115 120 125

Ile Ser Thr Leu Thr
130

<210> 187
<211> 129
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 187

His Lys Cys Asp Ile Thr Leu Gln Glu Ile Ile Lys Thr Leu Asn Ser
1 5 10 15

Leu Thr Glu Gln Lys Thr Leu Cys Thr Glu Leu Thr Val Thr Asp Ile
20 25 30

Phe Ala Ala Ser Lys Asn Thr Thr Glu Lys Glu Thr Phe Cys Arg Ala
35 40 45

Ala Thr Val Leu Arg Gln Phe Tyr Ser His His Glu Lys Asp Thr Arg
50 55 60

Cys Leu Gly Ala Thr Ala Gln Gln Phe His Arg His Lys Gln Leu Ile
65 70 75 80

Arg Phe Leu Lys Arg Leu Asp Arg Asn Leu Trp Gly Leu Ala Gly Leu
85 90 95

Asn Ser Cys Pro Val Lys Glu Ala Asn Gln Ser Thr Leu Glu Asn Phe
100 105 110

Leu Glu Arg Leu Lys Thr Ile Met Arg Glu Lys Tyr Ser Lys Cys Ser
115 120 125

Ser

<210> 188
<211> 185
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 188

Ala Pro Val Pro Pro Gly Glu Asp Ser Lys Asp Val Ala Ala Pro His
1 5 10 15

Arg Gln Pro Leu Thr Ser Ser Glu Arg Ile Asp Lys Gln Ile Arg Tyr
20 25 30

Ile Leu Asp Gly Ile Ser Ala Leu Arg Lys Glu Thr Cys Asn Lys Ser
35 40 45

Asn Met Cys Glu Ser Ser Lys Glu Ala Leu Ala Glu Asn Asn Leu Asn
50 55 60

Leu Pro Lys Met Ala Glu Lys Asp Gly Cys Phe Gln Ser Gly Phe Asn
65 70 75 80

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

Val Tyr Leu Glu Tyr Leu Gln Asn Arg Phe Glu Ser Ser Glu Glu Gln
100 105 110

Ala Arg Ala Val Gln Met Ser Thr Lys Val Leu Ile Gln Phe Leu Gln
115 120 125

Lys Lys Ala Lys Asn Leu Asp Ala Ile Thr Thr Pro Asp Pro Thr Thr
130 135 140

Asn Ala Ser Leu Thr Thr Lys Leu Gln Ala Gln Asn Gln Trp Leu Gln
145 150 155 160

Asp Met Thr Thr His Leu Ile Leu Arg Ser Phe Lys Glu Phe Leu Gln
165 170 175

Ser Ser Leu Arg Ala Leu Arg Gln Met
180 185

<210> 189
<211> 114
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 189

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

Glu Leu Val Asn Ile Thr Gln Asn Gln Lys Ala Pro Leu Cys Asn Gly
20 25 30

Ser Met Val Trp Ser Ile Asn Leu Thr Ala Gly Met Tyr Cys Ala Ala
35 40 45

Leu Glu Ser Leu Ile Asn Val Ser Gly Cys Ser Ala Ile Glu Lys Thr
50 55 60

Gln Arg Met Leu Ser Gly Phe Cys Pro His Lys Val Ser Ala Gly Gln
65 70 75 80

Phe Ser Ser Leu His Val Arg Asp Thr Lys Ile Glu Val Ala Gln Phe
85 90 95

Val Lys Asp Leu Leu Leu His Leu Lys Lys Leu Phe Arg Glu Gly Arg

100

105

110

Phe Asn

<210> 190

<211> 194

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 190

Met	Ala	Ala	Glu	Pro	Val	Glu	Asp	Asn	Cys	Ile	Asn	Phe	Val	Ala	Met
1				5					10					15	

Lys	Phe	Ile	Asp	Asn	Thr	Leu	Tyr	Phe	Ile	Ala	Glu	Asp	Asp	Glu	Asn
			20					25					30		

Leu	Glu	Ser	Asp	Tyr	Phe	Gly	Lys	Leu	Glu	Ser	Lys	Leu	Ser	Val	Ile
		35					40					45			

Arg	Asn	Leu	Asn	Asp	Gln	Val	Leu	Phe	Ile	Asp	Gln	Gly	Asn	Arg	Pro
	50					55					60				

Leu	Phe	Glu	Asp	Met	Thr	Asp	Ser	Asp	Cys	Arg	Asp	Asn	Ala	Pro	Arg
65					70				75						80

Thr	Ile	Phe	Leu	Ile	Ser	Met	Tyr	Lys	Asp	Ser	Gln	Pro	Arg	Gly	Met
				85					90					95	

Ala	Val	Thr	Ile	Ser	Val	Lys	Cys	Glu	Lys	Ile	Ser	Thr	Leu	Ser	Cys
			100					105					110		

Glu	Asn	Lys	Ile	Ile	Ser	Phe	Lys	Glu	Met	Asn	Pro	Pro	Asp	Asn	Ile
		115					120					125			

Lys Asp Thr Lys Ser Asp Ile Ile Phe Phe Gln Arg Ser Val Pro Gly
 130 135 140

His Asp Asn Lys Met Gln Phe Glu Ser Ser Ser Tyr Glu Gly Tyr Phe
 145 150 155 160

Leu Ala Cys Glu Lys Glu Arg Asp Leu Phe Lys Leu Ile Leu Lys Lys
 165 170 175

Glu Asp Glu Leu Gly Asp Arg Ser Ile Met Phe Thr Val Gln Asn Glu
 180 185 190

Asp Leu

<210> 191
 <211> 270
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic polymer.

<400> 191

Met Lys Pro Lys Met Lys Tyr Ser Thr Asn Lys Ile Ser Thr Ala Lys
 1 5 10 15

Trp Lys Asn Thr Ala Ser Lys Ala Leu Cys Phe Lys Leu Gly Lys Ser
 20 25 30

Gln Gln Lys Ala Lys Glu Val Cys Pro Met Tyr Phe Met Lys Leu Arg
 35 40 45

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

Thr Lys Arg Pro Ser Leu Lys Thr Gly Arg Lys His Lys Arg His Leu
 65 70 75 80

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

<210> 192
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 192

Gly Phe Thr Phe Asp Asp Tyr Ala Met Ser
1 5 10

<210> 193
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 193

Gly Phe Thr Phe Asp Asp Tyr Ala Ile Gly
1 5 10

<210> 194
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 194

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

Gly

<210> 195
<211> 17
<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 195

Cys	Ile	Arg	Val	Ser	Asp	Gly	Ser	Thr	Tyr	Tyr	Ala	Asp	Pro	Val	Lys
1				5					10					15	

Gly

<210> 196

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 196

Lys	Asp	Ala	Asp	Leu	Val	Trp	Tyr	Asn	Leu	Ser
1				5					10	

<210> 197

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 197

Lys	Asp	Ala	Asp	Leu	Val	Trp	Tyr	Asn	Leu	Arg
1				5					10	

<210> 198

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 198

Ala Gly Ser Leu Tyr Thr Cys Val Gln Ser Ile Trp Val Pro Ala Arg
1 5 10 15

Pro Tyr Tyr Asp Met Asp Tyr
20

<210> 199

<211> 132

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 199

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

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

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

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

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

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

Ala Lys Asp Ala Asp Leu Val Trp Tyr Asn Leu Ser Thr Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser Ala Ala Ala Tyr Pro Tyr Asp Val Pro
115 120 125

Asp Tyr Gly Ser
130

<210> 200
<211> 132
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 200

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

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

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

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

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

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

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

Thr Gln Val Thr Val Ser Ser Ala Ala Ala Tyr Pro Tyr Asp Val Pro
115 120 125

Asp Tyr Gly Ser
130

<210> 201
<211> 145
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 201

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

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

Ala Ile Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Gly Val
35 40 45

Ser Cys Ile Arg Val Ser Asp Gly Ser Thr Tyr Tyr Ala Asp Pro Val
50 55 60

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

Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Ala Ala Val Tyr Tyr Cys
85 90 95

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

Ala Arg Pro Tyr Tyr Asp Met Asp Tyr Trp Gly Lys Gly Thr Gln Val
115 120 125

Thr Val Ser Ser Ala Ala Ala Tyr Pro Tyr Asp Val Pro Asp Tyr Gly

130

135

140

Ser
145

<210> 202
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 202

Gly	Arg	Ser	Phe	Ser	Ser	Tyr	Thr	Leu	Ala
1				5					10

<210> 203
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 203

Gly	Arg	Thr	Phe	Ser	Ser	Tyr	Thr	Met	Gly
1				5					10

<210> 204
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 204

Gly	Arg	Thr	Phe	Ser	Ser	Tyr	Ile	Met	Gly
1				5					10

<210> 205
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 205

Gly	Arg	Thr	Phe	Ser	Ser	Tyr	Thr	Met	Gly
1				5					10

<210> 206
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 206

Gly	Arg	Thr	Ser	Gly	Arg	Thr	Phe	Ser	Ser	Tyr	Thr	Met	Gly
1				5									10

<210> 207
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 207

Gly	Arg	Thr	Phe	Ser	Ser	Tyr	Ala	Met	Gly
1				5					10

<210> 208
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 208

Gly Leu Thr Phe Ser Asn Tyr Ile Met Gly
1 5 10

<210> 209

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 209

Gly Arg Thr Phe Ser Ser Tyr Thr Met Gly
1 5 10

<210> 210

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 210

Gly Arg Thr Phe Ser Ser Asp Thr Met Gly
1 5 10

<210> 211

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 211

Gly Leu Thr Phe Ser Asn Tyr Ile Met Gly
1 5 10

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

<220>
<223> Synthetic polymer.

<400> 212

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

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

<220>
<223> Synthetic polymer.

<400> 213

Gly His Thr Phe Ser Ser Tyr Thr Met Gly
1 5 10

<210> 214
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 214

Gly Arg Thr Phe Ser Ser Tyr Val Ile Gly
1 5 10

<210> 215
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 215

Gly Phe Ala Phe Asp Gly Tyr Ala Ile Gly
1 5 10

<210> 216

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 216

Gly Phe Ala Phe Gly Phe Phe Asp Met Thr
1 5 10

<210> 217

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 217

Gly Arg Thr Phe Ser Asn Tyr Val Ile Gly
1 5 10

<210> 218

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 218

Gly Ser Ile Phe Ser Ile Asn Val Met Gly
1 5 10

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

<220>
<223> Synthetic polymer.

<400> 219

Gly	Arg	Thr	Phe	Ser	Asn	Tyr	Asn	Val	Gly
1				5					10

<210> 220
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 220

Gly	His	Thr	Phe	Ser	Ser	Tyr	Thr	Met	Gly
1				5					10

<210> 221
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 221

Gly	Arg	Thr	Phe	Ser	Thr	Tyr	Pro	Val	Gly
1				5					10

<210> 222
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 222

Gly Arg Thr Phe Ser Asn Tyr Ala Met Gly
1 5 10

<210> 223

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 223

Gly Arg Thr Phe Ser Asp Tyr Arg Met Gly
1 5 10

<210> 224

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 224

Gly Leu Thr Phe Ser Asn Tyr Ile Met Ala
1 5 10

<210> 225

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 225

Gly Arg Thr Phe Ser Asn Ser Val Met Gly
1 5 10

<210> 226
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 226

Gly	Arg	Thr	Phe	Ser	Ser	Tyr	Ile	Ile	Gly
1				5					10

<210> 227
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 227

Gly	Arg	Thr	Phe	Ser	Ser	Tyr	Val	Met	Gly
1				5					10

<210> 228
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 228

Gly	Gly	Thr	Phe	Ser	Asn	Tyr	Val	Met	Gly
1				5					10

<210> 229
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 229

Gly Arg Thr Phe Ser Asn Tyr Gly Ile Gly
1 5 10

<210> 230

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 230

Gly Phe Thr Phe Asp Asp Tyr Ala Ile Ala
1 5 10

<210> 231

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 231

Gly Arg Thr Phe Ser Ser Tyr Thr Val Ala
1 5 10

<210> 232

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 232

Gly Phe Pro Phe Asp Asp Tyr Ala Ile Ala
1 5 10

<210> 233
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 233

Gly	Arg	Thr	Phe	Ser	Ser	Tyr	Val	Met	Gly
1				5					10

<210> 234
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 234

Gly	Arg	Thr	Leu	Ser	Ser	Asn	Pro	Met	Ala
1				5					10

<210> 235
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 235

Gly	Phe	Thr	Phe	Asp	Asn	Tyr	Ala	Ile	Gly
1				5					10

<210> 236
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 236

Gly Arg Ala Phe Ser Ser Tyr Phe Met Gly
1 5 10

<210> 237

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 237

Thr Pro Thr Phe Ser Ser Tyr Asn Met Gly
1 5 10

<210> 238

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 238

Gly Phe Thr Phe Asp Asp Tyr Ala Ile Ala
1 5 10

<210> 239

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 239

Gly Gly Thr Phe Ser Gly Tyr Ile Met Gly
1 5 10

<210> 240
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 240

Gly Arg Ser Phe Ser Ser Tyr Thr Ile Ala
1 5 10

<210> 241
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 241

Gly Phe Ser Ser Asp Asp Tyr Thr Ile Gly
1 5 10

<210> 242
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 242

Gly Phe Thr Phe Asp Asp Tyr Thr Ile Gly
1 5 10

<210> 243
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 243

Gly Phe Ser Ser Asp Asp Tyr Thr Ile Gly
1 5 10

<210> 244

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 244

Gly Phe Thr Phe Asp Gln Tyr Thr Ile Ala
1 5 10

<210> 245

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 245

Gly Arg Thr Phe Ser Ser Tyr Ala Met Ala
1 5 10

<210> 246

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 246

Gly Phe Ala Phe Asp Gly Tyr Ala Ile Gly
1 5 10

<210> 247
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 247

Gly Phe Ser Ser Asp Asp Tyr Thr Ile Ala
1 5 10

<210> 248
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 248

Gly Phe Ser Ser Asp Asp Tyr Thr Ile Gly
1 5 10

<210> 249
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 249

Gly Phe Thr Phe Asp Asp Tyr Thr Ile Gly
1 5 10

<210> 250
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 250

Gly Phe Ser Ser Asp Asp Tyr Thr Ile Gly
1 5 10

<210> 251

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 251

Gly Phe Ser Ser Asp Asp Tyr Thr Ile Gly
1 5 10

<210> 252

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 252

Gly Phe Ser Phe Asp Asp Tyr Ala Ile Ala
1 5 10

<210> 253

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 253

Gly Phe Ser Ser Asp Asp Tyr Thr Ile Gly
1 5 10

<210> 254
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 254

Gly Phe Thr Gly Asn Asp Leu Ala Ile Gly
1 5 10

<210> 255
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 255

Gly Phe Ser Ser Asp Asp Tyr Thr Ile Ala
1 5 10

<210> 256
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 256

Glu Gly Thr Leu Ser Ser Tyr Gly Ile Gly
1 5 10

<210> 257
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 257

Gly Phe Ser Ser Asp Asp Tyr Thr Ile Ala
1 5 10

<210> 258

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 258

Gly Phe Thr Phe Asp Asp Tyr Ala Ile Ala
1 5 10

<210> 259

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 259

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

<210> 260

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 260

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

<210> 261
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 261

Gly Phe Ser Ser Asp Asp Tyr Thr Ile Gly
1 5 10

<210> 262
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 262

Gly Phe Ser Phe Asp Asp Tyr Thr Ile Gly
1 5 10

<210> 263
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 263

Gly Phe Thr Phe Asp Asp Tyr Ala Ile Ala
1 5 10

<210> 264
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 264

Gly Phe Thr Phe Asp Asp Tyr Ala Ile Gly
1 5 10

<210> 265

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 265

Gly Phe Thr Phe Gly Asp Tyr Thr Ile Gly
1 5 10

<210> 266

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 266

Glu Gly Thr Phe Ser Ser Tyr Gly Ile Gly
1 5 10

<210> 267

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 267

Gly Phe Ser Ser Asp Asp Tyr Thr Ile Gly
1 5 10

<210> 268
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 268

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

<210> 269
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 269

Gly Phe Thr Phe Asp Asp Tyr Thr Ile Ala
1 5 10

<210> 270
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 270

Gly Phe Thr Phe Asp Asp Tyr Thr Ile Ala
1 5 10

<210> 271
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 271

Ala Ser Ile Thr Trp Gly Gly Gly Asn Thr Tyr
1 5 10

<210> 272

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 272

Ala Ala Thr Val Trp Thr Gly Ala Gly Thr Val
1 5 10

<210> 273

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 273

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

<210> 274

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 274

Ala Phe Ile Asp Trp Ser Gly Gly Gly Thr Tyr
1 5 10

<210> 275
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 275

Ala	Thr	Ile	Thr	Trp	Gly	Gly	Gly	Ser	Thr	Tyr
1				5					10	

<210> 276
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 276

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

<210> 277
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 277

Ala	Ala	Ile	Thr	Trp	Gly	Gly	Gly	Ser	Thr	Val
1				5					10	

<210> 278
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 278

Ala Ala Ile Thr Trp Ser Gly Val Ser Thr Val
1 5 10

<210> 279

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 279

Gly Ala Ile Met Trp Ser Gly Ala Phe Thr His
1 5 10

<210> 280

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 280

Ala Ala Ile Thr Trp Gly Gly Gly Ser Thr Val
1 5 10

<210> 281

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 281

Ser Cys Ile Ser Ser Ser Asp Arg Asn Thr Tyr
1 5 10

<210> 282
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 282

Ala Phe Ile Asp Trp Ser Gly Gly Gly Thr Tyr
1 5 10

<210> 283
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 283

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

<210> 284
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 284

Ala Cys Ile Ser Ser Lys Asp Gly Ser Thr Tyr
1 5 10

<210> 285
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 285

Ser Gly Ile Asn Ser Ile Gly Gly Ser Thr Thr
1 5 10

<210> 286

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 286

Ala Trp Thr Trp Ser Gly Asp Ser Thr Tyr
1 5 10

<210> 287

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 287

Ala Lys Ile Thr Asn Phe Gly Ile Thr Ser
1 5 10

<210> 288

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 288

Ser Phe Ile Ser Trp Ile Ser Asp Ile Thr Tyr
1 5 10

<210> 289
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 289

Ala Phe Ile Asp Trp Ser Gly Gly Gly Thr Tyr
1 5 10

<210> 290
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 290

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

<210> 291
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 291

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

<210> 292
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 292

Ala Ala Ile Ser Ser Ser Gly Tyr His Thr Tyr
1 5 10

<210> 293

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 293

Ser Cys Ile Ser Ser Pro Asp Gly Ser Thr Tyr
1 5 10

<210> 294

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 294

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

<210> 295

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 295

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

<210> 296
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 296

Ala Ala Ile Gly Trp Asn Gly Gly Ile Thr Tyr
1 5 10

<210> 297
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 297

Gly Phe Ile Thr Trp Ser Gly Ala Ser Thr Tyr
1 5 10

<210> 298
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 298

Ala Gly Ile Asn Trp Ser Gly Glu Ser Ala Asp
1 5 10

<210> 299
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 299

Ser	Cys	Ile	Glu	Arg	Ser	Asp	Gly	Ser	Thr	Tyr
1				5					10	

<210> 300

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 300

Ser	Cys	Ile	Ser	Asn	Thr	Asp	Ser	Ser	Thr	Tyr
1				5					10	

<210> 301

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 301

Ser	Cys	Ile	Ser	Asn	Thr	Asp	Ser	Ser	Thr	Tyr
1				5					10	

<210> 302

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 302

Ala	Gln	Ile	Ser	Trp	Ser	Ala	Gly	Ser	Ile	Tyr
1				5					10	

<210> 303
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 303

Ala Gly Met Ser Trp Asn Pro Gly Pro Ala Val
1 5 10

<210> 304
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 304

Ser Cys Ile Ser Arg Ser Asp Gly Ser Thr Tyr
1 5 10

<210> 305
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 305

Ala Asn Ile Gly Trp Thr Gly Asp Met Thr Tyr
1 5 10

<210> 306
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 306

Ala Ala Ile Ile Trp Ser Gly Ser Met Thr Tyr
1 5 10

<210> 307

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 307

Ser Cys Ile Ser Asn Thr Asp Ser Ser Thr Tyr
1 5 10

<210> 308

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 308

Ala Ala Asn Thr Trp Ser Gly Gly Pro Thr Tyr
1 5 10

<210> 309

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 309

Ser Cys Ile Ser Ser Asp Gly Ser Thr Gly
1 5 10

<210> 310
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 310

Ser	Cys	Tyr	Ser	Ser	Ser	Asp	Gly	Ser	Thr	Gly
1				5					10	

<210> 311
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 311

Ser	Cys	Ile	Ser	Ser	Asp	Gly	Ser	Thr	Gly
1				5					10

<210> 312
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 312

Gly	Cys	Ile	Lys	Ser	Ser	Asp	Gly	Thr	Thr	Gly
1				5					10	

<210> 313
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 313

Ser Cys Ile Ser Asn Thr Asp Ser Ser Thr Tyr
1 5 10

<210> 314

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 314

Ala Ala Ile Ala Trp Ser Ala Gly Ser Thr Tyr
1 5 10

<210> 315

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 315

Ser Cys Ile Ser Ser Lys Glu Gly Ser Thr Tyr
1 5 10

<210> 316

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 316

Ser Cys Ile Ser Ser Ser Asp Gly Ser Thr Gly
1 5 10

<210> 317
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 317

Ser	Cys	Tyr	Ser	Ser	Arg	Asp	Gly	Thr	Thr	Gly
1				5					10	

<210> 318
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 318

Ser	Cys	Ile	Ser	Ser	Asp	Gly	Ser	Thr	Gly
1				5					10

<210> 319
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 319

Ser	Cys	Tyr	Ser	Ser	Ser	Asp	Gly	Ser	Thr	Gly
1				5					10	

<210> 320
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 320

Ser Cys Phe Ser Ser Ser Asp Gly Ser Thr Gly
1 5 10

<210> 321

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 321

Ser Cys Ile Ser Asn Thr Asp Ser Ser Thr Phe
1 5 10

<210> 322

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 322

Ser Cys Tyr Ser Ser Ser Asp Gly Ser Thr Gly
1 5 10

<210> 323

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 323

Ser Cys Ile Ser Asn Thr Asp Ser Ser Thr Tyr
1 5 10

<210> 324
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 324

Ser	Cys	Ile	Ser	Ser	Ser	Asp	Gly	Ser	Thr	Gly
1				5					10	

<210> 325
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 325

Gly	Gly	Ile	Asn	Trp	Ser	Gly	Asp	Ser	Thr	Asp
1				5					10	

<210> 326
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 326

Ser	Cys	Phe	Ser	Ser	Ser	Asp	Gly	Ser	Ala	Gly
1				5					10	

<210> 327
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 327

Ser Cys Ile Ser Asn Thr Asp Ser Ser Thr Tyr
1 5 10

<210> 328

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 328

Ser Cys Phe Ser Thr Arg Asp Gly Asn Ala Gly
1 5 10

<210> 329

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 329

Ser Cys Phe Ser Ser Arg Asp Gly Ser Thr Gly
1 5 10

<210> 330

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 330

Ser Cys Phe Ser Ser Arg Asp Gly Ser Thr Gly
1 5 10

<210> 331
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 331

Ser Cys Ile Ser Ser Asp Gly Ser Thr Gly
1 5 10

<210> 332
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 332

Ser Cys Ile Ser Asn Thr Asp Ser Ser Thr Tyr
1 5 10

<210> 333
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 333

Ser Cys Ile Ser Ser Pro Asp Gly Ser Thr Tyr
1 5 10

<210> 334
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 334

Ser Cys Tyr Ser Ser Ser Asp Gly Asn Thr Gly
1 5 10

<210> 335

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 335

Gly Gly Ile Asn Trp Ser Gly Asp Ser Thr Asp
1 5 10

<210> 336

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 336

Ser Cys Phe Ser Ser Ser Asp Gly Ser Thr Gly
1 5 10

<210> 337

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 337

Ser Cys Ile Ser Ser Gly Asp Gly Thr Thr Tyr
1 5 10

<210> 338
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 338

Ser Cys Ile Ser Ser Asp Gly Ser Thr Gly
1 5 10

<210> 339
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 339

Ser Cys Ile Ser Ser Asp Gly Ser Thr Gly
1 5 10

<210> 340
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 340

Ala Lys Gly Leu Arg Asn Ser Asp Trp Asp Leu Arg Arg Gly Tyr Glu
1 5 10 15

Tyr Asp Tyr

<210> 341
<211> 25
<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 341

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

Ile	Ala	Ser	Pro	Ser	Glu	Tyr	Asp	Tyr
			20					25

<210> 342

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 342

Ala	Asn	Ser	Arg	Ala	Tyr	Tyr	Ser	Ser	Ser	Tyr	Asp	Leu	Gly	Arg	Leu
1				5					10					15	

Ala	Ser	Tyr	Asp	Tyr
			20	

<210> 343

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 343

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

<210> 344

<211> 20

<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 344

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

Asn	Tyr	Asp	Tyr
			20

<210> 345
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 345

Ala	Lys	Arg	Leu	Asp	Tyr	Ser	Ala	Thr	Asp	Lys	Gly	Val	Asp	Leu	Ser
1				5					10					15	

Asp	Glu	Tyr	Asp	Tyr
				20

<210> 346
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 346

Ala	Ala	Gly	Gly	Ser	Gly	Arg	Leu	Arg	Asp	Leu	Lys	Val	Gly	Gln	Asn
1				5					10					15	

Tyr	Asp	Tyr
-----	-----	-----

<210> 347
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 347

Ala Asp Ser Pro Pro Arg Thr Tyr Ser Ser Gly Ser Val Asn Leu Glu
1 5 10 15

Asp Gly Ser Glu Tyr Asp Tyr
20

<210> 348
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 348

Val Ile Pro Gly Arg Gly Ser Ala Leu Pro Ile Asp Val Gly Lys Ser
1 5 10 15

Asp Glu Tyr Glu Tyr
20

<210> 349
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 349

Ala Ala Gly Ala Ser Gly Arg Leu Arg Asp Leu Lys Val Gly Gln Asn
1 5 10 15

Tyr Asp Tyr

<210> 350
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 350

Ala Asp Gly Asn Val Trp Ser Pro Pro Ile Cys Gly Ser Ala Gly Pro
1 5 10 15

Pro Pro Gly Gly Met Asp Tyr
20

<210> 351
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 351

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

<210> 352
<211> 22
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 352

Ala Ile Pro Pro Arg Ala Tyr Ser Gly Gly Ser Tyr Ser Leu Lys Asp
1 5 10 15

Gln Ser Lys Tyr Glu Tyr
20

<210> 353
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 353

Ala Asp Gly Asn Val Trp Ser Pro Pro Ile Cys Ser Ser Ala Gly Pro
1 5 10 15

Pro Pro Gly Gly Met Asp Tyr
20

<210> 354
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 354

Lys Ser Arg Ser Ser Tyr Ser Asn Asn
1 5

<210> 355
<211> 22
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 355

Ala Met Pro Pro Arg Ala Tyr Thr Gly Arg Ser Val Ser Leu Lys Asp
1 5 10 15

Gln Ser Lys Tyr Glu Tyr
20

<210> 356

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 356

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

<210> 357

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 357

Ala His Pro Pro Asp Pro Ser Arg Gly Gly Glu Trp Arg Leu Gln Thr
1 5 10 15

Pro Ser Glu Tyr Asp Tyr
20

<210> 358

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 358

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

<210> 359

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 359

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

Gly Ala Pro Ser Trp Tyr Glu Tyr
20

<210> 360

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 360

Ala Val Leu Ile Arg Tyr Tyr Ser Gly Gly Tyr Gln Gly Leu Ser Asp
1 5 10 15

Ala Asn Glu Tyr Asp Tyr
20

<210> 361

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 361

Trp	Lys	Tyr	Leu	Ser	Gly	Ser	Tyr	Ser	Tyr	Ala	Gly	Gln	Tyr	Asn	Phe
1				5					10					15	

<210> 362

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 362

Ala	Asp	Phe	Asn	Val	Trp	Ser	Pro	Pro	Ile	Cys	Gly	Ser	Val	Gly	Pro
1				5					10					15	

Pro	Pro	Gly	Gly	Met	Asp	Tyr
			20			

<210> 363

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 363

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

Arg	Arg	Tyr	Val	Tyr
			20	

<210> 364

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 364

Ala	Val	Pro	Ala	Arg	Gly	Leu	Thr	Met	Asp	Leu	Glu	Asn	Ser	Asp	Ile
1				5					10					15	

Tyr Asp His

<210> 365

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 365

Ala	Ala	Thr	Leu	Gln	Val	Thr	Gly	Ser	Tyr	Tyr	Leu	Asp	Leu	Ser	Thr
1				5					10					15	

Val Asp Ile Tyr Asp Asn
20

<210> 366

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 366

Ala	Thr	Leu	Phe	Arg	Ser	Asn	Gly	Pro	Lys	Asp	Leu	Ser	Ser	Gly	Tyr
1				5					10					15	

Glu Tyr Asp Tyr
20

<210> 367
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 367

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

<210> 368
<211> 22
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 368

Val Gly Ser Ala Asn Ser Gly Glu Phe Arg Phe Gly Trp Val Leu Lys
1 5 10 15

Pro Asp Leu Tyr Asn Tyr
20

<210> 369
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 369

Ala Asp Gly Asn Val Trp Ser Pro Pro Ile Cys Gly Ser Ala Gly Pro
1 5 10 15

Pro Pro Gly Gly Met Asp Tyr
20

<210> 370
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 370

Ala	Asp	Gly	Asn	Val	Trp	Ser	Pro	Pro	Ile	Cys	Gly	Ser	Ala	Gly	Pro
1				5					10					15	

Pro	Pro	Gly	Gly	Met	Asp	Tyr
				20		

<210> 371
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 371

Glu	Arg	Gly	Tyr	Ala	Tyr	Cys	Ser	Asp	Asp	Gly	Cys	Gln	Arg	Thr	Gln
1				5					10					15	

Asp	Tyr	Asp	Tyr
			20

<210> 372
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 372

Gly	Ala	Ala	Arg	Ala	Trp	Trp	Ser	Gly	Ser	Tyr	Asp	Tyr	Thr	Arg	Met
1				5					10					15	

Asn Asn Tyr Asp Tyr
20

<210> 373
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 373

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

Lys Pro Ser Leu Tyr Asp Tyr
20

<210> 374
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 374

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

Ala Asn Tyr Asp Tyr
20

<210> 375
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 375

Ala Gln Arg Ile Phe Gly Ala Gln Pro Met Asp Leu Ser Gly Asp Tyr
1 5 10 15

Glu Tyr

<210> 376

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 376

Ala Asp Gly Asn Val Trp Ser Pro Pro Ile Cys Gly Ser Ala Gly Pro
1 5 10 15

Pro Pro Gly Gly Met Asp Tyr
20

<210> 377

<211> 18

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 377

Ala Arg Asp Tyr Arg Gly Ile Lys Asp Leu Asp Leu Lys Gly Asp Tyr
1 5 10 15

Asp Tyr

<210> 378

<211> 25

<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 378

Ala	Asp	Phe	Asn	Val	Trp	Ser	Pro	Pro	Ile	Cys	Gly	Ser	Ile	Trp	Tyr
1				5					10					15	

Gly	Pro	Pro	Pro	Arg	Gly	Met	Asp	Tyr
			20					25

<210> 379
<211> 25
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 379

Ala	Asp	Ser	Asn	Val	Trp	Ser	Pro	Pro	Ile	Cys	Gly	Ser	Arg	Trp	Tyr
1				5					10					15	

Gly	Pro	Pro	Pro	Gly	Gly	Met	Ala	Tyr
			20					25

<210> 380
<211> 25
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 380

Ala	Asp	Phe	Asn	Val	Trp	Ser	Pro	Pro	Ile	Cys	Gly	Ser	Asn	Trp	Tyr
1				5					10					15	

Gly	Pro	Pro	Pro	Gly	Gly	Met	Asp	Tyr
-----	-----	-----	-----	-----	-----	-----	-----	-----

20

25

<210> 381
<211> 25
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 381

Ala Asp Phe Asn Val Trp Ser Pro Pro Ile Cys Gly Ser Ile Trp Tyr
1 5 10 15

Gly Pro Pro Pro Gly Gly Met Asp Tyr
20 25

<210> 382
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 382

Ala Asp Gly Asn Val Trp Ser Pro Pro Ile Cys Gly Ser Ala Gly Pro
1 5 10 15

Pro Pro Gly Gly Met Asp Tyr
20

<210> 383
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 383

Ala	Arg	Ile	Ile	Thr	Val	Ala	Thr	Met	Arg	Leu	Asp	Ser	Asp	Tyr	Asp
1				5					10					15	

Tyr

<210> 384
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic polymer.

<400> 384

Ala	Asp	Gly	Asn	Val	Trp	Ser	Pro	Pro	Ile	Cys	Gly	Ser	Ala	Gly	Pro
1				5					10					15	

Pro	Pro	Gly	Gly	Met	Asp	Tyr
			20			

<210> 385
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic polymer.

<400> 385

Ala	Asp	Ser	Asn	Val	Trp	Ser	Pro	Pro	Ile	Cys	Gly	Arg	Thr	Trp	Tyr
1				5					10					15	

Gly	Pro	Pro	Pro	Gly	Gly	Met	Asp	Tyr
			20					25

<210> 386
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 386

Ala	Asp	Phe	Asn	Val	Trp	Ser	Pro	Pro	Ile	Cys	Gly	Ser	Ile	Trp	Tyr
1				5					10					15	

Gly	Pro	Pro	Pro	Gly	Gly	Met	Ala	Tyr
			20					25

<210> 387

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 387

Ala	Asp	Phe	Asn	Val	Trp	Ser	Pro	Pro	Ile	Cys	Gly	Ser	Asn	Trp	Tyr
1				5					10					15	

Gly	Pro	Pro	Pro	Gly	Gly	Met	Asp	Tyr
			20					25

<210> 388

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 388

Ala	Asp	Phe	Asn	Val	Trp	Ser	Pro	Pro	Ile	Cys	Gly	Ser	Ser	Trp	Tyr
1				5					10					15	

Gly	Pro	Pro	Pro	Gly	Gly	Met	Asp	Tyr
			20					25

<210> 389
<211> 25
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 389

Ala	Asp	Phe	Asn	Val	Trp	Ser	Pro	Pro	Ile	Cys	Gly	Ser	Arg	Trp	Tyr
1				5					10					15	

Gly	Pro	Pro	Pro	Gly	Gly	Met	Glu	Tyr
			20					25

<210> 390
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 390

Ala	Asp	Gly	Asn	Val	Trp	Ser	Pro	Pro	Ile	Cys	Gly	Ser	Ala	Gly	Pro
1				5					10					15	

Pro	Pro	Gly	Gly	Met	Asp	Tyr
			20			

<210> 391
<211> 25
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 391

Ala	Asp	Phe	Asn	Val	Trp	Ser	Pro	Pro	Ile	Cys	Gly	Ser	Arg	Trp	Tyr
1				5					10					15	

Gly Pro Pro Pro Gly Gly Met Ala Tyr
20 25

<210> 392
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 392

Ala Asp Gly Asn Val Trp Ser Pro Pro Ile Cys Gly Ser Ala Gly Pro
1 5 10 15

Pro Pro Gly Gly Met Asp Tyr
20

<210> 393
<211> 25
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 393

Ala Asp Ser Asn Val Trp Ser Pro Pro Ile Cys Gly Lys Thr Trp Tyr
1 5 10 15

Gly Pro Pro Pro Gly Gly Met Asp Tyr
20 25

<210> 394
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 394

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

<210> 395

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 395

Ala Asp Ser Asn Val Trp Ser Pro Pro Ile Cys Gly Ser Thr Trp Tyr
1 5 10 15

Gly Pro Pro Pro Gly Gly Met Ala Tyr
20 25

<210> 396

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 396

Ala Asp Gly Asn Val Trp Ser Pro Pro Ile Cys Gly Ser Ala Gly Pro
1 5 10 15

Pro Pro Gly Gly Met Asp Tyr
20

<210> 397

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 397

Ala Asp Phe Asn Val Trp Ser Pro Pro Ile Cys Gly Ser Arg Trp Tyr
1 5 10 15

Gly Pro Pro Pro Gly Gly Met Asp Tyr
20 25

<210> 398

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 398

Ala Asp Phe Asn Val Trp Ser Pro Pro Ile Cys Gly Ser Arg Trp Tyr
1 5 10 15

Gly Pro Pro Pro Gly Gly Met Asp Tyr
20 25

<210> 399

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 399

Ala Asp Phe Asn Val Trp Ser Pro Pro Ile Cys Gly Ser Arg Trp Tyr
1 5 10 15

Gly Pro Pro Pro Gly Gly Met Asp Tyr
20 25

<210> 400

<211> 25

<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 400

Ala	Asp	Phe	Asn	Val	Trp	Ser	Pro	Pro	Ile	Cys	Gly	Ser	Ile	Trp	Tyr
1				5					10					15	

Gly	Pro	Pro	Pro	Gly	Gly	Met	Asp	Tyr
			20				25	

<210> 401
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 401

Ala	Asp	Gly	Asn	Val	Trp	Ser	Pro	Pro	Ile	Cys	Gly	Ser	Ala	Gly	Pro
1				5					10					15	

Pro	Pro	Gly	Gly	Met	Asp	Tyr
			20			

<210> 402
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 402

Ala	Asp	Phe	Asn	Val	Trp	Ser	Pro	Pro	Ile	Cys	Gly	Ser	Val	Gly	Pro
1				5					10					15	

Pro	Pro	Gly	Gly	Met	Asp	Tyr
-----	-----	-----	-----	-----	-----	-----

20

<210> 403
<211> 25
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 403

Ala Asp Phe Asn Val Trp Ser Pro Pro Ile Cys Gly Ser Ser Trp Tyr
1 5 10 15

Gly Pro Pro Pro Gly Gly Met Ala Tyr
20 25

<210> 404
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 404

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

<210> 405
<211> 25
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 405

Ala Asp Phe Asn Val Trp Ser Pro Pro Ile Cys Gly Ser Ser Trp Tyr
1 5 10 15

Gly Pro Pro Pro Gly Gly Met Glu Tyr
20 25

<210> 406
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 406

Ala Asp Gly Asn Val Trp Ser Pro Pro Ile Cys Gly Ser Ala Gly Pro
1 5 10 15

Pro Pro Gly Gly Met Asp Tyr
20

<210> 407
<211> 25
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 407

Ala Asp Phe Asn Val Trp Ser Pro Pro Ile Cys Ser Ser Asn Trp Tyr
1 5 10 15

Gly Pro Pro Pro Arg Gly Met Asp Tyr
20 25

<210> 408
<211> 25
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 408

Ala Asp Phe Asn Val Trp Ser Pro Pro Ile Cys Gly Ser Ile Trp Tyr
 1 5 10 15

Gly Pro Pro Pro Arg Gly Met Asp Tyr
 20 25

<210> 409
 <211> 146
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic polymer.

