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<110> Eucure (Beijing) Biopharma Co., Ltd

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Gly Phe Asp Phe Ser Arg Tyr Trp Met Ser
1 5 10

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<400> 158

His Pro Asp Ser Ser Ala
1 5

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Ser Tyr Tyr Gly Arg Val Phe Asp Tyr
1 5

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Arg Ala Ser Gln Ser Ile Ser Asp Tyr Leu His
1 5 10

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Tyr Ala Ser Gln Ser Ile Ser
1 5

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Gln Asp Gly His Ser Phe Pro Pro Thr

1 5

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Gly Tyr Ser Phe Thr Ser Tyr Trp Met His

1 5 10

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Tyr Pro Gly Asn Ser Asp

1 5

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Gly Ile Thr Thr Ala Pro Asp Tyr

1 5

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Lys Ala Ser Glu Asn Val Gly Ile His Val Ser

1 5 10

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Gly Ala Ser Ser Gly Tyr Asn

1 5

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Gly Gln Thr Tyr Ser Tyr Pro Phe Thr
1 5

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Lys Phe Thr Phe Thr Asn Tyr Gly Met Asn
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Asn Thr Tyr Thr Gly Glu
1 5

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Arg Glu Tyr Tyr Pro Trp Val Phe Val Tyr

1 5 10

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<400> 172

Ser Ala Ser Ser Ser Val Ser Tyr Met His

1 5 10

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Asp Thr Ser Lys Leu Ala Ser

1 5

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<400> 174

Phe Gln Gly Ser Gly Tyr Pro Leu Thr
1 5

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Gly Tyr Ile Phe Thr Ser Tyr Trp Ile Asn
1 5 10

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Tyr Pro Ser Asp Ser Tyr

1 5

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Phe His Tyr Gly Ser Ser Pro Phe Asp Asn

1 5 10

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Arg Ala Ser Gln Asp Ile Ser His Tyr Leu Asn

1 5 10

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Tyr Thr Ser Arg Leu His Ser

1 5

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Gln Gln Gly His Thr Leu Pro Arg Thr

1 5

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Gly Tyr Thr Phe Thr Asn Tyr Gly Met Asn

1 5 10

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Asn Thr Tyr Thr Gly Glu

1 5

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Arg Asp Tyr Leu Gly Ala Met Asp Tyr

1 5

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Arg Ala Ser Ser Ser Val Ser Ser Ser Tyr Leu His

1 5 10

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Ser Thr Ser Asn Leu Ala Ser

1 5

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Gln Gln Tyr Ser Ala Tyr Leu Tyr Thr

1 5

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Gly Tyr Thr Phe Thr Thr Tyr Trp Ile Asn

1 5 10

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Tyr Pro Ser Asp Ser Tyr
1 5

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<400> 189

Glu Ala Gly Asp Gly Thr His Tyr Tyr Ala Ile Asp Tyr
1 5 10

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

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Gly Ala Ser Asn Arg Tyr Pro
1 5

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Gly Gln Gly Tyr Ser Tyr Leu Arg Thr
1 5

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<400> 193

Gly Phe Asn Ile Lys Asp Tyr Tyr Met His

1 5 10

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Asp Pro Glu Asn Gly Asn

1 5

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<400> 195

Gly Leu Pro Trp Tyr Phe Asp Tyr

1 5

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<211> 10

<212> PRT

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<400> 196

Ser Ala Ser Ser Ser Val Ser Asp Met Asn

1 5 10

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<211> 7

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<213> Artificial Sequence

<400> 197

Leu Thr Ser Asn Leu Ser Ser

1 5

<210> 198

<211> 9

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<213> Artificial Sequence

<400> 198

Gln Gln Trp Ser Gly Asn Pro Leu Thr

1 5

<210> 199

<211> 10

<212> PRT

<213> Artificial Sequence

<400> 199

Gly Phe Ser Phe Ser Ser Phe Gly Met His
1 5 10

<210> 200

<211> 6

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<400> 200

Ser Ser Gly Ser Ser Ala
1 5

<210> 201

<211> 5

<212> PRT

<213> Artificial Sequence

<400> 201

Asp Trp Val Asp Tyr
1 5

<210> 202

<211> 11

<212> PRT

<213> Artificial Sequence

<400> 202

Arg Ala Ser Glu Asn Ile Tyr Ser Asn Leu Val

1 5 10

<210> 203

<211> 7

<212> PRT

<213> Artificial Sequence

<400> 203

Thr Ala Thr Lys Leu Thr Asn

1 5

<210> 204

<211> 9

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<400> 204

Gln His Phe Trp Asp Thr Pro Tyr Thr

1 5

<210> 205
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<212> PRT
<213> Artificial Sequence

