SEQUENCE LISTING

<110> Agency for Science, Technology and Research

<120> OPTIMISED HEAVY CHAIN AND LIGHT CHAIN SIGNAL PEPTIDES FOR THE PRODUCTION OF RECOMBINANT ANTIBODY THERAPEUTICS

<130> 9869SG2041

<150> 201207629-5
<151> 2012-10-12

<160> 316

<170> PatentIn version 3.5

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<212> PRT
<213> Homo sapiens

<400> 1

Met Asp Trp Thr Trp Arg Phe Leu Phe Val Val Ala Ala Ala Thr Gly
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Val Gln Ser

<210> 2
<211> 22
<212> PRT
<213> Homo sapiens

<400> 2

Met Asp Met Arg Val Pro Ala Gln Leu Leu Gly Leu Leu Leu Leu Trp
1 5 10 15

Leu Ser Gly Ala Arg Cys
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<210> 3
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<213> Homo sapiens

<400> 3

Met Glu Phe Gly Leu Ser Trp Val Phe Leu Val Ala Leu Phe Arg Gly
1 5 10 15

Val Gln Cys

<210> 4
<211> 22

<212> PRT
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<400> 4

Met Lys Tyr Leu Leu Pro Thr Ala Ala Ala Gly Leu Leu Leu Leu Ala
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Ala Gln Pro Ala Met Ala
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<210> 5
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<213> Homo sapiens

<400> 5

Met Glu Leu Gly Leu Ser Trp Ile Phe Leu Leu Ala Ile Leu Lys Gly
1 5 10 15

Val Gln Cys

<210> 6
<211> 19
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<213> Homo sapiens

<400> 6

Met Glu Leu Gly Leu Arg Trp Val Phe Leu Val Ala Ile Leu Glu Gly
1 5 10 15

Val Gln Cys

<210> 7
<211> 19
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<213> Homo sapiens

<400> 7

Met Lys His Leu Trp Phe Phe Leu Leu Leu Val Ala Ala Pro Arg Trp
1 5 10 15

Val Leu Ser

<210> 8
<211> 19
<212> PRT
<213> Homo sapiens

<400> 8

Met Asp Trp Thr Trp Arg Ile Leu Phe Leu Val Ala Ala Ala Thr Gly
1 5 10 15

Ala His Ser

<210> 9
<211> 19
<212> PRT
<213> Homo sapiens

<400> 9

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

Val Gln Cys

<210> 10
<211> 26
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<213> Homo sapiens

<400> 10

Met Asp Leu Leu His Lys Asn Met Lys His Leu Trp Phe Phe Leu Leu
1 5 10 15

Leu Val Ala Ala Pro Arg Trp Val Leu Ser
20 25

<210> 11
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<212> PRT
<213> Homo sapiens

<400> 11

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

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

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

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

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

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

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

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

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

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

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

Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro
            180                 185                 190

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

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

Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly
225                 230                 235                 240

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

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

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

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

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

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

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

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

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

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

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

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

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

Gly Lys
450

<210> 12
<211> 453
<212> PRT
<213> Homo sapiens

<400> 12

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
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Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Tyr Thr Phe Thr Asn Tyr
20 25 30

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

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

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

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

Ala Lys Tyr Pro His Tyr Tyr Gly Ser Ser His Trp Tyr Phe Asp Val
            100                 105                 110

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Leu Ser Pro Gly Lys
    450
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<210> 13
<211> 450
<212> PRT
<213> Homo sapiens

<400> 13

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

Ser Met Lys Leu Ser Cys Val Ala Ser Gly Phe Ile Phe Ser Asn His
            20                  25                  30

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

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

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

Val Tyr Leu Gln Met Thr Asp Leu Arg Thr Glu Asp Thr Gly Val Tyr
                85                  90                  95
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```
Tyr Cys Ser Arg Asn Tyr Tyr Gly Ser Thr Tyr Asp Tyr Trp Gly Gln
            100                 105                 110

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

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

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

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

Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro
            180                 185                 190

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

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

Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly
225                 230                 235                 240

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

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

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

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

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

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

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

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

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

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

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

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

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

Gly Lys
450

<210> 14
<211> 451
<212> PRT
<213> Homo sapiens

<400> 14

Gln Val Gln Leu Gln Gln Pro Gly Ala 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 Ser Tyr
20 25 30

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

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

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

100 105 110

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

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

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

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

Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val
180 185 190

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Pro Gly Lys
450

<210> 15
<211> 451
<212> PRT
<213> Homo sapiens

<400> 15

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

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

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

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

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

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

Ala Lys Val Ser Tyr Leu Ser Thr Ala Ser Ser Leu Asp Tyr Trp Gly
100 105 110

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

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

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

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

Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val
            180                 185                 190

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Pro Gly Lys
    450
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<210> 16
<211> 214
<212> PRT
<213> Homo sapiens

<400> 16

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

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

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

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

Ser Arg 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 His Tyr Thr Thr Pro Pro
                85                  90                  95

Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg Thr Val Ala Ala
            100                 105                 110

Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu Lys Ser Gly
        115                 120                 125
```

```
Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro Arg Glu Ala
    130                 135                 140

Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly Asn Ser Gln
145                 150                 155                 160

Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr Ser Leu Ser
                165                 170                 175

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

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

Phe Asn Arg Gly Glu Cys
    210


<210>  17
<211>  214
<212>  PRT
<213>  Homo sapiens

<400>  17

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 Ser Ala Ser Gln Asp Ile Ser Asn Tyr
            20                  25                  30

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

Tyr Phe Thr Ser Ser Leu His 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 Ser Thr Val Pro Trp
                85                  90                  95

Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg Thr Val Ala Ala
            100                 105                 110

Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu Lys Ser Gly
        115                 120                 125
```

```
Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro Arg Glu Ala
    130                 135                 140

Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly Asn Ser Gln
145                 150                 155                 160

Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr Ser Leu Ser
                165                 170                 175

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

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

Phe Asn Arg Gly Glu Cys
    210
```

<210> 18
<211> 214
<212> PRT
<213> Homo sapiens

<400> 18

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

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

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

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

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

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

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

Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu Lys Ser Gly
        115                 120                 125
```

```
Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro Arg Glu Ala
    130                 135                 140

Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly Asn Ser Gln
145                 150                 155                 160

Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr Ser Leu Ser
                165                 170                 175

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

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

Phe Asn Arg Gly Glu Cys
    210
```

<210> 19
<211> 213
<212> PRT
<213> Homo sapiens

<400> 19

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

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

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

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

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

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

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

Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu Lys Ser Gly Thr
        115                 120                 125
```

```
Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro Arg Glu Ala Lys
    130                 135                 140

Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly Asn Ser Gln Glu
145                 150                 155                 160

Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr Ser Leu Ser Ser
                165                 170                 175

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

Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro Val Thr Lys Ser Phe
        195                 200                 205

Asn Arg Gly Glu Cys
    210
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<210> 20
<211> 214
<212> PRT
<213> Homo sapiens

<400> 20

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

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

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

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

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

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

Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg Thr Val Ala Ala
            100                 105                 110

Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu Lys Ser Gly
        115                 120                 125
```

Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro Arg Glu Ala
130 135 140

Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly Asn Ser Gln
145 150 155 160

Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr Ser Leu Ser
165 170 175

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

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

Phe Asn Arg Gly Glu Cys
210

<210> 21
<211> 1353
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<400> 21
gaggttcagc tggtggagtc tggcggtggc ctggtgcagc ccgggggctc tctccgtttg 60

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aaagccaaag ggcagccccg agaaccacag gtgtacaccc tgcccccatc ccgggatgag 1080

ctgaccaaga accaggtcag cctgacctgc ctggtcaaag gcttctatcc cagcgacatc 1140

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<211> 642
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<210> 43
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<210> 46
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Val Leu Ser

<210> 47
<211> 19
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<400> 47

Met Lys His Leu Trp Phe Phe Leu Leu Leu Val Ala Ala Pro Arg Trp
1 5 10 15

Val Leu Ser

<210> 48
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<400> 48

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1 5 10 15

Ala His Ser

<210> 49
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<400> 49

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Val Gln Cys

<210> 50
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Ala His Ser

<210> 51
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<212> PRT
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<400> 51

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Leu Val Ala Ala Pro Arg Trp Val Leu Ser
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Val Gln Cys

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<210> 54
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Val Gln Cys

<210> 56
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Val Leu Ser

<210> 57
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<400> 57

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Val Gln Cys

<210> 58
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<400> 58

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Val Gln Cys

<210> 59
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<400> 59

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Val Gln Ser

<210> 60
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Val Gln Cys

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Val Leu Ser

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Val Gln Cys

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<400> 64

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Val Gln Cys

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Leu Val Ala Ala Pro Arg Trp Val Leu Ser
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Val Leu Ser

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Val Gln Cys

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<212> PRT
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<400> 69

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

Ala Gln Ser

<210> 70
<211> 19
<212> PRT
<213> Homo sapiens

<400> 70

Met Asp Trp Thr Trp Arg Leu Leu Phe Leu Val Ala Ala Val Thr Ser
1 5 10 15

Ala His Ser

<210> 71
<211> 19
<212> PRT
<213> Homo sapiens

<400> 71

Met Glu Phe Gly Leu Ser Trp Val Phe Leu Val Ala Leu Leu Arg Gly
1 5 10 15

Val Gln Cys

<210> 72
<211> 19
<212> PRT
<213> Homo sapiens

<400> 72

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

Ala Pro Ser

<210> 73
<211> 19
<212> PRT
<213> Homo sapiens

<400> 73

Met Asp Trp Thr Trp Arg Val Phe Cys Leu Leu Ala Val Ala Pro Gly
1 5 10 15

Val Gln Ser

<210> 74
<211> 26
<212> PRT
<213> Homo sapiens

<400> 74

Met Asp Leu Met Cys Lys Lys Met Lys His Leu Trp Phe Phe Leu Leu
1 5 10 15

Leu Val Ala Ala Pro Arg Trp Val Leu Ser
20 25