<400> 409

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

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

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

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

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

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

Ala Ala Lys Gly Leu Arg Asn Ser Asp Trp Asp Leu Arg Arg Gly Tyr
 100 105 110

Glu Tyr Asp Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser Ala
 115 120 125

Ala Ala Tyr Pro Tyr Asp Val Pro Asp Tyr Gly Ser His His His His
 130 135 140

His His
 145

<210> 410
 <211> 152
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic polymer.

<400> 410

Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Asp Gly Gly
 1 5 10 15

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

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

Ala Ala Thr Val Trp Thr Gly Ala Gly Thr Val Tyr Ala Asp Ser Val
 50 55 60

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

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

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

Asp Ile Ala Ser Pro Ser Glu Tyr Asp Tyr Trp Gly Gln Gly Thr Gln

115

120

125

Val Thr Val Ser Ser Ala Ala Ala Tyr Pro Tyr Asp Val Pro Asp Tyr
 130 135 140

Gly Ser His His His His His His
 145 150

<210> 411

<211> 148

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 411

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

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

Ile Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val
 35 40 45

Ala Ala Ile Gly Trp Ser Ala Asp Ile Thr Val Tyr Ala Asp Ser Val
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Glu Asn Met Val Tyr
 65 70 75 80

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

Ala Ala Asn Ser Arg Ala Tyr Tyr Ser Ser Ser Tyr Asp Leu Gly Arg
 100 105 110

Leu Ala Ser Tyr Asp Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser
 115 120 125

Ser Ala Ala Ala Tyr Pro Tyr Asp Val Pro Asp Tyr Gly Ser His His
 130 135 140

His His His His
 145

<210> 412
 <211> 143
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic polymer.

<400> 412

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

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

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

Ala Phe Ile Asp Trp Ser Gly Gly Gly Thr Tyr Tyr Asp Asp Ser Val
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Glu Asn Thr Val Tyr
 65 70 75 80

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

Ala Ala Ala Gln Arg Leu Gly Ser Val Thr Asp Tyr Thr Lys Tyr Asp
 100 105 110

Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser Ala Ala Ala Tyr
115 120 125

Pro Tyr Asp Val Pro Asp Tyr Gly Ser His His His His His His
130 135 140

<210> 413
<211> 152
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 413

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

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

Phe Ser Ser Tyr Thr Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu
35 40 45

Arg Glu Phe Val Ala Thr Ile Thr Trp Gly Gly Gly Ser Thr Tyr Tyr
50 55 60

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

Asn Thr Val Tyr Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala
85 90 95

Val Tyr Tyr Cys Ala Ala Ser Val Lys Val Val Ala Gly Ser Gly Ile
100 105 110

Asp Ile Ser Gly Ser Arg Asn Tyr Asp Tyr Trp Gly Gln Gly Thr Gln
115 120 125

Val Thr Val Ser Ser Ala Ala Ala Tyr Pro Tyr Asp Val Pro Asp Tyr
 130 135 140

Gly Ser His His His His His His
 145 150

<210> 414
 <211> 148
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic polymer.

<400> 414

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

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

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

Ala Ala Ile Ser Trp Ser Gly Gly Pro Thr Val Tyr Ala Asp His Val
 50 55 60

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

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

Ala Ala Lys Arg Leu Asp Tyr Ser Ala Thr Asp Lys Gly Val Asp Leu
 100 105 110

Ser Asp Glu Tyr Asp Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser

115

120

125

Ser Ala Ala Ala Tyr Pro Tyr Asp Val Pro Asp Tyr Gly Ser His His
 130 135 140

His His His His
 145

<210> 415
 <211> 146
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic polymer.

<400> 415

Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Asp
 1 5 10 15

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

Ile Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val
 35 40 45

Ala Ala Ile Thr Trp Gly Gly Gly Ser Thr Val Tyr Ala Asp Ser Val
 50 55 60

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

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

Ala Ala Ala Gly Gly Ser Gly Arg Leu Arg Asp Leu Lys Val Gly Gln
 100 105 110

Asn Tyr Asp Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser Ala
115 120 125

Ala Ala Tyr Pro Tyr Asp Val Pro Asp Tyr Gly Ser His His His His
130 135 140

His His
145

<210> 416
<211> 150
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 416

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

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

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

Ala Ala Ile Thr Trp Ser Gly Val Ser Thr Val Tyr Thr Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Val Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr
65 70 75 80

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

Ala Ala Asp Ser Pro Pro Arg Thr Tyr Ser Ser Gly Ser Val Asn Leu
100 105 110

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

Val Ser Ser Ala Ala Ala Tyr Pro Tyr Asp Val Pro Asp Tyr Gly Ser
130 135 140

His His His His His His
145 150

<210> 417
<211> 148
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 417

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

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

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

Gly Ala Ile Met Trp Ser Gly Ala Phe Thr His Tyr Ala Asp Ser Val
50 55 60

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

Leu Gln Met Asn Ala Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Val Ile Pro Gly Arg Gly Ser Ala Leu Pro Ile Asp Val Gly Lys
100 105 110

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

Ser Ala Ala Ala Tyr Pro Tyr Asp Val Pro Asp Tyr Gly Ser His His
130 135 140

His His His His
145

<210> 418
<211> 146
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 418

Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Asp
1 5 10 15

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

Ile Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val
35 40 45

Ala Ala Ile Thr Trp Gly Gly Gly Ser Thr Val Tyr Ala Asp Ser Val
50 55 60

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

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

Ala Ala Ala Gly Ala Ser Gly Arg Leu Arg Asp Leu Lys Val Gly Gln

100	105	110
Asn Tyr Asp Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser Ala		
115	120	125
Ala Ala Tyr Pro Tyr Asp Val Pro Asp Tyr Gly Ser His His His His		
130	135	140
His His		
145		
<210> 419		
<211> 150		
<212> PRT		
<213> Artificial Sequence		
<220>		
<223> Synthetic polymer.		
<400> 419		
Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly		
1	5	10 15
Ser Leu Arg Leu Ser Cys Ala Gly Ser Gly Phe Thr Leu Asp Tyr Tyr		
20	25	30
Gly Ile Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Gly Val		
35	40	45
Ser Cys Ile Ser Ser Ser Asp Arg Asn Thr Tyr Tyr Ala Asp Ser Val		
50	55	60
Lys Gly Arg Phe Thr Ile Ser Gly Asp Asn Ala Lys Asn Thr Val Tyr		
65	70	75 80
Leu Gln Met Asn Asn Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys		
85	90	95

Ala Ala Asp Gly Asn Val Trp Ser Pro Pro Ile Cys Gly Ser Ala Gly
100 105 110

Pro Pro Pro Gly Gly Met Asp Tyr Trp Gly Lys Gly Thr Gln Val Thr
115 120 125

Val Ser Ser Ala Ala Ala Tyr Pro Tyr Asp Val Pro Asp Tyr Gly Ser
130 135 140

His His His His His His
145 150

<210> 420
<211> 143
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 420

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

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

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

Ala Phe Ile Asp Trp Ser Gly Gly Gly Thr Tyr Tyr Ala Asn Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Glu Asn Thr Val Tyr
65 70 75 80

Leu Gln Met Asn Asn Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Ala Ala Gln Arg Leu Gly Ser Val Thr Asp Tyr Thr Lys Tyr Asp
100 105 110

Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser Ala Ala Ala Tyr
115 120 125

Pro Tyr Asp Val Pro Asp Tyr Gly Ser His His His His His His
130 135 140

<210> 421
<211> 149
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 421

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

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

Val Ile Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val
35 40 45

Ala Val Ile Thr Trp Ser Gly Asp Ser Thr Tyr Ser Ser Asp Ser Leu
50 55 60

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

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

Ala Ala Ile Pro Pro Arg Ala Tyr Ser Gly Gly Ser Tyr Ser Leu Lys
100 105 110

Asp Gln Ser Lys Tyr Glu Tyr Trp Gly Gln Gly Thr Gln Val Thr Val
115 120 125

Ser Ser Ala Ala Ala Tyr Pro Tyr Asp Val Pro Asp Tyr Gly Ser His
130 135 140

His His His His His
145

<210> 422
<211> 149
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 422

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

Ser Leu Lys Leu Ser Cys Ile Ser Gly Phe Ala Phe Asp Gly Tyr Ala
20 25 30

Ile Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Gly Val Ala
35 40 45

Cys Ile Ser Ser Lys Asp Gly Ser Thr Tyr Tyr Ala Asp Ser Val Lys
50 55 60

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

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

Ala Asp Gly Asn Val Trp Ser Pro Pro Ile Cys Ser Ser Ala Gly Pro

100	105	110
Pro Pro Gly Gly Met Asp Tyr Trp Gly Lys Gly Thr Gln Val Thr Val		
115	120	125
Ser Ser Ala Ala Ala Tyr Pro Tyr Asp Val Pro Asp Tyr Gly Ser His		
130	135	140
His His His His His		
145		
<210> 423		
<211> 139		
<212> PRT		
<213> Artificial Sequence		
<220>		
<223> Synthetic polymer.		
<400> 423		
Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly		
1	5	10 15
Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Phe Ala Phe Gly Phe Phe		
20	25	30
Asp Met Thr Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val		
35	40	45
Ser Gly Ile Asn Ser Ile Gly Gly Ser Thr Thr Tyr Ala Asp Ser Val		
50	55	60
Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Glu Leu Tyr		
65	70	75 80
Leu Gln Met Asn Ser Leu Lys Pro Asp Asp Thr Ala Val Tyr Tyr Cys		
85	90	95

Ala Lys Ser Arg Ser Ser Tyr Ser Asn Asn Trp Arg Pro Pro Gly Gln
100 105 110

Gly Thr Gln Val Thr Val Ser Ser Ala Ala Ala Tyr Pro Tyr Asp Val
115 120 125

Pro Asp Tyr Gly Ser His His His His His His
130 135

<210> 424
<211> 149
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 424

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

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

Val Ile Gly Trp Phe Arg Gln Ala Pro Gly Glu Glu Arg Glu Phe Val
35 40 45

Ala Val Val Thr Trp Ser Gly Asp Ser Thr Tyr Ser Ser Asp Ser Leu
50 55 60

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

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

Ala Ala Met Pro Pro Arg Ala Tyr Thr Gly Arg Ser Val Ser Leu Lys
100 105 110

Asp Gln Ser Lys Tyr Glu Tyr Trp Gly Gln Gly Thr Gln Val Thr Val
115 120 125

Ser Ser Ala Ala Ala Tyr Pro Tyr Asp Val Pro Asp Tyr Gly Ser His
130 135 140

His His His His His
145

<210> 425
<211> 139
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 425

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Ile Phe Ser Ile Asn
20 25 30

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

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

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

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

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

Gly Thr Gln Val Thr Val Ser Ser Ala Ala Ala Tyr Pro Tyr Asp Val
115 120 125

Pro Asp Tyr Gly Ser His His His His His His
130 135

<210> 426
<211> 149
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 426

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

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

Asn Val Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val
35 40 45

Ser Phe Ile Ser Trp Ile Ser Asp Ile Thr Tyr Tyr Ser Asp Ser Val
50 55 60

Lys Gly Arg Phe Ile Ile Ser Arg Asp Asn Ala Lys Asn Met Val Tyr
65 70 75 80

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

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

Thr Pro Ser Glu Tyr Asp Tyr Trp Gly Gln Gly Thr Gln Val Thr Val

115

120

125

Ser Ser Ala Ala Ala Tyr Pro Tyr Asp Val Pro Asp Tyr Gly Ser His
 130 135 140

His His His His His
 145

<210> 427
 <211> 143
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic polymer.

<400> 427

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

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

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

Ala Phe Ile Asp Trp Ser Gly Gly Gly Thr Tyr Tyr Ala Asp Ser Val
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Glu Asn Thr Val Tyr
 65 70 75 80

Leu Gln Met Asn Asn Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

Ala Ala Ala Gln Arg Leu Gly Ser Val Thr Asp Tyr Thr Lys Tyr Asp
 100 105 110

Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser Ala Ala Ala Tyr
115 120 125

Pro Tyr Asp Val Pro Asp Tyr Gly Ser His His His His His His
130 135 140

<210> 428
<211> 151
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 428

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

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

Pro Val Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val
35 40 45

Ala Val Ile Leu Trp Ser Gly Val Ser Thr Tyr Tyr Ala Asp Ser Val
50 55 60

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

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

Ala Val Pro Arg Ser His Phe Thr Thr Ala Gln Asp Met Gly Gln Asp
100 105 110

Met Gly Ala Pro Ser Trp Tyr Glu Tyr Trp Gly Gln Gly Thr Gln Val
115 120 125

Thr Val Ser Ser Ala Ala Ala Tyr Pro Tyr Asp Val Pro Asp Tyr Gly
 130 135 140

Ser His His His His His His
 145 150

<210> 429
 <211> 149
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic polymer.

<400> 429

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

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

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

Ala Ala Ile Val Trp Ser Gly Gly Ser Thr Tyr Tyr Ala Asp Ser Val
 50 55 60

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

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

Ala Ala Val Leu Ile Arg Tyr Tyr Ser Gly Gly Tyr Gln Gly Leu Ser
 100 105 110

Asp Ala Asn Glu Tyr Asp Tyr Trp Gly Gln Gly Thr Gln Val Thr Val
 115 120 125

Ser Ser Ala Ala Ala Tyr Pro Tyr Asp Val Pro Asp Tyr Gly Ser His
130 135 140

His His His His His
145

<210> 430
<211> 145
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 430

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

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

Arg Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Ile Trp
35 40 45

Val Ala Ala Ile Ser Ser Ser Gly Tyr His Thr Tyr Tyr Ala Asp Ser
50 55 60

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

Tyr Leu Gln Met Ser Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr
85 90 95

Cys Ala Val Val Lys Tyr Leu Ser Gly Ser Tyr Ser Tyr Ala Gly Gln
100 105 110

Tyr Asn Phe Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser Ala Ala

115

120

125

Ala Tyr Pro Tyr Asp Val Pro Asp Tyr Gly Ser His His His His His
 130 135 140

His
 145

<210> 431
 <211> 150
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic polymer.

<400> 431

Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Asp
 1 5 10 15

Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Leu Thr Phe Ser Asn Tyr
 20 25 30

Ile Met Ala Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Gly Val
 35 40 45

Ser Cys Ile Ser Ser Pro Asp Gly Ser Thr Tyr Tyr Ala Asp Ser Val
 50 55 60

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

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

Ala Ala Asp Phe Asn Val Trp Ser Pro Pro Ile Cys Gly Ser Val Gly
 100 105 110

Pro Pro Pro Gly Gly Met Asp Tyr Trp Gly Lys Gly Thr Gln Val Thr
 115 120 125

Val Ser Ser Ala Ala Ala Tyr Pro Tyr Asp Val Pro Asp Tyr Gly Ser
 130 135 140

His His His His His His
 145 150

<210> 432
 <211> 148
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic polymer.

<400> 432

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

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

Val Met Gly Trp Phe Arg Gln Pro Pro Gly Lys Glu Arg Glu Phe Val
 35 40 45

Ala Ala Val Leu Trp Ser Gly Val Ser Thr Ala Tyr Ala Asp Ser Val
 50 55 60

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

Leu Gln Met Asn Asn Leu Lys Pro Asp Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

Ala Ala His Glu Ser Thr Tyr Tyr Ser Gly Thr Tyr Tyr Leu Thr Asp
 100 105 110

Pro Arg Arg Tyr Val Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser
115 120 125

Ser Ala Ala Ala Tyr Pro Tyr Asp Val Pro Asp Tyr Gly Ser His His
130 135 140

His His His His
145

<210> 433
<211> 146
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 433

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

Ser Leu Arg Leu Ser Cys Val Gly Asp Gly Arg Thr Phe Ser Ser Tyr
20 25 30

Leu Ile Gly Trp Phe Arg Gln Ala Pro Gly Asn Glu Arg Glu Phe Val
35 40 45

Val Ala Ile Thr Trp Asp Gly Ser Ala Thr Thr Tyr Ala Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Val Ser Arg Asp Ser Ala Lys Asn Thr Ala Tyr
65 70 75 80

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

Ala Ala Val Pro Ala Arg Gly Leu Thr Met Asp Leu Glu Asn Ser Asp
100 105 110

Ile Tyr Asp His Trp Gly Arg Gly Thr Gln Val Thr Val Ser Ser Ala
115 120 125

Ala Ala Tyr Pro Tyr Asp Val Pro Asp Tyr Gly Ser His His His His
130 135 140

His His
145

<210> 434
<211> 149
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 434

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

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

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

Ala Ala Ile Gly Trp Asn Gly Gly Ile Thr Tyr Tyr Ala Asp Ser Val
50 55 60

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

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

Ala Ala Ala Thr Leu Gln Val Thr Gly Ser Tyr Tyr Leu Asp Leu Ser

100

105

110

Thr Val Asp Ile Tyr Asp Asn Trp Gly Gln Gly Thr Gln Val Thr Val
 115 120 125

Ser Ser Ala Ala Ala Tyr Pro Tyr Asp Val Pro Asp Tyr Gly Ser His
 130 135 140

His His His His His
 145

<210> 435
 <211> 147
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic polymer.

<400> 435

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

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

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

Gly Phe Ile Thr Trp Ser Gly Ala Ser Thr Tyr Tyr Ala Asp Ser Val
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Glu Asn Thr Val Tyr
 65 70 75 80

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

Ala Ala Thr Leu Phe Arg Ser Asn Gly Pro Lys Asp Leu Ser Ser Gly
100 105 110

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

Ala Ala Ala Tyr Pro Tyr Asp Val Pro Asp Tyr Gly Ser His His His
130 135 140

His His His
145

<210> 436
<211> 140
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<220>
<221> misc_feature
<222> (112)..(112)
<223> Xaa can be any naturally occurring amino acid

<400> 436

Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Asp
1 5 10 15

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

Gly Ile Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val
35 40 45

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

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

65		70		75		80									
Leu	Gln	Met	Asn	Ser	Leu	Lys	Pro	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys
				85					90					95	
Ala	Ala	Gly	Glu	Ser	Gly	Val	Trp	Val	Gly	Gly	Leu	Asp	Tyr	Trp	Xaa
			100					105					110		
Gln	Gly	Thr	Gln	Val	Thr	Val	Ser	Ser	Ala	Ala	Ala	Tyr	Pro	Tyr	Asp
		115					120					125			
Val	Pro	Asp	Tyr	Gly	Ser	His	His	His	His	His	His				
	130					135					140				
<210> 437															
<211> 149															
<212> PRT															
<213> Artificial Sequence															
<220>															
<223> Synthetic polymer.															
<400> 437															
Gln	Val	Gln	Leu	Gln	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Ala	Gly	Gly
1				5					10					15	
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Thr	Phe	Asp	Asp	Tyr
			20					25					30		
Ala	Ile	Ala	Trp	Phe	Arg	Gln	Ala	Pro	Gly	Lys	Glu	Arg	Glu	Gly	Val
		35					40					45			
Ser	Cys	Ile	Glu	Arg	Ser	Asp	Gly	Ser	Thr	Tyr	Tyr	Ala	Asp	Ser	Val
	50					55					60				
Lys	Gly	Arg	Phe	Thr	Ile	Ser	Ser	Asp	Asn	Ala	Lys	Asn	Thr	Val	Tyr
65					70				75						80

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

Ala Val Gly Ser Ala Asn Ser Gly Glu Phe Arg Phe Gly Trp Val Leu
100 105 110

Lys Pro Asp Leu Tyr Asn Tyr Trp Gly Gln Gly Thr Gln Val Thr Val
115 120 125

Ser Ser Ala Ala Ala Tyr Pro Tyr Asp Val Pro Asp Tyr Gly Ser His
130 135 140

His His His His His
145

<210> 438
<211> 150
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 438

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

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

Thr Val Ala Trp Phe Arg Gln Ser Pro Gly Lys Glu Arg Glu Gly Ile
35 40 45

Ser Cys Ile Ser Asn Thr Asp Ser Ser Thr Tyr Tyr Ala Asp Ser Val
50 55 60

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

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

Ala Ala Asp Gly Asn Val Trp Ser Pro Pro Ile Cys Gly Ser Ala Gly
100 105 110

Pro Pro Pro Gly Gly Met Asp Tyr Trp Gly Lys Gly Thr Gln Val Thr
115 120 125

Val Ser Ser Ala Ala Ala Tyr Pro Tyr Asp Val Pro Asp Tyr Gly Ser
130 135 140

His His His His His His
145 150

<210> 439
<211> 150
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 439

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

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

Ala Ile Ala Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Gly Val
35 40 45

Ser Cys Ile Ser Asn Thr Asp Ser Ser Thr Tyr Tyr Ala Asp Ser Val
50 55 60

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

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

Ala Ala Asp Gly Asn Val Trp Ser Pro Pro Ile Cys Gly Ser Ala Gly
100 105 110

Pro Pro Pro Gly Gly Met Asp Tyr Trp Gly Lys Gly Thr Gln Val Thr
115 120 125

Val Ser Ser Ala Ala Ala Tyr Pro Tyr Asp Val Pro Asp Tyr Gly Ser
130 135 140

His His His His His His
145 150

<210> 440
<211> 147
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 440

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

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

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

Ala Gln Ile Ser Trp Ser Ala Gly Ser Ile Tyr Tyr Ala Asp Ser Val
50 55 60

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

65		70		75		80									
Leu	Gln	Met	Asn	Ser	Leu	Lys	Pro	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys
			85						90					95	
Ala	Glu	Arg	Gly	Tyr	Ala	Tyr	Cys	Ser	Asp	Asp	Gly	Cys	Gln	Arg	Thr
			100					105					110		
Gln	Asp	Tyr	Asp	Tyr	Trp	Gly	Gln	Gly	Thr	Gln	Val	Thr	Val	Ser	Ser
		115					120					125			
Ala	Ala	Ala	Tyr	Pro	Tyr	Asp	Val	Pro	Asp	Tyr	Gly	Ser	His	His	His
	130					135					140				
His	His	His													
145															
<210> 441															
<211> 148															
<212> PRT															
<213> Artificial Sequence															
<220>															
<223> Synthetic polymer.															
<400> 441															
Gln	Val	Gln	Leu	Gln	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Ala	Gly	Gly
1				5					10					15	
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Arg	Thr	Leu	Ser	Ser	Asn
			20					25					30		
Pro	Met	Ala	Trp	Phe	Arg	Gln	Ala	Ala	Gly	Lys	Glu	Arg	Glu	Phe	Val
		35					40				45				
Ala	Gly	Met	Ser	Trp	Asn	Pro	Gly	Pro	Ala	Val	Tyr	Ala	Asp	Ser	Val
	50					55					60				

Lys Gly Arg Phe Thr Ile Ser Arg Asp Ser Ala Glu Asn Thr Val Tyr
65 70 75 80

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

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

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

Ser Ala Ala Ala Tyr Pro Tyr Asp Val Pro Asp Tyr Gly Ser His His
130 135 140

His His His His
145

<210> 442
<211> 150
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 442

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

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

Ala Ile Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Gly Val
35 40 45

Ser Cys Ile Ser Arg Ser Asp Gly Ser Thr Tyr Tyr Ala Asp Ser Val
50 55 60

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

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

Ala Ala Glu Thr Ser Ala Asp Ser Gly Glu Phe Arg Phe Gly Trp Val
100 105 110

Leu Lys Pro Ser Leu Tyr Asp Tyr Trp Gly Gln Gly Thr Gln Val Thr
115 120 125

Val Ser Ser Ala Ala Ala Tyr Pro Tyr Asp Val Pro Asp Tyr Gly Ser
130 135 140

His His His His His His
145 150

<210> 443
<211> 148
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 443

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

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

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

Ala Asn Ile Gly Trp Thr Gly Asp Met Thr Tyr Tyr Ala Asp Ser Val
50 55 60

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

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

Ala Ala Ala Gly Ser Ala Tyr Ser Gly Ser Tyr Trp Asn Ile Thr Met
100 105 110

Ala Ala Asn Tyr Asp Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser
115 120 125

Ser Ala Ala Ala Tyr Pro Tyr Asp Val Pro Asp Tyr Gly Ser His His
130 135 140

His His His His
145

<210> 444
<211> 145
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 444

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

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

Asn Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val
35 40 45

Ala Ala Ile Ile Trp Ser Gly Ser Met Thr Tyr Tyr Ala Asp Ser Met

50

55

60

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

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

Ala Ala Gln Arg Ile Phe Gly Ala Gln Pro Met Asp Leu Ser Gly Asp
 100 105 110

Tyr Glu Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser Ala Ala
 115 120 125

Ala Tyr Pro Tyr Asp Val Pro Asp Tyr Gly Ser His His His His His
 130 135 140

His
 145

<210> 445
 <211> 150
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic polymer.

<400> 445

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

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

Ala Ile Ala Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Gly Ile
 35 40 45

Ser Cys Ile Ser Asn Thr Asp Ser Ser Thr Tyr Tyr Ala Asp Ser Val
50 55 60

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

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

Ala Ala Asp Gly Asn Val Trp Ser Pro Pro Ile Cys Gly Ser Ala Gly
100 105 110

Pro Pro Pro Gly Gly Met Asp Tyr Trp Gly Lys Gly Thr Gln Val Thr
115 120 125

Val Ser Ser Ala Ala Ala Tyr Pro Tyr Asp Val Pro Asp Tyr Gly Ser
130 135 140

His His His His His His
145 150

<210> 446
<211> 145
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 446

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

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

Ile Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val
35 40 45

Ala Ala Asn Thr Trp Ser Gly Gly Pro Thr Tyr Tyr Ser Asp Ser Val
50 55 60

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

Leu Gln Met Asn Thr Leu Lys Pro Glu Asp Thr Ala Val Tyr Gln Cys
85 90 95

Ala Ala Arg Asp Tyr Arg Gly Ile Lys Asp Leu Asp Leu Lys Gly Asp
100 105 110

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

Ala Tyr Pro Tyr Asp Val Pro Asp Tyr Gly Ser His His His His His
130 135 140

His
145

<210> 447
<211> 151
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 447

Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Asp
1 5 10 15

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

Thr Ile Ala Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Gly Ile
35 40 45

Ser Cys Ile Ser Ser Asp Gly Ser Thr Gly Tyr Ala Asp Ser Val Arg
50 55 60

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

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

Ala Asp Phe Asn Val Trp Ser Pro Pro Ile Cys Gly Ser Ile Trp Tyr
100 105 110

Gly Pro Pro Pro Arg Gly Met Asp Tyr Trp Gly Lys Gly Thr Gln Val
115 120 125

Thr Val Ser Ser Ala Ala Ala Tyr Pro Tyr Asp Val Pro Asp Tyr Gly
130 135 140

Ser His His His His His His
145 150

<210> 448
<211> 152
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 448

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

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

Thr Ile Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Gly Ile

35

40

45

Ser Cys Tyr Ser Ser Ser Asp Gly Ser Thr Gly Phe Ala Asp Ser Val
 50 55 60

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

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

Ala Ala Asp Ser Asn Val Trp Ser Pro Pro Ile Cys Gly Ser Arg Trp
 100 105 110

Tyr Gly Pro Pro Pro Gly Gly Met Ala Tyr Trp Gly Lys Gly Thr Gln
 115 120 125

Val Thr Val Ser Ser Ala Ala Ala Tyr Pro Tyr Asp Val Pro Asp Tyr
 130 135 140

Gly Ser His His His His His His
 145 150

<210> 449

<211> 151

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 449

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

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

Thr Ile Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Gly Ile
35 40 45

Ser Cys Ile Ser Ser Asp Gly Ser Thr Gly Tyr Ala Asp Ser Val Lys
50 55 60

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

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

Ala Asp Phe Asn Val Trp Ser Pro Pro Ile Cys Gly Ser Asn Trp Tyr
100 105 110

Gly Pro Pro Pro Gly Gly Met Asp Tyr Trp Gly Lys Gly Thr Gln Val
115 120 125

Thr Val Ser Ser Ala Ala Ala Tyr Pro Tyr Asp Val Pro Asp Tyr Gly
130 135 140

Ser His His His His His His
145 150

<210> 450
<211> 152
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 450

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

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

Thr Ile Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Gly Ile
35 40 45

Gly Cys Ile Lys Ser Ser Asp Gly Thr Thr Gly Tyr Ala Asp Ser Val
50 55 60

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

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

Ala Ala Asp Phe Asn Val Trp Ser Pro Pro Ile Cys Gly Ser Ile Trp
100 105 110

Tyr Gly Pro Pro Pro Gly Gly Met Asp Tyr Trp Gly Lys Gly Thr Gln
115 120 125

Val Thr Val Ser Ser Ala Ala Ala Tyr Pro Tyr Asp Val Pro Asp Tyr
130 135 140

Gly Ser His His His His His His
145 150

<210> 451
<211> 150
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 451

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

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

Thr Ile Ala Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Gly Val
35 40 45

Ser Cys Ile Ser Asn Thr Asp Ser Ser Thr Tyr Tyr Ala Asp Ser Val
50 55 60

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

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

Ala Ala Asp Gly Asn Val Trp Ser Pro Pro Ile Cys Gly Ser Ala Gly
100 105 110

Pro Pro Pro Gly Gly Met Asp Tyr Trp Gly Lys Gly Thr Gln Val Thr
115 120 125

Val Ser Ser Ala Ala Ala Tyr Pro Tyr Asp Val Pro Asp Tyr Gly Ser
130 135 140

His His His His His His
145 150

<210> 452
<211> 144
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 452

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Arg Thr Phe Ser Ser Tyr

30

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

Ala Ile Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Gly Val
35 40 45

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

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

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

Ala Ala Asp Gly Asn Val Trp Ser Pro Pro Ile Cys Gly Ser Ala Gly
100 105 110

Pro Pro Pro Gly Gly Met Asp Tyr Trp Gly Lys Gly Thr Gln Val Thr
115 120 125

Val Ser Ser Ala Ala Ala Tyr Pro Tyr Asp Val Pro Asp Tyr Gly Ser
130 135 140

His His His His His His
145 150

<210> 454
<211> 152
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 454

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

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

Thr Ile Ala Trp Phe Arg Arg Ala Pro Gly Lys Glu Arg Glu Gly Ile
35 40 45

Ser Cys Ile Ser Ser Ser Asp Gly Ser Thr Gly Tyr Ala Asp Ser Val
50 55 60

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

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

Ala Ala Asp Ser Asn Val Trp Ser Pro Pro Ile Cys Gly Arg Thr Trp
100 105 110

Tyr Gly Pro Pro Pro Gly Gly Met Asp Tyr Trp Gly Lys Gly Thr Gln
115 120 125

Val Thr Val Ser Ser Ala Ala Ala Tyr Pro Tyr Asp Val Pro Asp Tyr
130 135 140

Gly Ser His His His His His His
145 150

<210> 455
<211> 152
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 455

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

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

Thr Ile Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Gly Ile
35 40 45

Ser Cys Tyr Ser Ser Arg Asp Gly Thr Thr Gly Tyr Ala Asp Ser Val
50 55 60

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

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

Ala Ala Asp Phe Asn Val Trp Ser Pro Pro Ile Cys Gly Ser Ile Trp
100 105 110

Tyr Gly Pro Pro Pro Gly Gly Met Ala Tyr Trp Gly Gln Gly Thr Gln
115 120 125

Val Thr Val Ser Ser Ala Ala Ala Tyr Pro Tyr Asp Val Pro Asp Tyr
130 135 140

Gly Ser His His His His His His
145 150

<210> 456
<211> 151
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 456

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asp Asp Tyr

20

25

30

Thr Ile Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Gly Ile
 35 40 45

Ser Cys Ile Ser Ser Asp Gly Ser Thr Gly Tyr Ala Asp Ser Val Lys
 50 55 60

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

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

Ala Asp Phe Asn Val Trp Ser Pro Pro Ile Cys Gly Ser Asn Trp Tyr
 100 105 110

Gly Pro Pro Pro Gly Gly Met Asp Tyr Trp Gly Lys Gly Thr Gln Val
 115 120 125

Thr Val Ser Ser Ala Ala Ala Tyr Pro Tyr Asp Val Pro Asp Tyr Gly
 130 135 140

Ser His His His His His His
 145 150

<210> 457

<211> 152

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 457

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

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

Thr Ile Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Gly Ile
35 40 45

Ser Cys Tyr Ser Ser Ser Asp Gly Ser Thr Gly Tyr Ala Asp Ser Val
50 55 60

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

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

Ala Ala Asp Phe Asn Val Trp Ser Pro Pro Ile Cys Gly Ser Ser Trp
100 105 110

Tyr Gly Pro Pro Pro Gly Gly Met Asp Tyr Trp Gly Lys Gly Thr Gln
115 120 125

Val Thr Val Ser Ser Ala Ala Ala Tyr Pro Tyr Asp Val Pro Asp Tyr
130 135 140

Gly Ser His His His His His His
145 150

<210> 458
<211> 152
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 458

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

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

Thr Ile Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Gly Ile
35 40 45

Ser Cys Phe Ser Ser Ser Asp Gly Ser Thr Gly Phe Ala Asp Ser Val
50 55 60

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

Leu Glu Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Ala Asp Phe Asn Val Trp Ser Pro Pro Ile Cys Gly Ser Arg Trp
100 105 110

Tyr Gly Pro Pro Pro Gly Gly Met Glu Tyr Trp Gly Lys Gly Thr Gln
115 120 125

Val Thr Val Ser Ser Ala Ala Ala Tyr Pro Tyr Asp Val Pro Asp Tyr
130 135 140

Gly Ser His His His His His His
145 150

<210> 459
<211> 150
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 459

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

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

Ala Ile Ala Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Gly Ile
35 40 45

Ser Cys Ile Ser Asn Thr Asp Ser Ser Thr Phe Tyr Ala Asp Ser Val
50 55 60

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

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

Ala Ala Asp Gly Asn Val Trp Ser Pro Pro Ile Cys Gly Ser Ala Gly
100 105 110

Pro Pro Pro Gly Gly Met Asp Tyr Trp Gly Lys Gly Thr Gln Val Thr
115 120 125

Val Ser Ser Ala Ala Ala Tyr Pro Tyr Asp Val Pro Asp Tyr Gly Ser
130 135 140

His His His His His His
145 150

<210> 460
<211> 152
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 460

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

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

<210> 461
 <211> 151
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Synthetic polymer.

 <400> 461

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

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

Ala Ile Gly Trp Phe Arg Gln Ala Pro Gly Lys Asp Gln Arg Glu Gly
35 40 45

Ile Ser Cys Ile Ser Asn Thr Asp Ser Ser Thr Tyr Tyr Ala Asp Ser
50 55 60

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

His Leu Gln Met Ser Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr
85 90 95

Cys Ala Ala Asp Gly Asn Val Trp Ser Pro Pro Ile Cys Gly Ser Ala
100 105 110

Gly Pro Pro Pro Gly Gly Met Asp Tyr Trp Gly Lys Gly Thr Gln Val
115 120 125

Thr Val Ser Ser Ala Ala Ala Tyr Pro Tyr Asp Val Pro Asp Tyr Gly
130 135 140

Ser His His His His His His
145 150

<210> 462
<211> 152
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 462

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

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

Thr Ile Ala Trp Phe Arg Arg Ala Pro Gly Lys Glu Arg Glu Gly Ile
35 40 45

Ser Cys Ile Ser Ser Ser Asp Gly Ser Thr Gly Tyr Ala Asp Ser Val
50 55 60

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

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

Ala Ala Asp Ser Asn Val Trp Ser Pro Pro Ile Cys Gly Lys Thr Trp
100 105 110

Tyr Gly Pro Pro Pro Gly Gly Met Asp Tyr Trp Gly Lys Gly Thr Gln
115 120 125

Val Thr Val Ser Ser Ala Ala Ala Tyr Pro Tyr Asp Val Pro Asp Tyr
130 135 140

Gly Ser His His His His His His
145 150

<210> 463
<211> 140
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 463

Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Asp
1 5 10 15

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

Gly Ile Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val
35 40 45

Gly Gly Ile Asn Trp Ser Gly Asp Ser Thr Asp Tyr Ala Asp Ser Val
50 55 60

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

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

Ala Ala Gly Glu Ser Gly Val Trp Val Gly Gly Leu Asp Tyr Trp Gly
100 105 110

Gln Gly Thr Gln Val Thr Val Ser Ser Ala Ala Ala Tyr Pro Tyr Asp
115 120 125

Val Pro Asp Tyr Gly Ser His His His His His His
130 135 140

<210> 464

<211> 152

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 464

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

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

<210> 465
 <211> 150
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Synthetic polymer.