<400> 205

Gly Tyr Thr Phe Thr Ser Tyr Trp Ile Asn
1 5 10

<210> 206
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<400> 206

Phe Pro Ser Asp Ser Tyr
1 5

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<400> 207

Phe Gly Ser Ser Gly Tyr Pro Asp Tyr Tyr Thr Met Glu Tyr

1 5 10

<210> 208

<211> 11

<212> PRT

<213> Artificial Sequence

<400> 208

Arg Ala Ser Gly Asn Ile Asp Asn Tyr Leu Ala

1 5 10

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<211> 7

<212> PRT

<213> Artificial Sequence

<400> 209

Asn Ala Lys Thr Leu Ala Glu

1 5

<210> 210

<211> 9

<212> PRT

<213> Artificial Sequence

<400> 210

Gln Gln Tyr Trp Thr Ile Pro Tyr Thr

1 5

<210> 211

<211> 10

<212> PRT

<213> Artificial Sequence

<400> 211

Gly Tyr Ala Phe Asn Asn Ser Trp Met Asn

1 5 10

<210> 212

<211> 6

<212> PRT

<213> Artificial Sequence

<400> 212

Tyr Pro Gly Asp Gly Asp

1 5

<210> 213

<211> 12

<212> PRT

<213> Artificial Sequence

<400> 213

Leu Asp Gly Asn Tyr Tyr Tyr Trp Tyr Phe Asp Val
1 5 10

<210> 214

<211> 16

<212> PRT

<213> Artificial Sequence

<400> 214

Lys Ser Ser Gln Ser Leu Leu Asp Ser Asp Gly Lys Thr Tyr Leu Asn
1 5 10 15

<210> 215

<211> 7

<212> PRT

<213> Artificial Sequence

<400> 215

Leu Val Ser Lys Leu Asp Ser
1 5

<210> 216

<211> 9

<212> PRT
<213> Artificial Sequence

<400> 216

Trp Gln Gly Thr His Phe Pro Gln Thr
1 5

<210> 217
<211> 255
<212> PRT
<213> human

<400> 217

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

Asn Phe Glu Arg Thr Arg Ser Leu Gln Asp Pro Cys Ser Asn Cys Pro
 20 25 30

Ala Gly Thr Phe Cys Asp Asn Asn Arg Asn Gln Ile Cys Ser Pro Cys
 35 40 45

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

Cys Arg Gln Cys Lys Gly Val Phe Arg Thr Arg Lys Glu Cys Ser Ser
65 70 75 80

Thr Ser Asn Ala Glu Cys Asp Cys Thr Pro Gly Phe His Cys Leu Gly
85 90 95

Ala Gly Cys Ser Met Cys Glu Gln Asp Cys Lys Gln Gly Gln Glu Leu
100 105 110

Thr Lys Lys Gly Cys Lys Asp Cys Cys Phe Gly Thr Phe Asn Asp Gln
115 120 125

Lys Arg Gly Ile Cys Arg Pro Trp Thr Asn Cys Ser Leu Asp Gly Lys
130 135 140

Ser Val Leu Val Asn Gly Thr Lys Glu Arg Asp Val Val Cys Gly Pro
145 150 155 160

Ser Pro Ala Asp Leu Ser Pro Gly Ala Ser Ser Val Thr Pro Pro Ala
165 170 175

Pro Ala Arg Glu Pro Gly His Ser Pro Gln Ile Ile Ser Phe Phe Leu
180 185 190
195

Ala Leu Thr Ser Thr Ala Leu Leu Phe Leu Leu Phe Phe Leu Thr Leu
195 200 205

Arg Phe Ser Val Val Lys Arg Gly Arg Lys Lys Leu Leu Tyr Ile Phe
210 215 220

Lys Gln Pro Phe Met Arg Pro Val Gln Thr Thr Gln Glu Glu Asp Gly
225 230 235 240

Cys Ser Cys Arg Phe Pro Glu Glu Glu Glu Gly Gly Cys Glu Leu
245 250 255

<210> 218
<211> 256
<212> PRT
<213> Mouse

<400> 218

Met Gly Asn Asn Cys Tyr Asn Val Val Val Ile Val Leu Leu Leu Val
1 5 10 15

Gly Cys Glu Lys Val Gly Ala Val Gln Asn Ser Cys Asp Asn Cys Gln
20 25 30

Pro Gly Thr Phe Cys Arg Lys Tyr Asn Pro Val Cys Lys Ser Cys Pro
35 40 45

Pro Ser Thr Phe Ser Ser Ile Gly Gly Gln Pro Asn Cys Asn Ile Cys
50 55 60

Arg Val Cys Ala Gly Tyr Phe Arg Phe Lys Lys Phe Cys Ser Ser Thr
65 70 75 80

His Asn Ala Glu Cys Glu Cys Ile Glu Gly Phe His Cys Leu Gly Pro
85 90 95

Gln Cys Thr Arg Cys Glu Lys Asp Cys Arg Pro Gly Gln Glu Leu Thr
100 105 110

Lys Gln Gly Cys Lys Thr Cys Ser Leu Gly Thr Phe Asn Asp Gln Asn
115 120 125

Gly Thr Gly Val Cys Arg Pro Trp Thr Asn Cys Ser Leu Asp Gly Arg
130 135 140

Ser Val Leu Lys Thr Gly Thr Thr Glu Lys Asp Val Val Cys Gly Pro

145 150 155 160

Pro Val Val Ser Phe Ser Pro Ser Thr Thr Ile Ser Val Thr Pro Glu

165 170 175

Gly Gly Pro Gly Gly His Ser Leu Gln Val Leu Thr Leu Phe Leu Ala

180 185 190

Leu Thr Ser Ala Leu Leu Leu Ala Leu Ile Phe Ile Thr Leu Leu Phe

195 200 205

Ser Val Leu Lys Trp Ile Arg Lys Lys Phe Pro His Ile Phe Lys Gln

210 215 220

Pro Phe Lys Lys Thr Thr Gly Ala Ala Gln Glu Glu Asp Ala Cys Ser

225 230 235 240

Cys Arg Cys Pro Gln Glu Glu Glu Gly Gly Gly Gly Tyr Glu Leu

245 250 255

<210> 219

<211> 254

<212> PRT

<213> Monkey

<400> 219

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

Asn Phe Glu Arg Thr Arg Ser Leu Gln Asp Leu Cys Ser Asn Cys Pro
 20 25 30

Ala Gly Thr Phe Cys Asp Asn Asn Arg Ser Gln Ile Cys Ser Pro Cys
 35 40 45

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

Cys Arg Gln Cys Lys Gly Val Phe Lys Thr Arg Lys Glu Cys Ser Ser
65 70 75 80

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

Ala Glu Cys Ser Met Cys Glu Gln Asp Cys Lys Gln Gly Gln Glu Leu
 100 105 110

Thr Lys Lys Gly Cys Lys Asp Cys Cys Phe Gly Thr Phe Asn Asp Gln
115 120 125

Lys Arg Gly Ile Cys Arg Pro Trp Thr Asn Cys Ser Leu Asp Gly Lys
130 135 140

Ser Val Leu Val Asn Gly Thr Lys Glu Arg Asp Val Val Cys Gly Pro
145 150 155 160

Ser Pro Ala Asp Leu Ser Pro Gly Ala Ser Ser Ala Thr Pro Pro Ala
165 170 175

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

Leu Thr Ser Thr Val Val Leu Phe Leu Leu Phe Phe Leu Val Leu Arg
195 200 205

Phe Ser Val Val Lys Arg Ser Arg Lys Lys Leu Leu Tyr Ile Phe Lys
210 215 220

Gln Pro Phe Met Arg Pro Val Gln Thr Thr Gln Glu Glu Asp Gly Cys
225 230 235 240

Ser Cys Arg Phe Pro Glu Glu Glu Gly Gly Cys Glu Leu
245 250

<210> 220
<211> 257
<212> PRT
<213> Artificial Sequence

<400> 220

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

Asn Phe Glu Arg Thr Arg Ser Leu Gln Asp Pro Cys Ser Asn Cys Pro
20 25 30

Ala Gly Thr Phe Cys Asp Asn Asn Arg Asn Gln Ile Cys Ser Pro Cys
35 40 45

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

Cys Arg Gln Cys Lys Gly Val Phe Arg Thr Arg Lys Glu Cys Ser Ser
65 70 75 80

Thr Ser Asn Ala Glu Cys Asp Cys Thr Pro Gly Phe His Cys Leu Gly
85 90 95

Ala Gly Cys Ser Met Cys Glu Gln Asp Cys Lys Gln Gly Gln Glu Leu
100 105 110

Thr Lys Lys Gly Cys Lys Asp Cys Cys Phe Gly Thr Phe Asn Asp Gln
115 120 125

Lys Arg Gly Ile Cys Arg Pro Trp Thr Asn Cys Ser Leu Asp Gly Lys
130 135 140

Ser Val Leu Val Asn Gly Thr Lys Glu Arg Asp Val Val Cys Gly Pro
145 150 155 160

Ser Pro Ala Asp Leu Ser Pro Gly Ala Ser Ser Val Thr Pro Pro Ala
165 170 175

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

Ala Leu Thr Ser Ala Leu Leu Leu Ala Leu Ile Phe Ile Thr Leu Leu
195 200 205

202

Phe Ser Val Leu Lys Trp Ile Arg Lys Lys Phe Pro His Ile Phe Lys
210 215 220

Gln Pro Phe Lys Lys Thr Thr Gly Ala Ala Gln Glu Glu Asp Ala Cys
225 230 235 240

Ser Cys Arg Cys Pro Gln Glu Glu Glu Gly Gly Gly Gly Gly Tyr Glu
245 250 255

Leu

- <210> 221
- <211> 119
- <212> PRT
- <213> Artificial Sequence

<400> 221

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

Ser Val Lys Leu Ser Cys Lys Ala Ser Gly Phe Thr Phe Ser Ser Ser
20 25 30
203

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

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

Thr 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 Ile Tyr Tyr Cys
85 90 95

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

Thr Thr Leu Thr Val Ser Ser
115

<210> 222

<211> 119

<212> PRT

<213> Artificial Sequence

<400> 222

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

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

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

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

Thr Gly Arg Val Gln 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 Ile Tyr Tyr Cys
 85 90 95

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

Thr Thr Leu Thr Val Ser Ser

115

<210> 223
<211> 119
<212> PRT
<213> Artificial Sequence

<400> 223

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

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

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

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

Thr Gly Arg Ala Gln 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 Ile Tyr Tyr Cys

85 90 95

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

Thr Thr Leu Thr Val Ser Ser
115

<210> 224
<211> 119
<212> PRT
<213> Artificial Sequence

<400> 224

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

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

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

Ala Trp Ile Phe Ala Gly Thr Gly Gly Thr Tyr Tyr Asn Gln Lys Phe

50 55 60

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

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

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

Thr Thr Leu Thr Val Ser Ser
 115

<210> 225
<211> 106
<212> PRT
<213> Artificial Sequence

<400> 225

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 Ser Ser Val Asn His Met

208

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

<210> 226

<211> 106

<212> PRT

<213> Artificial Sequence

<400> 226

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 Ser Ser Val Asn His Met
 20 25 30

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

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

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

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

Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
 100 105

<210> 227

<211> 106

<212> PRT

<213> Artificial Sequence

<400> 227

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

1 5 10 15

Glu Arg Ala Thr Met Ser Cys Arg Ala Ser Ser Ser Val Asn His Met

20 25 30

His Trp Tyr Gln Gln Lys Pro Gly Phe Ser Pro Arg Ala Trp Ile Tyr

35 40 45

Ala Thr Ser Asn Leu Ala Ser Gly Ile Pro Ala Arg Phe Ser Gly Ser

50 55 60

Gly Ser Gly Thr Ser Phe Thr Leu Thr Ile Ser Ser Leu Glu Pro Glu

65 70 75 80

Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Trp Ser Ser Asn Pro Tyr Thr

85 90 95

Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys

100 105

<210> 228
<211> 106
<212> PRT
<213> Artificial Sequence

<400> 228

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

Glu Arg Val Thr Met Ser Cys Arg Ala Ser Ser Ser Val Asn His Met
 20 25 30

His Trp Tyr Gln Gln Arg Pro Gly Phe Ser Pro Arg Ala Trp Ile Tyr
 35 40 45

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

Gly Ser Gly Thr Ser Tyr Ser Leu Thr Ile Ser Ser Leu Glu Pro Glu
65 70 75 80

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

Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys

100 105

<210> 229

<211> 121

<212> PRT

<213> Artificial Sequence

<400> 229

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

1 5 10 15

Ser Val Lys Leu Ser Cys Lys Ala Ser Gly Tyr Thr Phe Ser Ser Tyr

20 25 30

Trp Ile Asn Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met

35 40 45

Gly Asn Ile Tyr Pro Ser Asp Ser Tyr Thr Asn Tyr Asn Gln Lys Phe

50 55 60

Lys Asp Arg Val Thr Leu Thr Val Asp Lys Ser Thr Ser Thr Ala Tyr

65 70 75 80

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

Thr Arg Thr Trp Glu Phe Tyr Tyr Asp Ser Val Phe Asp Tyr Trp Gly
100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 230

<211> 121

<212> PRT

<213> Artificial Sequence

<400> 230

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

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

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

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

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

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

Thr Arg Thr Trp Glu Phe Tyr Tyr Asp Ser Val Phe Asp Tyr Trp Gly
100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 231
<211> 121
<212> PRT
<213> Artificial Sequence

<400> 231

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

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

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

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

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

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

Thr Arg Thr Trp Glu Phe Tyr Tyr Asp Ser Val Phe Asp Tyr Trp Gly
100 105 110

Gln Gly Thr Thr Leu Thr Val Ser Ser
115 120

<210> 232

<211> 107

<212> PRT

<213> Artificial Sequence

<400> 232

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

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

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

Tyr Arg Ala Asn Arg Leu Val Asp Gly Val Pro Ser Arg Phe Ser Gly
 50 55 60

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

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

Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
 100 105

<210> 233
<211> 107
<212> PRT
<213> Artificial Sequence

<400> 233

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

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

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

Tyr Arg Ala Asn Arg Leu Val Asp Gly Val Pro Ser Arg Phe Ser Gly
 50 55 60

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

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

Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys

100 105

<210> 234

<211> 107

<212> PRT

<213> Artificial Sequence

<400> 234

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

1 5 10 15

Glu Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Asp Ile Asn Ser Tyr

20 25 30

Leu Ser Trp Phe Gln Gln Lys Pro Gly Lys Ala Pro Lys Thr Leu Ile

35 40 45

Tyr Arg Ala Asn Arg Leu Val Asp Gly Val Pro Ser Arg Phe Ser Gly

50 55 60

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

65 70 75 80

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

Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
100 105

<210> 235
<211> 107
<212> PRT
<213> Artificial Sequence

<400> 235

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

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

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

Tyr Arg Ala Asn Arg Leu Val Asp Gly Val Pro Ser Arg Phe Ser Gly
50 55 60

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

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

Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
 100 105

<210> 236
<211> 111
<212> PRT
<213> Artificial Sequence

<400> 236

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

Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Phe Ser Leu Thr Thr Tyr
 20 25 30

Asp Ile Ser Trp Val Arg Gln Pro Pro Gly Lys Gly Leu Glu Trp Ile
 35 40 45

Gly Val Ile Trp Thr Gly Gly Gly Thr Asn Tyr Asn Ser Ser Phe Met
50 55 60

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

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

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

<210> 237
<211> 111
<212> PRT
<213> Artificial Sequence

<400> 237

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

Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Phe Ser Leu Thr Thr Tyr
 20 25 30

Asp Ile Ser Trp Val Arg Gln Pro Pro Gly Lys Gly Leu Glu Trp Leu
35 40 45

Gly Val Ile Trp Thr Gly Gly Gly Thr Asn Tyr Asn Ser Ser Phe Met
50 55 60

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

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

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

<210> 238
<211> 111
<212> PRT
<213> Artificial Sequence

<400> 238

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

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

Asp Ile Ser Trp Val Arg Gln Pro Pro Gly Lys Gly Leu Glu Trp Leu
35 40 45

Gly Val Ile Trp Thr Gly Gly Gly Thr Asn Tyr Asn Ser Ser Phe Met
50 55 60

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

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

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

<210> 239

<211> 112

<212> PRT

<213> Artificial Sequence

<400> 239

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

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

Asn Gly Asn Thr Tyr Leu His Trp Phe Gln Gln Arg Pro Gly Gln Ser
 35 40 45

Pro Arg 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 Ala Phe Thr Phe Lys Ile
65 70 75 80