<210> 75
<211> 19
<212> PRT
<213> Homo sapiens

<400> 75

Met Asp Trp Thr Trp Arg Ile Leu Phe Leu Ala Ala Ala Ala Thr Gly
1 5 10 15

Val Gln Ser

<210> 76
<211> 19
<212> PRT
<213> Homo sapiens

<400> 76

Met Lys His Leu Trp Phe Phe Leu Leu Leu Val Ala Ala Pro Arg Trp
1 5 10 15

Val Leu Ser

<210> 77
<211> 19
<212> PRT
<213> Homo sapiens

<400> 77

Met Glu Leu Gly Leu Ser Trp Val Phe Leu Val Ala Ile Leu Glu Gly
1 5 10 15

Val His Cys

<210> 78
<211> 26
<212> PRT

<213> Homo sapiens

<400> 78

Met Asp Leu Met Cys Lys Lys Met Lys His Leu Trp Phe Phe Leu Leu
1 5 10 15

Leu Val Ala Ala Pro Gly Trp Val Leu Ser
20 25

<210> 79
<211> 19
<212> PRT
<213> Homo sapiens

<400> 79

Met Glu Leu Gly Leu Cys Trp Val Phe Leu Val Ala Ile Leu Glu Gly
1 5 10 15

Val Pro Cys

<210> 80
<211> 19
<212> PRT
<213> Homo sapiens

<400> 80

Met Glu Leu Gly Leu Ser Trp Val Phe Leu Val Ala Ile Leu Glu Gly
1 5 10 15

Val Gln Cys

<210> 81
<211> 19
<212> PRT
<213> Homo sapiens

<400> 81

Met Lys His Leu Trp Phe Phe Leu Leu Leu Val Ala Ala Pro Arg Trp
1 5 10 15

Val Leu Ser

<210> 82
<211> 19
<212> PRT
<213> Homo sapiens

<400> 82

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Met Asp Trp Thr Trp Arg Val Phe Cys Leu Leu Ala Val Ala Pro Gly
1               5                  10                  15

Ala Asp Ser
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<210> 83
<211> 684
<212> PRT
<213> Homo sapiens

<400> 83

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Met Glu Leu Ser Leu Ser Trp Phe Phe Leu Leu Thr Ile Ile Gln Gly
1               5                  10                  15

Val Gln Cys Met Asp Leu Leu His Lys Asn Met Lys His Leu Trp Phe
            20                  25                  30

Phe Leu Leu Leu Val Ala Ala Pro Arg Trp Val Leu Ser Asx Ala Cys
        35                  40                  45

His Ile Gly Ala Met Asp Leu Leu His Lys Asn Met Lys His Leu Trp
    50                  55                  60

Phe Phe Leu Leu Leu Val Ala Ala Pro Arg Trp Val Leu Ser Met Lys
65                  70                  75                  80

His Leu Trp Phe Phe Phe Leu Leu Val Ala Ala Pro Arg Ser Val Leu
                85                  90                  95

Ser Asx Ala Cys His Ile Gly Ala Met Lys His Leu Trp Phe Phe Phe
            100                 105                 110

Leu Leu Val Ala Ala Pro Arg Ser Val Leu Ser Met Glu Leu Gly Leu
        115                 120                 125

Ser Trp Val Phe Leu Val Ser Leu Leu Ala Gly Val Gln Cys Asx Ala
    130                 135                 140

Cys His Ile Gly Ala Met Glu Leu Gly Leu Ser Trp Val Phe Leu Val
145                 150                 155                 160

Ser Leu Leu Ala Gly Val Gln Cys Met Glu Phe Gly Leu Ser Trp Ile
                165                 170                 175

Phe Leu Val Val Ile Ile Lys Gly Val Gln Cys Asx Ala Cys His Ile
            180                 185                 190
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Gly Ala Met Glu Phe Gly Leu Ser Trp Ile Phe Leu Val Val Ile Ile
195 200 205

Lys Gly Val Gln Cys Met Asp Trp Thr Trp Ser Ile Leu Phe Leu Val
210 215 220

Ala Ala Ala Thr Gly Ala Gln Ser Ala Ala His His Ile Gly Ala Met
225 230 235 240

Asp Trp Thr Trp Ser Ile Leu Phe Leu Val Ala Ala Ala Thr Gly Ala
245 250 255

Gln Ser Met Asp Trp Thr Trp Arg Leu Leu Phe Leu Val Ala Ala Val
260 265 270

Thr Ser Ala His Ser Ala Ala Leu His Ile Gly Ala Met Asp Trp Thr
275 280 285

Trp Arg Leu Leu Phe Leu Val Ala Ala Val Thr Ser Ala His Ser Met
290 295 300

Glu Phe Gly Leu Ser Trp Val Phe Leu Val Ala Leu Leu Arg Gly Val
305 310 315 320

Gln Cys Cys Ala Glu His Ile Gly Ala Met Glu Phe Gly Leu Ser Trp
325 330 335

Val Phe Leu Val Ala Leu Leu Arg Gly Val Gln Cys Met Gly Trp Thr
340 345 350

Trp Ser Ile Leu Phe Leu Val Ala Ala Thr Thr Gly Ala Pro Ser Cys
355 360 365

Ala Glu His Ile Gly Ala Met Gly Trp Thr Trp Ser Ile Leu Phe Leu
370 375 380

Val Ala Ala Thr Thr Gly Ala Pro Ser Met Asp Trp Thr Trp Arg Val
385 390 395 400

Phe Cys Leu Leu Ala Val Ala Pro Gly Val Gln Ser Asx Ala Cys His