 <400> 465

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

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

Ala Ile Ala Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Gly Val
35 40 45

Ser Cys Ile Ser Asn Thr Asp Ser Ser Thr Tyr Tyr Ala Asp Ser Val
50 55 60

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

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

Ala Ala Asp Gly Asn Val Trp Ser Pro Pro Ile Cys Gly Ser Ala Gly
100 105 110

Pro Pro Pro Gly Gly Met Asp Tyr Trp Gly Lys Gly Thr Gln Val Thr
115 120 125

Val Ser Ser Ala Ala Ala Tyr Pro Tyr Asp Val Pro Asp Tyr Gly Ser
130 135 140

His His His His His His
145 150

<210> 466
<211> 152
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 466

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

Ser Leu Arg Leu Ser Cys Glu Val Ser Gly Leu Ser Ser Asp Asp Tyr
20 25 30

Thr Ile Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Gly Phe
35 40 45

Ser Cys Phe Ser Thr Arg Asp Gly Asn Ala Gly Tyr Ala Asp Ser Val
50 55 60

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

Leu Gln Met Asn Asn Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Ala Asp Phe Asn Val Trp Ser Pro Pro Ile Cys Gly Ser Arg Trp
100 105 110

Tyr Gly Pro Pro Pro Gly Gly Met Asp Tyr Trp Gly Lys Gly Thr Gln
115 120 125

Val Thr Val Ser Ser Ala Ala Ala Tyr Pro Tyr Asp Val Pro Asp Tyr
130 135 140

Gly Ser His His His His His His
145 150

<210> 467
<211> 152
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 467

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

Ser Leu Arg Leu Ser Cys Glu Val Ser Gly Leu Ser Ser Asp Asp Tyr
20 25 30

Thr Ile Gly Trp Phe Arg Gln Ala Pro Gly Lys Lys Arg Glu Gly Phe
35 40 45

Ser Cys Phe Ser Ser Arg Asp Gly Ser Thr Gly Tyr Ala Asp Ser Val
50 55 60

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

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

Ala Ala Asp Phe Asn Val Trp Ser Pro Pro Ile Cys Gly Ser Arg Trp
100 105 110

Tyr Gly Pro Pro Pro Gly Gly Met Asp Tyr Trp Gly Lys Gly Thr Gln
115 120 125

Val Thr Val Ser Ser Ala Ala Ala Tyr Pro Tyr Asp Val Pro Asp Tyr
130 135 140

Gly Ser His His His His His His
145 150

<210> 468

<211> 152

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 468

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

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

Thr Ile Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Gly Phe
35 40 45

Ser Cys Phe Ser Ser Arg Asp Gly Ser Thr Gly Tyr Ala Asp Ser Val
50 55 60

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

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

Ala Ala Asp Phe Asn Val Trp Ser Pro Pro Ile Cys Gly Ser Arg Trp
100 105 110

Tyr Gly Pro Pro Pro Gly Gly Met Asp Tyr Trp Gly Lys Gly Thr Gln
115 120 125

Val Thr Val Ser Ser Ala Ala Ala Tyr Pro Tyr Asp Val Pro Asp Tyr
130 135 140

Gly Ser His His His His His His
145 150

<210> 469

<211> 151

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 469

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

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

Thr Ile Gly Trp Phe Arg Gln Val Pro Gly Lys Glu Arg Glu Gly Ile
35 40 45

Ser Cys Ile Ser Ser Asp Gly Ser Thr Gly Tyr Ala Asp Ser Val Lys
50 55 60

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

Gln Ile Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Ala
85 90 95

Ala Asp Phe Asn Val Trp Ser Pro Pro Ile Cys Gly Ser Ile Trp Tyr
100 105 110

Gly Pro Pro Pro Gly Gly Met Asp Tyr Trp Gly Lys Gly Thr Gln Val
115 120 125

Thr Val Ser Ser Ala Ala Ala Tyr Pro Tyr Asp Val Pro Asp Tyr Gly
130 135 140

Ser His His His His His His
145 150

<210> 470

<211> 150

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 470

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

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

Ala Ile Ala Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Gly Ile
35 40 45

Ser Cys Ile Ser Asn Thr Asp Ser Ser Thr Tyr Tyr Ala Asp Ser Val
50 55 60

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

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

Ala Ala Asp Gly Asn Val Trp Ser Pro Pro Ile Cys Gly Ser Ala Gly
100 105 110

Pro Pro Pro Gly Gly Met Asp Tyr Trp Gly Lys Gly Thr Gln Val Thr
115 120 125

Val Ser Ser Ala Ala Ala Tyr Pro Tyr Asp Val Pro Asp Tyr Gly Ser
130 135 140

His His His His His His
145 150

<210> 471

<211> 150

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<220>

<221> misc_feature

<222> (19)..(19)

<223> Xaa can be any naturally occurring amino acid

<400> 471

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

Ser Leu Xaa Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asp Asp Tyr
20 25 30

Ala Ile Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Gly Val
35 40 45

Ser Cys Ile Ser Ser Pro Asp Gly Ser Thr Tyr Tyr Ala Asp Ser Val
50 55 60

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

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

Ala Ala Asp Phe Asn Val Trp Ser Pro Pro Ile Cys Gly Ser Val Gly
100 105 110

Pro Pro Pro Gly Gly Met Asp Tyr Trp Gly Lys Gly Thr Gln Val Thr
115 120 125

Val Ser Ser Ala Ala Ala Tyr Pro Tyr Asp Val Pro Asp Tyr Gly Ser
130 135 140

His His His His His His

145

150

<210> 472

<211> 152

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 472

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

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

Thr Ile Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Gly Ile
 35 40 45

Ser Cys Tyr Ser Ser Ser Asp Gly Asn Thr Gly Tyr Ala Asp Ser Val
 50 55 60

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

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

Ala Ala Asp Phe Asn Val Trp Ser Pro Pro Ile Cys Gly Ser Ser Trp
 100 105 110

Tyr Gly Pro Pro Pro Gly Gly Met Ala Tyr Trp Gly Lys Gly Thr Gln
 115 120 125

Val Thr Val Ser Ser Ala Ala Ala Tyr Pro Tyr Asp Val Pro Asp Tyr
 130 135 140

Gly Ser His His His His His His
145 150

<210> 473
<211> 140
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 473

Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Asp
1 5 10 15

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

Gly Ile Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val
35 40 45

Gly Gly Ile Asn Trp Ser Gly Asp Ser Thr Asp Tyr Ala Asp Ser Val
50 55 60

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

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

Ala Ala Gly Glu Ser Gly Val Trp Val Gly Gly Leu Asp Tyr Trp Gly
100 105 110

Gln Gly Thr Gln Val Thr Val Ser Ser Ala Ala Ala Tyr Pro Tyr Asp
115 120 125

Val Pro Asp Tyr Gly Ser His His His His His His
130 135 140

<210> 474
<211> 152
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 474

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

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

Thr Ile Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Gly Ile
35 40 45

Ser Cys Phe Ser Ser Ser Asp Gly Ser Thr Gly Phe Ala Asp Ser Val
50 55 60

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

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

Ala Ala Asp Phe Asn Val Trp Ser Pro Pro Ile Cys Gly Ser Ser Trp
100 105 110

Tyr Gly Pro Pro Pro Gly Gly Met Glu Tyr Trp Gly Lys Gly Thr Gln
115 120 125

Val Thr Val Ser Ser Ala Ala Ala Tyr Pro Tyr Asp Val Pro Asp Tyr
130 135 140

Gly Ser His His His His His His
145 150

<210> 475
<211> 150
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 475

Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Asp
1 5 10 15

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

Asn Ile Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Gly Val
35 40 45

Ser Cys Ile Ser Ser Gly Asp Gly Thr Thr Tyr Tyr Thr Asp Ser Val
50 55 60

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

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

Ala Ala Asp Gly Asn Val Trp Ser Pro Pro Ile Cys Gly Ser Ala Gly
100 105 110

Pro Pro Pro Gly Gly Met Asp Tyr Trp Gly Lys Gly Thr Gln Val Thr
115 120 125

Val Ser Ser Ala Ala Ala Tyr Pro Tyr Asp Val Pro Asp Tyr Gly Ser
130 135 140

His His His His His His

145

150

<210> 476

<211> 152

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 476

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

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

Thr Ile Ala Trp Phe Arg Gln Ala Pro Gly Gly Lys Glu Arg Glu Gly
 35 40 45

Ile Ser Cys Ile Ser Ser Asp Gly Ser Thr Gly Tyr Ala Asp Ser Val
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Ser Asp Asn Ala Lys Asn Met Val Tyr
 65 70 75 80

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

Ala Ala Asp Phe Asn Val Trp Ser Pro Pro Ile Cys Ser Ser Asn Trp
 100 105 110

Tyr Gly Pro Pro Pro Arg Gly Met Asp Tyr Trp Gly Lys Gly Thr Gln
 115 120 125

Val Thr Val Ser Ser Ala Ala Ala Tyr Pro Tyr Asp Val Pro Asp Tyr
 130 135 140

Gly Ser His His His His His His
145 150

<210> 477
<211> 151
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 477

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

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

Thr Ile Ala Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Gly Ile
35 40 45

Ser Cys Ile Ser Ser Asp Gly Ser Thr Gly Tyr Ala Asp Ser Val Arg
50 55 60

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

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

Ala Asp Phe Asn Val Trp Ser Pro Pro Ile Cys Gly Ser Ile Trp Tyr
100 105 110

Gly Pro Pro Pro Arg Gly Met Asp Tyr Trp Gly Lys Gly Thr Gln Val
115 120 125

Thr Val Ser Ser Ala Ala Ala Tyr Pro Tyr Asp Val Pro Asp Tyr Gly
130 135 140

Ser His His His His His His
145 150

<210> 478
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 478

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

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

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

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

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

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

Gly Arg Gly Tyr Gly Tyr Tyr Val Phe Asp His Trp Gly Gln Gly Thr
100 105 110

Leu Val Thr Val Ser Ser
115

<210> 479
<211> 118

<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 479

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

Thr Val Lys His Ser Cys Lys Val Ser Gly Phe Asn His Lys Asp Thr
20 25 30

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

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

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

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

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

Leu Val Thr Val Ser Ser
115

<210> 480
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 480

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

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

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

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

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

Glu Asp Val Ala Thr Tyr Tyr Cys Gln Gln His Asn Glu Asn Pro Leu
85 90 95

Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
100 105

<210> 481
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 481

Gly Phe Ser Met Asp Tyr Tyr Ala Ile Ala
1 5 10

<210> 482
<211> 10
<212> PRT
<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 482

Gly	Phe	Ser	Met	Asp	Tyr	Tyr	Ala	Ile	Ala
1				5					10

<210> 483

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 483

Gly	Phe	Ser	Val	Asp	Tyr	Tyr	Ala	Ile	Ala
1				5					10

<210> 484

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 484

Gly	Phe	Ser	Met	Asp	Tyr	Tyr	Ala	Ile	Ala
1				5					10

<210> 485

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 485

Gly	Gly	Phe	Asn	Arg	Val	Ser	Tyr	Met	Gly
1				5					10

<210> 486
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 486

Gly	Gly	Phe	Asn	Arg	Val	Ser	Tyr	Met	Gly
1				5					10

<210> 487
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 487

Gly	Ile	Ile	Lys	Ser	Ile	Asn	Phe	Met	Gly
1				5					10

<210> 488
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 488

Gly	Phe	Ile	Leu	Asp	Tyr	Tyr	Gly	Ile	Gly
1				5					10

<210> 489
<211> 10
<212> PRT
<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 489

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

<210> 490

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 490

Gly Phe Ile Leu Asp Tyr Tyr Gly Ile Gly
1 5 10

<210> 491

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 491

Gly Arg Thr Phe Ser Ser Leu Gly Met Gly
1 5 10

<210> 492

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 492

Gly Arg Thr Phe Ser Ser Leu Gly Met Gly
1 5 10

<210> 493
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 493

Gly	Phe	Ala	Phe	Gly	Ser	Tyr	Asp	Met	Gly
1				5					10

<210> 494
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 494

Gly	Phe	Ser	Phe	Gly	Asn	Asn	Asp	Met	Ser
1				5					10

<210> 495
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 495

Cys	Ile	Thr	Gly	Ser	Asp	Phe	Met	Val	Asp	Thr
1				5					10	

<210> 496
<211> 11
<212> PRT
<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 496

Cys	Ile	Thr	Gly	Ser	Asp	Phe	Met	Val	Asp	Thr
1				5					10	

<210> 497

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 497

Cys	Ile	Thr	Gly	Ser	Asp	Phe	Met	Val	Asp	Thr
1				5					10	

<210> 498

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 498

Cys	Ile	Thr	Gly	Ser	Asp	Phe	Met	Val	Asp	Thr
1				5					10	

<210> 499

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 499

Ser	Val	Thr	Ser	Gly	Gly	Glu	Ile
1				5			

<210> 500
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 500

Ser Val Thr Ser Gly Gly Glu Ile
1 5

<210> 501
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 501

Ser Thr Thr Ser Asp Gly Arg Thr
1 5

<210> 502
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 502

Cys Ile Ser Ser Ser Asp Gly Ser Thr
1 5

<210> 503
<211> 9
<212> PRT
<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 503

Cys Ile Ser Ser Ser Asp Gly Ser Thr
1 5

<210> 504

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 504

Cys Ile Ser Ser Ser Asp Gly Ser Thr
1 5

<210> 505

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 505

Ala Ile Ala Trp Asn Gly Ala Ser Thr
1 5

<210> 506

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 506

Ala Ile Ala Trp Asn Gly Ala Ser Thr
1 5

<210> 507
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 507

Gly Ile Asn Ser Gly Gly Arg Ile Thr
1 5

<210> 508
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 508

Ala Ile Asn Ser Gly Gly Gly Ser Thr
1 5

<210> 509
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 509

Ala Val Arg Ser Thr Ala Asn Thr Leu Cys Pro Ser His Tyr Ser Val
1 5 10 15

Met Asp Tyr

<210> 510
<211> 19

<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 510

Ala	Val	Arg	Ser	Thr	Ala	Asn	Thr	Leu	Cys	Pro	Ser	His	Tyr	Ser	Ile
1				5					10					15	

Met Asp Tyr

<210> 511
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 511

Ala	Val	Arg	Ser	Thr	Ala	Asn	Thr	Leu	Cys	Pro	Ser	His	Tyr	Ser	Val
1				5					10					15	

Met Asp Tyr

<210> 512
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 512

Asn	Ala	Asp	Ile	Trp	Val	Ser	Asp	Ala	Arg	Met	Tyr	Asn	Tyr
1				5					10				

<210> 513

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

<220>
<223> Synthetic polymer.

<400> 513

Asn Ala Asp Ile Trp Val Ser Asp Ala Arg Met Tyr Asn Tyr
1 5 10

<210> 514
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 514

Asn Ala Asp Ile Trp Leu Pro Ser Asp Arg Met Tyr Asn Tyr
1 5 10

<210> 515
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 515

Ala Thr Ala Thr Leu Cys Asp Gly Gly Ile Trp Gly Tyr
1 5 10

<210> 516
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 516

Ala Thr Ala Thr Leu Cys Asp Gly Gly Ile Trp Gly Tyr
1 5 10

<210> 517

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 517

Ala Thr Ala Thr Leu Cys Asp Gly Gly Ile Trp Gly Tyr
1 5 10

<210> 518

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 518

Ala Ala Ser Gly Leu Gly Ser Val Trp Thr Ala Asn Glu Tyr Asp Tyr
1 5 10 15

<210> 519

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 519

Ala Ala Ser Gly Leu Gly Ser Val Trp Thr Ala Asn Glu Tyr Asp Tyr
1 5 10 15

<210> 520

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

<220>
<223> Synthetic polymer.

<400> 520

Ala	Gln	Gly	Asp	Arg	Ser	Ser	Trp	His	Tyr	Tyr	Gly	Met	Asp	Tyr
1				5					10					15

<210> 521
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 521

Ala	Thr	Lys	Ser	Asp	Pro	Met	Thr	Asn	Glu	Tyr	Asp	Leu
1				5					10			

<210> 522
<211> 147
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 522

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

Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Ser	Met	Asp	Tyr	Tyr
			20					25					30		

Ala	Ile	Ala	Trp	Phe	Arg	Gln	Ala	Pro	Gly	Lys	Glu	Arg	Glu	Glu	Ile
		35					40					45			

Ser Cys Ile Thr Gly Ser Asp Phe Met Val Asp Thr Tyr Tyr Val Ala
50 55 60

Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Glu Asn Thr
65 70 75 80

Ala Tyr Leu Gln Met Asn Asn Leu Lys Pro Glu Asp Thr Gly Val Tyr
85 90 95

Phe Cys Ala Val Arg Ser Thr Ala Asn Thr Leu Cys Pro Ser His Tyr
100 105 110

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

Ala Ala Ala Tyr Pro Tyr Asp Val Pro Asp Tyr Gly Ser His His His
130 135 140

His His His
145

<210> 523
<211> 147
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 523

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Ser Met Asp Tyr Tyr
20 25 30

Ala Ile Ala Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Glu Ile
35 40 45

Ser Cys Ile Thr Gly Ser Asp Phe Met Val Asp Thr Tyr Tyr Val Ala
50 55 60

Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Glu Asn Thr
65 70 75 80

Ala Tyr Leu Gln Met Asn Asn Leu Lys Pro Glu Asp Thr Gly Val Tyr
85 90 95

Phe Cys Ala Val Arg Ser Thr Ala Asn Thr Leu Cys Pro Ser His Tyr
100 105 110

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

Ala Ala Ala Tyr Pro Tyr Asp Val Pro Asp Tyr Gly Ser His His His
130 135 140

His His His
145

<210> 524
<211> 146
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 524

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

Ser Leu Arg Leu Ser Cys Ser Ala Ser Gly Phe Ser Val Asp Tyr Tyr
20 25 30

Ala Ile Ala Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Glu Ile
35 40 45

Ser Cys Ile Thr Gly Ser Asp Phe Met Val Asp Thr Tyr Tyr Val Ala
50 55 60

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

Ala Tyr Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Gly Val Tyr
85 90 95

Phe Cys Ala Val Arg Ser Thr Ala Asn Thr Leu Cys Pro Ser His Tyr
100 105 110

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

Ala Ala Ala Tyr Pro Tyr Asp Val Pro Asp Tyr Gly Ser His His His
130 135 140

His His
145

<210> 525
<211> 147
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 525

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

Ser Leu Arg Leu Ser Cys Ser Ala Ser Gly Phe Ser Met Asp Tyr Tyr
20 25 30

Ala Ile Ala Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Glu Ile

35

40

45

Ser Cys Ile Thr Gly Ser Asp Phe Met Val Asp Thr Tyr Tyr Val Ala
 50 55 60

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

Ala His Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Gly Val Tyr
 85 90 95

Phe Cys Ala Val Arg Ser Thr Ala Asn Thr Leu Cys Pro Ser His Tyr
 100 105 110

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

Ala Ala Ala Tyr Pro Tyr Asp Val Pro Asp Tyr Gly Ser His His His
 130 135 140

His His His
 145

<210> 526
 <211> 139
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic polymer.

<400> 526

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Gly Phe Asn Arg Val Ser
 20 25 30

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

Ala Ser Val Thr Ser Gly Gly Glu Ile Thr Ile Ala Asp Ser Val Lys
50 55 60

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

Gln Met Asn Gly Leu Lys Pro Glu Asp Gly Ala Thr Tyr Trp Cys Asn
85 90 95

Ala Asp Ile Trp Val Ser Asp Ala Arg Met Tyr Asn Tyr Trp Gly Gln
100 105 110

Gly Thr Gln Val Thr Val Ser Ser Ala Ala Ala Tyr Pro Tyr Asp Val
115 120 125

Pro Asp Tyr Gly Ser His His His His His
130 135

<210> 527
<211> 139
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 527

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Gly Phe Asn Arg Val Ser
20 25 30

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

Ala Ser Val Thr Ser Gly Gly Glu Ile Thr Val Ala Asp Ser Val Lys
50 55 60

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

Gln Met Asn Gly Leu Lys Pro Glu Asp Gly Ala Thr Tyr Trp Cys Asn
85 90 95

Ala Asp Ile Trp Val Ser Asp Ala Arg Met Tyr Asn Tyr Trp Gly Gln
100 105 110

Gly Thr Gln Val Thr Val Ser Ser Ala Ala Ala Tyr Pro Tyr Asp Val
115 120 125

Pro Asp Tyr Gly Ser His His His His His His
130 135

<210> 528
<211> 139
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 528

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ile Ile Lys Ser Ile Asn
20 25 30

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

Ala Ser Thr Thr Ser Asp Gly Arg Thr Thr Val Ala Asp Ser Val Lys
50 55 60

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

Glu Met Ser Ser Leu Lys Pro Glu Asp Thr Ala Thr Tyr Trp Cys Asn
85 90 95

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

Gly Thr Gln Val Thr Val Ser Ser Ala Ala Ala Tyr Pro Tyr Asp Val
115 120 125

Pro Asp Tyr Gly Ser His His His His His His
130 135

<210> 529

<211> 139

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 529

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

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

Gly Ile Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Ala Val
35 40 45

Ser Cys Ile Ser Ser Ser Asp Gly Ser Thr Tyr Tyr Ala Asp Ser Val
50 55 60

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

65		70		75		80									
Leu	Gln	Met	Asn	Ser	Leu	Lys	Pro	Glu	Asp	Thr	Ala	Val	Tyr	His	Cys
				85					90					95	
Ala	Thr	Ala	Thr	Leu	Cys	Asp	Gly	Gly	Ile	Trp	Gly	Tyr	Trp	Gly	Gln
			100					105					110		
Gly	Thr	Gln	Val	Thr	Val	Ser	Ser	Ala	Ala	Ala	Tyr	Pro	Tyr	Asp	Val
		115					120					125			
Pro	Asp	Tyr	Gly	Ser	His	His	His	His	His	His					
	130					135									
<210> 530															
<211> 139															
<212> PRT															
<213> Artificial Sequence															
<220>															
<223> Synthetic polymer.															
<400> 530															
Gln	Val	Gln	Leu	Gln	Glu	Ser	Gly	Gly	Gly	Leu	Ala	Gln	Ala	Gly	Gly
1				5					10					15	
Ser	Leu	Arg	Leu	Ser	Cys	Glu	Gly	Ser	Gly	Leu	Ser	Leu	Asp	Tyr	Asp
			20					25					30		
Gly	Val	Gly	Trp	Phe	Arg	Gln	Ala	Pro	Gly	Lys	Glu	Arg	Glu	Ala	Val
		35					40					45			
Ser	Cys	Ile	Ser	Ser	Ser	Asp	Gly	Ser	Thr	Tyr	Tyr	Ala	Asp	Ser	Val
	50					55					60				
Lys	Gly	Arg	Phe	Thr	Ile	Ser	Arg	Gly	Asn	Ala	Leu	Asn	Thr	Leu	Tyr
65					70				75						80

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

Ala Thr Ala Thr Leu Cys Asp Gly Gly Ile Trp Gly Tyr Trp Gly Gln
100 105 110

Gly Thr Gln Val Thr Val Ser Ser Ala Ala Ala Tyr Pro Tyr Asp Val
115 120 125

Pro Asp Tyr Gly Ser His His His His His His
130 135

<210> 531

<211> 139

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 531

Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Ser Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Val Ser Gly Phe Ile Leu Asp Tyr Tyr
20 25 30

Gly Ile Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Ala Val
35 40 45

Ser Cys Ile Ser Ser Ser Asp Gly Ser Thr Tyr Tyr Ala Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Leu Asn Thr Leu Tyr
65 70 75 80

Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Thr Ala Thr Leu Cys Asp Gly Gly Ile Trp Gly Tyr Trp Gly Gln
100 105 110

Gly Thr Gln Val Thr Val Ser Ser Ala Ala Ala Tyr Pro Tyr Asp Val
115 120 125

Pro Asp Tyr Gly Ser His His His His His
130 135

<210> 532
<211> 143
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 532

Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Ser Val Gln Ala Gly Asp
1 5 10 15

Ser Leu Arg Leu Ser Cys Thr Ala Ser Gly Arg Thr Phe Ser Ser Leu
20 25 30

Gly Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val
35 40 45

Ser Ala Ile Ala Trp Asn Gly Ala Ser Thr Tyr Tyr Thr Glu Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asp Ala Lys Asn Thr Val Tyr
65 70 75 80

Leu Gln Met Asn Ser Leu Lys Pro Thr Asp Thr Ala Val Tyr Phe Cys
85 90 95

Ala Ala Ser Gly Leu Gly Ser Val Val Val Thr Ala Asn Glu Tyr Asp
100 105 110

Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser Ala Ala Ala Tyr
115 120 125

Pro Tyr Asp Val Pro Asp Tyr Gly Ser His His His His His His
130 135 140

<210> 533
<211> 143
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 533

Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Ser Val Gln Pro Gly Lys
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Arg Thr Phe Ser Ser Leu
20 25 30

Gly Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val
35 40 45

Ser Ala Ile Ala Trp Asn Gly Ala Ser Thr Tyr Tyr Thr Glu Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asp Ala Lys Asn Thr Val Tyr
65 70 75 80

Leu Gln Met Asn Ser Leu Lys Pro Thr Asp Thr Ala Val Tyr Phe Cys
85 90 95

Ala Ala Ser Gly Leu Gly Ser Val Val Val Thr Ala Asn Glu Tyr Asp
100 105 110

Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser Ala Ala Ala Tyr

115

120

125

Pro Tyr Asp Val Pro Asp Tyr Gly Ser His His His His His His
 130 135 140

<210> 534

<211> 141

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 534

Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15

Ser Leu Arg Leu Ser Cys Thr Thr Ser Gly Phe Ala Phe Gly Ser Tyr
 20 25 30

Asp Met Gly Trp Val Arg Gln Ala Pro Gly Lys Gly Pro Glu Trp Val
 35 40 45

Ser Gly Ile Asn Ser Gly Gly Arg Ile Thr Asp Tyr Ala Asp Ser Val
 50 55 60

Thr Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Leu Tyr
 65 70 75 80

Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

Ala Gln Gly Asp Arg Ser Ser Trp His Tyr Tyr Gly Met Asp Tyr Trp
 100 105 110

Gly Lys Gly Thr Gln Val Thr Val Ser Ser Ala Ala Ala Tyr Pro Tyr
 115 120 125

Asp Val Pro Asp Tyr Gly Ser His His His His His His
 130 135 140

<210> 535
 <211> 139
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic polymer.

<220>
 <221> misc_feature
 <222> (112)..(112)
 <223> Xaa can be any naturally occurring amino acid

<400> 535

Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Ser Phe Gly Asn Asn
 20 25 30

Asp Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Pro Glu Trp Val
 35 40 45

Ser Ala Ile Asn Ser Gly Gly Gly Ser Thr Tyr Tyr Ala Asp Ser Val
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Leu Tyr
 65 70 75 80

Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

Ala Thr Lys Ser Asp Pro Met Thr Asn Glu Tyr Asp Leu Trp Gly Xaa
 100 105 110

Gly Thr Gln Val Thr Val Ser Ser Ala Ala Ala Tyr Pro Tyr Asp Val

115

120

125

Pro Asp Tyr Gly Ser His His His His His His
 130 135

<210> 536

<211> 447

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 536

Gln Val Gln Leu Val Gln Ser Gly Val Glu Val Lys Lys Pro Gly Ala
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asn Tyr
 20 25 30

Tyr Met Tyr Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
 35 40 45

Gly Gly Ile Asn Pro Ser Asn Gly Gly Thr Asn Phe Asn Glu Lys Phe
 50 55 60

Lys Asn Arg Val Thr Leu Thr Thr Asp Ser Ser Thr Thr Thr Ala Tyr
 65 70 75 80

Met Glu Leu Lys Ser Leu Gln Phe Asp Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

Ala Arg Arg Asp Tyr Arg Phe Asp Met Gly Phe Asp Tyr Trp Gly Gln
 100 105 110

Gly Thr Thr Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val
 115 120 125

Phe Pro Leu Ala Pro 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 Ser Leu Gly Thr Lys Thr Tyr Thr Cys Asn Val Asp His Lys
195 200 205

Pro Ser Asn Thr Lys Val Asp Lys Arg Val Glu Ser Lys Tyr Gly Pro
210 215 220

Pro Cys Pro Pro Cys Pro Ala Pro Glu Phe Leu Gly Gly Pro Ser Val
225 230 235 240

Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr
245 250 255

Pro Glu Val Thr Cys Val Val Val Asp Val Ser Gln Glu Asp Pro Glu
260 265 270

Val Gln Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys
275 280 285

Thr Lys Pro Arg Glu Glu Gln Phe Asn Ser Thr Tyr Arg Val Val Ser
290 295 300

Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys
305 310 315 320

Cys Lys Val Ser Asn Lys Gly Leu Pro Ser Ser Ile Glu Lys Thr Ile

Gly Tyr Ser Tyr Leu His Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro
35 40 45

Arg Leu Leu Ile Tyr Leu Ala Ser Tyr Leu Glu Ser Gly Val Pro Ala
50 55 60

Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser
65 70 75 80

Ser Leu Glu Pro Glu Asp Phe Ala Val Tyr Tyr Cys Gln His Ser Arg
85 90 95

Asp Leu Pro Leu Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys Arg
100 105 110

Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln
115 120 125

Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr
130 135 140

Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser
145 150 155 160

Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr
165 170 175

Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys
180 185 190

His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro
195 200 205

Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
210 215

<210> 538

<211> 440
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 538

Gln Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln Pro Gly Arg
1 5 10 15

Ser Leu Arg Leu Asp Cys Lys Ala Ser Gly Ile Thr Phe Ser Asn Ser
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 Trp Tyr Asp Gly Ser Lys Arg Tyr Tyr Ala 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 Thr Asn Asp Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser
100 105 110

Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Cys Ser
115 120 125

Arg Ser Thr Ser Glu Ser Thr Ala Ala Leu Gly Cys Leu Val Lys Asp
130 135 140

Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr
145 150 155 160

Ser Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr
165 170 175

Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Lys
180 185 190

Thr Tyr Thr Cys Asn Val Asp His Lys Pro Ser Asn Thr Lys Val Asp
195 200 205

Lys Arg Val Glu Ser Lys Tyr Gly Pro Pro Cys Pro Pro Cys Pro Ala
210 215 220

Pro Glu Phe Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro
225 230 235 240

Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val
245 250 255

Val Asp Val Ser Gln Glu Asp Pro Glu Val Gln Phe Asn Trp Tyr Val
260 265 270

Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln
275 280 285

Phe Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln
290 295 300

Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Gly
305 310 315 320

Leu Pro Ser Ser Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro
325 330 335

Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Gln Glu Glu Met Thr
340 345 350

Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser

355

360

365

Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr
 370 375 380

Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr
 385 390 395 400

Ser Arg Leu Thr Val Asp Lys Ser Arg Trp Gln Glu Gly Asn Val Phe
 405 410 415

Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys
 420 425 430

Ser Leu Ser Leu Ser Leu Gly Lys
 435 440

<210> 539

<211> 214

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 539

Glu Ile Val Leu Thr Gln Ser Pro Ala Thr Leu Ser Leu Ser Pro Gly
 1 5 10 15

Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Ser Ser Tyr
 20 25 30

Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile
 35 40 45

Tyr Asp Ala Ser Asn Arg Ala Thr Gly Ile Pro Ala Arg Phe Ser Gly
 50 55 60

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Glu Pro
65 70 75 80

Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Ser Ser Asn Trp Pro Arg
85 90 95

Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg Thr Val Ala Ala
100 105 110

Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu Lys Ser Gly
115 120 125

Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro Arg Glu Ala
130 135 140

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> 540
<211> 106
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 540

Glu Ile Val Leu Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
1 5 10 15

Asp Arg Val Thr Ile Thr Cys Ser Ala Arg Ser Ser Val Ser Tyr Met
20 25 30

His Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile Tyr
35 40 45

Arg Thr Ser Asn Leu Ala Ser Gly Val Pro Ser Arg Phe Ser Gly Ser
50 55 60

Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Asn Ser Leu Gln Pro Glu
65 70 75 80

Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Arg Ser Ser Phe Pro Leu Thr
85 90 95

Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
100 105

<210> 541
<211> 106
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 541

Glu Ile Val Leu Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
1 5 10 15

Asp Arg Val Thr Ile Thr Cys Ser Ala Arg Ser Ser Val Ser Tyr Met
20 25 30

His Trp Phe Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Trp Ile Tyr
35 40 45

Arg Thr Ser Asn Leu Ala Ser Gly Val Pro Ser Arg Phe Ser Gly Ser
50 55 60

Gly Ser Gly Thr Asp Tyr Thr Leu Thr Ile Asn Ser Leu Gln Pro Glu
65 70 75 80

Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Arg Ser Ser Phe Pro Leu Thr
85 90 95

Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
100 105

<210> 542

<211> 106

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 542

Glu Ile Val Leu Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
1 5 10 15

Asp Arg Val Thr Ile Thr Cys Ser Ala Arg Ser Ser Val Ser Tyr Met
20 25 30

His Trp Phe Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Trp Ile Tyr
35 40 45

Arg Thr Ser Asn Leu Ala Ser Gly Val Pro Ser Arg Phe Ser Gly Ser
50 55 60

Gly Ser Gly Thr Asp Tyr Cys Leu Thr Ile Asn Ser Leu Gln Pro Glu
65 70 75 80

Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Arg Ser Ser Phe Pro Leu Thr

85

90

95

Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
 100 105

<210> 543

<211> 106

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 543

Glu Ile Val Leu Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
 1 5 10 15

Asp Arg Val Thr Ile Thr Cys Ser Ala Arg Ser Ser Val Ser Tyr Met
 20 25 30

His Trp Phe Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Trp Ile Tyr
 35 40 45

Arg Thr Ser Asn Leu Ala Ser Gly Val Pro Ser Arg Phe Ser Gly Ser
 50 55 60

Gly Ser Gly Thr Ser Tyr Cys Leu Thr Ile Asn Ser Leu Gln Pro Glu
 65 70 75 80

Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Arg Ser Ser Phe Pro Leu Thr
 85 90 95

Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
 100 105

<210> 544

<211> 117

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 544

Gln Val Gln Leu Val Gln Ser Gly Ser Glu Leu Lys Lys Pro Gly Ala
1 5 10 15

Ser Val Lys Ile Ser Cys Lys Ala Ser Gly Tyr Ser Phe Ser Asn Tyr
20 25 30

Gly Met Asn Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Gln Trp Met
35 40 45

Gly Trp Ile Asn Thr Asp Ser Gly Glu Ser Thr Tyr Ala Glu Glu Phe
50 55 60

Lys Gly Arg Phe Val Phe Ser Leu Asp Thr Ser Val Ser Thr Ala Tyr
65 70 75 80

Leu Gln Ile Thr Ser Leu Thr Ala Glu Asp Thr Gly Met Tyr Phe Cys
85 90 95

Ala Lys Val Gly Tyr Asp Ala Leu Asp Tyr Trp Gly Gln Gly Thr Leu
100 105 110

Val Thr Val Ser Ser
115

<210> 545

<211> 117

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 545

Gln Val Gln Leu Val Gln Ser Gly Ser Glu Leu Lys Lys Pro Gly Ala

1	5	10	15
Ser Val Lys Ile Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asn Tyr	20	25	30
Gly Met Asn Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Gln Trp Met	35	40	45
Gly Trp Ile Asn Thr Asp Ser Gly Glu Ser Thr Tyr Ala Glu Glu Phe	50	55	60
Lys Gly Arg Phe Val Phe Ser Leu Asp Thr Ser Val Ser Thr Ala Tyr	65	70	75
Leu Gln Ile Thr Ser Leu Thr Ala Glu Asp Thr Gly Met Tyr Phe Cys	85	90	95
Ala Lys Val Gly Tyr Asp Ala Leu Asp Tyr Trp Gly Gln Gly Thr Leu	100	105	110
Val Thr Val Ser Ser	115		

<210> 546
 <211> 117
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic polymer.