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

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

<210> 240

<211> 112

<212> PRT

<213> Artificial Sequence

<400> 240

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

1 5 10 15

Gln Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Val His Ser

20 25 30

Asn Gly Asn Thr Tyr Leu His Trp Phe Gln Gln Arg 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 Ala Phe Thr Phe Lys Ile

65 70 75 80

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

85 90 95

Thr His Val Pro Trp Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys

100 105 110

226

<210> 241
<211> 112
<212> PRT
<213> Artificial Sequence

<400> 241

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

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

Asn Gly Asn Thr Tyr Leu His Trp Tyr Gln Gln Arg 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 Ala Phe Thr Phe Lys Ile
65 70 75 80

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

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

<210> 242
<211> 112
<212> PRT
<213> Artificial Sequence

<400> 242

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

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

Asn Gly Asn Thr Tyr Leu His Trp Tyr Leu Gln Arg 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 Ala Phe Thr Phe Lys Ile
65 70 75 80

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

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

<210> 243
<211> 119
<212> PRT
<213> Artificial Sequence

<400> 243

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

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

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

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

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

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

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

Thr Thr Leu Thr Val Ser Ser
 115

- <210> 244
- <211> 106
- <212> PRT
- <213> Artificial Sequence

<400> 244

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 Asn His Met
 20 25 30
 230

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

Ala 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 Arg Val Glu Ala Glu
65 70 75 80

Asp Ala Ala Thr Tyr Tyr Cys Gln Gln Trp Ser Ser Asn Pro Tyr Thr
85 90 95

Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
100 105

<210> 245
<211> 121
<212> PRT
<213> Artificial Sequence

<400> 245

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

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

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

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

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

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

Thr Arg Thr Trp Glu Phe Tyr Tyr Asp Ser Val Phe Asp Tyr Trp Gly
100 105 110

Gln Gly Thr Thr Leu Thr Val Ser Ser
115 120

<210> 246

<211> 107

<212> PRT

<213> Artificial Sequence

<400> 246

Asp Ile Lys Met Thr Gln Ser Pro Ser Ser Met Tyr Ala Ser Leu Gly

1 5 10 15

Glu Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Asp Ile Asn Ser Tyr

20 25 30

Leu Ser Trp Phe Gln Gln Lys Pro Gly Lys Ser Pro Lys Thr Leu Ile

35 40 45

Tyr Arg Ala Asn Arg Leu Val Asp Gly Val Pro Ser Arg Phe Ser Gly

50 55 60

Ser Gly Ser Gly Gln Asp Tyr Ser Leu Thr Ile Ser Ser Leu Glu Tyr

65 70 75 80

Glu Asp Met Gly Ile Tyr Tyr Cys Leu Gln Tyr Asp Glu Leu Pro Pro

85 90 95

Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys

100 105

<210> 247

<211> 111

<212> PRT

<213> Artificial Sequence

<400> 247

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

1 5 10 15

Ser Leu Ser Ile Thr Cys Thr Val Ser Gly Phe Ser Leu Thr Thr Tyr

20 25 30

Asp Ile Ser Trp Val Arg Gln Pro Pro Gly Lys Gly Leu Glu Trp Leu

35 40 45

Gly Val Ile Trp Thr Gly Gly Gly Thr Asn Tyr Asn Ser Ser Phe Met

50 55 60

Ser Arg Leu Ser Ile Ser Lys Asp Asn Ser Lys Asn Gln Val Phe Leu

65 70 75 80

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

	85	90	95
Arg Val Asp Tyr Trp Gly Gln Gly Thr Thr Leu Thr Val Ser Ser			
	100	105	110
<210> 248			
<211> 112			
<212> PRT			
<213> Artificial Sequence			
<400> 248			
Asp Val Val Met Thr Gln Thr Pro Leu Ser Leu Pro Val Ser Leu Gly			
1	5	10	15
Asp Gln Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Val His Ser			
	20	25	30
Asn Gly Asn Thr Tyr Leu His Trp Tyr 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 Ala Phe Thr Phe Lys Ile			
235			

65 70 75 80

Ser Arg Val Glu Ala Glu Asp Leu Gly Val Tyr Phe Cys Ser Gln Asn
85 90 95

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

<210> 249
<211> 121
<212> PRT
<213> Artificial Sequence

<400> 249

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

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

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

Gly Arg Ile Tyr Pro Gly Asp Gly Asp Thr Asp Tyr Asn Gly Arg Phe

50 55 60

Lys Gly Lys Ala Thr Leu Thr Ala Asp Lys Ser Ser Ser Thr Ala Tyr

65 70 75 80

Leu Gln Leu Ser Ser Leu Thr Ser Val Asp Ser Ala Val Tyr Phe Cys

85 90 95

Ala Arg Leu Asp Gly Tyr Tyr Glu Val Phe Tyr Phe Asp Tyr Trp Gly

100 105 110

Gln Gly Thr Thr Leu Thr Val Ser Ser

115 120

<210> 250

<211> 112

<212> PRT

<213> Artificial Sequence

<400> 250

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

1 5 10 15

Gln Pro Ala Ser Ile Ser Cys Lys Ser Ser Gln Ser Leu Leu Tyr Ser

20 25 30

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

Pro Lys Arg Leu Ile Tyr Leu Val Ser Lys Leu Asp Ser Gly Val Pro
50 55 60

Asp Arg Phe Thr 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 Ile Tyr Tyr Cys Phe Gln Gly
85 90 95

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

<210> 251
<211> 114
<212> PRT
<213> Artificial Sequence

<400> 251

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

1 5 10 15

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

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

Gly Tyr Ile Asn Pro Tyr Asn Asp Asp Ile Arg Tyr Asn Glu Lys Phe
50 55 60

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

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

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

Ser Ser

<210> 252
<211> 107
<212> PRT
<213> Artificial Sequence

<400> 252

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

Glu Thr Ile Thr Val Asn Cys Arg Ala Ser Lys Asn Ile Asn Lys Tyr
 20 25 30

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

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

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

Glu Asp Phe Ala Val Tyr His Cys Gln Gln Tyr Asn Glu Tyr Pro Leu
 85 90 95

Thr Phe Gly Ala Gly Thr Lys Leu Glu Met Lys

100 105

<210> 253

<211> 118

<212> PRT

<213> Artificial Sequence

<400> 253

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 Pro Pro Gly Lys Gly Leu Glu Trp Leu