405 410 415

Ile Gly Ala Met Asp Trp Thr Trp Arg Val Phe Cys Leu Leu Ala Val
420 425 430

Ala Pro Gly Val Gln Ser Met Asp Leu Met Cys Lys Lys Met Lys His
435 440 445

Leu Trp Phe Phe Leu Leu Leu Val Ala Ala Pro Arg Trp Val Leu Ser
450 455 460

Asx Ala Cys His Ile Gly Ala Met Asp Leu Met Cys Lys Lys Met Lys
465 470 475 480

His Leu Trp Phe Phe Leu Leu Leu Val Ala Ala Pro Arg Trp Val Leu
485 490 495

Ser Met Asp Trp Thr Trp Arg Ile Leu Phe Leu Ala Ala Ala Ala Thr
500 505 510

Gly Val Gln Ser Ala Ala His His Ile Gly Ala Met Asp Trp Thr Trp
515 520 525

Arg Ile Leu Phe Leu Ala Ala Ala Ala Thr Gly Val Gln Ser Met Lys
530 535 540

His Leu Trp Phe Phe Leu Leu Leu Val Ala Ala Pro Arg Trp Val Leu
545 550 555 560

Ser Ala Ala His His Ile Gly Ala Met Lys His Leu Trp Phe Phe Leu
565 570 575

Leu Leu Val Ala Ala Pro Arg Trp Val Leu Ser Met Glu Leu Gly Leu
580 585 590

Ser Trp Val Phe Leu Val Ala Ile Leu Glu Gly Val His Cys Asx Ala
595 600 605

Cys His Ile Gly Ala Met Glu Leu Gly Leu Ser Trp Val Phe Leu Val
610 615 620

Ala Ile Leu Glu Gly Val His Cys Met Asp Leu Met Cys Lys Lys Met
625 630 635 640

Lys His Leu Trp Phe Phe Leu Leu Leu Val Ala Ala Pro Gly Trp Val
645 650 655

Leu Ser Asx Ala Cys His Ile Gly Ala Met Asp Trp Thr Trp Ser Ile
660 665 670

Leu Phe Leu Val Ala Ala Ala Thr Gly Val His Ser
675 680

<210> 84

<211> 19
<212> PRT
<213> Homo sapiens

<400> 84

Met Glu Leu Gly Leu Ser Trp Ile Phe Leu Leu Ala Ile Leu Lys Gly
1 5 10 15

Val Gln Cys

<210> 85
<211> 19
<212> PRT
<213> Homo sapiens

<400> 85

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

Val Gln Cys

<210> 86
<211> 19
<212> PRT
<213> Homo sapiens

<400> 86

Met Asp Phe Gly Leu Ala Trp Val Phe Leu Val Ala Leu Leu Arg Gly
1 5 10 15

Val Gln Cys

<210> 87
<211> 19
<212> PRT
<213> Homo sapiens

<400> 87

Met Glu Leu Gly Leu Arg Trp Val Leu Leu Val Ala Ile Leu Glu Gly
1 5 10 15

Val His Cys

<210> 88
<211> 19
<212> PRT
<213> Homo sapiens

<400> 88

Met Glu Phe Gly Leu Ser Trp Val Phe Leu Val Ala Leu Leu Arg Gly
1 5 10 15

Val Gln Cys

<210> 89
<211> 26
<212> PRT
<213> Homo sapiens

<400> 89

Met Gly Leu Leu His Lys Asn Met Lys His Leu Trp Phe Phe Leu Leu
1 5 10 15

Leu Val Ala Ala Pro Arg Trp Val Leu Ser
20 25

<210> 90
<211> 19
<212> PRT
<213> Homo sapiens

<400> 90

Met Arg His Leu Trp Phe Phe Leu Leu Leu Val Ala Ala Pro Arg Trp
1 5 10 15

Val Leu Ser

<210> 91
<211> 26
<212> PRT
<213> Homo sapiens

<400> 91

Met Asp Leu Leu His Lys Asn Met Lys His Leu Trp Phe Phe Leu Leu
1 5 10 15

Leu Val Ala Ala Pro Arg Trp Gly Leu Ser
20 25

<210> 92
<211> 18
<212> PRT
<213> Homo sapiens

<400> 92

Met Asp Trp Thr Trp Ile Leu Phe Leu Val Ala Ala Ala Thr Arg Val
1 5 10 15

His Ser

<210> 93
<211> 19
<212> PRT
<213> Homo sapiens

<400> 93

Met Asp Trp Thr Trp Arg Ile Leu Phe Leu Val Ala Ala Ala Thr Gly
1 5 10 15

Ala His Ser

<210> 94
<211> 21
<212> PRT
<213> Homo sapiens

<400> 94

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

Val Gln Cys Gln Val
20

<210> 95
<211> 26
<212> PRT
<213> Homo sapiens

<400> 95

Met Asp Leu Leu His Lys Asn Met Lys His Leu Trp Phe Phe Leu Leu
1 5 10 15

Leu Val Ala Ala Pro Arg Trp Val Leu Ser
20 25

<210> 96
<211> 26
<212> PRT
<213> Homo sapiens

<400> 96

Met Asp Leu Leu His Lys Asn Met Lys His Leu Trp Phe Phe Leu Leu
1 5 10 15

Leu Val Ala Ala Pro Arg Trp Val Leu Ser
20 25

<210> 97
<211> 26
<212> PRT
<213> Homo sapiens

<400> 97

Met Asp Leu Leu His Lys Asn Met Lys His Leu Trp Phe Phe Leu Leu
1 5 10 15

Leu Val Ala Ala Pro Arg Trp Val Leu Ser
20 25

<210> 98
<211> 19
<212> PRT
<213> Homo sapiens

<400> 98

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

Val Gln Cys

<210> 99
<211> 19
<212> PRT
<213> Homo sapiens

<400> 99

Met Asp Trp Thr Trp Arg Ile Leu Phe Leu Val Ala Ala Ala Thr Asp
1 5 10 15

Ala Tyr Ser

<210> 100
<211> 19
<212> PRT
<213> Homo sapiens

<400> 100

Met Glu Phe Gly Leu Ser Trp Val Phe Leu Val Ala Leu Leu Arg Gly
1 5 10 15

Val Gln Cys

<210> 101
<211> 19
<212> PRT
<213> Homo sapiens

<400> 101

Met Lys His Leu Trp Phe Phe Leu Leu Leu Val Ala Ala Pro Arg Trp
1 5 10 15