<400> 546

Gln Val Gln Leu Val Gln Ser Gly Ser Glu Leu Lys Lys Pro Gly Ala	1	5	10	15
Ser Val Lys Ile Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asn Tyr	20	25	30	

Gly Met Asn Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Gln Trp Met
35 40 45

Gly Trp Ile Asn Thr Asp Ser Gly Glu Ser Thr Tyr Ala Glu Glu Phe
50 55 60

Lys Gly Arg Phe Val Phe Ser Leu Asp Thr Ser Val Asn Thr Ala Tyr
65 70 75 80

Leu Gln Ile Thr Ser Leu Thr Ala Glu Asp Thr Gly Met Tyr Phe Cys
85 90 95

Val Arg Val Gly Tyr Asp Ala Leu Asp Tyr Trp Gly Gln Gly Thr Leu
100 105 110

Val Thr Val Ser Ser
115

<210> 547
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 547

Gln Ile Gln Leu Val Gln Ser Gly Ser Glu Leu Lys Lys Pro Gly Ala
1 5 10 15

Ser Val Lys Ile Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asn Tyr
20 25 30

Gly Met Asn Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Gln Trp Met
35 40 45

Gly Trp Ile Asn Thr Asp Ser Gly Glu Ser Thr Tyr Ala Glu Glu Phe
50 55 60

Lys Gly Arg Phe Val Phe Ser Leu Asp Thr Ser Val Asn Thr Ala Tyr
65 70 75 80

Leu Gln Ile Thr Ser Leu Thr Ala Glu Asp Thr Gly Met Tyr Phe Cys
85 90 95

Val Arg Val Gly Tyr Asp Ala Leu Asp Tyr Trp Gly Gln Gly Thr Leu
100 105 110

Val Thr Val Ser Ser
115

<210> 548

<211> 117

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 548

Gln Ile Gln Leu Val Gln Ser Gly Ser Glu Leu Lys Lys Pro Gly Ala
1 5 10 15

Ser Val Lys Ile Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asn Tyr
20 25 30

Gly Met Asn Trp Val Lys Gln Ala Pro Gly Gln Gly Leu Lys Trp Met
35 40 45

Gly Trp Ile Asn Thr Asp Ser Gly Glu Ser Thr Tyr Ala Glu Glu Phe
50 55 60

Lys Gly Arg Phe Ala Phe Ser Leu Asp Thr Ser Val Asn Thr Ala Tyr
65 70 75 80

Leu Gln Ile Thr Ser Leu Asn Ala Glu Asp Thr Gly Met Tyr Phe Cys
85 90 95

Val Arg Val Gly Tyr Asp Ala Leu Asp Tyr Trp Gly Gln Gly Thr Leu
100 105 110

Val Thr Val Ser Ser
115

<210> 549
<211> 106
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 549

Glu Ile Val Leu Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
1 5 10 15

Asp Arg Val Thr Ile Thr Cys Ser Ala Arg Ser Ser Val Ser Tyr Met
20 25 30

His Trp Phe Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Trp Ile Tyr
35 40 45

Arg Thr Ser Asn Leu Ala Ser Gly Val Pro Ser Arg Phe Ser Gly Ser
50 55 60

Gly Ser Gly Thr Ser Tyr Cys Leu Thr Ile Asn Ser Leu Gln Pro Glu
65 70 75 80

Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Arg Ser Ser Phe Pro Leu Thr
85 90 95

Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
100 105

<210> 550

<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 550

Gln Val Gln Leu Val Gln Ser Gly Ser Glu Leu Lys Lys Pro Gly Ala
1 5 10 15

Ser Val Lys Ile Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asn Tyr
20 25 30

Gly Met Asn Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Gln Trp Met
35 40 45

Gly Trp Ile Asn Thr Asp Ser Gly Glu Ser Thr Tyr Ala Glu Glu Phe
50 55 60

Lys Gly Arg Phe Val Phe Ser Leu Asp Thr Ser Val Asn Thr Ala Tyr
65 70 75 80

Leu Gln Ile Thr Ser Leu Thr Ala Glu Asp Thr Gly Met Tyr Phe Cys
85 90 95

Val Arg Val Gly Tyr Asp Ala Leu Asp Tyr Trp Gly Gln Gly Thr Leu
100 105 110

Val Thr Val Ser Ser
115

<210> 551
<211> 254
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 551

Leu Phe Thr Val Thr Val Pro Lys Glu Leu Tyr Ile Ile Glu His Gly
1 5 10 15

Ser Asn Val Thr Leu Glu Cys Asn Phe Asp Thr Gly Ser His Val Asn
20 25 30

Leu Gly Ala Ile Thr Ala Ser Leu Gln Lys Val Glu Asn Asp Thr Ser
35 40 45

Pro His Arg Glu Arg Ala Thr Leu Leu Glu Glu Gln Leu Pro Leu Gly
50 55 60

Lys Ala Ser Phe His Ile Pro Gln Val Gln Val Arg Asp Glu Gly Gln
65 70 75 80

Tyr Gln Cys Ile Ile Ile Tyr Gly Val Ala Trp Asp Tyr Lys Tyr Leu
85 90 95

Thr Leu Lys Val Lys Ala Ser Tyr Arg Lys Ile Asn Thr His Ile Leu
100 105 110

Lys Val Pro Glu Thr Asp Glu Val Glu Leu Thr Cys Gln Ala Thr Gly
115 120 125

Tyr Pro Leu Ala Glu Val Ser Trp Pro Asn Val Ser Val Pro Ala Asn
130 135 140

Thr Ser His Ser Arg Thr Pro Glu Gly Leu Tyr Gln Val Thr Ser Val
145 150 155 160

Leu Arg Leu Lys Pro Pro Pro Gly Arg Asn Phe Ser Cys Val Phe Trp
165 170 175

Asn Thr His Val Arg Glu Leu Thr Leu Ala Ser Ile Asp Leu Gln Ser
180 185 190

Gln Met Glu Pro Arg Thr His Pro Thr Trp Leu Leu His Ile Phe Ile
195 200 205

Pro Phe Cys Ile Thr Ala Phe Thr Phe Ile Ala Thr Val Ile Ala Leu
210 215 220

Arg Lys Gln Leu Cys Gln Lys Leu Tyr Ser Ser Lys Asp Thr Thr Lys
225 230 235 240

Arg Pro Val Thr Thr Thr Lys Arg Glu Val Asn Ser Ala Ile
245 250

<210> 552
<211> 453
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 552

Met Ile Phe Leu Leu Leu Met Leu Ser Leu Glu Leu Gln Leu His Gln
1 5 10 15

Thr Ala Ala Leu Phe Thr Val Thr Val Pro Lys Glu Leu Tyr Ile Ile
20 25 30

Glu His Gly Ser Asn Val Thr Leu Glu Cys Asn Phe Asp Thr Gly Ser
35 40 45

His Val Asn Leu Gly Ala Ile Thr Ala Ser Leu Gln Lys Val Glu Asn
50 55 60

Asp Thr Ser Pro His Arg Glu Arg Ala Thr Leu Leu Glu Glu Gln Leu
65 70 75 80

Pro Leu Gly Lys Ala Ser Phe His Ile Pro Gln Val Gln Val Arg Asp
85 90 95

Glu Gly Gln Tyr Gln Cys Ile Ile Ile Tyr Gly Val Ala Trp Asp Tyr
100 105 110

Lys Tyr Leu Thr Leu Lys Val Lys Ala Ser Tyr Arg Lys Ile Asn Thr
115 120 125

His Ile Leu Lys Val Pro Glu Thr Asp Glu Val Glu Leu Thr Cys Gln
130 135 140

Ala Thr Gly Tyr Pro Leu Ala Glu Val Ser Trp Pro Asn Val Ser Val
145 150 155 160

Pro Ala Asn Thr Ser His Ser Arg Thr Pro Glu Gly Leu Tyr Gln Val
165 170 175

Thr Ser Val Leu Arg Leu Lys Pro Pro Pro Gly Arg Asn Phe Ser Cys
180 185 190

Val Phe Trp Asn Thr His Val Arg Glu Leu Thr Leu Ala Ser Ile Asp
195 200 205

Leu Gln Ser Gln Met Glu Pro Arg Thr His Pro Thr Trp Glu Pro Lys
210 215 220

Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu
225 230 235 240

Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr
245 250 255

Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val
260 265 270

Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val
275 280 285

Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser
 290 295 300

Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu
 305 310 315 320

Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala
 325 330 335

Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro
 340 345 350

Gln Val Tyr Thr Leu Pro Pro Ser Arg Asp Glu Leu 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> 553
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 553

Ser Asn Thr Ser Glu Ser Phe Lys Ser Asn Thr Ser Glu Ser Phe Phe
1 5 10 15

Arg Val Thr Gln Leu Ala Pro Lys Ala Gln Ile Lys Glu
20 25

<210> 554

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 554

Glu Val Gln Leu Gln Gln Ser Gly Pro Val Leu Val Lys Pro Gly Ala
1 5 10 15

Ser Val Lys Met Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asp Tyr
20 25 30

Tyr Met Asn Trp Val Lys Gln Ser His Gly Lys Ser Leu Glu Trp Ile
35 40 45

Gly Asn Ile Asn Pro Tyr Asn Gly Gly Thr Thr Tyr Asn Gln Lys Phe
50 55 60

Lys Gly Lys Ala Thr Leu Thr Val Asp Lys Ser Ser Arg Thr Ala Tyr
65 70 75 80

Met Glu Ile Asn Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr Tyr Cys
85 90 95

Ala Arg Gly Arg Ile Tyr Asp Gly Ser Leu Asp Tyr Trp Gly Gln Gly

100

105

110

Thr Ala Leu Thr Val Ser Ser
115

<210> 555

<211> 106

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 555

Asp Ile Gln Met Thr Gln Phe Pro Ser Ser Leu Cys Ala Ser Gln Gly
1 5 10 15

Gly Lys Val Thr Val Thr Cys Lys Ala Ser Gln Asp Ile Asn Asn Tyr
20 25 30

Met Ala Trp Tyr Gln His Lys Pro Gly Lys Gly Pro Arg Leu Leu Ile
35 40 45

His Tyr Thr Ser Thr Leu Leu Ser Gly Ile Pro Ser Arg Phe Ser Gly
50 55 60

Ser Gly Ser Gly Arg Asp Tyr Ser Phe Ser Ile Ser Asn Leu Glu Pro
65 70 75 80

Glu Asp Ile Ala Thr Tyr Tyr Cys Leu Gln Tyr Asp Asn Leu Trp Thr
85 90 95

Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
100 105

<210> 556

<211> 116

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 556

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Leu Ala Lys Pro Gly Ala
1 5 10 15

Ser Val Arg Leu Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asn Tyr
20 25 30

Trp Met His Trp Val Lys Gln Arg Pro Gly Gln Gly Leu Glu Trp Ile
35 40 45

Gly His Ile Asn Pro Ser Ser Gly Phe Thr Thr Tyr Asn Gln Asn Phe
50 55 60

Lys Asp Lys Ala Thr Leu Thr Ala Asp Lys Ser Ser Asn Thr Ala Tyr
65 70 75 80

Met Gln Leu Ser Ser Leu Thr Tyr Glu Asp Ser Ala Val Tyr Phe Cys
85 90 95

Ala Arg Glu Asp Tyr Asp Val Asp Tyr Trp Gly Gln Gly Thr Thr Leu
100 105 110

Thr Val Ser Ser
115

<210> 557

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 557

Asp Ile Val Met Thr Gln Ser Gln Lys Phe Met Ser Thr Ser Val Gly

1	5	10	15
Asp Arg Val Ser Val Thr Cys Lys Ala Ser Gln Ser Val Asp Thr Asn	20	25	30
Val Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Lys Ala Leu Ile	35	40	45
Phe Ser Ala Ser Tyr Arg Tyr Ser Gly Val Pro Asp Arg Phe Thr Gly	50	55	60
Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Asn Ser Val Gln Ser	65	70	75
Glu Asp Leu Ala Glu Tyr Phe Cys Gln Gln Tyr Asn Ser Tyr Pro Tyr	85	90	95
Thr Phe Gly Ser Gly Thr Lys Leu Glu Ile Lys	100	105	

<210> 558
 <211> 122
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic polymer.

<400> 558

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Lys Pro Gly Gly	1	5	10	15
Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Asp Tyr	20	25	30	
Gly Met His Trp Val Arg Gln Ala Pro Glu Lys Gly Leu Glu Trp Val	35	40	45	

Ala Tyr Ile Ser Ser Gly Ser Tyr Thr Ile Tyr Tyr Thr Asp Thr Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Leu Phe
65 70 75 80

Leu Gln Met Thr Ser Leu Arg Ser Glu Asp Thr Ala Met Tyr Tyr Cys
85 90 95

Ala Arg Arg Gly Tyr Gly Ser Phe Tyr Glu Tyr Tyr Phe Asp Tyr Trp
100 105 110

Gly Gln Gly Thr Thr Leu Thr Val Ser Ser
115 120

<210> 559
<211> 106
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 559

Gln Ile Val Leu Thr Gln Ser Pro Ala Leu Met Ser Ala Ser Pro Gly
1 5 10 15

Glu Lys Val Thr Met Thr Cys Ser Ala Ser Ser Ser Val Ser Tyr Met
20 25 30

Tyr Trp Tyr Gln Gln Lys Pro Arg Ser Ser Pro Lys Pro Trp Ile Tyr
35 40 45

Leu Thr Ser Asn Leu Ala Ser Gly Val Pro Ala Arg Phe Ser Gly Ser
50 55 60

Gly Ser Gly Thr Ser Tyr Ser Leu Thr Ile Ser Ser Met Glu Ala Glu
65 70 75 80

Asp Ala Ala Thr Tyr Tyr Cys Gln Gln Trp Ser Ser Asn Pro Phe Thr
85 90 95

Phe Gly Ser Gly Thr Lys Leu Glu Ile Lys
100 105

<210> 560
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 560

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Lys
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Ile Phe Ser Ile His
20 25 30

Ala Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val
35 40 45

Ala Ala Ile Thr Trp Ser Gly Gly Ile Thr Tyr Tyr Glu Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr
65 70 75 80

Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Ile Tyr Tyr Cys
85 90 95

Ala Ala Asp Arg Ala Glu Ser Ser Trp Tyr Asp Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 561
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 561

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Ile Ala Ser Ile His
20 25 30

Ala Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val
35 40 45

Ala Val Ile Thr Trp Ser Gly Gly Ile Thr Tyr Tyr Ala Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr
65 70 75 80

Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Ile Tyr Tyr Cys
85 90 95

Ala Gly Asp Lys His Gln Ser Ser Trp Tyr Asp Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 562
<211> 119
<212> PRT
<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 562

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Ile Ser Ser Ile His
20 25 30

Ala Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val
35 40 45

Ala Ala Ile Thr Trp Ser Gly Gly Ile Thr Tyr Tyr Ala Asp Ser Leu
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Gly Tyr
65 70 75 80

Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Ile Tyr Tyr Cys
85 90 95

Ala Ala Asp Arg Ala Gln Ser Ser Trp Tyr Asp Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 563

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 563

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1 5 10 15

Ser Leu Gly Leu Ser Cys Ala Ala Ser Gly Ser Ile Phe Ser Ile Asn
20 25 30

Ala Met Ala Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val
35 40 45

Ala Leu Ile Ser Trp Ser Gly Gly Ser Thr Tyr Tyr Glu Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr
65 70 75 80

Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Ile Tyr Tyr Cys
85 90 95

Ala Ala Asp Arg Val Asp Ser Asn Trp Tyr Asp Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 564
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 564

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Arg Ala Phe Ser Ser Gly
20 25 30

Thr Met Gly Trp Phe Arg Arg Ala Pro Gly Lys Glu Arg Glu Phe Val

35

40

45

Ala Ser Ile Pro Trp Ser Gly Gly Arg Ile Tyr Tyr Ala Asp Ser Val
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Gln Asn Thr Val Tyr
 65 70 75 80

Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

Ala Val Lys Glu Arg Ser Thr Gly Trp Asp Phe Ala Ser Trp Gly Gln
 100 105 110

Cys Thr Gln Val Thr Val Ser Ser
 115 120

<210> 565
 <211> 121
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic polymer.

<400> 565

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Leu Lys Gln Pro Gly Ala
 1 5 10 15

Ser Val Lys Met Ser Cys Lys Ala Ser Gly Tyr Ser Phe Thr Ser Ser
 20 25 30

Trp Ile His Trp Val Lys Gln Ala Pro Gly Gln Gly Leu Glu Trp Ile
 35 40 45

Gly Tyr Ile Tyr Pro Ser Thr Gly Phe Thr Glu Tyr Asn Gln Lys Phe
 50 55 60

Lys Asp Arg Ala Thr Leu Thr Ala Asp Lys Ser Thr Ser Thr Ala Tyr
65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Ser Ala Val Tyr Tyr Cys
85 90 95

Ala Arg Trp Arg Asp Ser Ser Gly Tyr His Ala Met Asp Tyr Trp Gly
100 105 110

Gln Gly Thr Ser Val Thr Val Ser Ser
115 120

<210> 566
<211> 121
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 566

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Gln Pro Gly Ala
1 5 10 15

Ser Val Lys Met Ser Cys Lys Ala Ser Gly Tyr Ser Phe Thr Ser Ser
20 25 30

Trp Ile His Trp Val Lys Gln Ala Pro Gly Gln Gly Leu Glu Trp Ile
35 40 45

Gly Tyr Ile Tyr Pro Ser Thr Gly Phe Thr Glu Tyr Asn Gln Lys Phe
50 55 60

Lys Asp Arg Ala Thr Leu Thr Ala Asp Lys Ser Thr Ser Thr Ala Tyr
65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Arg Trp Arg Asp Ser Ser Gly Tyr His Ala Met Asp Tyr Trp Gly
100 105 110

Gln Gly Thr Ser Val Thr Val Ser Ser
115 120

<210> 567

<211> 121

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 567

Gln Val Gln Leu Val Gln Ser Gly His Glu Val Lys Gln Pro Gly Ala
1 5 10 15

Ser Val Lys Met Ser Cys Lys Ala Ser Gly Tyr Ser Phe Thr Ser Ser
20 25 30

Trp Ile His Trp Val Lys Gln Ala Pro Gly Gln Gly Leu Glu Trp Ile
35 40 45

Gly Tyr Ile Tyr Pro Ser Thr Gly Phe Thr Glu Tyr Asn Gln Lys Phe
50 55 60

Lys Asp Arg Ala Thr Leu Thr Ala Asp Lys Ser Thr Ser Thr Ala Tyr
65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Arg Trp Arg Asp Ser Ser Gly Tyr His Ala Met Asp Tyr Trp Gly
100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 568
<211> 121
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 568

Gln Val Gln Leu Val Gln Ser Gly His Glu Val Lys Gln Pro Gly Ala
1 5 10 15

Ser Val Lys Met Ser Cys Lys Ala Ser Gly Tyr Ser Phe Thr Ser Ser
20 25 30

Trp Ile His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Ile
35 40 45

Gly Tyr Ile Tyr Pro Ser Thr Gly Phe Thr Glu Tyr Asn Gln Lys Phe
50 55 60

Lys Asp Arg Ala Thr Leu Thr Ala Asp Lys Ser Thr Ser Thr Ala Tyr
65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Arg Trp Arg Asp Ser Ser Gly Tyr His Ala Met Asp Tyr Trp Gly
100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 569
<211> 121
<212> PRT
<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 569

Gln Val Gln Leu Val Gln Ser Gly His Glu Val Lys Gln Pro Gly Ala
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Ser Phe Thr Ser Ser
20 25 30

Trp Ile His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Ile
35 40 45

Gly Tyr Ile Tyr Pro Ser Thr Gly Phe Thr Glu Tyr Asn Gln Lys Phe
50 55 60

Lys Asp Arg Ala Thr Ile Thr Ala Asp Lys Ser Thr Ser Thr Ala Tyr
65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Arg Trp Arg Asp Ser Ser Gly Tyr His Ala Met Asp Tyr Trp Gly
100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 570

<211> 111

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 570

Asp Ile Val Leu Thr Gln Ser Pro Ala Ser Leu Thr Leu Ser Pro Gly
1 5 10 15

Gln Arg Leu Thr Ile Ser Cys Arg Ala Ser Gln Ser Val Ser Thr Ser
20 25 30

Gly Tyr Ser Tyr Met His Trp Tyr Gln Gln Lys Pro Asp Gln Ser Pro
35 40 45

Lys Leu Leu Ile Lys Phe Gly Ser Asn Leu Glu Ser Gly Ile Pro Ala
50 55 60

Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser
65 70 75 80

Ser Leu Glu Glu Glu Asp Phe Ala Thr Tyr Tyr Cys Gln His Ser Trp
85 90 95

Glu Ile Pro Tyr Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
100 105 110

<210> 571

<211> 111

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 571

Asp Ile Val Leu Thr Gln Ser Pro Ala Thr Leu Ser Leu Ser Pro Gly
1 5 10 15

Gln Arg Leu Thr Ile Ser Cys Arg Ala Ser Gln Ser Val Ser Thr Ser
20 25 30

Gly Tyr Ser Tyr Met His Trp Tyr Gln Gln Lys Pro Asp Gln Ser Pro
35 40 45

Lys Leu Leu Ile Lys Phe Gly Ser Asn Leu Glu Ser Gly Ile Pro Ala

50

55

60

Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser
65 70 75 80

Ser Leu Glu Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln His Ser Trp
85 90 95

Glu Ile Pro Tyr Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
100 105 110

<210> 572

<211> 111

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 572

Glu Ile Val Leu Thr Gln Ser Pro Ala Thr Leu Ser Leu Ser Pro Gly
1 5 10 15

Gln Arg Leu Thr Ile Ser Cys Arg Ala Ser Gln Ser Val Ser Thr Ser
20 25 30

Gly Tyr Ser Tyr Met His Trp Tyr Gln Gln Lys Pro Asp Gln Ser Pro
35 40 45

Lys Leu Leu Ile Lys Phe Gly Ser Asn Leu Glu Ser Gly Ile Pro Ala
50 55 60

Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser
65 70 75 80

Ser Leu Glu Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln His Ser Trp
85 90 95

Glu Ile Pro Tyr Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
100 105 110

<210> 573
<211> 111
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 573

Asp Ile Val Leu Thr Gln Ser Pro Ala Thr Leu Ser Leu Ser Pro Gly
1 5 10 15

Gln Arg Leu Thr Ile Ser Cys Arg Ala Ser Gln Ser Val Ser Thr Ser
20 25 30

Gly Tyr Ser Tyr Met His Trp Tyr Gln Gln Lys Pro Asp Gln Ser Pro
35 40 45

Lys Leu Leu Ile Lys Phe Gly Ser Asn Leu Glu Ser Gly Ile Pro Ala
50 55 60

Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser
65 70 75 80

Ser Leu Glu Pro Glu Asp Phe Ala Val Tyr Tyr Cys Gln His Ser Trp
85 90 95

Glu Ile Pro Tyr Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
100 105 110

<210> 574
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 574

Gly Phe Thr Leu Asp Tyr Tyr Ala Ile Gly
1 5 10

<210> 575

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 575

Gly Thr Ile Phe Ser Ile Asn His Met Asp
1 5 10

<210> 576

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 576

Gly Phe Thr Phe Asp Asp Tyr Gly Met Ser
1 5 10

<210> 577

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 577

Gly Phe Thr Leu Asp Tyr Tyr Ala Ile Asn
1 5 10

<210> 578
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 578

Gly	Thr	Ile	Phe	Ser	Ile	Asn	Arg	Met	Asp
1				5					10

<210> 579
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 579

Gly	Phe	Thr	Phe	Ser	Ser	Tyr	Gly	Met	Ser
1				5					10

<210> 580
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 580

Gly	Lys	Ile	Phe	Ser	Gly	Asn	Asp	Met	Gly
1				5					10

<210> 581
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 581

Gly Thr Ile Phe Ser Ile Asn Arg Met Asp
1 5 10

<210> 582

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 582

Gly Phe Thr Phe Ser Ser Tyr Gly Met Ser
1 5 10

<210> 583

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 583

Gly Phe Thr Phe Asn Asp Tyr Ala Met Ser
1 5 10

<210> 584

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 584

Gly Phe Asn Leu Asp Pro Tyr Ala Ile Ala
1 5 10

<210> 585
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 585

Gly Phe Thr Phe Thr Ala Tyr Ala Met Ser
1 5 10

<210> 586
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 586

Gly Phe Thr Phe Asp Tyr Tyr Ala Ile Gly
1 5 10

<210> 587
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 587

Gly Phe Asn Leu Asp Pro Tyr Ala Ile Ala
1 5 10

<210> 588
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 588

Gly Thr Ile Phe Ser Ile Asn Arg Met Asp
1 5 10

<210> 589

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 589

Gly Thr Ile Phe Ser Ile Asn Arg Met Asp
1 5 10

<210> 590

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 590

Gly Phe Thr Phe Ser Ser Tyr Gly Met Ser
1 5 10

<210> 591

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 591

Gly Phe Asn Leu Asp Pro Tyr Ala Ile Gly
1 5 10

<210> 592
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 592

Gly Phe Asn Leu Asp Pro Tyr Ala Ile Ala
1 5 10

<210> 593
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 593

Glu Ser Ile Phe Ser Ile Glu Ala Met Gly
1 5 10

<210> 594
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 594

Gly Lys Ile Phe Ser Gly Asn Asp Met Gly
1 5 10

<210> 595
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 595

Gly Phe Thr Leu Asp Tyr Tyr Ala Ile Gly
1 5 10

<210> 596

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 596

Gly Phe Thr Phe Ser Ser Tyr Gly Met Ser
1 5 10

<210> 597

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 597

Gly Thr Ile Phe Ser Ile Asn Arg Met Asp
1 5 10

<210> 598

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 598

Gly Phe Thr Phe Ser Ser Tyr Gly Met Ser
1 5 10

<210> 599
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 599

Gly Phe Asn Leu Asp Pro Tyr Ala Ile Ala
1 5 10

<210> 600
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 600

Gly Arg Thr Phe Ser Ile Ser Ala Met Gly
1 5 10

<210> 601
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 601

Gly Phe Thr Leu Asp Tyr Tyr Ala Ile Asn
1 5 10

<210> 602
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 602

Gly Phe Thr Phe Ser Ser Tyr Gly Met Ser
1 5 10

<210> 603

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 603

Gly Phe Thr Phe Asn Asp Tyr Ala Met Ser
1 5 10

<210> 604

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 604

Gly Phe Thr Leu Asp Tyr Tyr Ala Ile Gly
1 5 10

<210> 605

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 605

Ile Ser Ser Ser Asp Gly Ser Thr Tyr
1 5

<210> 606
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 606

Ile Thr Ser Asp Gly Phe Pro Thr
1 5

<210> 607
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 607

Ile Arg Trp Asn Gly Gly Ser Thr Asn
1 5

<210> 608
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 608

Ile Ser Ser Ser Asp Gly Ser Thr Tyr
1 5

<210> 609
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 609

Ile Thr Ser Asp Gly Thr Pro Thr
1 5

<210> 610

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 610

Ile Asp Ser Gly Gly Gly Ser Thr Ser
1 5

<210> 611

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 611

Ile Thr Ser Gly Gly Ile Thr Asp
1 5

<210> 612

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 612

Ile Thr Ser Asp Gly Thr Pro Thr
1 5

<210> 613
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 613

Ile Asp Ser Gly Gly Gly Ser Thr Ser
1 5

<210> 614
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 614

Ile Arg Ser Asn Gly Gly Tyr Thr Asn
1 5

<210> 615
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 615

Ile Ser Ser Ser Asp Val Gly Thr Tyr
1 5

<210> 616
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 616

Ile Asn Ser Ser Asp Gly Ser Thr Tyr
1 5

<210> 617

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 617

Ile Ser Gly Ser Asp Ser Ser Thr Tyr
1 5

<210> 618

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 618

Ile Ser Ser Ser Asp Val Gly Thr Tyr
1 5

<210> 619

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 619

Ile Thr Ser Asp Gly Thr Pro Thr
1 5

<210> 620
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 620

Ile Thr Ser Asp Gly Thr Pro Ala
1 5

<210> 621
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 621

Ile Asp Ser Gly Gly Gly Ser Thr Ser
1 5

<210> 622
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 622

Ile Ser Ser Gly Asp Gly Ser Lys Tyr
1 5

<210> 623
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 623

Ile Ser Ser Ser Asp Val Gly Thr Tyr
1 5

<210> 624

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 624

Ile Phe Gly Gly Gly Phe Thr Asn
1 5

<210> 625

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 625

Ile Thr Ser Gly Gly Ile Thr Asp
1 5

<210> 626

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 626

Ile Ser Ser Ser Asp Gly Ser Thr Tyr
1 5

<210> 627
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 627

Ile Asp Ser Gly Gly Gly Ser Thr Ser
1 5

<210> 628
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 628

Ile Thr Ser Asp Gly Thr Pro Thr
1 5

<210> 629
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 629

Ile Asp Ser Gly Gly Gly Ser Thr Ser
1 5

<210> 630
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 630

Ile Ser Ser Ser Asp Val Gly Thr Tyr
1 5

<210> 631

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 631

Ile Thr Trp Ser Gly Gly Ser Thr Ser
1 5

<210> 632

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 632

Ile Ser Ser Ser Asp Gly Ser Thr Tyr
1 5

<210> 633

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 633

Ile Asp Ser Gly Gly Gly Ser Thr Ser
1 5

<210> 634
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 634

Ile Arg Ser Asn Gly Gly Tyr Thr Asn
1 5

<210> 635
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 635

Ile Ser Ser Ser Asp Gly Ser Thr Tyr
1 5

<210> 636
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 636

Asp Gly Trp Ser Ser Cys Arg His Gly Ile Asn Glu Tyr Leu Tyr Trp
1 5 10 15

<210> 637
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 637

Ser Ser Gly Val Tyr Asn Tyr Trp
1 5

<210> 638

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 638

Gln Gly Tyr Tyr Cys Ser Gly Tyr Gly Cys Pro Arg
1 5 10

<210> 639

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 639

Ser Gly Trp Arg Leu Cys Arg Pro Thr Asp Glu Tyr Asp Tyr Ser Tyr
1 5 10 15

Trp

<210> 640

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 640

Ser Ser Gly Val Tyr Asn Tyr Trp
1 5

<210> 641
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 641

Gln Gly Tyr Tyr Cys Ser Gly Tyr Gly Cys Ser Asp Tyr Trp
1 5 10

<210> 642
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 642

Arg Asp Arg Thr Ile Trp Trp
1 5

<210> 643
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 643

Ser Ser Gly Val Tyr Asn Tyr Trp
1 5

<210> 644
<211> 14
<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 644

Gln Gly Tyr Tyr Cys Ser Gly Tyr Gly Cys Ser Asp Tyr Trp
1 5 10

<210> 645

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 645

Gln Gly Tyr Tyr Cys Ser Gly Tyr Gly Cys Tyr Pro
1 5 10

<210> 646

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 646

Asp Gly Tyr Tyr Tyr Cys Ser Asp Tyr Pro His Pro Leu Tyr Trp
1 5 10 15

<210> 647

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 647

Asp Gly Trp Arg Asp Cys Thr Trp Ser Asn Glu Tyr Ala Tyr Trp
1 5 10 15

<210> 648
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 648

Thr Gly Trp Arg Thr Cys Arg Gly Leu Asn Glu Tyr Asp Tyr Trp
1 5 10 15

<210> 649
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 649

Asp Gly Tyr Tyr Tyr Cys Ser Asp Tyr Pro His Pro Leu Tyr Trp
1 5 10 15

<210> 650
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 650

Ser Ser Gly Val Tyr Asn Tyr Trp
1 5

<210> 651
<211> 8
<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 651

Ser Ser Gly Val Tyr Asn Tyr Trp
1 5

<210> 652

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 652

Gln Gly Tyr Tyr Cys Ser Gly Tyr Gly Cys Ser Asp Tyr Trp
1 5 10

<210> 653

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 653

Asp Gly Tyr Tyr Tyr Cys Ser Asp Tyr Pro His Pro Leu Tyr Trp
1 5 10 15

<210> 654

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 654

Asp	Gly	Tyr	Tyr	Tyr	Cys	Ser	Asp	Tyr	Pro	His	Pro	Leu	Tyr	Trp
1				5					10					15

<210> 655
 <211> 13
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic polymer.

<400> 655

Asp	Leu	Val	Ser	Gly	Ser	Ser	Arg	Leu	Tyr	Asp	Tyr	Trp
1				5					10			

<210> 656
 <211> 7
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic polymer.

<400> 656

Arg	Asp	Arg	Thr	Ile	Trp	Trp
1				5		

<210> 657
 <211> 16
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic polymer.

<400> 657

Asp	Gly	Trp	Ser	Ser	Cys	Arg	His	Gly	Ile	Asn	Glu	Tyr	Leu	Tyr	Trp
1				5					10					15	

<210> 658
 <211> 14
 <212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 658

Gln Gly Tyr Tyr Cys Ser Gly Tyr Gly Cys Ser Asp Tyr Trp
1 5 10

<210> 659

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 659

Ser Ser Gly Val Tyr Asn Tyr Trp
1 5

<210> 660

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 660

Gln Gly Tyr Tyr Cys Ser Gly Tyr Gly Cys Ser Asp Tyr Trp
1 5 10

<210> 661

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 661

Asp Gly Tyr Tyr Tyr Cys Ser Asp Tyr Pro His Pro Leu Tyr Trp
1 5 10 15

<210> 662
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 662

Met Gly Arg Thr Asn Tyr Gly Val Ile Tyr Asp Pro Asn Met Tyr Asn
1 5 10 15

Tyr Trp

<210> 663
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 663

Ser Gly Trp Arg Leu Cys Arg Pro Thr Asp Glu Tyr Asp Tyr Leu Tyr
1 5 10 15

Trp

<210> 664
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 664

Gln Gly Tyr Tyr Cys Ser Gly Tyr Gly Cys Ser Asp Tyr Trp
1 5 10

<210> 665
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 665

Gln Gly Tyr Tyr Cys Ser Gly Tyr Gly Cys Tyr Pro
1 5 10

<210> 666
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 666

Asp Gly Trp Ser Ser Cys Arg His Gly Ile Asn Glu Tyr Leu Tyr Trp
1 5 10 15

<210> 667
<211> 143
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 667

Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Leu Asp Tyr Tyr
20 25 30

Ala Ile Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Glu Val
35 40 45

Ser Cys Ile Ser Ser Ser Asp Gly Ser Thr Tyr Tyr Ala Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Asn
65 70 75 80

Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Thr Asp Gly Trp Ser Ser Cys Arg His Gly Ile Asn Glu Tyr Leu
100 105 110

Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser Ala Ala Ala Tyr
115 120 125

Pro Tyr Asp Val Pro Asp Tyr Gly Ser His His His His His His
130 135 140

<210> 668
<211> 134
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 668

Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Thr Ala Ser Gly Thr Ile Phe Ser Ile Asn
20 25 30

His Met Asp Trp Phe Arg Gln Ala Pro Gly Lys Gln Arg Glu Leu Val

35

40

45

Ala Leu Ile Thr Ser Asp Gly Phe Pro Thr Tyr Ala Asp Ser Ala Lys
 50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Thr Lys Lys Thr Val Ser Leu
 65 70 75 80

Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys His
 85 90 95

Val Ser Ser Gly Val Tyr Asn Tyr Trp Gly Gln Gly Thr Gln Val Thr
 100 105 110

Val Ser Ser Ala Ala Ala Tyr Pro Tyr Asp Val Pro Asp Tyr Gly Ser
 115 120 125

His His His His His His
 130

<210> 669

<211> 138

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 669

Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asp Asp Tyr
 20 25 30

Gly Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45

Ser Ala Ile Arg Trp Asn Gly Gly Ser Thr Asn Tyr Ala Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Leu Tyr
65 70 75 80

Leu Gln Met Asn Ser Leu Lys Ser Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Gln Gly Tyr Tyr Cys Ser Gly Tyr Gly Cys Pro Arg Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser Ala Ala Ala Tyr Pro Tyr Asp Val Pro
115 120 125

Asp Tyr Gly Ser His His His His His His
130 135

<210> 670

<211> 144

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 670

Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Leu Asp Tyr Tyr
20 25 30

Ala Ile Asn Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Glu Val
35 40 45

Ser Cys Ile Ser Ser Ser Asp Gly Ser Thr Tyr Tyr Ala Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr
65 70 75 80

Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Thr Ser Gly Trp Arg Leu Cys Arg Pro Thr Asp Glu Tyr Asp Tyr
100 105 110

Ser Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser Ala Ala Ala
115 120 125

Tyr Pro Tyr Asp Val Pro Asp Tyr Gly Ser His His His His His His
130 135 140

<210> 671
<211> 134
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 671

Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Val Val Gln Ala Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Thr Ala Ser Gly Thr Ile Phe Ser Ile Asn
20 25 30

Arg Met Asp Trp Phe Arg Gln Ala Pro Gly Lys Gln Arg Glu Leu Val
35 40 45

Ala Leu Ile Thr Ser Asp Gly Thr Pro Thr Tyr Ala Asp Ser Ala Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Thr Lys Lys Thr Val Ser Leu
65 70 75 80

Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys His
85 90 95

Val Ser Ser Gly Val Tyr Asn Tyr Trp Gly Gln Gly Thr Gln Val Thr
100 105 110

Val Ser Ser Ala Ala Ala Tyr Pro Tyr Asp Val Pro Asp Tyr Gly Ser
115 120 125

His His His His His His
130

<210> 672
<211> 140
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 672

Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Thr Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr
20 25 30

Gly Met Ser Trp Val Arg Gln Thr Pro Gly Lys Gly Pro Glu Trp Val
35 40 45

Ser Ala Ile Asp Ser Gly Gly Gly Ser Thr Ser Tyr Ala Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Leu Tyr
65 70 75 80

Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys

85

90

95

Ala Gln Gly Tyr Tyr Cys Ser Gly Tyr Gly Cys Ser Asp Tyr Trp Gly
 100 105 110

Gln Gly Thr Gln Val Thr Val Ser Ser Ala Ala Ala Tyr Pro Tyr Asp
 115 120 125

Val Pro Asp Tyr Gly Ser His His His His His His
 130 135 140

<210> 673

<211> 133

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 673

Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Lys Ile Phe Ser Gly Asn
 20 25 30

Asp Met Gly Trp Tyr Arg Gln Ala Pro Gly Lys Gln Arg Glu Leu Val
 35 40 45

Gly Ile Ile Thr Ser Gly Gly Ile Thr Asp Tyr Ala Asp Ala Val Lys
 50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Met Met Tyr Leu
 65 70 75 80

Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Asn
 85 90 95

Met Arg Asp Arg Thr Ile Trp Trp Gly Gln Gly Thr Gln Val Thr Val
100 105 110

Ser Ser Ala Ala Ala Tyr Pro Tyr Asp Val Pro Asp Tyr Gly Ser His
115 120 125

His His His His His
130

<210> 674
<211> 134
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 674

Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Ser Val Gln Ala Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Thr Ala Ser Gly Thr Ile Phe Ser Ile Asn
20 25 30

Arg Met Asp Trp Phe Arg Gln Ala Pro Gly Lys Gln Arg Glu Leu Val
35 40 45

Ala Leu Ile Thr Ser Asp Gly Thr Pro Thr Tyr Ala Asp Ser Ala Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Thr Lys Lys Thr Val Ser Leu
65 70 75 80

Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys His
85 90 95

Val Ser Ser Gly Val Tyr Asn Tyr Trp Gly Gln Gly Thr Gln Val Thr
100 105 110

Val Ser Ser Ala Ala Ala Tyr Pro Tyr Asp Val Pro Asp Tyr Gly Ser
115 120 125

His His His His His His
130

<210> 675
<211> 140
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 675

Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr
20 25 30

Gly Met Ser Trp Val Arg Gln Thr Pro Gly Lys Gly Pro Glu Trp Val
35 40 45

Ser Ala Ile Asp Ser Gly Gly Gly Ser Thr Ser Tyr Ala Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Thr Ser Arg Asp Asn Ala Lys Asn Thr Leu Tyr
65 70 75 80

Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Gln Gly Tyr Tyr Cys Ser Gly Tyr Gly Cys Ser Asp Tyr Trp Gly
100 105 110

Gln Gly Thr Gln Val Thr Val Ser Ser Ala Ala Ala Tyr Pro Tyr Asp
115 120 125

Val Pro Asp Tyr Gly Ser His His His His His His
130 135 140

<210> 676
<211> 138
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 676

Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asn Asp Tyr
20 25 30

Ala Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
35 40 45

Ser Gly Ile Arg Ser Asn Gly Gly Tyr Thr Asn Tyr Ala Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Leu Tyr
65 70 75 80

Leu Gln Met Asn Ser Leu Lys Ser Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Gln Gly Tyr Tyr Cys Ser Gly Tyr Gly Cys Tyr Pro Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser Ala Ala Ala Tyr Pro Tyr Asp Val Pro
115 120 125

Asp Tyr Gly Ser His His His His His His

130

135

<210> 677

<211> 142

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 677

Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Asn Leu Asp Pro Tyr
 20 25 30

Ala Ile Ala Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Glu Val
 35 40 45

Ser Cys Ile Ser Ser Ser Asp Val Gly Thr Tyr Tyr Ala Asp Ser Val
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Lys Thr Val Tyr
 65 70 75 80

Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

Ala Thr Asp Gly Tyr Tyr Tyr Cys Ser Asp Tyr Pro His Pro Leu Tyr
 100 105 110

Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser Ala Ala Ala Tyr Pro
 115 120 125

Tyr Asp Val Pro Asp Tyr Gly Ser His His His His His His
 130 135 140

<210> 678
<211> 142
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 678

Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Thr Ala Tyr
20 25 30

Ala Met Ser Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Glu Val
35 40 45

Ser Cys Ile Asn Ser Ser Asp Gly Ser Thr Tyr Tyr Ala Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr
65 70 75 80

Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr His Cys
85 90 95

Ala Thr Asp Gly Trp Arg Asp Cys Thr Trp Ser Asn Glu Tyr Ala Tyr
100 105 110

Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser Ala Ala Ala Tyr Pro
115 120 125

Tyr Asp Val Pro Asp Tyr Gly Ser His His His His His His
130 135 140

<210> 679
<211> 142
<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 679

Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asp Tyr Tyr
20 25 30

Ala Ile Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Glu Val
35 40 45

Ser Cys Ile Ser Gly Ser Asp Ser Ser Thr Tyr Tyr Ala Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Val Arg Asp Asn Ala Gln Asn Thr Val Tyr
65 70 75 80

Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Ile Tyr Tyr Cys
85 90 95

Ala Val Thr Gly Trp Arg Thr Cys Arg Gly Leu Asn Glu Tyr Asp Tyr
100 105 110

Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser Ala Ala Ala Tyr Pro
115 120 125

Tyr Asp Val Pro Asp Tyr Gly Ser His His His His His His
130 135 140

<210> 680

<211> 142

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 680

Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Asn Leu Asp Pro Tyr
20 25 30

Ala Ile Ala Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Glu Val
35 40 45

Ser Cys Ile Ser Ser Ser Asp Val Gly Thr Tyr Tyr Ala Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Thr Lys Lys Thr Val Tyr
65 70 75 80

Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Thr Asp Gly Tyr Tyr Tyr Cys Ser Asp Tyr Pro His Pro Leu Tyr
100 105 110

Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser Ala Ala Ala Tyr Pro
115 120 125

Tyr Asp Val Pro Asp Tyr Gly Ser His His His His His His
130 135 140

<210> 681

<211> 134

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 681

Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Glu
1 5 10 15

Ser Leu Arg Leu Ser Cys Thr Ala Ser Gly Thr Ile Phe Ser Ile Asn
20 25 30

Arg Met Asp Trp Phe Arg Gln Ala Pro Gly Lys Gln Arg Glu Leu Val
35 40 45

Ala Leu Ile Thr Ser Asp Gly Thr Pro Thr Tyr Ala Asp Ser Ala Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Thr Lys Lys Thr Val Ser Leu
65 70 75 80

Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys His
85 90 95

Val Ser Ser Gly Val Tyr Asn Tyr Trp Gly Gln Gly Thr Gln Val Thr
100 105 110

Val Ser Ser Ala Ala Ala Tyr Pro Tyr Asp Val Pro Asp Tyr Gly Ser
115 120 125

His His His His His His
130

<210> 682
<211> 134
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 682

Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Thr Ala Ser Gly Thr Ile Phe Ser Ile Asn
20 25 30

Arg Met Asp Trp Phe Arg Gln Ala Pro Gly Lys Gln Arg Glu Leu Val
35 40 45

Ala Leu Ile Thr Ser Asp Gly Thr Pro Ala Tyr Ala Asp Ser Ala Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Thr Lys Lys Thr Val Ser Leu
65 70 75 80

Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys His
85 90 95

Val Ser Ser Gly Val Tyr Asn Tyr Trp Gly Gln Gly Thr Gln Val Thr
100 105 110

Val Ser Ser Ala Ala Ala Tyr Pro Tyr Asp Val Pro Asp Tyr Gly Ser
115 120 125

His His His His His His
130

<210> 683
<211> 140
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 683

Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ser Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Lys Thr Ser Gly Phe Thr Phe Ser Ser Tyr

20

25

30

Gly Met Ser Trp Val Arg Gln Thr Pro Gly Lys Gly Pro Glu Trp Val
 35 40 45

Ser Ala Ile Asp Ser Gly Gly Gly Ser Thr Ser Tyr Ala Asp Ser Val
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Leu Tyr
 65 70 75 80

Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

Ala Gln Gly Tyr Tyr Cys Ser Gly Tyr Gly Cys Ser Asp Tyr Trp Gly
 100 105 110

Gln Gly Thr Gln Val Thr Val Ser Ser Ala Ala Ala Tyr Pro Tyr Asp
 115 120 125

Val Pro Asp Tyr Gly Ser His His His His His His
 130 135 140

<210> 684
 <211> 142
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic polymer.