35 40 45

Gly Val Ile Trp Ser Asp Gly Asn Thr Asp Tyr Asn Asp Ala Phe Ile

50 55 60

Ser Arg Leu Ser Ile Thr Lys Asp Asn Ser Thr Ser Gln Val Phe Phe

65 70 75 80

Lys Met Asn Gly Leu Gln Ala Asp Asp Thr Ala Ile Tyr Tyr Cys Ala
85 90 95

Arg Asn Ser Ile Thr Ser Val Ser Phe Asp Cys Trp Gly Gln Gly Thr
100 105 110

Thr Leu Thr Val Ser Ser
115

<210> 254
<211> 107
<212> PRT
<213> Artificial Sequence

<400> 254

Asp Ile Val Met Thr Gln Ser Gln Lys Phe Met Ser Thr Ser Val Gly
1 5 10 15

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

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

Cys Ser Ala Ser Tyr Arg Tyr Ser Gly Val Pro Asp Arg Phe Thr Gly
50 55 60

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

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

Thr Phe Gly Ser Gly Thr Lys Leu Glu Ile Lys
100 105

<210> 255
<211> 117
<212> PRT
<213> Artificial Sequence

<400> 255

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

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

Trp Ile His Trp Val Lys Gln Arg His Gly Gln Gly Leu Glu Trp Ile
35 40 45

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

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

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

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

Val Thr Val Ser Ala
115

<210> 256

<211> 107

<212> PRT

<213> Artificial Sequence

<400> 256

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

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

Ile His Trp Tyr Gln Gln Arg Thr Asn Gly Ser Pro Arg Leu Leu Ile
 35 40 45

Lys Ser Ala Ser Glu Ser Ile Ser Gly Ile Pro Ser Arg Phe Ser Gly
 50 55 60

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

Asp Asp Val Gly Asp Tyr Tyr Cys Gln Gln Ser Tyr Ser Trp Pro Thr
 85 90 95

Thr Phe Gly Gly Gly Thr Lys Leu Lys Ile Asn
 100 105

<210> 257

<211> 117

<212> PRT

<213> Artificial Sequence

<400> 257

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

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

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

Gly Val Ile Tyr Pro Gly Asn Ser Asp Thr Ser Tyr Asn Gln Lys Phe
 50 55 60

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

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

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

Leu Thr Val Ser Ser
115

<210> 258
<211> 107
<212> PRT
<213> Artificial Sequence

<400> 258

Asn Ile Val Met Thr Gln Ser Pro Lys Ser Met Ser Met Ser Val Gly
1 5 10 15

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

Val Ser Trp Tyr Gln Gln Lys Pro Glu Gln Ser Pro Lys Leu Leu Ile
 35 40 45

Tyr Gly Ala Ser Asn Arg Tyr Thr Gly Val Pro Asp Arg Phe Thr Gly
 50 55 60

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

Glu Asp Leu Ala Asp Tyr His Cys Gly His Thr Tyr Asn Tyr Pro Phe
85 90 95

Thr Phe Gly Ser Gly Thr Lys Leu Glu Ile Lys
100 105

<210> 259
<211> 118
<212> PRT
<213> Artificial Sequence

<400> 259

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

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

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

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

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

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

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

Thr Leu Thr Val Ser Ser
 115

<210> 260
<211> 107
<212> PRT
<213> Artificial Sequence

<400> 260

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

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

Leu His Trp Tyr Gln Gln Lys Ser His Glu Ser Pro Arg Leu Leu Ile
35 40 45

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

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

Glu Asp Val Gly Met Tyr Tyr Cys Gln Asp Gly His Ser Phe Pro Pro
85 90 95

Thr Phe Gly Ala Gly Thr Lys Leu Glu Leu Lys
100 105

<210> 261
<211> 117
<212> PRT
<213> Artificial Sequence

<400> 261

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

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

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

Gly Val Ile Tyr Pro Gly Asn Ser Asp Thr Ser Tyr Asn Gln Lys Phe
50 55 60

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

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

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

Leu Thr Val Ser Ser
115

<210> 262

<211> 107

<212> PRT
<213> Artificial Sequence

<400> 262

Asn Ile Val Met Thr Gln Ser Pro Lys Ser Met Ser Met Ser Val Gly
1 5 10 15

Glu Arg Val Thr Leu Ser Cys Lys Ala Ser Glu Asn Val Gly Ile His
 20 25 30

Val Ser Trp Tyr Gln Gln Lys Pro Glu Gln Ser Pro Lys Leu Leu Ile
 35 40 45

Tyr Gly Ala Ser Ser Gly Tyr Asn Gly Val Pro Asp Arg Phe Thr Gly
 50 55 60

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

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

Thr Phe Gly Ser Gly Thr Lys Leu Glu Ile Lys
 100 105

<210> 263

<211> 119

<212> PRT

<213> Artificial Sequence

<400> 263

Gln Ile Gln Leu Val Gln Ser Gly Pro Glu Leu Lys Lys Pro Gly Glu

1 5 10 15

Thr Val Lys Ile Ser Cys Lys Ala Ser Lys Phe Thr Phe Thr Asn Tyr

20 25 30

Gly Met Asn Trp Val Lys Gln Ala Pro Gly Lys Ala Leu Lys Trp Met

35 40 45

Gly Trp Ile Asn Thr Tyr Thr Gly Glu Pro Thr Tyr Ala Asp Asp Phe

50 55 60

Lys Gly Arg Phe Asp Phe Ser Leu Glu Thr Ser Ala Thr Thr Ala Tyr

65 70 75 80

Leu Gln Ile Asn Asn Leu Lys Asn Glu Asp Thr Ala Thr Tyr Phe Cys

85 90 95

253

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

Thr Leu Val Thr Val Ser Ala
115

<210> 264
<211> 106
<212> PRT
<213> Artificial Sequence

<400> 264

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

Glu Lys Val Thr Met Thr Cys Ser Ala Ser Ser Ser Val Ser Tyr Met
20 25 30

His Trp Tyr Gln Gln Lys Ser Ser Thr Ser Pro Lys Leu Trp Ile Tyr
35 40 45

Asp Thr Ser Lys Leu Ala Ser Gly Val Pro Gly Arg Phe Ser Gly Ser
50 55 60

Gly Ser Gly Asn Ser Tyr Ser Leu Thr Ile Ser Ser Met Glu Ala Glu
65 70 75 80

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

Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
100 105

<210> 265

<211> 119

<212> PRT

<213> Artificial Sequence

<400> 265

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

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

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

255

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

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

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

Thr Arg Phe His Tyr Gly Ser Ser Pro Phe Asp Asn Trp Gly Gln Gly
 100 105 110

Thr Thr Leu Thr Val Ser Ser
 115

- <210> 266
- <211> 107
- <212> PRT
- <213> Artificial Sequence

- <400> 266

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

256

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

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

Tyr Tyr Thr Ser Arg Leu His Ser Gly Val Pro Ser Arg Phe Ser Gly
50 55 60

Ser Gly Ser Gly Thr Asp Tyr Ser Leu Thr Ile Ser Asn Leu Glu Gln
65 70 75 80

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

Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
100 105

<210> 267

<211> 118

<212> PRT

<213> Artificial Sequence

<400> 267

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

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

Gly Met Asn Trp Val Lys Gln Ala Pro Gly Lys Gly Phe Lys Trp Met
 35 40 45

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

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

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

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

Ser Val Thr Val Ser Ser

115

<210> 268

<211> 108

<212> PRT

<213> Artificial Sequence

<400> 268

Glu Asn 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 Arg Ala Ser Ser Ser Val Ser Ser Ser
 20 25 30

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

Ile Tyr Ser 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 Val Glu
65 70 75 80

Ala Glu Asp Ala Ala Thr Tyr Tyr Cys Gln Gln Tyr Ser Ala Tyr Leu

85 90 95

Tyr Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys

100 105

<210> 269

<211> 122

<212> PRT

<213> Artificial Sequence

<400> 269

Gln Val Gln Leu Gln Gln Pro Gly Ala Glu Leu Val Arg Pro Gly Ala

1 5 10 15

Ser Val Lys Leu Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Thr Tyr

20 25 30

Trp Ile Asn Trp Val Arg Gln Arg Pro Gly Gln Gly Leu Glu Trp Ile

35 40 45

Gly Asn Ile Tyr Pro Ser Asp Ser Tyr Thr Asn Tyr Asn Gln Lys Phe

50 55 60

Lys Asp Lys Ala Ser Leu Thr Val Asp Lys Ser Ser Asn Thr Ala Tyr

260

65 70 75 80

Met Gln Leu Ser Ser Pro Thr Ser Glu Asp Ser Ala Val Tyr Tyr Cys

85 90 95

Ala Arg Glu Ala Gly Asp Gly Thr His Tyr Tyr Ala Ile Asp Tyr Trp

100 105 110

Gly Gln Gly Thr Ser Val Thr Val Ser Ser

115 120

$\langle 210 \rangle$ 270

<211> 107

<212> PRT

<213> Artificial Sequence

 $\langle 400 \rangle$ 270

Asn Ile Val Met Thr Gln Ser Pro Lys Ser Met Ser Met Ser Val Gly

1 5 10 15

Glu Arg Val Thr Leu Ser Cys Lys Ala Ser Glu Asn Val Gly Thr Tyr

20 25 30

Val Ser Trp Tyr Gln Gln Lys Pro Glu Gln Ser Pro Lys Leu Leu Ile

35 40 45

Tyr Gly Ala Ser Asn Arg Tyr Pro Gly Val Pro Asp Arg Phe Thr Gly
50 55 60

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

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

Thr Phe Gly Gly Gly Thr Asn Leu Glu Ile Lys
100 105

<210> 271
<211> 117
<212> PRT
<213> Artificial Sequence

<400> 271

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

Leu Val Lys Leu Ser Cys Lys Ala Ser Gly Phe Asn Ile Lys Asp Tyr

	20	25	30	
	Tyr Met His Trp Val Lys Arg Arg Pro Glu Gln Gly Leu Glu Trp Ile			
	35	40	45	
	Gly Trp Ile Asp Pro Glu Asn Gly Asn Thr Ile Tyr Asp Pro Lys Phe			
	50	55	60	
	Gln Asp Lys Ala Ser Ile Thr Ala Asp Thr Ser Ser Asn Thr Ala Tyr			
	65	70	75	80
	Leu Gln Leu Ser Ser Leu Thr Ser Glu Asp Thr Ala Val Tyr Tyr Cys			
	85	90	95	
	Ala Glu Gly Leu Pro Trp Tyr Phe Asp Tyr Trp Gly Gln Gly Thr Thr			
	100	105	110	
	Leu Thr Val Ser Ser			
	115			

<210> 272

<211> 106

<212> PRT

<213> Artificial Sequence

<400> 272

Gln Ile Ile 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 Asp Met
 20 25 30

Asn Trp Tyr Gln Gln Lys Pro Arg Ser Ser Pro Thr Pro Trp Ile Tyr
 35 40 45

Leu Thr Ser Asn Leu Ser Ser Gly Val Pro Asp 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 Gly Asn Pro Leu Thr
 85 90 95

Phe Gly Ala Gly Thr Arg Leu Glu Leu Lys
 100 105

<210> 273
<211> 114
<212> PRT
<213> Artificial Sequence

<400> 273

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

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

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

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

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Pro 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 Asp Trp Val Asp Tyr Trp Gly Gln Gly Thr Thr Leu Thr Val
100 105 110

Ser Ser

<210> 274
<211> 107
<212> PRT
<213> Artificial Sequence

<400> 274

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

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

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

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

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

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

Thr Phe Gly Gly Gly Thr Lys Leu Glu Met Lys
 100 105

<210> 275

<211> 123

<212> PRT

<213> Artificial Sequence

<400> 275

Gln Val Gln Leu Gln Gln Pro Gly Ala Glu Leu Val Arg 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

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

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

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

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

Thr Arg Phe Gly Ser Ser Gly Tyr Pro Asp Tyr Tyr Thr Met Glu Tyr
100 105 110

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

<210> 276

<211> 107

<212> PRT

<213> Artificial Sequence

<400> 276

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

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

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

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

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

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

Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
100 105

<210> 277

<211> 121

<212> PRT

<213> Artificial Sequence

<400> 277

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

Ser Val Lys Ile Ser Cys Lys Ala Ser Gly Tyr Ala Phe Asn Asn Ser
 20 25 30

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

Gly Arg Ile Tyr Pro Gly Asp Gly Asp Thr Asp Tyr Asn Gly Lys Phe
 50 55 60

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

Met Gln Leu Ser Ser Leu Thr Ser Val Asp Ser Ala Val Tyr Phe Cys
 85 90 95

Ala Arg Leu Asp Gly Asn Tyr Tyr Tyr Trp Tyr Phe Asp Val Trp Gly
 100 105 110

Ala Gly Thr Thr Val Thr Val Ser Ser
 115 120

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

<400> 278

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

Gln Pro Ala Ser Ile Ser Cys Lys Ser Ser Gln Ser Leu Leu Asp Ser
 20 25 30

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

Pro Lys Arg Leu Ile Tyr Leu Val Ser Lys Leu Asp Ser Gly Val Pro
 50 55 60

Asp Arg Phe Thr 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 Trp Gln Gly
 85 90 95

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

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<400> 279

Gly Tyr Tyr Trp Ser
1 5

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<211> 16
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<213> Artificial Sequence

<400> 280

Glu Ile Asn His Gly Gly Tyr Val Thr Tyr Asn Pro Ser Leu Glu Ser
1 5 10 15

<210> 281
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<213> Artificial Sequence

<400> 281

Asp Tyr Gly Pro Gly Asn Tyr Asp Trp Tyr Phe Asp Leu

1 5 10

<210> 282

<211> 11

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Arg Ala Ser Gln Ser Val Ser Ser Tyr Leu Ala

1 5 10

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<211> 7

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<213> Artificial Sequence

<400> 283

Asp Ala Ser Asn Arg Ala Thr

1 5

<210> 284

<211> 11

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<400> 284

Gln Gln Arg Ser Asn Trp Pro Pro Ala Leu Thr
1 5 10

<210> 285
<211> 5
<212> PRT
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<400> 285

Asp Tyr Trp Met Ser
1 5

<210> 286
<211> 17
<212> PRT
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<400> 286

Asp Ile Lys Asn Asp Gly Ser Tyr Thr Asn Tyr Ala Pro Ser Leu Thr
1 5 10 15

Asn

<210> 287
<211> 5
<212> PRT
<213> Artificial Sequence

<400> 287

Glu Leu Thr Gly Thr
1 5

<210> 288
<211> 17
<212> PRT
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<400> 288

Lys Ser Ser Gln Ser Leu Leu Ser Ser Gly Asn Gln Lys Asn Tyr Leu
1 5 10 15

Ala

<210> 289

<211> 7

<212> PRT

<213> Artificial Sequence

<400> 289

Tyr Ala Ser Thr Arg Gln Ser

1 5

<210> 290

<211> 9

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Leu Gln Tyr Asp Arg Tyr Pro Phe Thr