Val Leu Ser

<210> 102
<211> 19
<212> PRT
<213> Homo sapiens

<400> 102

Met Glu Leu Gly Leu Arg Trp Val Phe Leu Val Ala Ile Leu Glu Gly
1 5 10 15

Val Gln Cys

<210> 103
<211> 20
<212> PRT
<213> Homo sapiens

<400> 103

Met Ser Val Ser Phe Leu Ile Phe Leu Pro Val Leu Gly Leu Pro Trp
1 5 10 15

Gly Val Leu Ser
20

<210> 104
<211> 19
<212> PRT
<213> Homo sapiens

<400> 104

Met Lys His Leu Trp Phe Phe Leu Leu Leu Val Ala Thr Pro Arg Trp
1 5 10 15

Val Leu Ser

<210> 105

<211> 19
<212> PRT
<213> Homo sapiens

<400> 105

Met Asp Trp Thr Trp Arg Phe Leu Phe Val Val Ala Ala Ala Thr Gly
1 5 10 15

Val Gln Ser

<210> 106
<211> 26
<212> PRT
<213> Homo sapiens

<400> 106

Met Asp Leu Leu Cys Lys Asn Met Lys His Leu Trp Phe Phe Leu Leu
1 5 10 15

Leu Val Ala Ala Pro Arg Trp Val Leu Ser
20 25

<210> 107
<211> 19
<212> PRT
<213> Homo sapiens

<400> 107

Met Glu Phe Gly Leu Ser Trp Val Phe Leu Val Ala Leu Phe Arg Gly
1 5 10 15

Val Gln Cys

<210> 108
<211> 19
<212> PRT
<213> Homo sapiens

<400> 108

Met Asp Trp Thr Trp Arg Ile Leu Phe Leu Val Ala Ala Ala Thr Gly
1 5 10 15

Ala His Ser

<210> 109
<211> 26
<212> PRT
<213> Homo sapiens

<400> 109

Met Glu Leu Met Cys Lys Lys Met Lys His Leu Trp Phe Phe Leu Leu
1 5 10 15

Leu Val Ala Ala Pro Arg Trp Val Leu Ser
20 25

<210> 110
<211> 19
<212> PRT
<213> Homo sapiens

<400> 110

Met Glu Leu Gly Leu Ser Trp Val Phe Leu Val Ala Ile Leu Glu Gly
1 5 10 15

Val Gln Cys

<210> 111
<211> 19
<212> PRT
<213> Homo sapiens

<400> 111

Met Glu Phe Gly Leu Ser Trp Val Phe Leu Val Ala Leu Leu Arg Gly
1 5 10 15

Val Gln Cys

<210> 112
<211> 19
<212> PRT
<213> Homo sapiens

<400> 112

Met Glu Leu Gly Leu Ser Trp Val Phe Leu Val Ala Ile Leu Glu Gly
1 5 10 15

Val Gln Cys

<210> 113
<211> 23
<212> PRT
<213> Homo sapiens

<400> 113

Met Cys Lys Thr Met Lys Gln Leu Trp Phe Phe Leu Leu Leu Val Ala
1 5 10 15

Ala Pro Arg Trp Val Leu Ser
20

<210> 114
<211> 19
<212> PRT
<213> Homo sapiens

<400> 114

Met Glu Leu Gly Leu Asn Trp Val Leu Leu Val Ala Ile Leu Glu Gly
1 5 10 15

Val Gln Cys

<210> 115
<211> 19
<212> PRT
<213> Homo sapiens

<400> 115

Met Lys His Leu Trp Phe Phe Leu Leu Leu Val Ala Ala Pro Arg Trp
1 5 10 15

Val Leu Ser

<210> 116
<211> 19
<212> PRT
<213> Homo sapiens

<400> 116

Met Glu Leu Gly Leu Arg Trp Val Phe Leu Val Ala Ile Leu Glu Gly
1 5 10 15

Val Gln Cys

<210> 117
<211> 19
<212> PRT
<213> Homo sapiens

<400> 117

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

Val Gln Cys

<210> 118
<211> 19
<212> PRT
<213> Homo sapiens

<400> 118

Met Glu Phe Gly Leu Ser Trp Val Leu Leu Val Val Phe Leu Gln Gly
1 5 10 15

Val Gln Cys

<210> 119
<211> 19
<212> PRT
<213> Homo sapiens

<400> 119

Met Asp Trp Thr Trp Arg Phe Leu Phe Val Val Ala Ala Ala Thr Gly
1 5 10 15

Val Gln Ser

<210> 120
<211> 19
<212> PRT
<213> Homo sapiens

<400> 120

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

Val Gln Cys

<210> 121
<211> 19
<212> PRT
<213> Homo sapiens

<400> 121

Met Asp Cys Thr Trp Arg Ile Leu Leu Leu Val Ala Val Ala Thr Gly
1 5 10 15

Thr His Ala

<210> 122
<211> 19
<212> PRT
<213> Homo sapiens

<400> 122

Met Asp Thr Leu Cys Ser Thr Leu Leu Leu Leu Thr Ile Pro Ser Trp
1 5 10 15

Val Leu Ser

<210> 123
<211> 19
<212> PRT
<213> Homo sapiens

<400> 123

Met Asp Leu Gly Leu Tyr Trp Val Phe Leu Val Ala Ile Leu Glu Gly
1 5 10 15

Val Glu Cys

<210> 124
<211> 19
<212> PRT
<213> Homo sapiens

<400> 124

Met Asp Trp Thr Trp Arg Ile Leu Phe Leu Val Ala Ala Ala Thr Ser
1 5 10 15

Ala His Ser

<210> 125
<211> 19
<212> PRT
<213> Homo sapiens

<400> 125

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

Val Gln Cys

<210> 126

<211> 26
<212> PRT
<213> Homo sapiens

<400> 126

Met Asp Leu Leu His Lys Asn Met Lys His Leu Trp Phe Phe Leu Leu
1 5 10 15

Leu Val Ala Ala Pro Arg Trp Val Leu Ser
20 25

<210> 127
<211> 19
<212> PRT
<213> Homo sapiens

<400> 127

Met Glu Leu Gly Leu Cys Trp Val Phe Leu Val Ala Ile Leu Glu Gly
1 5 10 15

Val Gln Cys

<210> 128
<211> 19
<212> PRT
<213> Homo sapiens

<400> 128

Met Asp Trp Thr Trp Arg Ile Leu Phe Leu Val Thr Ala Ala Thr Gly