<400> 684

Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Asn Leu Asp Pro Tyr
 20 25 30

Ala Ile Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Glu Val
35 40 45

Ser Cys Ile Ser Ser Gly Asp Gly Ser Lys Tyr Tyr Ala Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Met Ser Arg Asp Asn Ala Lys Lys Thr Val Tyr
65 70 75 80

Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Thr Asp Gly Tyr Tyr Tyr Cys Ser Asp Tyr Pro His Pro Leu Tyr
100 105 110

Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser Ala Ala Ala Tyr Pro
115 120 125

Tyr Asp Val Pro Asp Tyr Gly Ser His His His His His His
130 135 140

<210> 685
<211> 142
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 685

Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Val Ser Gly Phe Asn Leu Asp Pro Tyr
20 25 30

Ala Ile Ala Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Glu Val
35 40 45

Ser Cys Ile Ser Ser Ser Asp Val Gly Thr Tyr Tyr Ala Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Lys Thr Val Tyr
65 70 75 80

Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Thr Asp Gly Tyr Tyr Tyr Cys Ser Asp Tyr Pro His Pro Leu Tyr
100 105 110

Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser Ala Ala Ala Tyr Pro
115 120 125

Tyr Asp Val Pro Asp Tyr Gly Ser His His His His His His
130 135 140

<210> 686

<211> 139

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 686

Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Glu Ser Ile Phe Ser Ile Glu
20 25 30

Ala Met Gly Trp Tyr Arg Gln Ala Pro Gly Lys Gln Arg Glu Leu Val
35 40 45

Ala Ala Ile Phe Gly Gly Gly Phe Thr Asn Tyr Ala Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Asn Arg Thr Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Asn
85 90 95

Ala Asp Leu Val Ser Gly Ser Ser Arg Leu Tyr Asp Tyr Trp Gly Gln
100 105 110

Gly Thr Gln Val Thr Val Ser Ser Ala Ala Ala Tyr Pro Tyr Asp Val
115 120 125

Pro Asp Tyr Gly Ser His His His His His His
130 135

<210> 687

<211> 133

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 687

Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Lys Ile Phe Ser Gly Asn
20 25 30

Asp Met Gly Trp Tyr Arg Gln Ala Pro Gly Lys Gln Arg Glu Leu Val
35 40 45

Gly Ile Ile Thr Ser Gly Gly Ile Thr Asp Tyr Ala Asp Ala Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Met Met Tyr Leu

65		70		75		80
Gln Met Asn Ser	Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Asn					
	85		90		95	
Met Arg Asp Arg Thr Ile Trp Trp Gly Gln Gly Thr Gln Val Thr Val						
	100		105		110	
Ser Ser Ala Ala Ala Tyr Pro Tyr Asp Val Pro Asp Tyr Gly Ser His						
	115		120		125	
His His His His His						
	130					

<210> 688
 <211> 143
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic polymer.

<400> 688

Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly														
1		5				10						15		
Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Leu Asp Tyr Tyr														
	20					25					30			
Ala Ile Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Glu Val														
	35					40				45				
Ser Cys Ile Ser Ser Ser Asp Gly Ser Thr Tyr Tyr Ala Asp Ser Val														
	50					55				60				
Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Asn														
65				70				75					80	

Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Thr Asp Gly Trp Ser Ser Cys Arg His Gly Ile Asn Glu Tyr Leu
100 105 110

Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser Ala Ala Ala Tyr
115 120 125

Pro Tyr Asp Val Pro Asp Tyr Gly Ser His His His His His His
130 135 140

<210> 689

<211> 140

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 689

Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr
20 25 30

Gly Met Ser Trp Val Arg Gln Thr Pro Gly Lys Gly Pro Glu Trp Val
35 40 45

Ser Ala Ile Asp Ser Gly Gly Gly Ser Thr Ser Tyr Ala Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Leu Tyr
65 70 75 80

Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Gln Gly Tyr Tyr Cys Ser Gly Tyr Gly Cys Ser Asp Tyr Trp Gly
100 105 110

Gln Gly Thr Gln Val Thr Val Ser Ser Ala Ala Ala Tyr Pro Tyr Asp
115 120 125

Val Pro Asp Tyr Gly Ser His His His His His
130 135 140

<210> 690
<211> 134
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 690

Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Thr Ala Ser Gly Thr Ile Phe Ser Ile Asn
20 25 30

Arg Met Asp Trp Phe Arg Gln Ala Pro Gly Lys Gln Arg Glu Leu Val
35 40 45

Ala Leu Ile Thr Ser Asp Gly Thr Pro Thr Tyr Ala Asp Ser Ala Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Thr Lys Lys Thr Val Ser Leu
65 70 75 80

Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys His
85 90 95

Val Ser Ser Gly Val Tyr Asn Tyr Trp Gly Gln Gly Thr Gln Val Thr
100 105 110

Val Ser Ser Ala Ala Ala Tyr Pro Tyr Asp Val Pro Asp Tyr Gly Ser
115 120 125

His His His His His His
130

<210> 691
<211> 140
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 691

Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr
20 25 30

Gly Met Ser Trp Val Arg Gln Thr Pro Gly Lys Gly Pro Glu Trp Val
35 40 45

Ser Ala Ile Asp Ser Gly Gly Gly Ser Thr Ser Tyr Ala Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Leu Tyr
65 70 75 80

Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Gln Gly Tyr Tyr Cys Ser Gly Tyr Gly Cys Ser Asp Tyr Trp Gly
100 105 110

Gln Gly Thr Gln Val Thr Val Ser Ser Ala Ala Ala Tyr Pro Tyr Asp

115

120

125

Val Pro Asp Tyr Gly Ser His His His His His His
 130 135 140

<210> 692

<211> 142

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 692

Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Asn Leu Asp Pro Tyr
 20 25 30

Ala Ile Ala Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Glu Val
 35 40 45

Ser Cys Ile Ser Ser Ser Asp Val Gly Thr Tyr Tyr Ala Asp Ser Val
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Lys Thr Val Tyr
 65 70 75 80

Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

Ala Thr Asp Gly Tyr Tyr Tyr Cys Ser Asp Tyr Pro His Pro Leu Tyr
 100 105 110

Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser Ala Ala Ala Tyr Pro
 115 120 125

Tyr Asp Val Pro Asp Tyr Gly Ser His His His His His His
130 135 140

<210> 693
<211> 145
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<220>
<221> misc_feature
<222> (13)..(13)
<223> Xaa can be any naturally occurring amino acid

<400> 693

Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Xaa Ala Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Arg Thr Phe Ser Ile Ser
20 25 30

Ala Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val
35 40 45

Ala Ala Ile Thr Trp Ser Gly Gly Ser Thr Ser Tyr Thr Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Leu Tyr
65 70 75 80

Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Ile Tyr Tyr Cys
85 90 95

Ala Ala Met Gly Arg Thr Asn Tyr Gly Val Ile Tyr Asp Pro Asn Met
100 105 110

Tyr Asn Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser Ala Ala

115

120

125

Ala Tyr Pro Tyr Asp Val Pro Asp Tyr Gly Ser His His His His His
 130 135 140

His
 145

<210> 694
 <211> 144
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic polymer.

<400> 694

Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Leu Asp Tyr Tyr
 20 25 30

Ala Ile Asn Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Glu Val
 35 40 45

Ser Cys Ile Ser Ser Ser Asp Gly Ser Thr Tyr Tyr Ala Asp Ser Val
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr
 65 70 75 80

Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

Ala Thr Ser Gly Trp Arg Leu Cys Arg Pro Thr Asp Glu Tyr Asp Tyr
 100 105 110

Leu Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser Ala Ala Ala
 115 120 125

Tyr Pro Tyr Asp Val Pro Asp Tyr Gly Ser His His His His His His
 130 135 140

<210> 695
 <211> 140
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic polymer.

<400> 695

Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
 1 5 10 15

Ser Met Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr
 20 25 30

Gly Met Ser Trp Val Arg Gln Thr Pro Gly Lys Gly Pro Glu Trp Val
 35 40 45

Ser Ala Ile Asp Ser Gly Gly Gly Ser Thr Ser Tyr Ala Asp Ser Val
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Leu Tyr
 65 70 75 80

Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

Ala Gln Gly Tyr Tyr Cys Ser Gly Tyr Gly Cys Ser Asp Tyr Trp Gly
 100 105 110

Gln Gly Thr Gln Val Thr Val Ser Ser Ala Ala Ala Tyr Pro Tyr Asp
 115 120 125

Val Pro Asp Tyr Gly Ser His His His His His His
 130 135 140

<210> 696
 <211> 138
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic polymer.

<400> 696

Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Thr Val Gln Ala Gly Gly
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asn Asp Tyr
 20 25 30

Ala Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45

Ser Gly Ile Arg Ser Asn Gly Gly Tyr Thr Asn Tyr Ala Asp Ser Val
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Leu Tyr
 65 70 75 80

Leu Gln Met Asn Ser Leu Lys Ser Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

Ala Gln Gly Tyr Tyr Cys Ser Gly Tyr Gly Cys Tyr Pro Gly Gln Gly
 100 105 110

Thr Gln Val Thr Val Ser Ser Ala Ala Ala Tyr Pro Tyr Asp Val Pro
 115 120 125

Asp Tyr Gly Ser His His His His His His
 130 135

<210> 697
<211> 143
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 697

Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Thr
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Leu Asp Tyr Tyr
20 25 30

Ala Ile Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Glu Val
35 40 45

Ser Cys Ile Ser Ser Ser Asp Gly Ser Thr Tyr Tyr Ala Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Asn
65 70 75 80

Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Thr Asp Gly Trp Ser Ser Cys Arg His Gly Ile Asn Glu Tyr Leu
100 105 110

Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser Ala Ala Ala Tyr
115 120 125

Pro Tyr Asp Val Pro Asp Tyr Gly Ser His His His His His His
130 135 140

<210> 698

<211> 451
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 698

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Ile Lys Gln Asp Gly Ser
1 5 10 15

Glu Lys Tyr Tyr Gly Trp Phe Gly Glu Leu Ala Phe Asp Tyr Lys Asp
20 25 30

Tyr Phe Pro Glu Pro Val Thr Val Thr Tyr Ile Cys Asn Val Asn His
35 40 45

Lys Pro Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Asn Ser Thr Tyr
50 55 60

Arg Val Val Ser Val Leu Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu
65 70 75 80

Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Leu Val Gln Pro Gly Gly
85 90 95

Ser Leu Arg Leu Val Asp Ser Val Lys Gly Arg Phe Thr Ile Trp Gly
100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser Trp Asn Ser Gly Ala Leu Thr
115 120 125

Ser Gly Ser Asn Thr Lys Val Asp Lys Arg Val Glu Pro Glu Val Thr
130 135 140

Cys Val Val Val Asp Val Thr Val Leu His Gln Asp Trp Leu Asn Gly
145 150 155 160

Glu Met Thr Lys Asn Gln Val Ser Leu Thr Tyr Ser Lys Leu Thr Val
165 170 175

Asp Lys Ser Arg Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Arg
180 185 190

Asp Asn Ala Lys Asn Ser Leu Tyr Ser Ala Ser Thr Lys Gly Pro Ser
195 200 205

Val Phe Val His Thr Phe Pro Ala Val Leu Gln Ser Pro Lys Ser Cys
210 215 220

Asp Lys Thr His Thr Cys Ser His Glu Asp Pro Glu Val Lys Phe Asn
225 230 235 240

Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Cys Leu Val Lys Gly Phe
245 250 255

Tyr Pro Ser Asp Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Arg Tyr
260 265 270

Trp Met Ser Trp Val Arg Gln Ala Leu Gln Met Asn Ser Leu Arg Ala
275 280 285

Glu Asp Pro Leu Ala Pro Ser Ser Lys Ser Thr Ser Ser Gly Leu Tyr
290 295 300

Ser Leu Ser Ser Val Val Pro Pro Cys Pro Ala Pro Glu Phe Glu Gly
305 310 315 320

Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Leu Pro Ala Ser Ile
325 330 335

Glu Lys Thr Ile Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Val Met
340 345 350

His Glu Ala Leu His Asn His Tyr Pro Gly Lys Gly Leu Glu Trp Val

355

360

365

Ala Asn Thr Ala Val Tyr Tyr Cys Ala Arg Glu Gly Gly Gly Thr Ala
 370 375 380

Ala Leu Gly Cys Leu Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln
 385 390 395 400

Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Ala Lys Thr Lys Pro Arg
 405 410 415

Glu Glu Gln Tyr Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Pro Glu
 420 425 430

Asn Asn Tyr Lys Thr Thr Pro Pro Thr Gln Lys Ser Leu Ser Leu Ser
 435 440 445

Pro Gly Lys
 450

<210> 699

<211> 215

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 699

Glu Ile Val Leu Thr Gln Ser Pro Gly Thr Leu Ser Leu Ser Pro Gly
 1 5 10 15

Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Arg Val Ser Ser Ser
 20 25 30

Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu
 35 40 45

Ile Tyr Asp Ala Ser Ser Arg Ala Thr Gly Ile Pro Asp Arg Phe Ser
50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Arg Leu Glu
65 70 75 80

Pro Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Gly Ser Leu Pro
85 90 95

Trp Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg Thr Val Ala
100 105 110

Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu Lys Ser
115 120 125

Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro Arg Glu
130 135 140

Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly Asn Ser
145 150 155 160

Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr Ser Leu
165 170 175

Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys His Lys Val
180 185 190

Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro Val Thr Lys
195 200 205

Ser Phe Asn Arg Gly Glu Cys
210 215

<210> 700

<211> 118

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 700

Glu Val Lys Leu Gln Glu Ser Gly Pro Ser Leu Val Lys Pro Ser Gln
1 5 10 15

Thr Leu Ser Leu Thr Cys Ser Val Thr Gly Tyr Ser Ile Ile Ser Asp
20 25 30

Tyr Trp Asn Trp Ile Arg Lys Phe Pro Gly Asn Lys Leu Glu Tyr Leu
35 40 45

Gly Tyr Ile Ser Tyr Thr Gly Ser Thr Tyr Tyr Asn Pro Ser Leu Lys
50 55 60

Ser Arg Ile Ser Ile Thr Arg Asp Thr Ser Lys Asn Gln Tyr Tyr Leu
65 70 75 80

Gln Leu Asn Ser Val Thr Thr Glu Asp Thr Ala Thr Tyr Tyr Cys Ala
85 90 95

Arg Arg Gly Gly Trp Leu Leu Pro Phe Asp Tyr Trp Gly Gln Gly Thr
100 105 110

Thr Leu Thr Val Ser Ser
115

<210> 701

<211> 113

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 701

Asp Ile Val Met Thr Gln Ser Pro Ser Ser Leu Ala Val Ser Val Gly
1 5 10 15

Glu Lys Val Ser Met Gly Cys Lys Ser Ser Gln Ser Leu Leu Tyr Ser
20 25 30

Ser Asn Gln Lys Asn Ser Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln
35 40 45

Ser Pro Lys Leu Leu Ile Asp Trp Ala Ser Thr Arg Glu Ser Gly Val
50 55 60

Pro Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr
65 70 75 80

Ile Ser Ser Val Lys Ala Glu Asp Leu Ala Val Tyr Tyr Cys Gln Gln
85 90 95

Tyr Tyr Gly Tyr Pro Leu Thr Phe Gly Ala Gly Thr Lys Leu Glu Leu
100 105 110

Lys

<210> 702
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 702

Glu Val Lys Leu Gln Glu Ser Gly Pro Ser Leu Val Lys Pro Gly Ala
1 5 10 15

Ser Val Lys Leu Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr
20 25 30

Asp Ile Asn Trp Val Lys Gln Arg Pro Gly Gln Gly Leu Glu Trp Ile

35

40

45

Gly Trp Ile Phe Pro Arg Asp Asn Asn Thr Lys Tyr Asn Glu Asn Phe
 50 55 60

Lys Gly Lys Ala Thr Leu Thr Val Asp Thr Ser Ser Thr Thr Ala Tyr
 65 70 75 80

Met Glu Leu His Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr Phe Cys
 85 90 95

Thr Lys Glu Asn Trp Val Gly Asp Phe Asp Tyr Trp Gly Gln Gly Thr
 100 105 110

Thr Leu Thr Leu Ser Ser
 115

<210> 703

<211> 106

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 703

Asp Ile Val Met Thr Gln Ser Pro Ala Ile Met Ser Ala Ser Pro Gly
 1 5 10 15

Glu Lys Val Thr Met Thr Cys Ser Ala Ser Ser Ser Ile Arg Tyr Met
 20 25 30

His Trp Tyr Gln Gln Lys Pro Gly Thr Ser Pro Lys Arg Trp Ile Ser
 35 40 45

Asp Thr Ser Lys Leu Thr Ser Gly Val Pro Ala Arg Phe Ser Gly Ser
 50 55 60

Gly Ser Gly Thr Ser Tyr Ala Leu Thr Ile Ser Ser Met Glu Ala Glu
65 70 75 80

Asp Ala Ala Thr Tyr Tyr Cys His Gln Arg Ser Ser Tyr Pro Trp Thr
85 90 95

Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
100 105

<210> 704
<211> 114
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 704

Glu Val Gln Leu Gln Gln Ser Gly Pro Asp Leu Val Thr Pro Gly Ala
1 5 10 15

Ser Val Arg Ile Ser Cys Gln Ala Ser Gly Tyr Thr Phe Pro Asp Tyr
20 25 30

Tyr Met Asn Trp Val Lys Gln Ser His Gly Lys Ser Leu Glu Trp Ile
35 40 45

Gly Asp Ile Asp Pro Asn Tyr Gly Gly Thr Thr Tyr Asn Gln Lys Phe
50 55 60

Lys Gly Lys Ala Ile Leu Thr Val Asp Arg Ser Ser Ser Thr Ala Tyr
65 70 75 80

Met Glu Leu Arg Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr Tyr Cys
85 90 95

Ala Arg Gly Ala Leu Thr Asp Trp Gly Gln Gly Thr Ser Leu Thr Val
100 105 110

Ser Ser

<210> 705
<211> 106
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 705

Gln Ile Val Leu Ser Gln Ser Pro Ala Ile Leu Ser Ala Ser Pro Gly
1 5 10 15

Glu Lys Val Thr Met Thr Cys Arg Ala Ser Ser Ser Val Ser Tyr Ile
20 25 30

Tyr Trp Phe Gln Gln Lys Pro Gly Ser Ser Pro Lys Pro Trp Ile Tyr
35 40 45

Ala Thr Phe Asn Leu Ala Ser Gly Val Pro Ala Arg Phe Ser Gly Ser
50 55 60

Gly Ser Gly Thr Ser Tyr Ser Leu Thr Ile Ser Arg Val Glu Thr Glu
65 70 75 80

Asp Ala Ala Thr Tyr Tyr Cys Gln Gln Trp Ser Asn Asn Pro Leu Thr
85 90 95

Phe Gly Ala Gly Thr Lys Leu Glu Leu Lys
100 105

<210> 706
<211> 115
<212> PRT
<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 706

Glu Val Gln Leu Val Gln Ser Gly Pro Glu Leu Lys Lys Pro Gly Ala
1 5 10 15

Ser Val Lys Met Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr
20 25 30

Val Met His Trp Val Lys Gln Ala Pro Gly Gln Arg Leu Glu Trp Ile
35 40 45

Gly Tyr Val Asn Pro Phe Asn Asp Gly Thr Lys Tyr Asn Glu Met Phe
50 55 60

Lys Gly Arg Ala Thr Leu Thr Ser Asp Lys Ser Thr Ser Thr Ala Tyr
65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Ser Ala Val Tyr Tyr Cys
85 90 95

Ala Arg Gln Ala Trp Gly Tyr Pro Trp Gly Gln Gly Thr Leu Val Thr
100 105 110

Val Ser Ser
115

<210> 707

<211> 115

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 707

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
1 5 10 15

Ser Val Lys Met Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr
20 25 30

Val Met His Trp Val Lys Gln Ala Pro Gly Gln Arg Leu Glu Trp Ile
35 40 45

Gly Tyr Val Asn Pro Phe Asn Asp Gly Thr Lys Tyr Asn Glu Met Phe
50 55 60

Lys Gly Arg Ala Thr Leu Thr Ser Asp Lys Ser Thr Ser Thr Ala Tyr
65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Arg Gln Ala Trp Gly Tyr Pro Trp Gly Gln Gly Thr Leu Val Thr
100 105 110

Val Ser Ser
115

<210> 708
<211> 115
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 708

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
1 5 10 15

Ser Val Lys Met Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr
20 25 30

Val Met His Trp Val Arg Gln Ala Pro Gly Gln Arg Leu Glu Trp Ile
35 40 45

Gly Tyr Val Asn Pro Phe Asn Asp Gly Thr Lys Tyr Asn Glu Met Phe
50 55 60

Lys Gly Arg Ala Thr Leu Thr Ser Asp Lys Ser Thr Ser Thr Ala Tyr
65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Arg Gln Ala Trp Gly Tyr Pro Trp Gly Gln Gly Thr Leu Val Thr
100 105 110

Val Ser Ser
115

<210> 709

<211> 115

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 709

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr
20 25 30

Val Met His Trp Val Arg Gln Ala Pro Gly Gln Arg Leu Glu Trp Ile
35 40 45

Gly Tyr Val Asn Pro Phe Asn Asp Gly Thr Lys Tyr Asn Glu Met Phe
50 55 60

Lys Gly Arg Ala Thr Leu Thr Ser Asp Lys Ser Thr Ser Thr Ala Tyr

Ala Arg Gln Ala Trp Gly Tyr Pro Trp Gly Gln Gly Thr Leu Val Thr
100 105 110

Val Ser Ser
115

<210> 711
<211> 111
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 711

Asp Ile Val Leu Thr Gln Ser Pro Ala Ser Leu Ala Leu Ser Pro Gly
1 5 10 15

Glu Arg Ala Thr Leu Ser Cys Arg Ala Thr Glu Ser Val Glu Tyr Tyr
20 25 30

Gly Thr Ser Leu Val Gln Trp Tyr Gln Gln Lys Pro Gly Gln Pro Pro
35 40 45

Lys Leu Leu Ile Tyr Ala Ala Ser Ser Val Asp Ser Gly Val Pro Ser
50 55 60

Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Asn
65 70 75 80

Ser Leu Glu Glu Glu Asp Ala Ala Met Tyr Phe Cys Gln Gln Ser Arg
85 90 95

Arg Val Pro Tyr Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
100 105 110

<210> 712
<211> 111
<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 712

Asp 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 Thr Glu Ser Val Glu Tyr Tyr
20 25 30

Gly Thr Ser Leu Val Gln Trp Tyr Gln Gln Lys Pro Gly Gln Pro Pro
35 40 45

Lys Leu Leu Ile Tyr Ala Ala Ser Ser Val Asp Ser Gly Val Pro Ser
50 55 60

Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Asn
65 70 75 80

Ser Leu Glu Ala Glu Asp Ala Ala Met Tyr Phe Cys Gln Gln Ser Arg
85 90 95

Arg Val Pro Tyr Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
100 105 110

<210> 713

<211> 111

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 713

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 Thr Glu Ser Val Glu Tyr Tyr
20 25 30

Gly Thr Ser Leu Val Gln Trp Tyr Gln Gln Lys Pro Gly Gln Pro Pro
35 40 45

Lys Leu Leu Ile Tyr Ala Ala Ser Ser Val Asp Ser Gly Val Pro Ser
50 55 60

Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Asn
65 70 75 80

Ser Leu Glu Ala Glu Asp Ala Ala Met Tyr Phe Cys Gln Gln Ser Arg
85 90 95

Arg Val Pro Tyr Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
100 105 110

<210> 714
<211> 111
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 714

Asp 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 Thr Glu Ser Val Glu Tyr Tyr
20 25 30

Gly Thr Ser Leu Val Gln Trp Tyr Gln Gln Lys Pro Gly Gln Pro Pro
35 40 45

Lys Leu Leu Ile Tyr Ala Ala Ser Ser Val Asp Ser Gly Val Pro Ser
50 55 60

Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Asn
65 70 75 80

Ser Leu Glu Ala Glu Asp Ala Ala Thr Tyr Phe Cys Gln Gln Ser Arg
85 90 95

Arg Val Pro Tyr Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
100 105 110

<210> 715
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 715

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Lys Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Thr Tyr
20 25 30

Ser Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
35 40 45

Ser Ser Ile Ser Ser Ser Gly Asp Tyr Ile Tyr Tyr Ala Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Phe
65 70 75 80

Leu Gln Met Asn Ser Leu Lys Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Arg Asp Leu Val Thr Ser Met Val Ala Phe Asp Tyr Trp Gly Gln
100 105 110

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 716
<211> 108
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 716

Ser Tyr Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln
1 5 10 15

Ala Ala Arg Ile Thr Cys Ser Gly Asp Ala Leu Pro Gln Lys Tyr Val
20 25 30

Phe Trp Tyr Gln Gln Lys Ser Gly Gln Ala Pro Val Leu Val Ile Tyr
35 40 45

Glu Asp Ser Lys Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser
50 55 60

Ser Ser Gly Thr Met Ala Thr Leu Thr Ile Ser Gly Ala Gln Val Glu
65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Tyr Ser Thr Asp Arg Ser Gly Asn His
85 90 95

Arg Val Phe Gly Gly Gly Thr Arg Leu Thr Val Leu
100 105

<210> 717
<211> 120
<212> PRT
<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 717

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr
20 25 30

Trp Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
35 40 45

Ala Asn Ile Lys Gln Asp Gly Gly Glu Gln Tyr Tyr Val Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Arg Asp Trp Asn Tyr Gly Tyr Tyr Asp Met Asp Val Trp Gly Gln
100 105 110

Gly Thr Thr Val Thr Val Ser Ser
115 120

<210> 718

<211> 108

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 718

Glu Ile Val Leu Thr Gln Ser Pro Gly Thr Leu Ser Leu Ser Pro Gly
1 5 10 15

Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Ser Ser Asn
20 25 30

Tyr Leu Ala Trp Phe Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu
35 40 45

Ile Phe Gly Thr Ser Ser Arg Ala Thr Gly Ile Pro Asp Arg Phe Ser
50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Arg Leu Glu
65 70 75 80

Pro Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Gly Ser Ser Ile
85 90 95

Phe Thr Phe Gly Pro Gly Thr Lys Val Asp Ile Lys
100 105

<210> 719
<211> 121
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 719

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Arg Tyr
20 25 30

Trp Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
35 40 45

Ala Asn Ile Lys Gln Asp Gly Ser Glu Lys Tyr Tyr Val Asp Ser Val

50

55

60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr
 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

Ala Arg Glu Gly Gly Trp Phe Gly Glu Leu Ala Phe Asp Tyr Trp Gly
 100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 720

<211> 108

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 720

Glu Ile Val Leu Thr Gln Ser Pro Gly Thr Leu Ser Leu Ser Pro Gly
 1 5 10 15

Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Arg Val Ser Ser Ser
 20 25 30

Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu
 35 40 45

Ile Tyr Asp Ala Ser Ser Arg Ala Thr Gly Ile Pro Asp Arg Phe Ser
 50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Arg Leu Glu
 65 70 75 80

Pro Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Gly Ser Leu Pro
85 90 95

Trp Thr Phe Gly Gln Gly Thr Glu Val Glu Ile Lys
100 105

<210> 721
<211> 121
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 721

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Asn Tyr
20 25 30

Ala Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
35 40 45

Ser Ala Ile Arg Gly Ser Gly Gly Ser Thr Tyr Tyr Ala Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Lys Asp Leu His Tyr Asp Ser Ser Gly Tyr Leu Asp Tyr Trp Gly
100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 722
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 722

Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Val Ser Ala Ser Val Gly
1 5 10 15

Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Gly Ile Arg Ser Trp
20 25 30

Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile
35 40 45

Tyr Ala Ile Ser Arg Leu Gln Ser Gly Val Pro Ser Arg Phe Ser Gly
50 55 60

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
65 70 75 80

Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ala Asn Ser Phe Pro Leu
85 90 95

Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
100 105

<210> 723
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 723

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr
20 25 30

Trp Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
35 40 45

Ala Asn Ile Lys Gln Asp Gly Gly Glu Lys Tyr Tyr Val Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser 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 Val Gln Leu Tyr Ser Asp Tyr Phe Asp Tyr Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ser
115

<210> 724

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 724

Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Val Ser Ala Ser Val Gly
1 5 10 15

Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Gly Ile Ser Ser Trp
20 25 30

Leu Ala Trp Tyr Gln Gln Lys Ser Gly Lys Ala Pro Lys Leu Leu Ile
35 40 45

Tyr Ala Ala Ser Gly Leu Gln Ser Gly Val Pro Ser Arg Phe Ser Gly
50 55 60

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
65 70 75 80

Glu Asp Leu Ala Thr Tyr Tyr Cys Gln Gln Ser His Ser Leu Pro Pro
85 90 95

Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
100 105

<210> 725

<211> 121

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 725

Glu Val Gln Leu Leu Glu Ser Gly Gly Asp Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asn Ser Tyr
20 25 30

Ala Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
35 40 45

Ser Thr Ile Ser Gly Ser Gly Gly Phe Thr Phe Ser Ala 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 Val Glu Asp Ser Ala Val Tyr Ser Cys
85 90 95

Ala Lys Val Leu Val Gly Phe Asn Asn Gly Cys Trp Asp Tyr Trp Gly
100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 726

<211> 108

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 726

Ser Tyr Val Leu Thr Gln Pro Pro Ser Val Ser Val Ala Pro Gly Gln
1 5 10 15

Thr Ala Arg Ile Thr Cys Gly Gly Asn Asn Ile Gly Ser Lys Ser Val
20 25 30

His Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Val Tyr
35 40 45

Asp Asp Ser Asp Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser
50 55 60

Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Arg Val Glu Ala Gly
65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Gln Val Trp Asp Ser Ser Asn Asp His
85 90 95

Val Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu

100

105

<210> 727
 <211> 120
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic polymer.