1 5

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<211> 6

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<400> 291

Ser Thr Tyr Trp Ile Ser

1 5

<210> 292
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<400> 292

Lys Ile Tyr Pro Gly Asp Ser Tyr Thr Asn Tyr Ser Pro Ser Phe Gln
1 5 10 15

Gly

<210> 293
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<400> 293

Arg Gly Tyr Gly Ile Phe Asp Tyr
1 5

<210> 294
<211> 11
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<400> 294

Ser Gly Asp Asn Ile Gly Asp Gln Tyr Ala His

1 5 10

<210> 295

<211> 7

<212> PRT

<213> Artificial Sequence

<400> 295

Gln Asp Lys Asn Arg Pro Ser

1 5

<210> 296

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<400> 296

Ala Thr Tyr Thr Gly Phe Gly Ser Leu Ala Val

1 5 10

<210> 297

<211> 5

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<400> 297

Asp Tyr Tyr Met Asn
1 5

<210> 298
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<400> 298

Tyr Ile Ser Ser Ser Ala Ser Gly Ser Thr Ile Tyr Tyr Ala Asp Ser
1 5 10 15

Val Lys Gly

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<400> 299

Val Val Pro Ala Gly Ser Gly Trp Arg Trp Phe Asp Pro

1 5 10

<210> 300

<211> 14

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<400> 300

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

1 5 10

<210> 301

<211> 7

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<213> Artificial Sequence

<400> 301

Glu Val Ser Lys Arg Pro Ser

1 5

<210> 302

<211> 11

<212> PRT

<213> Artificial Sequence

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Ser Ser His Ala Gly Ser Asn Asn Phe Tyr Val

1 5 10

<210> 303

<211> 7

<212> PRT

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<400> 303

Ser Asn Ser Ala Ala Trp Asn

1 5

<210> 304

<211> 18

<212> PRT

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<400> 304

Arg Thr Tyr Tyr Arg Ser Lys Trp Tyr Asn Asp Tyr Ala Pro Ser Val

1 5 10 15

Glu Ser

<210> 305
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<400> 305

Asp Pro Pro Tyr Val Leu Ser Thr Phe Asp Ile
1 5 10

<210> 306
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<400> 306

Thr Arg Ser Ser Gly Asn Ile Ala Ser Phe Tyr Val Gln
1 5 10

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Glu Asp Asp Gln Arg Pro Ser

1 5

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<400> 308

Gln Ser Tyr Asp Thr Asn Asn Val Ile

1 5

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Ser Asn Ser Ala Ala Trp Asn

1 5

<210> 310

<211> 18

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<400> 310

Arg Thr Tyr Tyr Arg Ser Arg Trp Tyr Ser Asp Tyr Ala Ser Ser Val
1 5 10 15

Glu Ser

<210> 311
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<400> 311

Asp Pro Pro Tyr Val Leu Ser Thr Phe Asp Ile
1 5 10

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Thr Arg Ser Ser Gly Asn Ile Ala Ser Phe Tyr Val Gln
1 5 10

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Glu Asp Asp Gln Arg Pro Ser
1 5

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<400> 314

Gln Ser Tyr Asp Thr Asn Asn Val Ile
1 5

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Ser Asp Ser Ala Ala Trp Asn
1 5

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

Glu Ser

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<400> 317

Asp Pro Pro Tyr Val Leu Ser Thr Phe Asp Ile
1 5 10

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Thr Arg Ser Ser Gly Asn Ile Ala Ser Phe Tyr Val Gln
1 5 10

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Glu Asp Asp Gln Arg Pro Ser
1 5

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<400> 320

Gln Ser Tyr Asp Thr Asn Asn Val Ile
1 5

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Ser Asn Ser Ala Ala Trp Asn

1 5

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Arg Thr Tyr Tyr Arg Ser Lys Trp Tyr Asn Asp Tyr Ala Pro Ser Val

1 5 10 15

Glu Ser

<210> 323

<211> 11

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<400> 323

Asp Pro Pro Tyr Val Leu Ser Thr Phe Asp Ile

1 5 10

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<211> 13

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Thr Arg Ser Ser Gly Asn Ile Ala Ser Phe Tyr Val Gln

1 5 10

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<400> 325

Asp Asp Asp Gln Arg Pro Ser

1 5

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Gln Ser Tyr Asp Thr Asn Asn Val Ile
1 5

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Ser Asn Ser Ala Ala Trp Asn
1 5

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

Glu Ser

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Asp Pro Pro Tyr Val Leu Ser Thr Phe Asp Ile
1 5 10

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Thr Arg Ser Ser Gly Asn Ile Ala Ser Phe Tyr Val Gln
1 5 10

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Glu Asp Asp Gln Arg Pro Ser

1 5

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Gln Ser Tyr Asp Thr Asn Lys Val Ile

1 5

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Ser Asn Ser Ala Ala Trp Asn

1 5

<210> 334

<211> 18

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<400> 334

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

Glu Ser

<210> 335
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Asp Pro Pro Tyr Val Leu Ser Thr Phe Asp Ile
1 5 10

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Thr Arg Ser Ser Gly Asn Ile Ala Ser Phe Tyr Val Gln
1 5 10

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Glu Asp Asp Gln Arg Pro Ser
1 5

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Gln Ser Tyr Asp Ile Asn Lys Val Ile
1 5

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Ser Asn Ser Ala Ala Trp Asn

1 5

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Arg Thr Tyr Tyr Arg Ser Lys Trp Tyr Asn Asp Tyr Ala Pro Ser Val

1 5 10 15

Glu Ser

<210> 341

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Asp Pro Pro Tyr Val Leu Ser Thr Phe Asp Ile

1 5 10

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Thr Arg Ser Ser Gly Asn Ile Ala Ser Phe Tyr Val Gln

1 5 10

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Asp Asp Asp Gln Arg Pro Ser

1 5

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Gln Ser Tyr Asp Ile Asn Lys Val Ile

1 5

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Gly Tyr Met Pro Asp Gly Tyr Tyr
1 5

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Ile Asn Pro Arg Thr Gly Gly Thr
1 5

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

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Asn Ile Gly Ser Lys Ser
1 5

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Tyr Asp Ser
1

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Gln Val Trp Asp Ser Ser Ser Val Val

1 5

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Gly Tyr Ser Phe Thr Gly Tyr Tyr

1 5

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Val Asn Pro Lys Ser Gly Gly Thr

1 5

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Ala Arg Glu Gly Trp Ala Arg Arg Ile Asp Leu Asp Glu

1 5 10

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Asn Ile Gly Ser Lys Ser

1 5

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Tyr Asp Ser

1

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Gln Val Trp Asp Ser Ser Ser Val Val
1 5

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Gly Tyr Ser Phe Ser Gly Tyr Tyr
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Val Asn Pro Met Ser Gly Gly Thr
1 5

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Ala Arg Glu Gly Met Ala Met Arg Leu Glu Leu Asp Lys

1 5 10

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Asn Ile Gly Ser Lys Ser

1 5

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Tyr Asp Ser

1

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Gln Val Trp Asp Ser Ser Ser Val Val
1 5

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Gly Tyr Asn Phe Gly Gly Tyr Tyr
1 5

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Val Asn Pro His Ser Gly Gly Thr

1 5

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Ala Arg Glu Gly Glu Ala Trp Gly Leu Asp Leu Asp Leu

1 5 10

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<211> 6

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Asn Ile Gly Ser Lys Ser

1 5

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Tyr Asp Ser

1

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<400> 368

Gln Val Trp Asp Ser Ser Ser Val Val

1 5

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Gly Tyr Asn Trp Thr Gly Tyr Tyr

1 5

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Ile Asn Pro Met Ala Gly Gly Thr

1 5

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Ala Arg Glu Gly Trp Ala Arg Gly Val Glu Leu Asp Met

1 5 10

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Asn Ile Gly Ser Lys Ser

1 5

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Tyr Asp Ser

1

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Gln Val Trp Asp Ser Ser Ser Val Val

1 5

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Gly Tyr Gln Met Arg Gly Tyr Tyr

1 5

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Ile Asn Pro Asn Ser Gly Gly Thr
1 5

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Ala Arg Glu Gly Glu Ala Val Gly Leu Asp Leu Asp Tyr
1 5 10

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Asn Ile Gly Ser Lys Ser
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Tyr Asp Ser
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Gln Val Trp Asp Ser Ser Ser Val Val
1 5

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Gly Tyr Asn Phe Gly Gly Tyr Tyr

1 5

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Val Asn Pro Lys Ser Gly Gly Thr

1 5

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<211> 13

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<213> Artificial Sequence

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Ala Arg Glu Gly Glu Ala Val Gly Leu Asp Leu Asp Tyr

1 5 10

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<211> 6

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Asn Ile Gly Ser Lys Ser

1 5

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Tyr Asp Ser

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Gln Val Trp Asp Ser Ser Ser Val Val

1 5

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<211> 8

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Gly Tyr Thr Phe Thr Gly Tyr Tyr
1 5

<210> 388

<211> 8

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Ile Asn Pro Asn Ser Gly Gly Thr
1 5

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Ala Arg Glu Gly Glu Ala Val Gly Leu Asp Leu Asp Tyr
1 5 10

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Asn Ile Gly Ser Lys Ser

1 5

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<211> 3

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Tyr Asp Ser

1

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<211> 9

<212> PRT

<213> Artificial Sequence

<400> 392

Gln Val Trp Asp Ser Ser Ser Val Val

1 5

<210> 393
<211> 8
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<400> 393

Gly Tyr Thr Phe Thr Gly Tyr Tyr
1 5

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Ile Asn Pro Asn Ser Gly Gly Thr
1 5

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<400> 395

Ala Arg Glu Gly Glu Ala Val Gly Leu Asp Leu Asp Tyr

1 5 10

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<400> 396

Asn Ile Gly Ser Lys Ser

1 5

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<211> 3

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Tyr Asp Ser

1

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<400> 398

Gln Val Trp Asp Ser Ser Ser Val Val

1 5

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Gly Tyr Thr Phe Thr Ser Tyr Tyr Ile Tyr

1 5 10

<210> 400

<211> 17

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<400> 400

Asn Ile Trp Pro Gly Asn Gly Gly Thr Phe Tyr Gly Glu Lys Phe Met

1 5 10 15

Gly

<210> 401
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<400> 401

Arg Pro Asp Tyr Ser Gly Asp Asp Tyr Phe Asp Tyr
1 5 10

<210> 402
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<213> Artificial Sequence