1 5 10 15

Ala His Ser

<210> 129
<211> 19
<212> PRT
<213> Homo sapiens

<400> 129

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

Ala His Ser

<210> 130
<211> 19
<212> PRT
<213> Homo sapiens

<400> 130

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

Val Cys Ala

<210> 131
<211> 19
<212> PRT
<213> Homo sapiens

<400> 131

Met Asp Trp Thr Trp Arg Ile Leu Phe Leu Val Ala Ala Ala Thr Ser
1 5 10 15

Ala His Ser

<210> 132
<211> 19
<212> PRT
<213> Homo sapiens

<400> 132

Met Glu Leu Gly Leu Ser Trp Val Phe Leu Val Ala Ile Leu Glu Gly
1 5 10 15

Val Gln Cys

<210> 133
<211> 19
<212> PRT
<213> Homo sapiens

<400> 133

Met Asp Arg Thr Trp Arg Leu Leu Phe Val Val Ala Ala Ala Thr Gly
1 5 10 15

Val Gln Ser

<210> 134
<211> 19
<212> PRT
<213> Homo sapiens

<400> 134

Met Asp Trp Thr Trp Arg Phe Leu Phe Val Val Ala Ala Ala Thr Gly
1 5 10 15

Val Gln Ser

<210> 135
<211> 19
<212> PRT
<213> Homo sapiens

<400> 135

Met Asp Trp Thr Trp Arg Phe Leu Ile Val Val Ala Ala Ala Thr Gly
1 5 10 15

Val Gln Ser

<210> 136
<211> 19
<212> PRT
<213> Homo sapiens

<400> 136

Met Asp Trp Thr Trp Arg Ile Leu Phe Leu Val Ala Ala Ala Thr Gly
1 5 10 15

Ala His Ser

<210> 137
<211> 19
<212> PRT
<213> Homo sapiens

<400> 137

Met Glu Leu Gly Leu Arg Trp Val Phe Leu Ile Ala Thr Leu Ala Gly
1 5 10 15

Ala Arg Cys

<210> 138
<211> 19
<212> PRT
<213> Homo sapiens

<400> 138

Met Glu Leu Gly Leu Arg Trp Val Phe Leu Ile Ala Thr Leu Ala Gly
1 5 10 15

Ala Arg Cys

<210> 139
<211> 19
<212> PRT
<213> Homo sapiens

<400> 139

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

Val Gln Cys

<210> 140
<211> 19
<212> PRT
<213> Homo sapiens

<400> 140

Met Asp Trp Thr Trp Arg Val Phe Cys Leu Leu Ala Val Ile Ser Gly
1 5 10 15

Gly Gln Ser

<210> 141
<211> 19
<212> PRT
<213> Homo sapiens

<400> 141

Met Gly His Pro Trp Phe Phe Leu Leu Leu Val Thr Ala Pro Arg Trp
1 5 10 15

Val Leu Ser

<210> 142
<211> 19
<212> PRT
<213> Homo sapiens

<400> 142

Met Asp Trp Thr Trp Arg Phe Leu Phe Val Val Ala Ala Ala Ala Gly
1 5 10 15

Val Gln Ser

<210> 143
<211> 19
<212> PRT
<213> Homo sapiens

<400> 143

Met Asp Trp Thr Trp Arg Ile Leu Phe Leu Val Ala Ala Ala Thr Glu
1 5 10 15

Ala His Ser

<210> 144
<211> 19
<212> PRT
<213> Homo sapiens

<400> 144

Met Gly Trp Thr Trp Arg Phe Leu Phe Val Val Ala Ala Ala Ala Gly
1 5 10 15

Val Gln Ser

<210> 145
<211> 19
<212> PRT
<213> Homo sapiens

<400> 145

Met Asp Trp Thr Trp Arg Phe Leu Phe Val Val Ala Ala Ala Thr Gly
1 5 10 15

Val Gln Ser

<210> 146
<211> 19
<212> PRT
<213> Homo sapiens

<400> 146

Met Asp Trp Thr Trp Arg Phe Leu Leu Val Val Ala Ala Ala Thr Gly
1 5 10 15

Val Pro Ser

<210> 147

<211> 19
<212> PRT
<213> Homo sapiens

<400> 147

Met Asp Trp Thr Trp Arg Phe Leu Phe Val Val Ala Ala Ala Thr Gly
1 5 10 15

Val Gln Ser

<210> 148
<211> 19
<212> PRT
<213> Homo sapiens

<400> 148

Met Asp Trp Thr Trp Arg Phe Leu Phe Val Val Ala Ala Ala Thr Ser
1 5 10 15

Val Gln Ser

<210> 149
<211> 19
<212> PRT
<213> Homo sapiens

<400> 149

Met Asp Trp Thr Trp Arg Ile Leu Phe Leu Val Ala Ala Ala Thr Gly
1 5 10 15

Ala His Ser

<210> 150
<211> 19
<212> PRT
<213> Homo sapiens

<400> 150

Met Lys His Leu Trp Phe Phe Leu Leu Leu Val Ala Ala Pro Arg Trp
1 5 10 15

Val Leu Ser

<210> 151
<211> 19
<212> PRT
<213> Homo sapiens

<400> 151

Met Asp Cys Thr Trp Arg Ile Leu Leu Leu Val Ala Ala Ala Thr Gly
1 5 10 15

Thr His Ala

<210> 152
<211> 19
<212> PRT
<213> Homo sapiens

<400> 152

Met Asp Trp Thr Trp Arg Ile Leu Phe Leu Val Ala Ala Ala Thr Gly
1 5 10 15

Ala His Ser

<210> 153
<211> 19
<212> PRT
<213> Homo sapiens

<400> 153

Met Asp Trp Thr Trp Arg Phe Leu Phe Val Val Ala Ala Gly Thr Gly
1 5 10 15

Val Gln Ser

<210> 154
<211> 19
<212> PRT
<213> Homo sapiens

<400> 154

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

Val Gln Cys

<210> 155
<211> 19
<212> PRT
<213> Homo sapiens

<400> 155

Met Asp Trp Thr Trp Arg Phe Leu Phe Val Val Ala Ala Ala Thr Gly
1 5 10 15

Val Gln Ser

<210> 156
<211> 27
<212> PRT
<213> Homo sapiens

<400> 156

Met Ala Lys Thr Asn Leu Phe Leu Phe Leu Ile Phe Ser Leu Leu Leu