<400> 727

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Lys Pro Gly Gly
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Thr Tyr
 20 25 30

Ser Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45

Ser Ser Ile Ser Ser Ser Gly Asp Tyr Ile Tyr Tyr Ala Asp Ser Val
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr
 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

Ala Arg Asp Leu Val Thr Ser Met Val Ala Phe Asp Tyr Trp Gly Gln
 100 105 110

Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 728
 <211> 108
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 728

Ser Tyr Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln
1 5 10 15

Thr Ala Arg Ile Thr Cys Ser Gly Asp Ala Leu Pro Gln Lys Tyr Val
20 25 30

Phe Trp Tyr Gln Gln Lys Ser Gly Gln Ala Pro Val Leu Val Ile Tyr
35 40 45

Glu Asp Ser Lys Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser
50 55 60

Ser Ser Gly Thr Met Ala Thr Leu Thr Ile Ser Gly Ala Gln Val Glu
65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Tyr Ser Thr Asp Arg Ser Gly Asn His
85 90 95

Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
100 105

<210> 729

<211> 121

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 729

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Arg Tyr

20

25

30

Trp Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45

Ala Asn Ile Lys Gln Asp Gly Ser Glu Lys Tyr Tyr Val Asp Ser Val
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr
 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

Ala Arg Glu Gly Gly Trp Phe Gly Glu Leu Ala Phe Asp Tyr Trp Gly
 100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 730

<211> 108

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 730

Glu Ile Val Leu Thr Gln Ser Pro Gly Thr Leu Ser Leu Ser Pro Gly
 1 5 10 15

Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Arg Val Ser Ser Ser
 20 25 30

Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu
 35 40 45

Ile Tyr Asp Ala Ser Ser Arg Ala Thr Gly Ile Pro Asp Arg Phe Ser
50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Arg Leu Glu
65 70 75 80

Pro Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Gly Ser Leu Pro
85 90 95

Trp Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
100 105

<210> 731
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 731

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr
20 25 30

Trp Met Tyr Trp Val Arg Gln Ala Thr Gly Gln Gly Leu Glu Trp Met
35 40 45

Gly Arg Ile Asp Pro Asn Ser Gly Ser Thr Lys Tyr Asn Glu Lys Phe
50 55 60

Lys Asn Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr Ala Tyr
65 70 75 80

Leu Gln Met Asn Ser Leu Lys Thr Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Arg Asp Tyr Arg Lys Gly Leu Tyr Ala Met Asp Tyr Trp Gly Gln
100 105 110

Gly Thr Thr Val Thr Val Ser Ser
115 120

<210> 732
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 732

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
1 5 10 15

Thr Val Lys Ile Ser Cys Lys Val Ser Gly Tyr Thr Phe Thr Ser Tyr
20 25 30

Trp Met Tyr Trp Val Arg Gln Ala Thr Gly Gln Gly Leu Glu Trp Met
35 40 45

Gly Arg Ile Asp Pro Asn Ser Gly Ser Thr Lys Tyr Asn Glu Lys Phe
50 55 60

Lys Asn Arg Val Thr Ile Thr Ala Asp Lys Ser Thr Ser Thr Ala Tyr
65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Arg Asp Tyr Arg Lys Gly Leu Tyr Ala Met Asp Tyr Trp Gly Gln
100 105 110

Gly Thr Thr Val Thr Val Ser Ser
115 120

<210> 733
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 733

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Glu
1 5 10 15

Ser Leu Arg Ile Ser Cys Lys Gly Ser Gly Tyr Thr Phe Thr Ser Tyr
20 25 30

Trp Met Tyr Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
35 40 45

Gly Arg Ile Asp Pro Asn Ser Gly Ser Thr Lys Tyr Asn Glu Lys Phe
50 55 60

Lys Asn Arg Val Thr Ile Ser Val Asp Thr Ser Lys Asn Gln Phe Ser
65 70 75 80

Leu Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Arg Asp Tyr Arg Lys Gly Leu Tyr Ala Met Asp Tyr Trp Gly Gln
100 105 110

Gly Thr Thr Val Thr Val Ser Ser
115 120

<210> 734
<211> 120
<212> PRT
<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 734

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
1 5 10 15

Thr Val Lys Ile Ser Cys Lys Val Ser Gly Tyr Thr Phe Thr Ser Tyr
20 25 30

Trp Met Tyr Trp Ile Arg Gln Ser Pro Ser Arg Gly Leu Glu Trp Leu
35 40 45

Gly Arg Ile Asp Pro Asn Ser Gly Ser Thr Lys Tyr Asn Glu Lys Phe
50 55 60

Lys Asn Arg Leu Thr Ile Ser Lys Asp Thr Ser Lys Asn Gln Val Val
65 70 75 80

Leu Thr Met Thr Asn Met Asp Pro Val Asp Thr Ala Thr Tyr Tyr Cys
85 90 95

Ala Arg Asp Tyr Arg Lys Gly Leu Tyr Ala Met Asp Tyr Trp Gly Gln
100 105 110

Gly Thr Thr Val Thr Val Ser Ser
115 120

<210> 735

<211> 120

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 735

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Glu
1 5 10 15

Ser Leu Arg Ile Ser Cys Lys Gly Ser Gly Tyr Thr Phe Thr Ser Tyr
20 25 30

Trp Met Tyr Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu Glu Trp Ile
35 40 45

Gly Arg Ile Asp Pro Asn Ser Gly Ser Thr Lys Tyr Asn Glu Lys Phe
50 55 60

Lys Asn Arg Val Thr Ile Thr Ala Asp Lys Ser Thr Ser Thr Ala Tyr
65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Arg Asp Tyr Arg Lys Gly Leu Tyr Ala Met Asp Tyr Trp Gly Gln
100 105 110

Gly Thr Thr Val Thr Val Ser Ser
115 120

<210> 736
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 736

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr
20 25 30

Trp Met Tyr Trp Ile Arg Gln Ser Pro Ser Arg Gly Leu Glu Trp Leu

35

40

45

Gly Arg Ile Asp Pro Asn Ser Gly Ser Thr Lys Tyr Asn Glu Lys Phe
 50 55 60

Lys Asn Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr Ala Tyr
 65 70 75 80

Leu Gln Met Asn Ser Leu Lys Thr Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

Ala Arg Asp Tyr Arg Lys Gly Leu Tyr Ala Met Asp Tyr Trp Gly Gln
 100 105 110

Gly Thr Thr Val Thr Val Ser Ser
 115 120

<210> 737

<211> 120

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 737

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Glu
 1 5 10 15

Ser Leu Arg Ile Ser Cys Lys Gly Ser Gly Tyr Thr Phe Thr Ser Tyr
 20 25 30

Trp Met Tyr Trp Val Arg Gln Ala Arg Gly Gln Arg Leu Glu Trp Ile
 35 40 45

Gly Arg Ile Asp Pro Asn Ser Gly Ser Thr Lys Tyr Asn Glu Lys Phe
 50 55 60

Lys Asn Arg Leu Thr Ile Ser Lys Asp Thr Ser Lys Asn Gln Val Val
65 70 75 80

Leu Thr Met Thr Asn Met Asp Pro Val Asp Thr Ala Thr Tyr Tyr Cys
85 90 95

Ala Arg Asp Tyr Arg Lys Gly Leu Tyr Ala Met Asp Tyr Trp Gly Gln
100 105 110

Gly Thr Thr Val Thr Val Ser Ser
115 120

<210> 738
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 738

Gln Ile Thr Leu Lys Glu Ser Gly Pro Thr Leu Val Lys Pro Thr Gln
1 5 10 15

Thr Leu Thr Leu Thr Cys Thr Phe Ser Gly Tyr Thr Phe Thr Ser Tyr
20 25 30

Trp Met Tyr Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
35 40 45

Ser Arg Ile Asp Pro Asn Ser Gly Ser Thr Lys Tyr Asn Glu Lys Phe
50 55 60

Lys Asn Arg Val Thr Ile Thr Ala Asp Lys Ser Thr Ser Thr Ala Tyr
65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Arg Asp Tyr Arg Lys Gly Leu Tyr Ala Met Asp Tyr Trp Gly Gln
100 105 110

Gly Thr Thr Val Thr Val Ser Ser
115 120

<210> 739
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 739

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
1 5 10 15

Thr Val Lys Ile Ser Cys Lys Val Ser Gly Tyr Thr Phe Thr Ser Tyr
20 25 30

Trp Met Tyr Trp Val Arg Gln Ala Arg Gly Gln Arg Leu Glu Trp Ile
35 40 45

Gly Arg Ile Asp Pro Asn Ser Gly Ser Thr Lys Tyr Asn Glu Lys Phe
50 55 60

Lys Asn Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Arg Asp Tyr Arg Lys Gly Leu Tyr Ala Met Asp Tyr Trp Gly Gln
100 105 110

Gly Thr Thr Val Thr Val Ser Ser
115 120

<210> 740
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 740

Asp Ile Val Met Thr Gln Thr Pro Leu Ser Leu Pro Val Thr Pro Gly
1 5 10 15

Glu Pro Ala Ser Ile Ser Cys Lys Ala Ser Gln Asp Val Gly Thr Ala
20 25 30

Val Ala Trp Tyr Leu Gln Lys Pro Gly Gln Ser Pro Gln Leu Leu Ile
35 40 45

Tyr Trp Ala Ser Thr Arg His Thr Gly Ile Pro Ala Arg Phe Ser Gly
50 55 60

Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln Ser
65 70 75 80

Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Asn Ser Tyr Pro Leu
85 90 95

Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
100 105

<210> 741
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 741

Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
 1 5 10 15

Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Asp Val Gly Thr Ala
 20 25 30

Val Ala Trp Tyr Leu Gln Lys Pro Gly Gln Ser Pro Gln Leu Leu Ile
 35 40 45

Tyr Trp Ala Ser Thr Arg His Thr Gly Val Pro Ser Arg Phe Ser Gly
 50 55 60

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
 65 70 75 80

Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Tyr Asn Ser Tyr Pro Leu
 85 90 95

Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105

<210> 742

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 742

Glu Ile Val Leu Thr Gln Ser Pro Asp Phe Gln Ser Val Thr Pro Lys
 1 5 10 15

Glu Lys Val Thr Ile Thr Cys Lys Ala Ser Gln Asp Val Gly Thr Ala
 20 25 30

Val Ala Trp Tyr Leu Gln Lys Pro Gly Gln Ser Pro Gln Leu Leu Ile
 35 40 45

Tyr Trp Ala Ser Thr Arg His Thr Gly Val Pro Asp Arg Phe Ser Gly
50 55 60

Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile Ser Arg Val Glu Ala
65 70 75 80

Glu Asp Val Gly Val Tyr Tyr Cys Gln Gln Tyr Asn Ser Tyr Pro Leu
85 90 95

Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
100 105

<210> 743
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 743

Glu Ile Val Leu Thr Gln Ser Pro Asp Phe Gln Ser Val Thr Pro Lys
1 5 10 15

Glu Lys Val Thr Ile Thr Cys Lys Ala Ser Gln Asp Val Gly Thr Ala
20 25 30

Val Ala Trp Tyr Leu Gln Lys Pro Gly Gln Ser Pro Gln Leu Leu Ile
35 40 45

Tyr Trp Ala Ser Thr Arg His Thr Gly Val Pro Ser Arg Phe Ser Gly
50 55 60

Ser Gly Ser Gly Thr Asp Phe Thr Phe Thr Ile Ser Ser Leu Gln Pro
65 70 75 80

Glu Asp Ile Ala Thr Tyr Tyr Cys Gln Gln Tyr Asn Ser Tyr Pro Leu

85

90

95

Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105

<210> 744

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 744

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 Lys Ala Ser Gln Asp Val Gly Thr Ala
 20 25 30

Val Ala Trp Tyr Leu Gln Lys Pro Gly Gln Ser Pro Gln Leu Leu Ile
 35 40 45

Tyr Trp Ala Ser Thr Arg His Thr Gly Ile Pro Pro Arg Phe Ser Gly
 50 55 60

Ser Gly Tyr Gly Thr Asp Phe Thr Leu Thr Ile Asn Asn Ile Glu Ser
 65 70 75 80

Glu Asp Ala Ala Tyr Tyr Phe Cys Gln Gln Tyr Asn Ser Tyr Pro Leu
 85 90 95

Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105

<210> 745

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 745

Asp Val Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Leu Gly
1 5 10 15

Gln Pro Ala Ser Ile Ser Cys Lys Ala Ser Gln Asp Val Gly Thr Ala
20 25 30

Val Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile
35 40 45

Tyr Trp Ala Ser Thr Arg His Thr 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

Asp Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Tyr Asn Ser Tyr Pro Leu
85 90 95

Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
100 105

<210> 746

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 746

Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
1 5 10 15

Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Asp Val Gly Thr Ala

20

25

30

Val Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile
 35 40 45

Tyr Trp Ala Ser Thr Arg His Thr Gly Val Pro Ser Arg Phe Ser Gly
 50 55 60

Ser Gly Ser Gly Thr Asp Phe Thr Phe Thr Ile Ser Ser Leu Gln Pro
 65 70 75 80

Glu Asp Ile Ala Thr Tyr Tyr Cys Gln Gln Tyr Asn Ser Tyr Pro Leu
 85 90 95

Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105

<210> 747

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 747

Ala Ile Gln Leu Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
 1 5 10 15

Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Asp Val Gly Thr Ala
 20 25 30

Val Ala Trp Tyr Leu Gln Lys Pro Gly Gln Ser Pro Gln Leu Leu Ile
 35 40 45

Tyr Trp Ala Ser Thr Arg His Thr Gly Val Pro Ser Arg Phe Ser Gly
 50 55 60

Ser Gly Ser Gly Thr Asp Phe Thr Phe Thr Ile Ser Ser Leu Glu Ala
65 70 75 80

Glu Asp Ala Ala Thr Tyr Tyr Cys Gln Gln Tyr Asn Ser Tyr Pro Leu
85 90 95

Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
100 105

<210> 748
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 748

Glu Ile Val Leu Thr Gln Ser Pro Asp Phe Gln Ser Val Thr Pro Lys
1 5 10 15

Glu Lys Val Thr Ile Thr Cys Lys Ala Ser Gln Asp Val Gly Thr Ala
20 25 30

Val Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile
35 40 45

Tyr Trp Ala Ser Thr Arg His Thr 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

Asp Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Tyr Asn Ser Tyr Pro Leu
85 90 95

Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
100 105

<210> 749
<211> 116
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 749

Glu Val Lys Leu Val Glu Ser Gly Gly Gly Leu Val Lys Pro Gly Gly
1 5 10 15

Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Ile Phe Arg Ser Tyr
20 25 30

Gly Met Ser Trp Val Arg Gln Thr Pro Glu Lys Arg Leu Glu Trp Val
35 40 45

Ala Ser Ile Ser Ser Gly Gly Ser Thr Tyr Tyr Pro Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Arg Asn Ile Leu Tyr Leu
65 70 75 80

Gln Met Ser Ser Leu Arg Ser Glu Asp Thr Ala Met Tyr Asp Cys Ala
85 90 95

Arg Gly Tyr Asp Ser Gly Phe Ala Tyr Trp Gly Gln Gly Thr Leu Val
100 105 110

Thr Val Ser Glu
115

<210> 750
<211> 116
<212> PRT
<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 750

Glu Val Lys Leu Val Glu Ser Gly Gly Gly Leu Val Lys Pro Gly Gly
1 5 10 15

Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Arg Ser Tyr
20 25 30

Gly Met Ser Trp Val Arg Gln Thr Pro Glu Lys Arg Leu Glu Trp Val
35 40 45

Ala Ser Ile Ser Ser Gly Gly Thr Thr Tyr Tyr Pro Asp Ser Val Lys
50 55 60

Gly Arg Phe Ile Ile Ser Arg Asp Asn Ala Arg Asn Ile Leu Tyr Leu
65 70 75 80

Gln Met Ser Ser Leu Arg Ser Glu Asp Thr Ala Met Tyr Tyr Cys Ala
85 90 95

Lys Gly Tyr Asp Ser Gly Phe Ala Tyr Trp Gly Gln Gly Thr Leu Val
100 105 110

Ile Val Ser Ala
115

<210> 751

<211> 116

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 751

Gln Val Gln Leu Lys Gln Ser Gly Pro Gly Leu Val Gln Pro Ser Gln
1 5 10 15

Ser Leu Ser Ile Thr Cys Thr Val Ser Gly Phe Ser Leu Thr Thr Tyr
20 25 30

Gly Val His Trp Val Arg Gln Ser Pro Gly Lys Gly Leu Glu Trp Leu
35 40 45

Gly Val Ile Trp Arg Gly Val Thr Thr Asp Tyr Asn Ala Ala Phe Met
50 55 60

Ser Arg Leu Thr Ile Thr Lys Asp Asn Ser Lys Ser Gln Val Phe Phe
65 70 75 80

Lys Met Asn Ser Leu Gln Ala Asn Asp Thr Ala Ile Tyr Tyr Cys Ala
85 90 95

Arg Leu Gly Phe Tyr Ala Met Asp Tyr Trp Gly Gln Gly Thr Ser Val
100 105 110

Thr Val Ser Ser
115

<210> 752
<211> 116
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 752

Gln Val Gln Leu Lys Gln Ser Gly Pro Gly Leu Val Gln Pro Ser Gln
1 5 10 15

Ser Leu Ser Ile Thr Cys Thr Val Ser Gly Phe Ser Leu Thr Ser Tyr
20 25 30

Gly Val His Trp Val Arg Gln Ser Pro Gly Lys Gly Leu Glu Trp Leu
35 40 45

Gly Val Ile Trp Ser Gly Gly Val Thr Asp Tyr Asn Ala Ala Phe Ile
50 55 60

Ser Arg Leu Ser Ile Ser Lys Asp Asn Ser Lys Ser Gln Val Phe Phe
65 70 75 80

Lys Met Asn Ser Leu Gln Ala Asn Asp Thr Ala Ile Tyr Tyr Cys Ala
85 90 95

Arg Leu Gly Phe Tyr Ala Met Asp Tyr Trp Gly Gln Gly Thr Ser Val
100 105 110

Thr Val Ser Ser
115

<210> 753
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 753

Glu Val Lys Leu Phe Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Lys Leu Ser Cys Val Ala Ser Gly Phe Asp Phe Ser Thr Tyr
20 25 30

Trp Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Ile
35 40 45

Gly Gln Ile Asn Pro Asp Ser Thr Thr Ile Asn Tyr Ala Pro Ser Leu
50 55 60

Lys Asp Arg Phe Ile Ile Ser Arg Asp Asn Ala Lys Asn Thr Leu Phe

65		70		75		80									
Leu	Gln	Met	Ser	Lys	Val	Arg	Ser	Glu	Asp	Thr	Ala	Leu	Tyr	Tyr	Cys
				85					90					95	
Ala	Lys	Pro	Gly	Asp	Tyr	Gly	Tyr	Asp	Phe	Asp	Cys	Trp	Gly	Gln	Gly
			100					105					110		
Thr	Thr	Leu	Thr	Val	Ser	Ser									
		115													
<210> 754															
<211> 119															
<212> PRT															
<213> Artificial Sequence															
<220>															
<223> Synthetic polymer.															
<400> 754															
Glu	Val	Gln	Leu	Gln	Glu	Ser	Gly	Pro	Ser	Leu	Val	Lys	Pro	Ser	Gln
1				5					10					15	
Thr	Leu	Ser	Leu	Thr	Cys	Ser	Val	Thr	Gly	Asp	Ser	Ile	Thr	Ser	Gly
			20					25					30		
Tyr	Trp	Asn	Trp	Ile	Arg	Lys	Phe	Pro	Gly	Asn	Lys	Leu	Glu	Tyr	Met
		35					40					45			
Gly	Tyr	Ile	Ser	Tyr	Ser	Gly	Ser	Thr	Tyr	Tyr	Asn	Pro	Ser	Leu	Lys
	50					55					60				
Ser	Arg	Ile	Ser	Ile	Thr	Arg	Asp	Thr	Ser	Lys	Asn	Gln	Tyr	Tyr	Leu
65					70					75					80
Gln	Leu	Asn	Ser	Val	Thr	Thr	Glu	Asp	Thr	Ala	Thr	Tyr	Tyr	Cys	Ala
				85					90					95	

Arg Ser Leu Leu Trp Phe Ser Thr Gly Phe Ala Tyr Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ala
115

<210> 755

<211> 116

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 755

Gln Val Gln Leu Lys Gln Ser Gly Pro Gly Leu Val Gln Pro Ser Gln
1 5 10 15

Ser Leu Ser Ile Thr Cys Thr Val Ser Gly Phe Ser Leu Thr Ser Tyr
20 25 30

Gly Val His Trp Val Arg Gln Ser Pro Gly Lys Gly Leu Glu Trp Leu
35 40 45

Gly Val Ile Trp Ser Gly Gly Ile Thr Asp Tyr Asn Ala Ala Phe Lys
50 55 60

Ser Arg Leu Ser Ile Ser Lys Asp Asn Ser Lys Ser Gln Val Phe Phe
65 70 75 80

Lys Met Asn Ser Leu Gln Ala Asn Asp Thr Ala Ile Tyr Phe Cys Ala
85 90 95

Arg Leu Gly Phe Tyr Ala Met Asp Tyr Trp Gly Gln Gly Thr Ser Val
100 105 110

Thr Val Ser Ser
115

<210> 756
<211> 116
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 756

Glu Val Lys Leu Val Glu Ser Gly Gly Gly Leu Val Lys Pro Gly Gly
1 5 10 15

Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Arg Ser Tyr
20 25 30

Gly Met Ser Trp Ala Arg Gln Ile Pro Glu Lys Arg Leu Glu Trp Val
35 40 45

Ala Ser Ile Ser Ser Gly Gly Thr Thr Tyr Tyr Leu Gly Ser Val Gln
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Arg Asn Ile Leu Tyr Leu
65 70 75 80

Gln Met Ser Ser Leu Arg Ser Glu Asp Thr Ala Met Tyr Tyr Cys Ala
85 90 95

Arg Gly Tyr Asp Ala Gly Phe Ala Tyr Trp Gly Gln Gly Thr Leu Val
100 105 110

Ser Val Ser Glu
115

<210> 757
<211> 117
<212> PRT
<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 757

Glu Val Gln Leu Gln Glu Ser Gly Pro Ser Leu Val Lys Pro Ser Gln
1 5 10 15

Thr Leu Ser Leu Thr Cys Ser Val Thr Gly Asp Ser Ile Thr Ser Gly
20 25 30

Tyr Trp Thr Trp Ile Arg Lys Phe Pro Gly Asn Lys Leu Glu Tyr Met
35 40 45

Gly Tyr Ile Ser Tyr Thr Gly Ser Thr Tyr Tyr Asn Pro Ser Leu Lys
50 55 60

Ser Arg Ile Ser Ile Ser Arg Asp Thr Ser Lys Ser Gln Tyr Tyr Leu
65 70 75 80

Gln Leu Asn Ser Val Thr Thr Glu Asp Thr Ala Thr Tyr Tyr Cys Ala
85 90 95

Arg Gln Arg Asp Trp Leu Gly Phe Ala Tyr Trp Gly Gln Gly Thr Leu
100 105 110

Val Thr Val Ser Ala
115

<210> 758

<211> 116

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 758

Glu Glu Lys Leu Val Glu Ser Gly Gly Gly Leu Val Lys Pro Gly Gly
1 5 10 15

Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Ser Phe Ser Ser Tyr
20 25 30

Gly Met Ser Trp Val Arg Gln Thr Pro Glu Lys Arg Leu Glu Trp Val
35 40 45

Ala Ser Ile Ser Ser Gly Gly Ser Ile Tyr Tyr Pro Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Arg Asn Ile Leu Tyr Leu
65 70 75 80

Gln Met Ser Ser Leu Arg Ser Glu Asp Thr Ala Met Tyr Tyr Cys Ala
85 90 95

Arg Gly Tyr Asp Ala Gly Phe Ala Phe Trp Gly Gln Gly Thr Leu Val
100 105 110

Thr Ala Ser Ala
115

<210> 759

<211> 116

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 759

Gln Ile Thr Leu Lys Glu Ser Gly Pro Thr Leu Val Lys Pro Thr Gln
1 5 10 15

Thr Leu Thr Leu Thr Cys Thr Val Ser Gly Phe Ser Leu Ser Thr Tyr
20 25 30

Gly Val His Trp Ile Arg Gln Pro Pro Gly Lys Ala Leu Glu Trp Leu
35 40 45

Gly Val Ile Trp Arg Gly Val Thr Thr Asp Tyr Asn Ala Ala Phe Met
50 55 60

Ser Arg Leu Thr Ile Thr Lys Asp Asn Ser Lys Asn Gln Val Val Leu
65 70 75 80

Thr Met Asn Asn Met Asp Pro Val Asp Thr Ala Thr Tyr Tyr Cys Ala
85 90 95

Arg Leu Gly Phe Tyr Ala Met Asp Tyr Trp Gly Gln Gly Thr Leu Val
100 105 110

Thr Val Ser Ser
115

<210> 760

<211> 116

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 760

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Lys Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Ile Phe Arg Ser Tyr
20 25 30

Gly Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
35 40 45

Ala Ser Ile Ser Ser Gly Gly Ser Thr Tyr Tyr Pro Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr Leu

65		70		75		80
Gln Met Asn Ser	Leu Arg Ala Glu Asp Thr Ala Val Tyr Asp Cys Ala					
	85		90		95	
Arg Gly Tyr Asp Ser Gly Phe Ala Tyr Trp Gly Gln Gly Thr Leu Val						
	100		105		110	
Thr Val Ser Ser						
	115					
<210> 761						
<211> 112						
<212> PRT						
<213> Artificial Sequence						
<220>						
<223> Synthetic polymer.						
<400> 761						
Asp Ile Val Leu Thr Gln Ser Pro Ala Ser Leu Ala Val Ser Leu Gly						
1	5		10		15	
Gln Arg Ala Thr Ile Ser Cys Arg Ala Ser Gln Ser Val Ser Thr Ser						
	20		25		30	
Ser Ser Ser Phe Met His Trp Tyr Gln Gln Lys Pro Gly Gln Pro Pro						
	35		40		45	
Lys Leu Leu Ile Lys Tyr Ala Ser Asn Leu Glu Ser Gly Val Pro Ala						
	50		55		60	
Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Asn Ile His						
65		70		75		80
Pro Val Glu Glu Glu Asp Thr Ala Thr Tyr Tyr Cys Gln His Ser Trp						
	85		90		95	

Glu Ile Pro Tyr Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys Arg
100 105 110

<210> 762
<211> 111
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 762

Asp Ile Val Leu Thr Gln Ser Pro Pro Ser Leu Ala Val Ser Leu Gly
1 5 10 15

Gln Arg Ala Thr Ile Ser Cys Arg Ala Ser Gln Ser Val Ser Thr Ser
20 25 30

Ser Ser Ser Tyr Met His Trp Tyr Gln Gln Lys Pro Gly Gln Pro Pro
35 40 45

Lys Leu Leu Ile Lys Tyr Ala Ser Asn Leu Glu Ser Gly Val Pro Ala
50 55 60

Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Asn Ile His
65 70 75 80

Pro Val Glu Glu Glu Asp Thr Ala Thr Tyr Tyr Cys Gln His Ser Trp
85 90 95

Glu Ile Pro Tyr Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
100 105 110

<210> 763
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 763

Ser Ile Val Met Thr Gln Thr Pro Lys Phe Leu Leu Val Ser Ala Gly
1 5 10 15

Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Ser Val Ser Asn Asp
20 25 30

Val Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Lys Leu Leu Ile
35 40 45

Tyr Tyr Ala Ala Asn Arg Tyr Thr Gly Val Pro Asp Arg Phe Thr Gly
50 55 60

Ser Gly Tyr Gly Thr Asp Phe Thr Phe Thr Ile Ser Ile Val Gln Ala
65 70 75 80

Glu Asp Leu Ala Val Tyr Phe Cys Gln Gln Asp Tyr Thr Ser Pro Tyr
85 90 95

Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
100 105

<210> 764

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 764

Ser Ile Val Met Thr Gln Thr Pro Lys Phe Leu Leu Val Ser Ala Gly
1 5 10 15

Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Ser Val Ser Asn Asp
20 25 30

Val Gly Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Lys Leu Leu Ile
35 40 45

Tyr Tyr Ala Ser Asn Arg Tyr Ser Gly Val Pro Asp Arg Phe Thr Gly
50 55 60

Ser Gly Tyr Gly Thr Asp Phe Thr Phe Thr Ile Ser Thr Val Gln Ala
65 70 75 80

Glu Asp Leu Ala Val Tyr Phe Cys Gln Gln Asp Tyr Thr Ser Pro Tyr
85 90 95

Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
100 105

<210> 765
<211> 112
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 765

Asp Val Leu Met Thr Gln Thr Pro Leu Tyr Leu Pro Val Ser Leu Gly
1 5 10 15

Asp Gln Ala Ser Ile Ser Cys Arg Ser Ser Gln Ile Ile Val His Ser
20 25 30

Asn Ala Asn Thr Tyr Leu Glu Trp Phe Leu Gln Lys Pro Gly Gln Ser
35 40 45

Pro Lys Leu Leu Ile Tyr Lys Val Ser Asn Arg Phe Ser Gly Val Pro
50 55 60

Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile
65 70 75 80

Ser Arg Val Glu Ala Glu Asp Leu Gly Val Tyr Tyr Cys Phe Gln Gly
85 90 95

Ser His Val Pro Tyr Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
100 105 110

<210> 766
<211> 108
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 766

Gln Ile Val Leu Thr Gln Ser Pro Ala Ile Met Ser Ala Ser Pro Gly
1 5 10 15

Glu Lys Val Thr Leu Thr Cys Ser Ala Ser Ser Ser Val Ser Ser Ser
20 25 30

Tyr Leu Tyr Trp Asn Gln Gln Lys Pro Gly Ser Ser Pro Lys Val Trp
35 40 45

Ile Tyr Asn Thr Ser Asn Leu Ala Ser Gly Val Pro Ala Arg Phe Ser
50 55 60

Gly Ser Gly Ser Gly Thr Ser Tyr Ser Leu Thr Ile Ser Ser Met Glu
65 70 75 80

Ala Glu Asp Ala Ala Ser Tyr Phe Cys His Gln Trp Arg Ser Tyr Pro
85 90 95

Pro Thr Leu Gly Ala Gly Thr Lys Leu Glu Leu Lys
100 105

<210> 767
<211> 106

<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 767

Gln Ile Val Leu Thr Gln Ser Pro Ala Ile Met Ser Ala Ser Pro Gly
1 5 10 15

Glu Lys Val Thr Met Thr Cys Ser Ala Asn Ser Ser Val Ser Tyr Met
20 25 30

His Trp Tyr Gln Gln Lys Ser Gly Thr Ser Pro Lys Arg Trp Ile Tyr
35 40 45

Asp Thr Ser Lys Leu Ala Ser Gly Val Pro Ala Arg Phe Ser Gly Ser
50 55 60

Gly Ser Gly Thr Ser Tyr Ser Leu Thr Ile Ser Ser Met Gly Ala Glu
65 70 75 80

Asp Ala Ala Thr Tyr Tyr Cys Gln Gln Trp Ser Ser Asn Pro Trp Thr
85 90 95

Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
100 105

<210> 768
<211> 111
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 768

Asp Ile Val Leu Thr Gln Ser Pro Ala Ser Leu Ala Val Ser Leu Gly
1 5 10 15

Gln Arg Ala Thr Ile Ser Cys Arg Ala Ser Gln Ser Val Ser Thr Ser
20 25 30

Ser Tyr Ser Tyr Met His Trp Tyr Gln Gln Lys Pro Gly Gln Pro Pro
35 40 45

Lys Leu Leu Ile Lys Tyr Ala Ser Asn Leu Glu Ser Gly Val Pro Ala
50 55 60

Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Asn Ile His
65 70 75 80

Pro Val Glu Glu Glu Asp Thr Ala Thr Tyr Tyr Cys Gln Asn Ser Trp
85 90 95

Glu Ile Pro Tyr Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
100 105 110

<210> 769
<211> 113
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 769

Asp Ile Val Met Thr Gln Thr Pro Ser Ser Leu Ala Val Ser Leu Gly
1 5 10 15

Glu Lys Val Thr Met Ser Cys Lys Ser Ser Gln Ser Leu Leu Tyr Ser
20 25 30

Ser Asn Gln Lys Asn Ser Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln
35 40 45

Ser Pro Lys Leu Leu Ile Tyr Trp Ala Ser Asn Arg Glu Ser Gly Val
50 55 60

Pro Asp Arg Phe Thr Gly Ser Ser Ser Gly Thr Asp Phe Thr Leu Thr
65 70 75 80

Ile Ser Ser Val Lys Ala Glu Asp Leu Ala Val Tyr Tyr Cys Gln Gln
85 90 95

Tyr Tyr Ser Tyr Pro Leu Thr Phe Gly Ala Gly Thr Lys Leu Glu Leu
100 105 110

Lys

<210> 770
<211> 111
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 770

Asp Ile Val Leu Thr Gln Ser Pro Ala Ser Leu Ala Val Ser Leu Gly
1 5 10 15

Gln Arg Ala Thr Ile Ser Cys Arg Ala Ser Gln Ser Val Ser Thr Ser
20 25 30

Ser Tyr Ser Tyr Val His Trp Tyr Gln Gln Lys Pro Gly Gln Pro Pro
35 40 45

Lys Leu Leu Ile Lys Tyr Ala Ser Asn Leu Glu Ser Gly Val Pro Ala
50 55 60

Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Asn Ile His
65 70 75 80

Pro Val Glu Glu Glu Asp Thr Ala Thr Tyr Tyr Cys Gln His Ser Trp

85

90

95

Glu Ile Pro Tyr Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
 100 105 110

<210> 771

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 771

Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
 1 5 10 15

Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Ser Val Ser Asn Asp
 20 25 30

Val Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile
 35 40 45

Tyr Tyr Ala Ala Asn Arg Tyr Thr Gly Val Pro Asp Arg Phe Ser Gly
 50 55 60

Ser Gly Tyr Gly Thr Asp Phe Thr Phe Thr Ile Ser Ser Leu Gln Pro
 65 70 75 80

Glu Asp Ile Ala Thr Tyr Phe Cys Gln Gln Asp Tyr Thr Ser Pro Tyr
 85 90 95

Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
 100 105

<210> 772

<211> 111

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 772

Asp Ile Val Leu Thr Gln Ser Pro Ala Ser Leu Ala Val Ser Pro Gly
1 5 10 15

Gln Arg Ala Thr Ile Thr Cys Arg Ala Ser Gln Ser Val Ser Thr Ser
20 25 30

Ser Ser Ser Phe Met His Trp Tyr Gln Gln Lys Pro Gly Gln Pro Pro
35 40 45

Lys Leu Leu Ile Lys Tyr Ala Ser Asn Leu Glu Ser Gly Val Pro Ala
50 55 60

Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Asn
65 70 75 80

Pro Val Glu Ala Asn Asp Thr Ala Asn Tyr Tyr Cys Gln His Ser Trp
85 90 95

Glu Ile Pro Tyr Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
100 105 110

<210> 773

<211> 117

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 773

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Glu
1 5 10 15

Ser Leu Arg Ile Ser Cys Lys Gly Ser Gly Tyr Thr Phe Thr Thr Tyr

20

25

30

Trp Met His Trp Val Arg Gln Ala Thr Gly Gln Gly Leu Glu Trp Met
 35 40 45

Gly Asn Ile Tyr Pro Gly Thr Gly Gly Ser Asn Phe Asp Glu Lys Phe
 50 55 60

Lys Asn Arg Val Thr Ile Thr Ala Asp Lys Ser Thr Ser Thr Ala Tyr
 65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

Thr Arg Trp Thr Thr Gly Thr Gly Ala Tyr Trp Gly Gln Gly Thr Thr
 100 105 110

Val Thr Val Ser Ser
 115

<210> 774

<211> 117

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 774

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Glu
 1 5 10 15

Ser Leu Arg Ile Ser Cys Lys Gly Ser Gly Tyr Thr Phe Thr Thr Tyr
 20 25 30

Trp Met His Trp Ile Arg Gln Ser Pro Ser Arg Gly Leu Glu Trp Leu
 35 40 45

Gly Asn Ile Tyr Pro Gly Thr Gly Gly Ser Asn Phe Asp Glu Lys Phe
50 55 60

Lys Asn Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Thr Arg Trp Thr Thr Gly Thr Gly Ala Tyr Trp Gly Gln Gly Thr Thr
100 105 110

Val Thr Val Ser Ser
115

<210> 775
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 775

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Thr Tyr
20 25 30

Trp Met His Trp Ile Arg Gln Ser Pro Ser Arg Gly Leu Glu Trp Leu
35 40 45

Gly Asn Ile Tyr Pro Gly Thr Gly Gly Ser Asn Phe Asp Glu Lys Phe
50 55 60

Lys Asn Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Thr Arg Trp Thr Thr Gly Thr Gly Ala Tyr Trp Gly Gln Gly Thr Thr
100 105 110

Val Thr Val Ser Ser
115

<210> 776

<211> 117

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 776

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Glu
1 5 10 15

Ser Leu Arg Ile Ser Cys Lys Gly Ser Gly Tyr Thr Phe Thr Thr Tyr
20 25 30

Trp Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
35 40 45

Gly Asn Ile Tyr Pro Gly Thr Gly Gly Ser Asn Phe Asp Glu Lys Phe
50 55 60

Lys Asn Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Thr Arg Trp Thr Thr Gly Thr Gly Ala Tyr Trp Gly Gln Gly Thr Thr
100 105 110

Val Thr Val Ser Ser
115

<210> 777
<211> 113
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 777

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 Lys Ser Ser Gln Ser Leu Leu Asp Ser
20 25 30

Gly Asn Gln Lys Asn Phe Leu Thr Trp Tyr Gln Gln Lys Pro Gly Gln
35 40 45

Ala Pro Arg Leu Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Val
50 55 60

Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr
65 70 75 80

Ile Ser Ser Leu Gln Pro Asp Asp Phe Ala Thr Tyr Tyr Cys Gln Asn
85 90 95

Asp Tyr Ser Tyr Pro Tyr Thr Phe Gly Gln Gly Thr Lys Val Glu Ile
100 105 110

Lys

<210> 778

<211> 113
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 778

Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
1 5 10 15

Asp Arg Val Thr Ile Thr Cys Lys Ser Ser Gln Ser Leu Leu Asp Ser
20 25 30

Gly Asn Gln Lys Asn Phe Leu Thr Trp Tyr Gln Gln Lys Pro Gly Gln
35 40 45

Ala Pro Arg Leu Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Ile
50 55 60

Pro Pro Arg Phe Ser Gly Ser Gly Tyr Gly Thr Asp Phe Thr Leu Thr
65 70 75 80

Ile Asn Asn Ile Glu Ser Glu Asp Ala Ala Tyr Tyr Phe Cys Gln Asn
85 90 95

Asp Tyr Ser Tyr Pro Tyr Thr Phe Gly Gln Gly Thr Lys Val Glu Ile
100 105 110

Lys

<210> 779
<211> 113
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 779

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 Lys Ser Ser Gln Ser Leu Leu Asp Ser
20 25 30

Gly Asn Gln Lys Asn Phe Leu Thr Trp Tyr Gln Gln Lys Pro Gly Lys
35 40 45

Ala Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Val
50 55 60

Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Phe Thr
65 70 75 80

Ile Ser Ser Leu Gln Pro Glu Asp Ile Ala Thr Tyr Tyr Cys Gln Asn
85 90 95

Asp Tyr Ser Tyr Pro Tyr Thr Phe Gly Gln Gly Thr Lys Val Glu Ile
100 105 110

Lys

<210> 780

<211> 113

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 780

Asp Ile Val Met Thr Gln Thr Pro Leu Ser Leu Pro Val Thr Pro Gly
1 5 10 15

Glu Pro Ala Ser Ile Ser Cys Lys Ser Ser Gln Ser Leu Leu Asp Ser

20

25

30

Gly Asn Gln Lys Asn Phe Leu Thr Trp Tyr Gln Gln Lys Pro Gly Gln
 35 40 45

Ala Pro Arg Leu Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Val
 50 55 60

Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Phe Thr
 65 70 75 80

Ile Ser Ser Leu Glu Ala Glu Asp Ala Ala Thr Tyr Tyr Cys Gln Asn
 85 90 95

Asp Tyr Ser Tyr Pro Tyr Thr Phe Gly Gln Gly Thr Lys Val Glu Ile
 100 105 110

Lys

<210> 781

<211> 113

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 781

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 Lys Ser Ser Gln Ser Leu Leu Asp Ser
 20 25 30

Gly Asn Gln Lys Asn Phe Leu Thr Trp Tyr Gln Gln Lys Pro Gly Lys
 35 40 45

Ala Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Val
 50 55 60

Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Phe Thr
 65 70 75 80

Ile Ser Ser Leu Glu Ala Glu Asp Ala Ala Thr Tyr Tyr Cys Gln Asn
 85 90 95

Asp Tyr Ser Tyr Pro Tyr Thr Phe Gly Gln Gly Thr Lys Val Glu Ile
 100 105 110

Lys

<210> 782
 <211> 113
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic polymer.