<400> 402

Lys Leu Asn Ser Gly Asn Ile Gly Ser Tyr Tyr Val His
1 5 10

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<400> 403

Arg Asp Asp Lys Arg Pro Asp
1 5

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His Ser Tyr Asp Ser Thr Ile Thr Pro Val
1 5 10

<210> 405
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<400> 405

Asp Tyr Thr Phe Asn Asp Tyr Trp Val Ser
1 5 10

<210> 406
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<400> 406

Glu Ile Tyr Pro Asn Ser Gly Ala Thr Asn Phe Asn Gly Lys Phe Arg
1 5 10 15

Gly

<210> 407
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<400> 407

Glu Tyr Thr Arg Asp Trp Phe Ala Tyr
1 5

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<400> 408

Arg Ser Ser Gln Ser Leu Leu Asp Ser Asp Gly Asn Thr Tyr Leu Tyr
1 5 10 15

<210> 409

<211> 7

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<400> 409

Leu Val Ser Asn Leu Gly Ser

1 5

<210> 410

<211> 9

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<213> Artificial Sequence

<400> 410

Met Gln Pro Thr His Ala Pro Tyr Thr

1 5

<210> 411

<211> 10

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<400> 411

Asp Tyr Thr Phe Asn Asp Tyr Trp Val Ser

1 5 10

<210> 412
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<400> 412

Glu Ile Tyr Pro Asn Ser Gly Ala Thr Asn Phe Asn Gly Lys Phe Arg
1 5 10 15

Gly

<210> 413
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<400> 413

Glu Tyr Thr Arg Asp Trp Phe Ala Tyr
1 5

<210> 414
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<400> 414

Arg Ser Ser Gln Ser Leu Leu Asp Ser Asp Gly Asn Thr Tyr Leu Tyr
1 5 10 15

<210> 415

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<400> 415

Leu Val Ser Asn Leu Gly Ser
1 5

<210> 416

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<213> Artificial Sequence

<400> 416

Gln Pro Thr His Ala Pro Tyr Thr
1 5

<210> 417

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<400> 417

Gly Phe Thr Phe Gly Tyr Ser Tyr

1 5

<210> 418

<211> 8

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Ile Gly Ser Gly Ser Ser Tyr Thr

1 5

<210> 419

<211> 11

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<400> 419

Ala Arg Val Tyr Ser Ser Pro Gly Ile Asp Tyr

1 5 10

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<400> 420

Gln Ser Ile Ser Ser Tyr
1 5

<210> 421
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<400> 421

Ala Ala Ser
1

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<400> 422

Gln Gln Tyr Tyr Thr Trp Val Pro Phe Thr
1 5 10

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<400> 423

Gly Phe Asn Phe Gly Tyr Ser Tyr
1 5

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Ile Gly Ser Thr Ser Ser His Thr
1 5

<210> 425
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<400> 425

Ala Arg Val Tyr Ser Ser Pro Gly Ile Asp Tyr

1 5 10

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<211> 6

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<400> 426

Gln Ser Ile Gly Ser Thr

1 5

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<400> 427

Gly Ala Ser

1

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<400> 428

Gln Gln Tyr Tyr Thr Trp Val Pro Phe Thr
1 5 10

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<400> 429

Asp Tyr Ala Met His
1 5

<210> 430
<211> 17
<212> PRT
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<400> 430

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

Gly

<210> 431
<211> 9
<212> PRT
<213> Artificial Sequence

<400> 431

Ser Asn Tyr Gly Tyr Ala Met Asp Tyr
1 5

<210> 432
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<212> PRT
<213> Artificial Sequence

<400> 432

Lys Ser Ser Gln Ser Leu Leu Tyr Ser Ser Asn Gln Lys Asn Tyr Leu
1 5 10 15

Ala

<210> 433
<211> 7
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<213> Artificial Sequence

<400> 433

Trp Ala Ser Thr Arg Glu Ser
1 5

<210> 434

<211> 9

<212> PRT

<213> Artificial Sequence

<400> 434

Gln Gln Tyr Leu Ser Tyr Pro Trp Thr
1 5

<210> 435

<211> 5

<212> PRT

<213> Artificial Sequence

<400> 435

Thr Tyr Ala Met His
1 5

<210> 436

<211> 17

<212> PRT
<213> Artificial Sequence

<400> 436

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

Asp

<210> 437
<211> 9
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<213> Artificial Sequence

<400> 437

Leu Gly Gly His Trp Tyr Phe Asp Val
1 5

<210> 438
<211> 15
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<213> Artificial Sequence

<400> 438

Arg Ala Ser Glu Ser Val Asp Asn Tyr Gly Ile Ser Phe Met Asn

1 5 10 15

<210> 439

<211> 7

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<213> Artificial Sequence

<400> 439

Ser Ala Ser Asn Gln Gly Ser

1 5

<210> 440

<211> 9

<212> PRT

<213> Artificial Sequence

<400> 440

Gln Gln Ser Lys Glu Val Pro Trp Thr

1 5

<210> 441

<211> 5

<212> PRT

<213> Artificial Sequence

<400> 441

Gly Tyr Trp Ile Glu

1 5

<210> 442

<211> 17

<212> PRT

<213> Artificial Sequence

<400> 442

Glu Ile Leu Pro Gly Gly Gly Thr Val Tyr Tyr Asn Glu Lys Phe Lys

1 5 10 15

Gly

<210> 443

<211> 8

<212> PRT

<213> Artificial Sequence

<400> 443

Trp Gly Arg Ser Trp Phe Thr His

1 5

<210> 444
<211> 16
<212> PRT
<213> Artificial Sequence

<400> 444

Arg Ser Ser Gln Ser Ile Val His Ser Asn Gly Asn Thr Tyr Leu Glu
1 5 10 15

<210> 445
<211> 7
<212> PRT
<213> Artificial Sequence

<400> 445

Glu Val Ser Asn Arg Phe Ser
1 5

<210> 446
<211> 9
<212> PRT
<213> Artificial Sequence

<400> 446

Phe Gln Gly Ser His Val Pro Arg Thr

1 5

<210> 447

<211> 5

<212> PRT

<213> Artificial Sequence

<400> 447

Ser Tyr Trp Met Asp

1 5

<210> 448

<211> 17

<212> PRT

<213> Artificial Sequence

<400> 448

Asn Ile Tyr Pro Asp Ser Gly Gly Thr Asn Tyr Ala Glu Lys Phe Lys

1 5 10 15

Ser

<210> 449

<211> 12

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<213> Artificial Sequence

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Glu Glu Ala Leu Gly Gly Tyr Tyr Glu Leu Thr Tyr

1 5 10

<210> 450

<211> 15

<212> PRT

<213> Artificial Sequence

<400> 450

Arg Ala Ser Gln Ser Val Ser Thr Ser Ser Tyr Ser Tyr Met His

1 5 10 15

<210> 451

<211> 7

<212> PRT

<213> Artificial Sequence

<400> 451

Tyr Ala Ser Asn Leu Glu Ser

1 5

<210> 452
<211> 9
<212> PRT
<213> Artificial Sequence

<400> 452

Gln His Ser Trp Glu Ile Pro Tyr Thr
1 5

<210> 453
<211> 5
<212> PRT
<213> Artificial Sequence

<400> 453

Asn Tyr Trp Leu Gly
1 5

<210> 454
<211> 17
<212> PRT
<213> Artificial Sequence

<400> 454

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

Asp

<210> 455

<211> 10

<212> PRT

<213> Artificial Sequence

<400> 455

His Gly Ser Phe Arg Ser Ala Met Asp Tyr

1 5 10

<210> 456

<211> 11

<212> PRT

<213> Artificial Sequence

<400> 456

Arg Ala Ser Glu Asn Ile Tyr Ser Tyr Leu Ala

1 5 10

<210> 457

<211> 7

<212> PRT

<213> Artificial Sequence

<400> 457

Asn Ala Lys Thr Leu Ala Asp

1 5

<210> 458

<211> 9

<212> PRT

<213> Artificial Sequence

<400> 458

Gln His His Tyr Gly Thr Pro Pro Thr

1 5

<210> 459

<211> 121

<212> PRT

<213> Artificial Sequence

<400> 459

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

1 5 10 15

Thr Leu Ser Leu Thr Cys Ala Val Tyr Gly Gly Ser Phe Ser Gly Tyr

	20	25	30	
	Tyr Trp Ser Trp Ile Arg Gln Ser Pro Glu Lys Gly Leu Glu Trp Ile			
	35	40	45	
	Gly Glu Ile Asn His Gly Gly Tyr Val Thr Tyr Asn Pro Ser Leu Glu			
	50	55	60	
	Ser Arg Val Thr Ile Ser Val Asp Thr Ser Lys Asn Gln Phe Ser Leu			
	65	70	75	80
	Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr Cys Ala			
	85	90	95	
	Arg Asp Tyr Gly Pro Gly Asn Tyr Asp Trp Tyr Phe Asp Leu Trp Gly			
	100	105	110	
	Arg Gly Thr Leu Val Thr Val Ser Ser			
	115	120		
	<210> 460			
	<211> 109			
	<212> PRT			
	<213> Artificial Sequence			

<400> 460

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

Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Ser Ser Tyr
 20 25 30

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

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

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

Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Arg Ser Asn Trp Pro Pro
 85 90 95

Ala Leu Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
 100 105

<210> 461
<211> 114
<212> PRT
<213> Artificial Sequence

<400> 461

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 Tyr
 20 25 30

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

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

Thr Asn 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 Leu Thr Gly Thr Trp Gly Gln Gly Thr Met Val Thr Val
100 105 110

Ser Ser

<210> 462
<211> 113
<212> PRT
<213> Artificial Sequence

<400> 462

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

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

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

Pro Pro Lys Leu Leu Ile Tyr Tyr Ala Ser Thr Arg Gln 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 Leu Gln
 85 90 95

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

Lys

- <210> 463
- <211> 116
- <212> PRT
- <213> Artificial Sequence

<400> 463

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 Ser Phe Ser Thr Tyr
 20 25 30

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

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

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

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

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

Thr Val Ser Ser
115

<210> 464

<211> 108

<212> PRT

<213> Artificial Sequence

<400> 464

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

Thr Ala Ser Ile Thr Cys Ser Gly Asp Asn Ile Gly Asp Gln Tyr Ala
 20 25 30

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

Gln Asp Lys Asn 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 Gly Thr Gln Ala Met
65 70 75 80