<400> 782

Glu Ile Val Leu Thr Gln Ser Pro Asp Phe Gln Ser Val Thr Pro Lys
 1 5 10 15

Glu Lys Val Thr Ile Thr Cys Lys Ser Ser Gln Ser Leu Leu Asp Ser
 20 25 30

Gly Asn Gln Lys Asn Phe Leu Thr Trp Tyr Gln Gln Lys Pro Gly Gln
 35 40 45

Ala Pro Arg Leu Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Val
 50 55 60

Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Phe Thr
 65 70 75 80

Ile Ser Ser Leu Glu Ala Glu Asp Ala Ala Thr Tyr Tyr Cys Gln Asn
85 90 95

Asp Tyr Ser Tyr Pro Tyr Thr Phe Gly Gln Gly Thr Lys Val Glu Ile
100 105 110

Lys

<210> 783
<211> 113
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 783

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 Lys Ser Ser Gln Ser Leu Leu Asp Ser
20 25 30

Gly Asn Gln Lys Asn Phe Leu Thr Trp Tyr Gln Gln Lys Pro Gly Gln
35 40 45

Ala Pro Arg Leu Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Val
50 55 60

Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Phe Thr
65 70 75 80

Ile Ser Ser Leu Glu Ala Glu Asp Ala Ala Thr Tyr Tyr Cys Gln Asn
85 90 95

Asp Tyr Ser Tyr Pro Tyr Thr Phe Gly Gln Gly Thr Lys Val Glu Ile
100 105 110

Lys

<210> 784
<211> 113
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 784

Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
1 5 10 15

Asp Arg Val Thr Ile Thr Cys Lys Ser Ser Gln Ser Leu Leu Asp Ser
20 25 30

Gly Asn Gln Lys Asn Phe Leu Thr Trp Tyr Leu Gln Lys Pro Gly Gln
35 40 45

Ser Pro Gln Leu Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Val
50 55 60

Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Phe Thr
65 70 75 80

Ile Ser Ser Leu Glu Ala Glu Asp Ala Ala Thr Tyr Tyr Cys Gln Asn
85 90 95

Asp Tyr Ser Tyr Pro Tyr Thr Phe Gly Gln Gly Thr Lys Val Glu Ile
100 105 110

Lys

<210> 785

<211> 113
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 785

Asp Val Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Leu Gly
1 5 10 15

Gln Pro Ala Ser Ile Ser Cys Lys Ser Ser Gln Ser Leu Leu Asp Ser
20 25 30

Gly Asn Gln Lys Asn Phe Leu Thr Trp Tyr Gln Gln Lys Pro Gly Lys
35 40 45

Ala Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Val
50 55 60

Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Phe Thr
65 70 75 80

Ile Ser Ser Leu Glu Ala Glu Asp Ala Ala Thr Tyr Tyr Cys Gln Asn
85 90 95

Asp Tyr Ser Tyr Pro Tyr Thr Phe Gly Gln Gly Thr Lys Val Glu Ile
100 105 110

Lys

<210> 786
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 786

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Asp Ser
20 25 30

Trp Ile His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
35 40 45

Ala Trp Ile Ser Pro Tyr Gly Gly Ser Thr Tyr Tyr Ala Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Ala Asp Thr Ser Lys Asn Thr Ala Tyr
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Arg Arg His Trp Pro Gly Gly Phe Asp Tyr Trp Gly Gln Gly Thr
100 105 110

Leu Val Thr Val Ser Ala
115

<210> 787

<211> 108

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 787

Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
1 5 10 15

Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Asp Val Ser Thr Ala

20

25

30

Val Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile
 35 40 45

Tyr Ser Ala Ser Phe Leu Tyr Ser Gly Val Pro Ser Arg Phe Ser Gly
 50 55 60

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
 65 70 75 80

Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Tyr Leu Tyr His Pro Ala
 85 90 95

Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg
 100 105

<210> 788

<211> 126

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 788

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Leu Asp Tyr Tyr
 20 25 30

Ala Ile Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Trp Ala
 35 40 45

Ser Ser Ile Ser Ser Ser Asp Gly Ser Thr Tyr Tyr Ala Asp Ser Val
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Phe
65 70 75 80

Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Ser Cys
85 90 95

Ala Ala Ser Gln Ala Pro Ile Thr Ile Ala Thr Met Met Lys Pro Phe
100 105 110

Tyr Asp Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
115 120 125

<210> 789

<211> 123

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 789

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Leu Asp Tyr Tyr
20 25 30

Ala Lys Cys Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Trp Val
35 40 45

Ser Cys Ile Ser Ser Ser Asp Gly Ser Thr Tyr Tyr Ala Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr
65 70 75 80

Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Phe Cys
85 90 95

Ala Ala Arg His Gly Gly Pro Leu Thr Val Glu Tyr Phe Phe Asp Tyr
 100 105 110

Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
 115 120

<210> 790
 <211> 124
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic polymer.

<400> 790

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asp Tyr Tyr
 20 25 30

Ala Ile Gly Trp Phe Arg Gln Ala Pro Gly Lys Ala Arg Glu Gly Val
 35 40 45

Ser Cys Ile Ser Gly Gly Asp Asn Ser Thr Tyr Tyr Ala Asp Ser Val
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr
 65 70 75 80

Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

Ala Thr Gly Gly Trp Lys Tyr Cys Ser Gly Tyr Asp Pro Glu Tyr Ile
 100 105 110

Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
 115 120

<210> 791
<211> 115
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 791

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Thr Phe Ser Gln Tyr
20 25 30

Asp Val Gly Trp Tyr Arg Gln Ala Pro Gly Lys Gln Arg Glu Leu Val
35 40 45

Ala Phe Ser Ser Ser Gly Gly Arg Thr Ile Tyr Pro Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Phe Ser Arg Asp Asn Thr Lys Asn Thr Val Tyr Leu
65 70 75 80

Gln Met Thr Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Lys
85 90 95

Ile Asp Trp Tyr Leu Asn Ser Tyr Trp Gly Gln Gly Thr Gln Val Thr
100 105 110

Val Ser Ser
115

<210> 792
<211> 114
<212> PRT
<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 792

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Val Asp Ala Ser Asn Ser
20 25 30

Ala Met Gly Trp Tyr Arg Gln Ala Pro Gly Lys Gln Arg Glu Trp Val
35 40 45

Ala Arg Ile Thr Gly Gly Gly Leu Ile Ala Tyr Thr Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Ser Thr Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Glu Pro Glu Asp Thr Ala Val Tyr Tyr Cys Asn
85 90 95

Thr Ile Asn Ser Arg Asp Gly Trp Gly Gln Gly Thr Gln Val Thr Val
100 105 110

Ser Ser

<210> 793

<211> 111

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 793

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1 5 10 15

Ser Leu Thr Ile Ser Cys Ala Ala Ser Gly Ile Thr Phe Ser Asp Ser
20 25 30

Ile Val Ser Trp Tyr Arg Arg Ala Arg Gly Lys Gln Arg Glu Trp Val
35 40 45

Ala Gly Ile Ser Asn Gly Gly Thr Thr Lys Tyr Ala Glu Ser Val Leu
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Asn Val Tyr Leu
65 70 75 80

Gln Met Asn Gly Leu Asn Pro Glu Asp Thr Ala Val Tyr Leu Cys Lys
85 90 95

Val Arg Gln Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
100 105 110

<210> 794
<211> 130
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 794

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Glu Ser Thr Val Leu Ile Asn
20 25 30

Ala Met Gly Trp Tyr Arg Gln Ala Pro Gly Lys Gln Arg Glu Leu Val
35 40 45

Ala Ser Ile Ser Ser Gly Gly Ser Thr Asn Tyr Ala Asp Ser Val Lys

50

55

60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Asn
85 90 95

Ala Asp Val Tyr Pro Gln Asp Tyr Gly Leu Gly Tyr Val Glu Gly Lys
100 105 110

Val Tyr Tyr Gly His Asp Tyr Trp Gly Thr Gly Thr Leu Val Thr Val
115 120 125

Ser Ser
130

<210> 795

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 795

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Thr Phe Ser Asn Tyr
20 25 30

Val Ser Asn Tyr Ala Met Gly Trp Gly Arg Gln Ala Pro Gly Thr Gln
35 40 45

Arg Glu Leu Val Ala Ser Ile Ser Asn Gly Asp Thr Thr Asn Tyr Ala
50 55 60

Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn
65 70 75 80

Thr Val Tyr Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val
85 90 95

Tyr Tyr Cys Phe Glu His Gln Val Ala Gly Leu Thr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 796
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<220>
<221> misc_feature
<222> (27)..(27)
<223> Xaa can be any naturally occurring amino acid

<220>
<221> misc_feature
<222> (32)..(32)
<223> Xaa can be any naturally occurring amino acid

<220>
<221> misc_feature
<222> (75)..(75)
<223> Xaa can be any naturally occurring amino acid

<400> 796

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Val Ala Ser Gly Xaa Ala Leu Lys Ile Xaa
20 25 30

Val Met Gly Trp Tyr Arg Gln Ala Pro Gly Lys Gln Arg Glu Leu Val
35 40 45

Ala Ala Ile Thr Ser Gly Gly Arg Thr Asn Tyr Ser Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Gly Asp Asn Ala Xaa Asn Thr Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Lys Ser Glu Asp Thr Ala Val Tyr Tyr Cys Arg
85 90 95

Glu Trp Asn Ser Gly Tyr Pro Pro Val Asp Tyr Trp Gly Gln Gly Thr
100 105 110

Gln Val Thr Val Ser Ser
115

<210> 797

<211> 120

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 797

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Arg Thr Phe Ser Ser Gly
20 25 30

Thr Met Gly Trp Phe Arg Arg Ala Pro Gly Lys Glu Arg Glu Phe Val
35 40 45

Ala Ser Ile Pro Trp Ser Gly Gly Arg Thr Tyr Tyr Ala Asp Ser Val
50 55 60

Lys Asp Arg Phe Thr Ile Ser Arg Asp Asn Ala Gln Asn Thr Val Phe
65 70 75 80

Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Phe Lys Glu Arg Ser Thr Gly Trp Asp Phe Ala Ser Trp Gly Gln
100 105 110

Gly Ile Gln Val Thr Val Ser Ser
115 120

<210> 798

<211> 127

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 798

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Thr Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Leu Asp Tyr Tyr
20 25 30

Gly Ile Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Gly Val
35 40 45

Ser Phe Ile Ser Gly Ser Asp Gly Ser Thr Tyr Tyr Ala Glu Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Lys Ala Lys Asn Thr Val Tyr
65 70 75 80

Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys

85

90

95

Ala Ala Asp Pro Trp Gly Pro Pro Ser Ile Ala Thr Met Thr Ser Tyr
 100 105 110

Glu Tyr Lys His Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
 115 120 125

<210> 799

<211> 113

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 799

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Thr Tyr
 20 25 30

Thr Met Ile Trp Leu Arg Arg Ala Pro Gly Lys Gly Phe Glu Trp Val
 35 40 45

Ser Thr Ile Asp Lys Asp Gly Asn Thr Asn Tyr Val Asp Ser Val Lys
 50 55 60

Gly Arg Phe Ala Val Ser Arg Asp Asn Thr Lys Asn Thr Leu Tyr Leu
 65 70 75 80

Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Met Tyr Tyr Cys Thr
 85 90 95

Lys His Gly Ser Ser Ala Arg Gly Gln Gly Thr Arg Val Thr Val Ser
 100 105 110

Ser

<210> 800
<211> 114
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 800

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Glu Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Val Ala Ser Gly Phe Thr Phe Ser Ser Tyr
20 25 30

Asp Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
35 40 45

Ser Thr Ile Asn Ser Gly Gly Gly Ile Thr Tyr Arg Gly Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Leu Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Glu
85 90 95

Asn Gly Gly Ser Ser Tyr Arg Arg Gly Gln Gly Thr Gln Val Thr Val
100 105 110

Ser Ser

<210> 801
<211> 114
<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 801

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Leu Lys Lys Pro Gly Ala
1 5 10 15

Ser Val Lys Met Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Gly Tyr
20 25 30

Thr Met His Trp Val Lys Gln Ala Pro Gly Gln Gly Leu Glu Trp Ile
35 40 45

Gly Tyr Ile Asn Pro Arg Ser Gly Tyr Thr Glu Tyr Asn Gln Lys Phe
50 55 60

Lys Asp Arg Thr Thr Leu Thr Ala Asp Lys Ser Thr Ser Thr Ala Tyr
65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Ser Ala Val Tyr Tyr Cys
85 90 95

Ala Arg Pro Trp Phe Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val
100 105 110

Ser Ser

<210> 802

<211> 114

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 802

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
1 5 10 15

Ser Val Lys Met Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Gly Tyr
20 25 30

Thr Met His Trp Val Lys Gln Ala Pro Gly Gln Gly Leu Glu Trp Ile
35 40 45

Gly Tyr Ile Asn Pro Arg Ser Gly Tyr Thr Glu Tyr Asn Gln Lys Phe
50 55 60

Lys Asp Arg Thr Thr Leu Thr Ala Asp Lys Ser Thr Ser Thr Ala Tyr
65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Arg Pro Trp Phe Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val
100 105 110

Ser Ser

<210> 803

<211> 114

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 803

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
1 5 10 15

Ser Val Lys Met Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Gly Tyr
20 25 30

Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Ile
35 40 45

Gly Tyr Ile Asn Pro Arg Ser Gly Tyr Thr Glu Tyr Asn Gln Lys Phe
50 55 60

Lys Asp Arg Thr Thr Leu Thr Ala Asp Lys Ser Thr Ser Thr Ala Tyr
65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Arg Pro Trp Phe Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val
100 105 110

Ser Ser

<210> 804

<211> 114

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 804

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Gly Tyr
20 25 30

Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Ile
35 40 45

Gly Tyr Ile Asn Pro Arg Ser Gly Tyr Thr Glu Tyr Asn Gln Lys Phe
50 55 60

Lys Asp Arg Thr Thr Leu Thr Ala Asp Lys Ser Thr Ser Thr Ala Tyr
65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Arg Pro Trp Phe Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val
100 105 110

Ser Ser

<210> 805
<211> 114
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 805

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Gly Tyr
20 25 30

Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Ile
35 40 45

Gly Tyr Ile Asn Pro Arg Ser Gly Tyr Thr Glu Tyr Asn Gln Lys Phe
50 55 60

Lys Asp Arg Thr Thr Ile Thr Ala Asp Lys Ser Thr Ser Thr Ala Tyr
65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys

85

90

95

Ala Arg Pro Trp Phe Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val
 100 105 110

Ser Ser

<210> 806

<211> 113

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 806

Asp Ile Val Met Thr Gln Ser Pro Ala Ser Leu Thr Val Thr Pro Gly
 1 5 10 15

Glu Lys Val Thr Ile Thr Cys Lys Ser Ser Gln Ser Leu Leu Asn Ser
 20 25 30

Gly Asn Gln Lys Asn Tyr Leu Thr Trp Tyr Gln Gln Lys Pro Gly Gln
 35 40 45

Pro Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Val
 50 55 60

Pro Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr
 65 70 75 80

Ile Ser Ser Leu Gln Ala Glu Asp Val Ala Val Tyr Tyr Cys Gln Asn
 85 90 95

Asp Tyr Ser Tyr Pro Leu Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile
 100 105 110

Lys

<210> 807
<211> 113
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 807

Asp Ile Val Met Thr Gln Ser Pro Ala Ser Leu Ser Val Thr Pro Gly
1 5 10 15

Glu Lys Val Thr Ile Thr Cys Lys Ser Ser Gln Ser Leu Leu Asn Ser
20 25 30

Gly Asn Gln Lys Asn Tyr Leu Thr Trp Tyr Gln Gln Lys Pro Gly Gln
35 40 45

Pro Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Val
50 55 60

Pro Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr
65 70 75 80

Ile Ser Ser Leu Gln Ala Glu Asp Val Ala Val Tyr Tyr Cys Gln Asn
85 90 95

Asp Tyr Ser Tyr Pro Leu Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile
100 105 110

Lys

<210> 808
<211> 113
<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 808

Asp Ile Val Met Thr Gln Ser Pro Ala Phe Leu Ser Val Thr Pro Gly
1 5 10 15

Glu Lys Val Thr Ile Thr Cys Lys Ser Ser Gln Ser Leu Leu Asn Ser
20 25 30

Gly Asn Gln Lys Asn Tyr Leu Thr Trp Tyr Gln Gln Lys Pro Gly Gln
35 40 45

Pro Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Val
50 55 60

Pro Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr
65 70 75 80

Ile Ser Ser Leu Gln Ala Glu Asp Val Ala Val Tyr Tyr Cys Gln Asn
85 90 95

Asp Tyr Ser Tyr Pro Leu Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile
100 105 110

Lys

<210> 809

<211> 113

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 809

Asp Ile Val Met Thr Gln Ser Pro Ala Phe Leu Ser Val Thr Pro Gly
1 5 10 15

Glu Lys Val Thr Ile Thr Cys Lys Ser Ser Gln Ser Leu Leu Asn Ser
20 25 30

Gly Asn Gln Lys Asn Tyr Leu Thr Trp Tyr Gln Gln Lys Pro Gly Gln
35 40 45

Pro Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Val
50 55 60

Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr
65 70 75 80

Ile Ser Ser Leu Gln Ala Glu Asp Val Ala Val Tyr Tyr Cys Gln Asn
85 90 95

Asp Tyr Ser Tyr Pro Leu Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile
100 105 110

Lys

<210> 810
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 810

Gly Gly Gly Gly Ser
1 5

<210> 811
<211> 10
<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 811

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
1 5 10

<210> 812

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 812

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
1 5 10 15

<210> 813

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 813

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly
1 5 10 15

Gly Gly Gly Ser
20

<210> 814

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 814

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly
1 5 10 15

Gly Gly Gly Ser Gly Gly Gly Gly Ser
20 25

<210> 815

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 815

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly
1 5 10 15

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
20 25 30

<210> 816

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 816

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly
1 5 10 15

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly
20 25 30

Gly Gly Ser

35

<210> 817
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 817

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly
1 5 10 15

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly
20 25 30

Gly Gly Ser Gly Gly Gly Gly Ser
35 40

<210> 818
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 818

Gly Gly Ser Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
1 5 10 15

<210> 819
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 819

Gly Gly Gly Gly Gly Gly Gly Gly
1 5

<210> 820
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 820

Gly Gly Gly Gly Gly Gly
1 5

<210> 821
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 821

Glu Ala Ala Ala Lys
1 5

<210> 822
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 822

Glu Ala Ala Ala Lys Glu Ala Ala Ala Lys
1 5 10

<210> 823
<211> 15
<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 823

Glu	Ala	Ala	Ala	Lys	Glu	Ala	Ala	Ala	Lys	Glu	Ala	Ala	Ala	Lys
1				5					10					15

<210> 824

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 824

Ala	Glu	Ala	Ala	Ala	Lys	Glu	Ala	Ala	Ala	Lys	Ala
1				5					10		

<210> 825

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 825

Ala	Glu	Ala	Ala	Ala	Lys	Glu	Ala	Ala	Ala	Lys	Glu	Ala	Ala	Ala	Lys
1				5					10					15	

Ala

<210> 826

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 826

Ala Glu Ala Ala Ala Lys Glu Ala Ala Ala Lys Glu Ala Ala Ala Lys
1 5 10 15

Glu Ala Ala Ala Lys Ala
20

<210> 827

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 827

Ala Glu Ala Ala Ala Lys Glu Ala Ala Ala Lys Glu Ala Ala Ala Lys
1 5 10 15

Glu Ala Ala Ala Lys Glu Ala Ala Ala Lys Ala
20 25

<210> 828

<211> 46

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 828

Ala Glu Ala Ala Ala Lys Glu Ala Ala Ala Lys Glu Ala Ala Ala Lys
1 5 10 15

Glu Ala Ala Ala Lys Ala Leu Glu Ala Glu Ala Ala Ala Lys Glu Ala
20 25 30

Ala Ala Lys Glu Ala Ala Ala Lys Glu Ala Ala Ala Lys Ala

35

40

45

<210> 829
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 829

Pro Ala Pro Ala Pro
1 5

<210> 830
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 830

Lys Glu Ser Gly Ser Val Ser Ser Glu Gln Leu Ala Gln Phe Arg Ser
1 5 10 15

Leu Asp

<210> 831
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 831

Glu Gly Lys Ser Ser Gly Ser Gly Ser Glu Ser Lys Ser Thr
1 5 10

<210> 832
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 832

Gly Ser Ala Gly Ser Ala Ala Gly Ser Gly Glu Phe
1 5 10

<210> 833
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 833

Gly Gly Gly Ser Glu
1 5

<210> 834
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 834

Gly Ser Glu Ser Gly
1 5

<210> 835
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 835

Gly Ser Glu Gly Ser
1 5

<210> 836

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 836

Gly Glu Gly Gly Ser Gly Glu Gly Ser Ser Gly Glu Gly Ser Ser Ser
1 5 10 15

Glu Gly Gly Gly Ser Glu Gly Gly Gly Ser Glu Gly Gly Gly Ser Glu
20 25 30

Gly Gly Ser
35

<210> 837

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 837

ttatgcttcc ggctcgatatg

20

<210> 838

<211> 29

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 838
gatgtgcagc tgcaggagtc tggrggagg 29

<210> 839
<211> 34
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 839
ctagtgcggc cgctgaggag acggtgacct gggt 34

<210> 840
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 840
tcacacagga aacagctatg ac 22

<210> 841
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 841
cgccagggtt ttcccagtca cgac 24

<210> 842
<211> 138
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 842

Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Asp
1 5 10 15

Ser Leu Arg Leu Ser Cys Lys Gly Ser Gly Arg Asn Phe Gly Ser Tyr
20 25 30

Asn Met Gly Trp Tyr Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val
35 40 45

Ala Ala Val Ala Trp Ile Gly Gly Thr Thr Tyr Tyr Ala Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Glu Arg Met Val Tyr
65 70 75 80

Leu Gln Met Thr Asn Leu Lys Pro Glu Asp Thr Ala Ile Tyr Tyr Cys
85 90 95

Asn Ala Asp Ile Glu Arg Arg Pro Leu Phe Gly Ser Trp Gly Pro Gly
100 105 110

Thr Gln Val Thr Val Ser Ser Ala Ala Ala Tyr Pro Tyr Asp Val Pro
115 120 125

Asp Tyr Gly Ser His His His His His His
130 135

<210> 843
<211> 355
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 843

Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Thr Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Ile Phe Val Gly Asn
20 25 30

Ala Met Gly Trp Tyr Arg Gln Ala Leu Gly Asn Gln Arg Glu Leu Val
35 40 45

Ala Gly Ile Thr Ser Asp Gly Thr Thr Tyr Tyr Pro Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Asp Lys Asn Thr Ile Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Asn
85 90 95

Leu Trp Pro Pro Arg Ile Gly Phe Ala Ser Trp Gly Gln Gly Thr Gln
100 105 110

Val Thr Val Ser Ser Val Asp Gly Gly Ser Gly Gly Ser Gly Gly Ser
115 120 125

Gly Gly Ser Gly Gly Ser Gly Gly Ser Arg Ser Gly Gly Ser Gly Gly
130 135 140

Ser Gly Gly Ser Gly Gly Ser Gly Gly Ser Gly Gly Ser Gly Gly Ser
145 150 155 160

Gly Gly Ser Gly Gly Ser Gly Gly Ser Gly Gly Ser Gly Gly Ser Gly
165 170 175

Gly Ser Ala Ala Ala Met Cys Asp Leu Pro Gln Thr His Ser Leu Gly
180 185 190

Ser Arg Arg Thr Leu Met Leu Leu Ala Gln Met Arg Arg Ile Ser Leu
195 200 205

Phe Ser Cys Leu Lys Asp Arg His Asp Phe Gly Phe Pro Gln Glu Glu
210 215 220

Phe Gly Asn Gln Phe Gln Lys Ala Glu Thr Ile Pro Val Leu His Glu
225 230 235 240

Met Ile Gln Gln Ile Phe Asn Leu Phe Ser Thr Lys Asp Ser Ser Ala
245 250 255

Ala Trp Asp Glu Thr Leu Leu Asp Lys Phe Tyr Thr Glu Leu Tyr Gln
260 265 270

Gln Leu Asn Asp Leu Glu Ala Cys Val Ile Gln Gly Val Gly Val Thr
275 280 285

Glu Thr Pro Leu Met Lys Glu Asp Ser Ile Leu Ala Val Arg Lys Tyr
290 295 300

Phe Gln Arg Ile Thr Leu Tyr Leu Lys Glu Lys Lys Tyr Ser Pro Cys
305 310 315 320

Ala Trp Glu Val Val Arg Ala Glu Ile Met Ala Ser Phe Ser Leu Ser
325 330 335

Thr Asn Leu Gln Glu Ser Leu Arg Ser Lys Glu Leu Glu His His His
340 345 350

His His His
355

<210> 844
<211> 429
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 844
caggtgcagc tgcaggagtc tgggggagga ttggtagagg ctgagggctc tctgagactc 60
tcctgtgcag cctctggacg caccttcggt agctatgcc a tgggctggtt ccgccaggct 120
ccaggaaagt cgcgcgagtt ggtcgcagct attagtagtg gtggtaccac atactatgca 180
gactctgtga agggccgatt caccatctcc agagacaacg ccaggaacac ggtgtatctg 240
caaacgaaca gcctgaaacc tgaggacacg gccgtttatt actgcgcagc tagaacaggg 300
agtcctact acactaatcg tattgactgg ccctactggg gccaggggac ccaggtcacc 360
gtctcctcag cggccgcata cccgtacgac gttccggact acggttccca ccaccatcac 420
catcactag 429

<210> 845
<211> 429
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 845
caggtgcagc tgcaggagtc tgggggagga ttggtagagg ctgagggctc tctgagactc 60
tcctgtgcag cctctggacg caccttcggt agctatgcc a tgggctggtt ccgccaggct 120
ccaggaaagt cgcgcgagtt ggtcgcagct attagtagtg gtggtaccac atactatgca 180
gactctgtga agggccgatt caccatctcc agagacaacg ccaggaacac ggtgtatctg 240
caaacgaaca gcccgaacc tgaggacacg gccgtttatt actgcgcagc tagaacaggg 300
agtcctact acactaatcg tattgactgg ccctactggg gccaggggac ccaggtcacc 360
gtctcctcag cggccgcata cccgtacgac gttccggact acggttccca ccaccatcac 420
catcactag 429

<210> 846
<211> 429
<212> DNA
<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 846

caggtgcagc tgcaggagtc tgggggagga ttggtggagg ctgagggctc tctgagactc	60
tcctgtgcag cctctggacg caccttcggt acctatgcgc tggcctggtt ccgccaggct	120
ccaggaaagt cgcgcgagtt ggtcgcagct attagtagtg gtggtagcac atactatgca	180
gactctgtga agggccgatt caccatctcc agagacaacg ccaggaacac ggtgtatctg	240
caaacgaaca gcctgaaacc tgaggacacg gccgtttatt actgcgcagc aaaaacaggg	300
agtcctact acactaatcg tattgactgg ccctactggg gccaggggac ccaggtcacc	360
gtctcctcag cggccgcata cccgtacgac gttccggact acggttccca ccaccatcac	420
catcactag	429

<210> 847

<211> 429

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 847

caggtgcagc tgcaggagtc tgggggagga ttggtgcagg ctgggggctc tctgagactc	60
tcctgtgcag cctctggacg caccttcagt agctatgcc a tgggctggtt ccgccaggct	120
ccagggaagg agcgcgagtt ggtcgcagct attagtaatg gtggtagcgc atactatgca	180
gactctgtga agggccgatt caccatctcc agagacaacg ccaggaacac ggtgtatctg	240
caaacgaaca gcctgaaacc tgaggacacg gccgtttatt actgcgcagc tagaagaggg	300
agtcctact acactaatcg tattgactgg ccctactggg gccaggggac ccaggtcacc	360
gtctcctcag cggccgcata cccgtacgac gttccggact acggttccca ccaccatcac	420
catcactag	429

<210> 848

<211> 429

<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 848
caggtgcagc tgcaggagtc tgggggaggc ttggtgcagg ctggggggtc tctgagactc 60
tcctgtgcag cctctggacg caccttcagt acgtatgcc a tgggctggtt ccgccaggct 120
ccagggaagg agcgcgagtt ggtcgcagct attagtaatg gtggtagcgc atactatgca 180
gactctgtga agggccgatt caccatctcc agagacaacg ccaggaacac ggtgtatctg 240
caaacgaaca gcctgaaacc tgaggacacg gccgtttatt actgcgcagc tagaagaggg 300
agtcctact acactaatcg tattgactgg ccctactggg gccaggggac ccaggtcacc 360
gtctcctcag cggccgcata cccgtacgac gttccggact acggttccca ccaccatcac 420
catcactag 429

<210> 849
<211> 429
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 849
caggtgcagc tgcaggagtc tgggggagga ttggtagagg ctgagggctc tctgagactc 60
tcctgtatag cctctggacg caccttcggt acctatgcc a tgggctggtt ccgccaggct 120
ccaggaaaagg agcgcgagtt ggtcgcagct attagtagtg gtggtagcgc atattatgca 180
gactctgtga agggccgatt caccatctcc agagacaacg ccaggaacac ggtgtatctg 240
caaacgaaca gcctgaaacc tgaggacacg gctgtttatt actgcgcagc tagaagaggg 300
agtcctact acactaatcg tattgattgg ccctactggg gccaggggac ccaggtcacc 360
gtctcctcag cggccgcata cccgtacgac gttccggact acggttccca ccaccatcac 420
catcactag 429

<210> 850
<211> 429
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 850
caggtgcagc tgcaggagtc tggaggagga ttggtagagg ctgagggctc tctgagactc 60
tcctgtatag cctctggacg caccttcggt acctatgcca tgggctgggt ccgccaggct 120
ccaggaaagg agcgcgagtt ggtcgcagct attagtactg gtggtagcac atactatgca 180
gactctgtga agggccgatt caccatctcc agagacaacg ccaggaacac ggtgtatctg 240
caaacgaaca gcctgaaacc tgaggacacg gccgtttatt actgcgcagc tagaagaggt 300
agtgccctact acactaatca cgttgactgg ccctactggg gccaggggac ccaggtcacc 360
gtctcctcag cggccgcata cccgtacgac gttccggact acggttccca ccaccatcac 420
catcactag 429

<210> 851
<211> 429
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 851
caggtgcagc tgcaggagtc tgggggagga ttggtagagg ctgagggctc tctgagactc 60
tcctgtgcag cctctggacg cgccttcggt agctatgcca tgggctgggt ccgccaggct 120
ccaggcttgg agcgcgagct ggtcgcagct attagtagtg gtggtaccac atactatgca 180
gactctgtga agggccgatt caccatctcc agagacaacg ccaggaacac ggtgtatttg 240
caaacgaaca gcctgaaacc tgaggacacg gccgtttatt actgcgcagc tagaacaggg 300
ggtgccgcct acactaggcg tattgactgg ccctactggg gccaggggac ccaggtcacc 360
gtctcctcag cggccgcata cccgtacgac gttccggact acggttccca ccaccatcac 420

catcactag 429

<210> 852
<211> 429
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 852
caggtgcagc tgcaggagtc tgggggagga ttggtagagg ctgagggctc tctgagactc 60
tcctgtgcag cctctggacg caccttcggt agttatgcca tgggctgggt ccgccaggct 120
ccaggaaagg agcgcgagtt ggtcgcagct attagtagtg gtggtagcac attgtatgca 180
gactctgtga agggccgatt caccatctcc agagacaacg ccaagaacac ggtgtatctg 240
caaatgaaca gcctgaaacc tgaggacacg gccgtttatt actgcgcagc tagaagtggg 300
ggtgcctact acactgcccg tgttgactgg ccctactggg gccaggggac ccaggtcacc 360
gtctcctcag cggccgcata cccgtacgac gttccggact acggttccca ccaccatcac 420
catcactag 429

<210> 853
<211> 429
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 853
caggtgcagc tgcaggagtc tgggggagga ttggtagagg ctgagggctc tctgagactc 60
tcctgtgcag cctctggacg caccttcggt agttatgcca tgggctgggt ccgccaggct 120
ccaggaaagg agcgcgagtt ggtcgcagct attagtagtg gtggtagcac attgtatgca 180
ggctctgtga agggccgatt caccatttcc aaagacaacg ccaagaacac ggtgtatctg 240
caaatgaaca gcctgaaacc tgaggacacg gccgtttatt actgcgcagc tagaagtggg 300

ggcgcctact acactgcccc tgttgactgg ccctactggg gccagggggac ccaggtcacc	360
gtctcctcag cggccgcata cccgtacgac gttccggact acggttccca ccaccatcac	420
catcactag	429

<210> 854
 <211> 429
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic polymer.

<400> 854	
caggtgcagc tgcaggagtc tgggggagga ttggtagagg ctgagggctc tccgagactc	60
tcctgtgcag cctctggacg caccttcggt agctatgcc a tgggctgggt ccgccaggct	120
ccaggaaagg agcgcgagtt ggtcgcagct attagtagtg gtggtattac atactatgca	180
gactctgtga agggccgatt caccatctcc agagacaacg ccaagaacac ggtgtatctg	240
caaatgaaca gcctgaaacc tgaggacacg gccgtttatt actgcgcagc tagaagtggg	300
agtcgcctact acactacccg tgttgactgg ccctactggg gccagggggac ccaggtcacc	360
gtctcctcag cggccgcata cccgtacgac gttccggact acggttccca ccaccatcac	420
catcactag	429

<210> 855
 <211> 429
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic polymer.

<400> 855	
caggtgcagc tgcaggagtc tgggggagga ttggtagagg ctgagggctc tctgagactc	60
tcctgtgcag cctctggacg caccttcggt agctatgcc a tgggctgggt ccgccaggct	120
gcaggaaagg agcgcgagtt ggtcgcagct attagtgtg gtggtagcac actctatgct	180
gacaatgtga agggccgatt caccatctcc agagacaacg ccaggaacac ggtgtatctg	240

ctatcgaaca gcctgaagcc tgaggacacg gccgtttatt actgcgcagc tagaagagga	300
agtgccctact acactaatca tattgactgg ccctactggg gccagggggac ccaggtcacc	360
gtctcctcag cggccgcata cccgtacgac gttccggact acggttccca ccaccatcac	420
catcactag	429

<210> 856
 <211> 429
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic polymer.

<400> 856	
caggtgcagc tgcaggagtc tggaggaggc ttggtgcagc ctggggggttc tctgagactc	60
tcctgtgcag cctctggacg caccttcggt agctatgcca tgggctgggtt ccgccaggct	120
gcaggaaaagg agcgcgagtt ggtcgcagct attagtgtctg gtggtagcac actctatgct	180
gacaatgtga agggccgatt caccatctcc agagacaacg ccaggaacac ggtgtatctg	240
ctatcgaaca gcctgaagcc tgaggacacg gccgtttatt actgcgcagc tagaagagga	300
agtgccctact acactaatca tattgactgg ccctactggg gccagggggac ccaggtcacc	360
gtctcctcag cggccgcata cccgtacgac gttccggact acggttccca ccaccatcac	420
catcactag	429

<210> 857
 <211> 429
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic polymer.

<400> 857	
caggtgcagc tgcaggagtc tgggggaggc ttggtgcagg ctgggggggtc tctgagactc	60
tcctgcgcag cctctggaaa catcgacagt atcgcttcca tgggctggta ccgccaggct	120

ccaggggaagc agcgcgaatt ggtcgcagcg attagtgttg gtggtagcac atactatgca	180
gactctgtga agggccgatt caccatctcc agagacaacg ccaggaacac ggtgtatctg	240
caaacgaaca gcctgaagcc tgaggacacg gccgtttatt actgcgcagc tagaagaggg	300
agtgcctact acactagtcg tattgactgg ccctactggg gccaggggac ccaggtcacc	360
gtctcctcag cggccgcata cccgtacgac gttccggact acggttccca ccaccatcac	420
catcactag	429

<210> 858
 <211> 429
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic polymer.

<400> 858	
caggtgcagc tgcaggagtc tggaggagga ttggtgcagg ctgagggctc tctgagactc	60
tcctgtgcag cctctggacg caccttcggt agctatgcc a tgggctggtt ccgccaggct	120
ccaggggaagg agcgcgagtt ggtcgcaggt attagtagtg gtggtattac aaactatgca	180
cactctgtga agggccgatt caccatctcc agagacattg acaagaacac ggtgttcctg	240
caaatgaaca gcctgaaacc tgaggacacg gccgtttatt actgtgcagc tagaagtggg	300
ggtgcctact acacttcccg tgttgactgg ccctactggg gccaggggac ccaggtcacc	360
gtctcctcag cggccgcata cccgtacgac gttccggact acggttccca ccaccatcac	420
catcactag	429

<210> 859
 <211> 429
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic polymer.

<400> 859	
caggtgcagc tgcaggagtc tgggggagga ttggtgcagg ctggggactc tctgagactc	60

tcctgtgcag cctctggacg cactttcagt agctatgtca tgggctggtt ccgccagggt	120
ccagggaagc agcgcgagtt ggtcgcagcg attactagtgt gtcttagcac atactatgca	180
gactccctga agggccgatt caccatctcc agagacaacg ccaagaacac gatgtatctg	240
caaatgaaca gcctgaaact tgaggacacg gccgtttatt actgtgcagc caggagggt	300
ggaggatatat ggactagttc tactcagtat gactactggg gccaggggac ccaggtcacc	360
gtctcctcag cggccgcata cccgtacgac gttccggact acggttccca ccaccatcac	420
catcactag	429

<210> 860
 <211> 429
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic polymer.

<400> 860	
caggtgcagc tgcaggagtc tggaggagga ttggtgtagg ctgggggctc tctgagactc	60
tcctgtgcag cctctggacg caccttcagt gattatgcc a tgggctggtt ccgccaggct	120
ccagggaagg agcgtgagtt tatagcaggt attagttggg ggggttcaag cacatactat	180
gcagactccg tgaagggccg attcaccatc tccagagaca acgccaagaa cacgatgtat	240
ctgcaaatga acagcctgaa acctgaggac acggccgttt attactgtgc agcgcgctta	300
agtgggtgtaa gtagatccga ccggccgtat gactactggg gccaggggac ccaggtcacc	360
gtctcctcag cggccgcata cccgtacgac gttccggact acggttccca ccaccatcac	420
catcactag	429

<210> 861
 <211> 405
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic polymer.

<400> 861
caggtgcagc tgcaggagtc tgggggaggc ttggtgcagg ctgggggggtc tctgagactc 60
tcctgtgcag tctctggaag actcttcagt gccaatacca tgggctggta ccgccaggct 120
ccagggaagc ggcgcgagtt ggtcgcgact attttgagta gtggtagcac aaactatgca 180
gactccgtga agggccgatt caccatctcc agagacgacg gcaagaacac ggtgtatctg 240
caaatgaaca gcctgaaacc tgacgacaca gccgtctatt actgtaattt cgcccccccg 300
cctgaggggt actggggcca ggggaccag gtcaccgtct cctcagcggc cgcataccg 360
tacgacgttc cggactacgg ttcccaccac catcaccatc actag 405

<210> 862
<211> 405
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 862
caggtgcagc tgcaggagtc tgggggaggc ttggtgcagg ctgggggggtc tctgagactc 60
tcctgtgcag tctctggaag actcttcagt gccaatacca tgggctggta ccgccaggct 120
ccagggaagc ggcgcgagtt ggtcgcgact attttgagta gcggtagcac aaactatgca 180
gactccgtga agggccgatt caccatctcc agagacgacg ccaagaacac ggtgtatctg 240
caaatgaaca gcctgaaacc tgaggacact gccgtctatt actgtaattt agcccccccg 300
cctgaggggt actggggcca ggggaccag gtcaccgtct cctcagcggc cgcataccg 360
tacgacgttc cggactacgg ttcccaccac catcaccatc actag 405

<210> 863
<211> 405
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 863
caggtgcagc tgcaggagtc tgggggaggc ttggtgcagg ctgggggggtc tctgagactc 60
tcctgtgcag tctctggaat tatctccagt atgaatgcc a tgggctggta ccgccaggct 120
ccagggaagc ggcgcgagtt ggtcgcaggc cttggtagtg gggtttagtac aacttatgca 180
gacgccgtga agggccgctt caccatctcc agagacaacg ccaagaacac gctgtatctg 240
caaatgaaca gcctgaaacc tgaggacaca gccgtctatt actgtaatcg atggcccccc 300
ccgtatgact actggggcca ggggaccag gtcaccgtct cctcagcggc cgcatacccg 360
tacgacgttc cggtactagg ttcccaccac catcaccatc actag 405

<210> 864
<211> 423
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 864
caggtgcagc tgcaggagtc tgggggaggc ttggtgcagg ctgggggggtc tctgagactc 60
tcctgtgcag cctctggaag catcttcagt agcaatgcc a tgggctggta ccgccaggcc 120
gcagggaagc ggcgcgagtt ggtcgcaggc atccgtagtg atggtaacac aaactatgta 180
gactccgtga agggccgatt caccatctcc agagaccgtg ccaagaacac ggtgtatctt 240
cagatgacca gcctaaaacc tgaggacacg gccgtctatt actgtaacta ctggcccccg 300
cccctacgac aaggggggga ctatgcctac tggggccagg ggaccaggt caccgtctcc 360
tcagcggccg catacccgta cgacgttccg gactacggtt cccaccacca tcaccatcac 420
tag 423

<210> 865
<211> 429
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 865
caggtgcagc tgcaggagtc tgggggaggc ttggtgcagg ctggggggtc tctgagactc 60
tcctgtgcag cctctggacg cacctttagt atgtatgcc a taggctggtt ccgccaggct 120
ccagggaagg agcgcgagtt ggtcgcaagt attagtagtg gtggtagcac aaactatgca 180
gactctgtga agggccgatt caccatctcc agagacaacg ccgagaaaac ggtgtatctg 240
caaatgatga gcctagaacc tgaagctacg ggtgtttatt actgtgcagc acgagacgga 300
tctgcattgt ataccgcaca tagcgactgg gactattggg gccaggggac ccaggtcacc 360
gtctcctcag cggccgcata cccgtacgac gttccggact acggttccca ccaccatcac 420
catcactag 429

<210> 866
<211> 429
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 866
caggtgcagc tgcaggagtc tgggggagga ttggtgcagc ctgggggactc tctgagactc 60
tcctgtgcag cctctgaacg cacctttagt atgtatgcc a taggctggtt ccgccaggct 120
ccagggaagg agcgcgagtt ggtcgcaggt attagtagtg gtggtagcac aaactatgca 180
gactctgtga agggccgatt caccatctcc agagacaacc ccaagaaaac ggtgtatctg 240
caaatgatga gcctagaacc tgaagacacg ggcgtttatt actgtgcagc acgatccgga 300
tctgcatact ttagtggacg ttactactgg aactattggg gccaggggac ccaggtcacc 360
gtctcctcag cggccgcata cccgtacgac gttccggact acggttccca ccaccatcac 420
catcactag 429

<210> 867
<211> 420
<212> DNA
<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 867

caggtgcagc tgcaggagtc tgggggaggc ttggtgcagg ctgggggggtc tctgagactc	60
tcctgtgtag tctctggaac catcttgagt agcaattcca tgggctggta ccgccaggct	120
ccagggaagc gccgcgaatt ggtcgcaagt attagtagcg atggtagcac caactatgca	180
gactccgtga agggccgatt caccatctcc agagacaatg ccaagagcac ggtgtttctg	240
caaatgaaca gcctgaaacc tgaggacacg gccgtctatt actgtaattt ccatcccccc	300
gtcgttcggg attgggggga tacctactgg ggccagggga cccaggtcac cgtctcctca	360
gcggccgcat acccgtaga cggtccggac tacggttccc accaccatca ccatcactag	420

<210> 868

<211> 411

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 868

caggtgcagc tgcaggagtc tgggggaggc ttggtgcagg ctgggggggtc tctgagactc	60
tcctgtgcag cctctggaag catcttcgtt ggcaatgcca tgggctggta ccgccaggct	120
ctagggaacc agcgcgagtt ggtcgctggc attaccagtg atggtaccac atactatcca	180
gactccgtga agggccgatt caccatctcc agagacaatg acaagaacac gatatatctg	240
caaatgaaca gtctgaaacc tgaggacacg gccgtctatt actgtaattt atggcccccg	300
cgtataggct tcgcttcctg gggccagggg acccaggtca ccgtctcctc agcggccgca	360
tacccgtacg acgttccgga ctacggttcc caccaccatc accatcacta g	411

<210> 869

<211> 411

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 869

caggtgcagc tgcaggagtc tgggggaggc ttggtgcggg ctgggggggtc tctgagactc	60
tcctgtgcag cctctggaag catcttcgtt ggcaatgcca tgggctggta ccgccaggct	120
ctaggggaacc agcgcgagtt ggtcgcctggc attaccagtg atggtaccac atactatcca	180
gactccgtga agggccgatt caccatctcc agagacaatg acaagaacac gatatatctg	240
caaatgaaca gtctgaaacc tgaggacacg gccgtctatt actgtaattt atggcccccg	300
cgtataggct tcgcttcctg gggccagggg acccaggtca ccgtctcctc agcggccgca	360
tacccgtacg acgttccgga ctacggttcc caccaccatc accatcacta g	411

<210> 870

<211> 411

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 870

caggtgcagc tgcaggagtc tgggggaggc ttggtgcaga ctgggggggtc tctgagactc	60
tcctgtgcag cctctggaag catcttcgtt ggcaatgcca tgggctggta ccgccaggct	120
ctaggggaacc agcgcgagtt ggtcgcctggc attaccagtg atggtaccac atactatcca	180
gactccgtga agggccgatt caccatctcc agagacaatg acaagaacac gatatatctg	240
caaatgaaca gtctgaaacc tgaggacacg gccgtctatt actgtaattt atggcccccg	300
cgtataggct tcgcttcctg gggccagggg acccaggtca ccgtctcctc agcggccgca	360
tacccgtacg acgttccgga ctacggttcc caccaccatc accatcacta g	411

<210> 871

<211> 411

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 871

```
caggtgcagc tgcaggagtc tggaggaggc ttggtgcaga ctgggggggtc tctgagactc      60
tcctgtgcag cctctggaag catcttcgtt ggcaatgcc a tgggctggta ccgccaggct      120
ctaggggaacc agcgcgagtt ggtcgcctggc attaccagtg atggtaccac atactatcca      180
gactccgtga agggccgatt caccatctcc agagacaatg acaagaacac gatatatctg      240
caaatgaaca gtctgaaacc tgaggacacg gccgtctatt actgtaattt atggcccccg      300
cgtataggct tcgcttcctg gggccagggg acccaggtca ccgtctcctc agcggccgca      360
taccctacg acgttccgga ctacggttcc caccaccatc accatcacta g      411
```

<210> 872

<211> 411

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 872

```
caggtgcagc tgcaggagtc tgggggaggc ttggtgcagg ctgggggggtc tctgagactc      60
tcctgtgtag tctctggaag cttcgacagt cgcaatgcc a tggcctggta ccgccaggct      120
ctaggggaagg agcgcgtgtg ggtcgcctggc attatcagt atggtagcac aaactatgca      180
gacgccgtga agggccgatt caccatctcc agagacaatg acaagaatac ggtgtatctg      240
caaatgaaca gtctgaaacc tgaggacacg gccgtctatt actgcaatgc atggcccccg      300
cgtataggct tgggttcctg gggccagggg acccaggtca ccgtctcctc agcggccgca      360
taccctacg acgttccgga ctacggttcc caccaccatc accatcacta g      411
```

<210> 873

<211> 411

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 873
caggtgcagc tgcaggagtc tgggggaggc ttggtgcagg ctggggggtc tctgagactc 60
tcgtgtgcag cctctggaag catctccatg ctcaatagta tgggctggta ccgccaggct 120
ctagggaagc agcgcgagtt cgtcgtggc attaccagtg gtgggcgcac aaactatgcg 180
gactccgtga agggccgatt cgccatctcc agagacaatg acaagaacac ggtgtatctg 240
caaatgaaca gtctgaaacc tgaggacacg gccgtctatt actgtaatac atggcccccg 300
cgtatagcgt tcgattcctg gggccagggg acccaggtca ccgtctcctc agcggccgca 360
taccgtacg acgttccgga ctacggttcc caccaccatc accatcacta g 411

<210> 874
<211> 408
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 874
caggtgcagc tgcaggagtc tgggggaggc ttggtgcagg ctggggggtc tctgagactc 60
tcctgtgcag cctctggaac catgtccagt atcaatgcca tgggctggta ccgccaggct 120
ccagggaagc agcgcgagtt ggtcgcaggt attctaagt atggtaccac aaagtatggt 180
gaatccgtga agggccgatt caccatctcc agagacaatg ccaagaatac ggtgcatctg 240
caaatgaaca gcctgaaagt tgaggacacg gccgtctatt attgtaattt ttttcccccc 300
cctgtccctg cttcctgggg ccaggggacc caggtcaccg tctcctcagc ggccgcatac 360
ccgtacgacg ttccggacta cggttcccac caccatcacc atcactag 408

<210> 875
<211> 405
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 875
caggtgcagc tgcaggagtc tgggggaggc ttggtgcagg ctgggggggtc tctgagactc 60
tcgtgtgcag cctctggaag cttcgacagt cgcaatgcc a tgggctggta ccgccaggct 120
ccagggaagc gccgcgagtg ggtcgcaact attactactg atggtcgcac aaactatgca 180
gactccgtaa aggcccgatt caccgtctcc agagacaatg ccaagaacac ggtgtatctg 240
cagatgaaca gcctgaaacc agacgacacg gccgtctatt actgtaatgc agcgcctccg 300
atcttcaatt cctggggcca ggggaccag gtcaccgtct cctcagcggc cgcatacccg 360
tacgacgttc cggactacgg ttcccaccac catcaccatc actag 405

<210> 876
<211> 405
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 876
caggtgcagc tgcaggagtc tgggggaggc ttggtgcagg ctgggggggtc tctgagactc 60
tcgtgtgcag cctctggagg cttcgacagt cgcaatgcc a tgggctggta ccgccaggct 120
ccagggaagc gccgcgagtg ggtcgcaact attactagt atggtcgcac aaactatgca 180
gactccgtga aggcccgatt caccatctcc agagacaatt ccaagaacac ggtgtatctg 240
cagatgaaca gcctgaaacc agaggacacg gccgtctatt actgtaatgc agcgcctccg 300
atcttcggtt cctggggcca ggggaccag gtcaccgtct cctcagcggc cgcatacccg 360
tacgacgttc cggactacgg ttcccaccac catcaccatc actag 405

<210> 877
<211> 405
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 877

caggtgcagc tgcaggagtc tggaggaggc ttggtgcagg ctgggggggtc tctgagactc	60
tcgtgtgcag cctctggaag catcgacagt cgcaatacca tgggctggta ccgccaggct	120
ccagggaagc gccgcgagtg ggtcgcaact attactactg gtggtcgcac aaactatgca	180
gactccgtga aggcccgatt caccatctcc agagacaatg ccaagaacac ggtgtatctg	240
cagatgaaca gcctgaaacc agaggacacg gccgtctatt actgtaatct agcgcctccg	300
atcttcaatt cctggggcca ggggaccag gtcaccgtct cctcagcggc cgcatacccg	360
tacgacgttc cggactacgg ttcccaccac catcaccatc actag	405

<210> 878
 <211> 405
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic polymer.

<400> 878	
caggtgcagc tgcaggagtc tggaggaggc ttggtgcggg ctgggggggtc tctgagactc	60
tcgtgtgcag cctctggaac gttcgatagt cgcaatgcc a tgggctggta ccgccaggct	120
ccagggaagc gccgcgagtg ggtcgcgact attactactg atggtcgcac aaactatgca	180
gactccgtga aggcccgatt caccatctcc agagacaatg ccaagaacac ggtgtatctg	240
cagatgaaca gcctgaaacc agaggacacg gccgtctatt actgtaatgc ggcgcctccg	300
atcttcggtt cctggggcca ggggaccag gtcaccgtct cctcagcggc cgcatacccg	360
tacgacgttc cggactacgg ttcccaccac catcaccatc actag	405

<210> 879
 <211> 405
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic polymer.

<400> 879	
caggtgcagc tgcaggagtc tgggggaggc ttggtacagg ctgggggggtc tctgagactc	60

tcgtgtgcag cctctggaag catcgacatt cgcaatgcc a tgggctggta ccgccaggct	120
ccggggacgc gccgcgagtg ggtcgcaact attactacgg atggtcgcac aaactatgca	180
gactccgtga agggccgatt caccatctcc agagacaatg ccaagaacac ggtgtatctg	240
cagatgaaca gcctgaaacc agaggacacg gccgtctatt actgtaattt agcgcctccg	300
atcttcggtt cctggggcca ggggaccag gtcaccgtct cctcagcggc cgcatacccg	360
tacgacgttc cggactacgg ttcccaccac catcaccatc actag	405

<210> 880
 <211> 405
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic polymer.

<400> 880	
caggtgcagc tgcaggagtc tggggggggc ttggtgcggg ttgggggggc tctgagactc	60
tcgtgtgcag tttctggaag cttcgacagt cgcaacagca tgggctggta ccgccaggct	120
ccagggaagc gccgcgagtg ggtcgcaact attactagtg gtagtcgcac aaactatgca	180
gactccgtga agggccgatt caccatctcc agagacaatg ccaagaacac ggtgtatctg	240
cagatggaca gcctgaaacc agaggacacg gccgtctatt actgtaatgc agcgcctccg	300
atcttcaatt cctggggcca ggggaccag gtcaccgtct cctcagcggc cgcatacccg	360
tacgacgttc cggactacgg ttcccaccac catcaccatc actag	405

<210> 881
 <211> 405
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic polymer.

<400> 881	
caggtgcagc tgcaggagtc tggggggaggc ttggtgcagg ctgggggggc tctgagactc	60

tcctgtacag tcgctgaaag catcgacgtt cgcaatgcca tgggctggta ccgccaggct	120
ccagggaagc gccgcgagtg ggtcgcaact attactactg gtggacgcac aaactatgca	180
gactccgtga agggccgatt caccatctcc agagacaatg ccaagaacac ggtgtatcta	240
cagatgaaca gcctgaaacc agaggacacg gccgtctatt attgtaatgc agcgcctccg	300
atcctcaatt cctggggcca ggggaccag gtcaccgtct cctcagcggc cgcatacccg	360
tacgacgttc cggactacgg ttcccaccac catcaccatc actag	405

<210> 882
 <211> 414
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic polymer.

<400> 882	
caggtgcagc tgcaggagtc tggaggaggc ttggtgcagg ctggggggtc tctgagactc	60
tcctgtgtag cctctggaac catcttcagt agcggagcca tggccatggg ctggtaccgc	120
caggctccag ggaaacagcg cgagtgggtc gcaggtatta ctggtagtcg tacaacaacc	180
tatgcagact ccgtgaaggg ccgattcacc atctccagag acaacgccga gaacacggtt	240
tttctgcaaa tgaacaacct gaaatctgaa gacacagccg tctattactg taatctatgg	300
ccaccctcga ggcccgaaca ctgggggccag gggaccagg tcaccgtctc ctcagcggcc	360
gcatacccggt acgacgttcc ggactacggt tcccaccacc atcaccatca ctag	414

<210> 883
 <211> 405
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic polymer.

<400> 883	
caggtgcagc tgcaggagtc tgggggaggc ttggtgcagg ctggggggtc tctgagactc	60
tcctgtgtag cctctggaac catcagtagt ggagccatgg gctggtaccg ccaggttcca	120

gggaagcagc gcgagtgggt cgcaggtatt actggtagtc gtacaacaat gtatacagaa 180
 tccgtgaagg gccgattcac catctccaga gacaacgccg agaacacggt ttttctgcaa 240
 atgaacaacc tgaaatctga agacacagcc gtctattact gtaatctatg gccaccctcg 300
 aggcccgact actgggggtca ggggaccag gtcaccgtct cctcagcggc cgcatacccg 360
 tacgacgttc cggactacgg ttcccaccac catcaccatc actag 405

<210> 884
 <211> 411
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic polymer.

<400> 884
 caggtgcagc tgcaggagtc tggaggagga ttggtgcagg ctgggggctc tctgagactc 60
 tcctgtgcag cctctagaag catcttcagt atcggcacca tgggctggta ccgccaggct 120
 ccagggaagc ggcgcgagtt ggtcgcattt attactgttg atcataatac atactataca 180
 gactccgtga aaggccgatt caccatctcc acagagaatg acaagaacac ggtgtatctg 240
 caaatgaaca gcctgaaacc tgaagatacg gccgtctatt actgtaatcg agctcctcca 300
 tcgaccgacg gggatcgatg gggccagggg acccagggtca ccgtctcctc agcggccgca 360
 taccctgtacg acgttccgga ctacgggtcc caccaccatc accatcacta g 411

<210> 885
 <211> 121
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic polymer.

<400> 885

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Arg Tyr
20 25 30

Trp Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
35 40 45

Ala Asn Ile Lys Gln Asp Gly Ser Glu Lys Tyr Tyr Val Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Arg Glu Gly Gly Trp Phe Gly Glu Leu Ala Phe Asp Tyr Trp Gly
100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 886

<211> 108

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 886

Glu Ile Val Leu Thr Gln Ser Pro Gly Thr Leu Ser Leu Ser Pro Gly
1 5 10 15

Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Arg Val Ser Ser Ser
20 25 30

Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu
35 40 45

Ile Tyr Asp Ala Ser Ser Arg Ala Thr Gly Ile Pro Asp Arg Phe Ser
50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Arg Leu Glu
65 70 75 80

Pro Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Gly Ser Leu Pro
85 90 95

Trp Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
100 105

<210> 887

<211> 448

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 887

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Asp Ser
20 25 30

Trp Ile His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
35 40 45

Ala Trp Ile Ser Pro Tyr Gly Gly Ser Thr Tyr Tyr Ala Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Ala Asp Thr Ser Lys Asn Thr Ala Tyr
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys

85

90

95

Ala Arg Arg His Trp Pro Gly Gly Phe Asp Tyr Trp Gly Gln Gly Thr
 100 105 110

Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro
 115 120 125

Leu Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly
 130 135 140

Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Asn
 145 150 155 160

Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala Val Leu Gln
 165 170 175

Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser
 180 185 190

Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His Lys Pro Ser
 195 200 205

Asn Thr Lys Val Asp Lys Lys Val Glu Pro Lys Ser Cys Asp Lys Thr
 210 215 220

His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser
 225 230 235 240

Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg
 245 250 255

Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His Glu Asp Pro
 260 265 270

Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala
 275 280 285

Lys Thr Lys Pro Arg Glu Glu Gln Tyr Ala Ser Thr Tyr Arg Val Val
290 295 300

Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr
305 310 315 320

Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr
325 330 335

Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu
340 345 350

Pro Pro Ser Arg Glu Glu Met Thr Lys Asn Gln Val Ser Leu Thr Cys
355 360 365

Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser
370 375 380

Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp
385 390 395 400

Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser
405 410 415

Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala
420 425 430

Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
435 440 445

<210> 888

<211> 214

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 888

Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
1 5 10 15

Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Asp Val Ser Thr Ala
20 25 30

Val Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile
35 40 45

Tyr Ser Ala Ser Phe Leu Tyr Ser Gly Val Pro Ser Arg Phe Ser Gly
50 55 60

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
65 70 75 80

Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Tyr Leu Tyr His Pro Ala
85 90 95

Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg Thr Val Ala Ala
100 105 110

Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu Lys Ser Gly
115 120 125

Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro Arg Glu Ala
130 135 140

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> 889
<211> 450
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 889

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Ile Tyr Pro Ser Gly Gly
1 5 10 15

Ile Thr Phe Tyr Leu Gly Thr Val Thr Thr Val Asp Tyr Trp Asp Tyr
20 25 30

Phe Pro Glu Pro Val Thr Val Ser Tyr Ile Cys Asn Val Asn His Lys
35 40 45

Pro Ser Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Ser Thr Tyr Arg
50 55 60

Val Val Ser Val Leu Thr Val Tyr Thr Leu Pro Pro Ser Arg Asp Glu
65 70 75 80

Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Leu Val Gln Pro Gly Gly
85 90 95

Ser Leu Arg Leu Ala Asp Thr Val Lys Gly Arg Phe Thr Ile Gly Gln
100 105 110

Gly Thr Leu Val Thr Val Ser Ser Trp Asn Ser Gly Ala Leu Thr Ser

115

120

125

Gly Val Asn Thr Lys Val Asp Lys Lys Val Glu Pro Glu Val Thr Cys
 130 135 140

Val Val Val Asp Val Ser Val Leu His Gln Asp Trp Leu Asn Gly Lys
 145 150 155 160

Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Ser Lys Leu Thr Val Asp
 165 170 175

Lys Ser Arg Trp Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Arg
 180 185 190

Asp Asn Ser Lys Asn Thr Leu Tyr Ala Ser Thr Lys Gly Pro Ser Val
 195 200 205

Phe Pro His Thr Phe Pro Ala Val Leu Gln Ser Ser Lys Ser Cys Asp
 210 215 220

Lys Thr His Thr Cys Pro His Glu Asp Pro Glu Val Lys Phe Asn Trp
 225 230 235 240

Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Val Lys Gly Phe Tyr
 245 250 255

Pro Ser Asp Ile Gln Gln Gly Asn Val Phe Ser Cys Ser Val Ser Tyr
 260 265 270

Ile Met Met Trp Val Arg Gln Ala Leu Gln Met Asn Ser Leu Arg Ala
 275 280 285

Glu Asp Leu Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Leu Tyr Ser
 290 295 300

Leu Ser Ser Val Val Thr Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly
 305 310 315 320

Tyr Val Asp Gly Val Glu Val His Asn Ala Leu Pro Ala Pro Ile Glu
325 330 335

Lys Thr Ile Ser Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Met His
340 345 350

Glu Ala Leu His Asn His Tyr Thr Pro Gly Lys Gly Leu Glu Trp Val
355 360 365

Ser Ser Thr Ala Val Tyr Tyr Cys Ala Arg Ile Lys Gly Thr Ala Ala
370 375 380

Leu Gly Cys Leu Val Lys Val Pro Ser Ser Ser Leu Gly Thr Gln Thr
385 390 395 400

Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Thr Lys Pro Arg Glu
405 410 415

Glu Gln Tyr Asn Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Glu Asn
420 425 430

Asn Tyr Lys Thr Thr Pro Pro Val Gln Lys Ser Leu Ser Leu Ser Pro
435 440 445

Gly Lys
450

<210> 890
<211> 216
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 890

Gln Ser Ala Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln

1	5	10	15
Ser Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr	20	25	30
Asn Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu	35	40	45
Met Ile Tyr Asp Val Ser Asn Arg Pro Ser Gly Val Ser Asn Arg Phe	50	55	60
Ser Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu	65	70	75
Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Ser Ser	85	90	95
Ser Thr Arg Val Phe Gly Thr Gly Thr Lys Val Thr Val Leu Gly Gln	100	105	110
Pro Lys Ala Asn Pro Thr Val Thr Leu Phe Pro Pro Ser Ser Glu Glu	115	120	125
Leu Gln Ala Asn Lys Ala Thr Leu Val Cys Leu Ile Ser Asp Phe Tyr	130	135	140
Pro Gly Ala Val Thr Val Ala Trp Lys Ala Asp Gly Ser Pro Val Lys	145	150	155
Ala Gly Val Glu Thr Thr Lys Pro Ser Lys Gln Ser Asn Asn Lys Tyr	165	170	175
Ala Ala Ser Ser Tyr Leu Ser Leu Thr Pro Glu Gln Trp Lys Ser His	180	185	190
Arg Ser Tyr Ser Cys Gln Val Thr His Glu Gly Ser Thr Val Glu Lys	195	200	205

Thr Val Ala Pro Thr Glu Cys Ser
210 215

<210> 891
<211> 123
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 891

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser
1 5 10 15

Ser Val Lys Val Ser Cys Lys Thr Ser Gly Asp Thr Glu Ser Thr Tyr
20 25 30

Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
35 40 45

Gly Gly Ile Ile Pro Ile Glu Gly Lys Ala His Tyr Ala Gln Lys Phe
50 55 60

Gln Gly Arg Val Thr Ile Thr Ala Asp Glu Ser Thr Ser Thr Ala Tyr
65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Phe Cys
85 90 95

Ala Arg Lys Phe His Glu Val Ser Gly Ser Pro Phe Gly Met Asp Val
100 105 110

Trp Gly Gln Gly Thr Thr Val Thr Val Ser Ser
115 120

<210> 892

<211> 106
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 892

Glu Ile Val Leu Thr Gln Ser Pro Ala Thr Leu Ser Leu Ser Pro Gly
1 5 10 15

Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Ser Ser Tyr
20 25 30

Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile
35 40 45

Tyr Asp Ala Ser Asn Arg Ala Thr Gly Ile Pro Ala Arg Phe Ser Gly
50 55 60

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Glu Pro
65 70 75 80

Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Arg Ser Asn Trp Pro Thr
85 90 95

Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
100 105

<210> 893
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 893

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asp Tyr
20 25 30

Gly Phe Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
35 40 45

Gly Trp Ile Thr Ala Tyr Asn Gly Asn Thr Asn Tyr Ala Gln Lys Leu
50 55 60

Gln Gly Arg Val Thr Met Thr Thr Asp Thr Ser Thr Ser Thr Val Tyr
65 70 75 80

Met Glu Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Arg Asp Tyr Phe Tyr Gly Met Asp Val Trp Gly Gln Gly Thr Thr
100 105 110

Val Thr Val Ser Ser
115

<210> 894
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 894

Glu Ile Val Leu Thr Gln Ser Pro Ala Thr Leu Ser Leu Ser Pro Gly
1 5 10 15

Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Ser Ser Tyr
20 25 30

Leu Val Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile

35

40

45

Tyr Asp Ala Ser Asn Arg Ala Thr Gly Ile Pro Ala Arg Phe Ser Gly
 50 55 60

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Glu Pro
 65 70 75 80

Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Arg Ser Asn Trp Pro Arg
 85 90 95

Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105

<210> 895

<211> 118

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 895

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr
 20 25 30

Asp Val His Trp Val Arg Gln Ala Pro Gly Gln Arg Leu Glu Trp Met
 35 40 45

Gly Trp Leu His Ala Asp Thr Gly Ile Thr Lys Phe Ser Gln Lys Phe
 50 55 60

Gln Gly Arg Val Thr Ile Thr Arg Asp Thr Ser Ala Ser Thr Ala Tyr
 65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Arg Glu Arg Ile Gln Leu Trp Phe Asp Tyr Trp Gly Gln Gly Thr
100 105 110

Leu Val Thr Val Ser Ser
115

<210> 896
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 896

Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
1 5 10 15

Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Gly Ile Ser Ser Trp
20 25 30

Leu Ala Trp Tyr Gln Gln Lys Pro Glu Lys Ala Pro Lys Ser Leu Ile
35 40 45

Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser Gly
50 55 60

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
65 70 75 80

Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Tyr Asn Ser Tyr Pro Tyr
85 90 95

Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
100 105

<210> 897
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 897

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser
1 5 10 15

Ser Val Lys Val Ser Cys Lys Val Ser Gly Gly Ile Phe Ser Thr Tyr
20 25 30

Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
35 40 45

Gly Gly Ile Ile Pro Ile Phe Gly Thr Ala Asn His Ala Gln Lys Phe
50 55 60

Gln Gly Arg Val Thr Ile Thr Ala Asp Glu Ser Thr Ser Thr Ala Tyr
65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Arg Asp Gln Gly Ile Ala Ala Ala Leu Phe Asp Tyr Trp Gly Gln
100 105 110

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 898
<211> 108
<212> PRT
<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 898

Glu Ile Val Leu Thr Gln Ser Pro Gly Thr Leu Ser Leu Ser Pro Gly
1 5 10 15

Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Ser Ser Ser
20 25 30

Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu
35 40 45

Ile Tyr Gly Ala Ser Ser Arg Ala Thr Gly Ile Pro Asp Arg Phe Ser
50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Arg Leu Glu
65 70 75 80

Pro Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Gly Ser Ser Pro
85 90 95

Trp Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
100 105

<210> 899

<211> 113

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 899

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Arg
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Val Ser Gly Glu Thr Phe Asp Asp Tyr
20 25 30

Val Val His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
35 40 45

Ser Gly Ile Ser Gly Asn Ser Gly Asn Ile Gly Tyr Ala Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Leu Tyr Tyr Cys
85 90 95

Ala Val Pro Phe Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser
100 105 110

Ser

<210> 900

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 900

Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
1 5 10 15

Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Gly Ile Ser Ser Trp
20 25 30

Leu Ala Trp Tyr Gln Gln Lys Pro Glu Lys Ala Pro Lys Ser Leu Ile
35 40 45

Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser Gly
50 55 60

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
65 70 75 80

Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Tyr Asn Ser Tyr Pro Tyr
85 90 95

Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
100 105

<210> 901
<211> 123
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 901

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser
1 5 10 15

Ser Val Lys Val Ser Cys Lys Thr Ser Gly Asp Thr Phe Ser Ser Tyr
20 25 30

Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
35 40 45

Gly Gly Ile Ile Pro Ile Phe Gly Arg Ala His Tyr Ala Gln Lys Phe
50 55 60

Gln Gly Arg Val Thr Ile Thr Ala Asp Glu Ser Thr Ser Thr Ala Tyr
65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Phe Cys
85 90 95

Ala Arg Lys Phe His Glu Val Ser Gly Ser Pro Phe Gly Met Asp Val

100

105

110

Trp Gly Gln Gly Thr Thr Val Thr Val Ser Ser
 115 120

<210> 902

<211> 106

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 902

Glu Ile Val Leu Thr Gln Ser Pro Ala Thr Leu Ser Leu Ser Pro Gly
 1 5 10 15

Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Ser Ser Tyr
 20 25 30

Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile
 35 40 45

Tyr Asp Ala Ser Asn Arg Ala Thr Gly Ile Pro Ala Arg Phe Ser Gly
 50 55 60

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Glu Pro
 65 70 75 80

Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Arg Ser Asn Trp Pro Thr
 85 90 95

Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105

<210> 903

<211> 123

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 903

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser
1 5 10 15

Ser Val Lys Val Ser Cys Lys Thr Ser Gly Gly Thr Phe Ser Ser Tyr
20 25 30

Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
35 40 45

Gly Gly Ile Ile Pro Ile Phe Gly Lys Ala His Tyr Ala Gln Lys Phe
50 55 60

Gln Gly Arg Val Thr Ile Thr Ala Asp Glu Ser Thr Thr Thr Ala Tyr
65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Arg Lys Tyr Asp Tyr Val Ser Gly Ser Pro Phe Gly Met Asp Val
100 105 110

Trp Gly Gln Gly Thr Thr Val Thr Val Ser Ser
115 120

<210> 904

<211> 106

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 904

Glu Ile Val Leu Thr Gln Ser Pro Ala Thr Leu Ser Leu Ser Pro Gly

1	5	10	15
Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Ser Ser Tyr	20	25	30
Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile	35	40	45
Tyr Asp Ala Ser Asn Arg Ala Thr Gly Ile Pro Ala Arg Phe Ser Gly	50	55	60
Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Glu Pro	65	70	75
Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Arg Ser Asn Trp Pro Thr	85	90	95
Phe Gly Gln Gly Thr Lys Val Glu Ile Lys	100	105	

<210> 905
 <211> 121
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic polymer.

<400> 905

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser	1	5	10	15
Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Ser Ser Tyr	20	25	30	
Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met	35	40	45	

Gly Gly Ile Ile Pro Ile Phe Gly Ser Ala Asn Tyr Ala Gln Lys Phe
50 55 60

Gln Asp Arg Val Thr Ile Thr Ala Asp Glu Ser Thr Ser Ala Ala Tyr
65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Arg Asp Ser Ser Gly Trp Ser Arg Tyr Tyr Met Asp Val Trp Gly
100 105 110

Gln Gly Thr Thr Val Thr Val Ser Ser
115 120

<210> 906
<211> 106
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 906

Glu Ile Val Leu Thr Gln Ser Pro Gly Thr Leu Ser Leu Ser Pro Gly
1 5 10 15

Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Ser Ser Ser
20 25 30

Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu
35 40 45

Ile Tyr Gly Ala Ser Ser Arg Ala Thr Gly Ile Pro Asp Arg Phe Ser
50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Arg Leu Glu
65 70 75 80

Pro Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Gly Ser Ser Pro
85 90 95

Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
100 105

<210> 907
<211> 123
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 907

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Glu Pro Gly Ser
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Asn Ser Tyr
20 25 30

Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
35 40 45

Gly Gly Ile Ile Pro Leu Phe Gly Ile Ala His Tyr Ala Gln Lys Phe
50 55 60

Gln Gly Arg Val Thr Ile Thr Ala Asp Glu Ser Thr Asn Thr Ala Tyr
65 70 75 80

Met Asp Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Arg Lys Tyr Ser Tyr Val Ser Gly Ser Pro Phe Gly Met Asp Val
100 105 110

Trp Gly Gln Gly Thr Thr Val Thr Val Ser Ser
115 120

<210> 908
<211> 106
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 908

Glu Ile Val Leu Thr Gln Ser Pro Ala Thr Leu Ser Leu Ser Pro Gly
1 5 10 15

Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Ser Ser Tyr
20 25 30

Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile
35 40 45

Tyr Asp Ala Ser Asn Arg Ala Thr Gly Ile Pro Ala Arg Phe Ser Gly
50 55 60

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Glu Pro
65 70 75 80

Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Arg Ser Asn Trp Pro Thr
85 90 95

Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys
100 105

<210> 909
<211> 121
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 909

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Arg
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ile Thr Phe Asp Asp Tyr
20 25 30

Gly Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
35 40 45

Ser Gly Ile Ser Trp Asn Arg Gly Arg Ile Glu Tyr Ala Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Leu Tyr Tyr Cys
85 90 95

Ala Lys Gly Arg Phe Arg Tyr Phe Asp Trp Phe Leu Asp Tyr Trp Gly
100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 910

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 910

Ala Ile Gln Leu Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
1 5 10 15

Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Gly Ile Ser Ser Ala
20 25 30

Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile
35 40 45

Tyr Asp Ala Ser Ser Leu Glu Ser Gly Val Pro Ser Arg Phe Ser Gly
50 55 60

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
65 70 75 80

Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Phe Asn Ser Tyr Pro Phe
85 90 95

Thr Phe Gly Pro Gly Thr Lys Val Asp Ile Lys
100 105

<210> 911

<211> 118

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 911

Glu Val Lys Leu Gln Glu Ser Gly Pro Ser Leu Val Lys Pro Ser Gln
1 5 10 15

Thr Leu Ser Leu Thr Cys Ser Val Thr Gly Tyr Ser Ile Thr Ser Asp
20 25 30

Tyr Trp Asn Trp Ile Arg Lys Phe Pro Gly Asn Lys Leu Glu Tyr Val
35 40 45

Gly Tyr Ile Ser Tyr Thr Gly Ser Thr Tyr Tyr Asn Pro Ser Leu Lys
50 55 60

Ser Arg Ile Ser Ile Thr Arg Asp Thr Ser Lys Asn Gln Tyr Tyr Leu

65		70		75		80									
Gln	Leu	Asn	Ser	Val	Thr	Ser	Glu	Asp	Thr	Ala	Thr	Tyr	Tyr	Cys	Ala
			85					90						95	
Arg	Tyr	Gly	Gly	Trp	Leu	Ser	Pro	Phe	Asp	Tyr	Trp	Gly	Gln	Gly	Thr
			100					105					110		
Thr	Leu	Thr	Val	Ser	Ser										
			115												
<210>	912														
<211>	107														
<212>	PRT														
<213>	Artificial Sequence														
<220>															
<223>	Synthetic polymer.														
<400>	912														
Asp	Ile	Val	Met	Thr	Gln	Ser	His	Lys	Leu	Met	Ser	Thr	Ser	Val	Gly
1			5					10						15	
Asp	Arg	Val	Ser	Ile	Thr	Cys	Lys	Ala	Ser	Gln	Asp	Val	Gly	Thr	Ala
			20					25					30		
Val	Ala	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Gln	Ser	Pro	Lys	Leu	Leu	Ile
			35				40					45			
Tyr	Trp	Ala	Ser	Thr	Arg	His	Thr	Gly	Val	Pro	Asp	Arg	Phe	Thr	Gly
	50					55					60				
Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr	Leu	Thr	Ile	Ser	Asn	Val	Gln	Ser
65					70					75				80	
Glu	Asp	Leu	Ala	Asp	Tyr	Phe	Cys	Gln	Gln	Asp	Ser	Ser	Tyr	Pro	Leu
				85					90					95	

Thr Phe Gly Ala Gly Thr Lys Val Glu Leu Lys
100 105

<210> 913
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polymer.

<400> 913

Glu Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Ala Pro Ser Gln
1 5 10 15

Ser Leu Ser Ile Thr Cys Thr Val Ser Gly Phe Ser Leu Thr Thr Tyr
20 25 30

Ser Ile Asn Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu Glu Trp Leu
35 40 45

Gly Val Met Trp Ala Gly Gly Gly Thr Asn Ser Asn Ser Val Leu Lys
50 55 60

Ser Arg Leu Ile Ile Ser Lys Asp Asn Ser Lys Ser Gln Val Phe Leu
65 70 75 80

Lys Met Asn Ser Leu Gln Thr Asp Asp Thr Ala Arg Tyr Tyr Cys Ala
85 90 95

Arg Tyr Tyr Gly Asn Ser Pro Tyr Tyr Ala Ile Asp Tyr Trp Gly Gln
100 105 110

Gly Thr Ser Val Thr Val Ser Ser
115 120

<210> 914
<211> 107
<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer.

<400> 914

Asp Ile Val Thr Thr Gln Ser His Lys Leu Met Ser Thr Ser Val Gly
1 5 10 15

Asp Arg Val Ser Ile Thr Cys Lys Ala Ser Gln Asp Val Gly Thr Ala
20 25 30

Val Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Lys Leu Leu Ile
35 40 45

Tyr Trp Ala Ser Thr Arg His Thr Gly Val Pro Asp Arg Phe Thr Gly
50 55 60

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Asn Val Gln Ser
65 70 75 80

Glu Asp Leu Ala Asp Tyr Phe Cys Gln Gln Asp Ser Ser Tyr Pro Leu
85 90 95

Thr Phe Gly Ala Gly Thr Lys Val Glu Leu Lys
100 105