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

Ala Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
 100 105

<210> 465

<211> 124

<212> PRT

<213> Artificial Sequence

<400> 465

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 Val Ser Asp Tyr
 20 25 30

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

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

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

Leu Tyr Leu His Met Asp Ser Leu Arg Ala Glu Asp Thr Ala Ile Tyr
 85 90 95

Phe Cys Ala Arg Val Val Pro Ala Gly Ser Gly Trp Arg Trp Phe Asp
 100 105 110

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

<210> 466
<211> 111
<212> PRT
<213> Artificial Sequence

<400> 466

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

Ser Val Thr Ile Ser Cys Thr Gly Ile Ser Ser Asp Val Gly Ala Tyr
20 25 30

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

Met Ile Tyr Glu Val Ser Lys Arg Pro Ser Gly Val Pro Asp Arg Phe
50 55 60

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

Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser His Ala Gly Ser
85 90 95

Asn Asn Phe Tyr Val Phe Gly Thr Gly Thr Lys Leu Thr Val Leu
100 105 110

<210> 467
<211> 123
<212> PRT
<213> Artificial Sequence

<400> 467

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

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

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

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

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

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

Tyr Tyr Cys Ala Arg Asp Pro Pro Tyr Val Leu Ser Thr Phe Asp Ile
 100 105 110

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

<210> 468
<211> 110
<212> PRT
<213> Artificial Sequence

<400> 468

Asn Phe Met Leu Thr Gln Pro Pro Ser Val Ser Glu Ser Pro Gly Lys
1 5 10 15

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

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

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

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

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

Asn Asn Val Ile Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
100 105 110

<210> 469
<211> 123
<212> PRT
<213> Artificial Sequence

<400> 469

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

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

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

Trp Leu Gly Arg Thr Tyr Tyr Arg Ser Arg Trp Tyr Ser Asp Tyr Ala
50 55 60

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

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

Tyr Tyr Cys Ala Arg Asp Pro Pro Tyr Val Leu Ser Thr Phe Asp Ile
100 105 110

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

<210> 470

<211> 110

<212> PRT

<213> Artificial Sequence

<400> 470

Asn Phe Met Leu Thr Gln Pro Pro Ser Val Ser Glu Ser Pro Gly Lys

1 5 10 15

Thr Val Thr Ile Ser Cys Thr Arg Ser Ser Gly Asn Ile Ala Ser Phe

20 25 30

Tyr Val Gln Trp Phe Gln Gln Arg Pro Gly Ser Ser Pro Thr Thr Val

35 40 45

Ile Tyr Glu Asp Asp Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser

50 55 60

Gly Ser Ile Asp Arg Ser Ser Asn Ser Ala Ser Leu Thr Ile Ser Gly

65 70 75 80

Leu Thr Thr Asp Asp Glu Ala Asp Tyr Tyr Cys Gln Ser Tyr Asp Thr

85 90 95

Asn Asn Val Ile Phe Gly Gly Gly Thr Lys Leu Thr Val Leu

100 105 110

352

<210> 471
<211> 123
<212> PRT
<213> Artificial Sequence

<400> 471

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

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

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

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

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

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

Tyr Tyr Cys Ala Arg Asp Pro Pro Tyr Val Leu Ser Thr Phe Asp Ile
100 105 110

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

<210> 472
<211> 110
<212> PRT
<213> Artificial Sequence

<400> 472

Asn Phe Met Leu Thr Gln Pro Pro Ser Val Ser Glu Ser Pro Gly Lys
1 5 10 15

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

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

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

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

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

Asn Asn Val Ile Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
100 105 110

<210> 473

 $\langle 211 \rangle$ 123

<212> PRT

<213> Artificial Sequence

<400> 473

Gln Val Gln Leu Gln Gln Ser Gly Pro Gly Leu Val Lys Pro Ser Gln

1 5 10 15

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

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

355

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

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

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

Tyr Tyr Cys Ala Arg Asp Pro Pro Tyr Val Leu Ser Thr Phe Asp Ile
 100 105 110

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

<210> 474
<211> 110
<212> PRT
<213> Artificial Sequence

<400> 474

Asn Phe Met Leu Thr Gln Pro Pro Ser Val Ser Glu Ser Pro Gly Lys
1 5 10 15

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

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

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

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

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

Asn Asn Val Ile Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
100 105 110

<210> 475

<211> 123

<212> PRT

<213> Artificial Sequence

<400> 475

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

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

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

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

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

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

Tyr Tyr Cys Ala Arg Asp Pro Pro Tyr Val Leu Ser Thr Phe Asp Ile
 100 105 110

Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser

358

115 120

<210> 476

<211> 110

<212> PRT

<213> Artificial Sequence

<400> 476

Asn Phe Met Leu Thr Gln Pro Pro Ser Val Ser Glu Ser Pro Gly Lys

1 5 10 15

Thr Val Thr Ile Ser Cys Thr Arg Ser Ser Gly Asn Ile Ala Ser Phe

20 25 30

Tyr Val Gln Trp Phe Gln Gln Arg Pro Gly Ser Ser Pro Thr Thr Val

35 40 45

Ile Tyr Glu Asp Asp Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser

50 55 60

Gly Ser Ile Asp Arg Ser Ser Asn Ser Ala Ser Leu Thr Ile Ser Gly

65 70 75 80

Leu Thr Thr Asp Asp Glu Ala Asp Tyr Tyr Cys Gln Ser Tyr Asp Thr

85 90 95

Asn Lys Val Ile Phe Gly Gly Gly Thr Lys Leu Thr Val Leu

100 105 110

<210> 477

<211> 123

<212> PRT

<213> Artificial Sequence

<400> 477

Gln Val Gln Leu Gln Gln Ser Gly Pro Gly Leu Val Lys Pro Ser Gln

1 5 10 15

Thr Leu Ser Leu Thr Cys Ala Ile Ser Gly Asp Ser Val Ser Ser Asn

20 25 30

Ser Ala Ala Trp Asn Trp Ile Arg Gln Ser Pro Ser Arg Gly Leu Glu

35 40 45

Trp Leu Gly Arg Thr Tyr Tyr Arg Ser Lys Trp Tyr Asn Asp Tyr Ala

50 55 60

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

360

65 70 75 80

Gln Phe Ser Leu Gln Leu Ser Ser Val Thr Pro Glu Asp Thr Ala Val

85 90 95

Tyr Tyr Cys Ala Arg Asp Pro Pro Tyr Val Leu Ser Thr Phe Asp Ile

100 105 110

Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser

115 120

<210> 478

 $\langle 211 \rangle$ 110

<212> PRT

<213> Artificial Sequence

<400> 478

Asn Phe Met Leu Thr Gln Pro Pro Ser Val Ser Glu Ser Pro Gly Lys

1 5 10 15

Thr Val Thr Ile Ser Cys Thr Arg Ser Ser Gly Asn Ile Ala Ser Phe

20 25 30

Tyr Val Gln Trp Phe Gln Gln Arg Pro Gly Ser Ser Pro Thr Thr Val

Ile Tyr Glu Asp Asp Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser
35 40 45
50 55 60

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

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

Asn Lys Val Ile Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
100 105 110

<210> 479
<211> 123
<212> PRT
<213> Artificial Sequence

<400> 479

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

Thr Leu Ser Leu Thr Cys Ala Ile Ser Gly Asp Ser Val Ser Ser Asn

	20	25	30
Ser	Ala	Ala	Trp
Asn	Trp	Ile	Arg
Gln	Ser	Pro	Ser
Arg	Gly	Leu	Glu
35	40	45	
Trp	Leu	Gly	Arg
Thr	Tyr	Tyr	Arg
Ser	Lys	Trp	Tyr
Asn	Asp	Tyr	Ala
50	55	60	
Pro	Ser	Val	Glu
Ser	Arg	Ile	Thr
Ile	Asn	Pro	Asp
Thr	Ser	Lys	Asn
65	70	75	80
Gln	Phe	Ser	Leu
Gln	Leu	Ser	Ser
Val	Thr	Pro	Glu
Asp	Thr	Ala	Val
85	90	95	
Tyr	Tyr	Cys	Ala
Arg	Asp	Pro	Pro
Tyr	Val	Leu	Ser
Thr	Phe	Asp	Ile
100	105	110	
Trp	Gly	Gln	Gly
Thr	Met	Val	Thr
Val	Ser	Ser	
115	120		

<210> 480

<211> 110

<212> PRT

<213> Artificial Sequence

<400> 480

Asn Phe Met Leu Thr Gln Pro Pro Ser Val Ser Glu Ser Pro Gly Lys
1 5 10 15

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

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

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

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

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

Asn Lys Val Ile Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
 100 105 110

<210> 481
<211> 120
<212> PRT
<213> Artificial Sequence

<400> 481

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

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Met Pro Asp Gly Tyr
 20 25 30

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

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

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 482
<211> 106
<212> PRT
<213> Artificial Sequence

<400> 482

Ser Tyr Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ala Pro Gly Lys
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 Ile Tyr
35 40 45

Tyr 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 Ser Val Val
 85 90 95

Phe Gly Gly Gly Thr Gln Leu Thr Val Leu
 100 105

<210> 483

<211> 120

<212> PRT

<213> Artificial Sequence

<400> 483

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

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

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

Gly Trp Val Asn Pro Lys Ser Gly Gly Thr Asn Tyr Ala 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 Gly Trp Ala Arg Arg Ile Asp Leu Asp Glu Trp Gly Gln
 100 105 110

Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 484
<211> 106
<212> PRT
<213> Artificial Sequence

<400> 484

Ser Tyr Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ala Pro Gly Lys
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 Ile Tyr
35 40 45

Tyr 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 Ser Val Val
85 90 95

Phe Gly Gly Gly Thr Gln Leu Thr Val Leu
100 105

<210> 485

<211> 117

<212> PRT

<213> Artificial Sequence

<400> 485

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

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

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

Gly Trp Val Asn Pro Met Ser Gly Gly Thr Asn Tyr Ala 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 Gly Met Ala Met Arg Leu Glu Leu Asp Lys Trp Gly Gln
 100 105 110

Gly Thr Leu Val Thr
 115

<210> 486
<211> 106
<212> PRT
<213> Artificial Sequence

<400> 486

Ser Tyr Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ala Pro Gly Lys
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 Ile Tyr
 35 40 45

Tyr 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 Ser Val Val
 85 90 95

Phe Gly Gly Gly Thr Gln Leu Thr Val Leu
100 105

<210> 487
<211> 120
<212> PRT
<213> Artificial Sequence

<400> 487

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

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

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

Gly Trp Val Asn Pro His Ser Gly Gly Thr Asn Tyr Ala 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 Gly Glu Ala Trp Gly Leu Asp Leu Asp Leu Trp Gly Gln
100 105 110

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 488
<211> 106
<212> PRT
<213> Artificial Sequence

<400> 488

Ser Tyr Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ala Pro Gly Lys
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 Ile Tyr
35 40 45

Tyr 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 Ser Val Val
 85 90 95

Phe Gly Gly Gly Thr Gln Leu Thr Val Leu
 100 105

<210> 489
<211> 120
<212> PRT
<213> Artificial Sequence

<400> 489

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

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Asn Trp Thr Gly Tyr
 20 25 30

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

Gly Trp Ile Asn Pro Met Ala Gly Gly Thr Asn Tyr Ala 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 Gly Trp Ala Arg Gly Val Glu Leu Asp Met Trp Gly Gln
100 105 110

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 490

<211> 106

<212> PRT

<213> Artificial Sequence

<400> 490

Ser Tyr Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ala Pro Gly Lys

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 Ile Tyr

35 40 45

Tyr 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 Ser Val Val

85 90 95

Phe Gly Gly Gly Thr Gln Leu Thr Val Leu

100 105

<210> 491

<211> 120

<212> PRT

<213> Artificial Sequence

<400> 491

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

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

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

Gly Trp Val Asn Pro Lys Ser Gly Gly Thr Asn Tyr Ala 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 Gly Glu Ala Val Gly Leu Asp Leu Asp Tyr Trp Gly Gln
 100 105 110

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 492
<211> 106
<212> PRT
<213> Artificial Sequence

<400> 492

Ser Tyr Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ala Pro Gly Lys
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 Ile Tyr
35 40 45

Tyr 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 Ser Val Val
85 90 95

Phe Gly Gly Gly Thr Gln Leu Thr Val Leu
100 105

<210> 493
<211> 120
<212> PRT
<213> Artificial Sequence

<400> 493

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

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

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

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

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

Tyr 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 Ser Val Val
85 90 95

Phe Gly Gly Gly Thr Gln Leu Thr Val Leu
100 105

<210> 495
<211> 120
<212> PRT
<213> Artificial Sequence

<400> 495

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

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

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

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

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 496

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

<400> 496

Ser Tyr Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ala Pro Gly Lys
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 Ile Tyr
 35 40 45

Tyr 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 Ser Val Val
 85 90 95

Phe Gly Gly Gly Thr Gln Leu Thr Val Leu

100 105

<210> 497

<211> 120

<212> PRT

<213> Artificial Sequence

<400> 497

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

1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Gly Tyr

20 25 30

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

35 40 45

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

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 498
<211> 106
<212> PRT
<213> Artificial Sequence

<400> 498

Ser Tyr Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ala Pro Gly Lys
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 Ile Tyr
35 40 45

Tyr Asp Ser Asp Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser
385

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 Ser Val Val

85 90 95

Phe Gly Gly Gly Thr Gln Leu Thr Val Leu

100 105

<210> 499

<211> 121

<212> PRT

<213> Artificial Sequence

<400> 499

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

1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr

20 25 30

Tyr Ile Tyr Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Ile

35

40

45

Gly Asn Ile Trp Pro Gly Asn Gly Gly Thr Phe Tyr Gly Glu Lys Phe

50

55

60

Met Gly Arg Ala Thr Phe Thr Ala Asp Thr Ser Thr Ser Thr Ala Tyr

65

70

75

80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys

85

90

95

Ala Arg Arg Pro Asp Tyr Ser Gly Asp Asp Tyr Phe Asp Tyr Trp Gly

100

105

110

Gln Gly Thr Leu Val Thr Val Ser Ser

115

120

<210> 500

 $\langle 211 \rangle$ 111

<212> PRT

<213> Artificial Sequence

<400> 500

Ser Val Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln

1 5 10 15

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

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

Ile Tyr Arg Asp Asp Lys Arg Pro Asp Gly Ile Pro Glu Arg Phe Ser
 50 55 60

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

Val Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys His Ser Tyr Asp Ser
 85 90 95

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

<210> 501

<211> 118

<212> PRT

<213> Artificial Sequence

<400> 501

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

Ser Val Lys Val Ser Cys Lys Ala Ser Asp Tyr Thr Phe Asn Asp Tyr
 20 25 30

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

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

Arg Gly Arg Ala Thr Leu Thr Val Asp Asn 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

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

Leu Val Thr Val Ser Ser
115

<210> 502
<211> 112
<212> PRT
<213> Artificial Sequence

<400> 502

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

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

Asp Gly Asn Thr Tyr Leu Tyr Trp Phe Gln Gln Arg Pro Gly Gln Ser
 35 40 45

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

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

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

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

<210> 503
<211> 118
<212> PRT
<213> Artificial Sequence

<400> 503

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

Ser Val Lys Val Ser Cys Lys Ala Ser Asp Tyr Thr Phe Asn Asp Tyr
20 25 30

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

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

Arg Gly Arg Ala Thr Leu Thr Val Asp Asn 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

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

Leu Val Thr Val Ser Ser
 115

<210> 504
<211> 112
<212> PRT
<213> Artificial Sequence

<400> 504

Asp Val 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 Ser Ser Gln Ser Leu Leu Asp Ser
 20 25 30

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

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

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

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

Thr His Ala Pro Tyr Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
100 105 110

<210> 505
<211> 117
<212> PRT
<213> Artificial Sequence

<400> 505

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 Gly Tyr Ser
20 25 30

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

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

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

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

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

Val Thr Val Ser Ser
115

<210> 506
<211> 107
<212> PRT

<213> Artificial Sequence

<400> 506

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

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

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

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

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

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

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

<210> 507
<211> 120
<212> PRT
<213> Artificial Sequence

<400> 507

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

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

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

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

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

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

Tyr Cys Ala Arg Val Tyr Ser Ser Pro Gly Ile Asp Tyr Trp Gly Gln
100 105 110

Gly Thr Leu Val Thr Val Ser Ser
115 120

- <210> 508
 - <211> 107
 - <212> PRT
 - <213> Artificial Sequence
- <400> 508

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

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

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

Tyr Gly Ala 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 Tyr Thr Trp Val Pro
 85 90 95

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

<210> 509
<211> 118
<212> PRT
<213> Artificial Sequence

<400> 509

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

Ser Val Lys Ile Ser Cys Lys Gly Ser Gly Tyr Thr Phe Thr Asp Tyr
 20 25 30

Ala Met His Trp Val Lys Gln Ser His Val Lys Ser Leu Glu Trp Ile
 35 40 45

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

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

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

Ala Pro Ser Asn Tyr Gly Tyr Ala Met Asp Tyr Trp Gly Gln Gly Thr
 100 105 110

Ser Val Thr Val Ser Ser
 115

- <210> 510
- <211> 113
- <212> PRT
- <213> Artificial Sequence

<400> 510

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

Glu Lys Val Ser Val Ser Cys Lys Ser Ser Gln Ser Leu Leu Tyr Ser
20 25 30

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

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

Tyr Leu Ser Tyr Pro Trp Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile
100 105 110

Asn

<210> 511

<211> 118

<212> PRT

<213> Artificial Sequence

<400> 511

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

1 5 10 15

Ser Val Lys Met Ser Cys Lys Ala Ser Gly Tyr Ile Phe Thr Thr Tyr

20 25 30

Ala Met His Trp Val Lys Gln Arg Pro Gly Gln Gly Leu Glu Trp Ile

35 40 45

Gly Tyr Ile Asn Pro Thr Thr Val Tyr Thr Ile Tyr Asn Gln Lys Phe

50 55 60

Lys Asp Lys Ala Thr Leu Thr Ala Asp Lys Ser Ser Ser Thr Ala Tyr

65 70 75 80

Met Gln Leu Ser Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr Tyr Cys

85 90 95

Ala Arg Leu Gly Gly His Trp Tyr Phe Asp Val Trp Gly Ala Gly Thr

100 105 110

401

Thr Val Thr Val Ser Ser
115

<210> 512
<211> 111
<212> PRT
<213> Artificial Sequence

<400> 512

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 Glu Ser Val Asp Asn Tyr
20 25 30

Gly Ile Ser Phe Met Asn Trp Phe Gln Gln Lys Pro Gly Gln Pro Pro
35 40 45

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

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

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

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

<210> 513
<211> 117
<212> PRT
<213> Artificial Sequence

<400> 513

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

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

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

Gly Glu Ile Leu Pro Gly Gly Gly Thr Val Tyr Tyr Asn Glu Lys Phe
50 55 60

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

Pro Lys Leu Leu Ile Tyr Glu 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 Ile Tyr Tyr Cys Phe Gln Gly
85 90 95

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

<210> 515
<211> 121
<212> PRT
<213> Artificial Sequence

<400> 515

Gln Val Gln Leu Gln Gln Pro Glu Ser Glu Leu Val Arg Pro Gly Gly
1 5 10 15
405

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

Trp Met Asp Trp Val Lys Gln Arg His Gly Gln Gly Leu Glu Trp Ile
35 40 45

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

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

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

Thr Arg Glu Glu Ala Leu Gly Gly Tyr Tyr Glu Leu Thr Tyr Trp Gly
100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ala
115 120

<210> 516

<211> 111

<212> PRT

<213> Artificial Sequence

<400> 516

Asp Ile Val Leu Thr Gln Ser Pro Ala Ser Leu Pro 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 His Ser Trp

85 90 95

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

100 105 110

<210> 517

<211> 119

<212> PRT

<213> Artificial Sequence

<400> 517

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

1 5 10 15

Ser Val Lys Ile Ser Cys Lys Ala Ser Gly Tyr Ala Phe Thr Asn Tyr

20 25 30

Trp Leu Gly Trp Val Lys Gln Arg Pro Gly His Gly Leu Glu Trp Ile

35 40 45

Gly Asp Ile Tyr Pro Gly Asn Gly Asn Asn Tyr Tyr Ser Glu Lys Phe

50 55 60

Lys Asp Lys Ala Thr Leu Thr Ala Asp Lys Ser Ser Ser Thr Val Tyr

65 70 75 80

Ile Arg Leu Ser Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr Phe Cys

408

85 90 95

Ala Arg His Gly Ser Phe Arg Ser Ala Met Asp Tyr Trp Gly Gln Gly

100 105 110

Thr Ser Val Thr Val Ser Ser

115

<210> 518

<211> 107

<212> PRT

<213> Artificial Sequence

<400> 518

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

1 5 10 15

Glu Thr Val Thr Ile Thr Cys Arg Ala Ser Glu Asn Ile Tyr Ser Tyr

20 25 30

Leu Ala Trp Tyr Gln Gln Lys Gln Gly Lys Ser Pro Gln Leu Leu Val

35 40 45

Tyr Asn Ala Lys Thr Leu Ala Asp Gly Val Pro Ser Arg Phe Ser Gly

409

50 55 60

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

65 70 75 80

Glu Asp Phe Gly Ser Tyr Tyr Cys Gln His His Tyr Gly Thr Pro Pro

85 90 95

Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys

100 105