1 5 10 15

Ser Leu Ser Ser Ala Ala Gln Pro Ala Met Ala
20 25

<210> 157
<211> 19
<212> PRT
<213> Homo sapiens

<400> 157

Met Asp Trp Thr Trp Arg Phe Leu Phe Val Val Ala Ala Val Thr Gly
1 5 10 15

Val Gln Ser

<210> 158
<211> 19
<212> PRT
<213> Homo sapiens

<400> 158

Met Glu Leu Gly Leu Ser Trp Val Phe Leu Val Val Ile Leu Glu Gly
1 5 10 15

Val Gln Cys

<210> 159
<211> 19
<212> PRT
<213> Homo sapiens

<400> 159

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

Val Gln Cys

<210> 160
<211> 19
<212> PRT
<213> Homo sapiens

<400> 160

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

Val Gln Cys

<210> 161
<211> 19
<212> PRT
<213> Homo sapiens

<400> 161

Met Asp Trp Thr Trp Arg Phe Leu Phe Val Val Ala Ala Ala Thr Gly
1 5 10 15

Val Gln Ser

<210> 162
<211> 19
<212> PRT
<213> Homo sapiens

<400> 162

Met Glu Phe Gly Leu Arg Trp Val Phe Leu Val Ala Ile Leu Lys Asp
1 5 10 15

Val Gln Cys

<210> 163
<211> 19
<212> PRT
<213> Homo sapiens

<400> 163

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

Val Gln Cys

<210> 164
<211> 19
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<400> 164

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

Ala His Ser

<210> 165
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<400> 165

Met Glu Phe Gly Leu Ser Trp Val Phe Leu Val Ala Leu Leu Arg Gly
1 5 10 15

Val Gln Cys

<210> 166
<211> 19
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<400> 166

Met Glu Phe Gly Leu Ser Cys Val Phe Leu Val Ala Ile Phe Lys Gly
1 5 10 15

Val His Cys

<210> 167
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<400> 167

Met Glu Leu Gly Leu Ser Trp Ile Phe Leu Val Ala Leu Leu Arg Gly
1 5 10 15

Val Gln Cys

<210> 168

<211> 19
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<400> 168

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

Ala His Ser

<210> 169
<211> 19
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<400> 169

Met Asp Trp Thr Trp Arg Val Leu Phe Val Val Ala Ala Ser Thr Gly
1 5 10 15

Val Gln Ser

<210> 170
<211> 19
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<400> 170

Met Glu Leu Gly Leu Thr Trp Ile Phe Leu Leu Ala Ile Leu Lys Gly
1 5 10 15

Val Gln Cys

<210> 171
<211> 19
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<400> 171

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

Val Gln Cys

<210> 172
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<400> 172

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

Ala Arg Pro

<210> 173
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<400> 173

Met Asp Trp Thr Trp Arg Val Phe Cys Leu Leu Ala Val Ala Pro Gly
1 5 10 15

Ala His Ser

<210> 174
<211> 19
<212> PRT
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<400> 174

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

Val Gln Cys

<210> 175
<211> 19
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<213> Homo sapiens

<400> 175

Met Lys His Leu Trp Phe Phe Leu Leu Leu Val Ala Ala Pro Arg Trp
1 5 10 15

Val Leu Ser

<210> 176
<211> 19
<212> PRT
<213> Homo sapiens

<400> 176

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

Val Cys Ala

<210> 177
<211> 19
<212> PRT
<213> Homo sapiens

<400> 177

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

Val Gln Cys

<210> 178
<211> 19
<212> PRT
<213> Homo sapiens

<400> 178

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

Val Gln Cys

<210> 179
<211> 26
<212> PRT
<213> Homo sapiens

<400> 179

Met Asp Leu Lys Cys Lys Lys Met Lys Arg Leu Trp Leu Phe Leu Leu
1 5 10 15

Leu Val Ala Ala Pro Arg Trp Val Leu Ser
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<210> 180
<211> 19
<212> PRT
<213> Homo sapiens

<400> 180

Met Lys His Leu Trp Phe Phe Leu Leu Leu Val Ala Ala Pro Arg Trp
1 5 10 15

Val Leu Ser

<210> 181
<211> 19
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<213> Homo sapiens

<400> 181

Met Glu Leu Gly Leu Ser Trp Ile Phe Leu Leu Ala Ile Leu Lys Gly
1 5 10 15

Val Gln Cys

<210> 182
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<400> 182

Met Glu Phe Gly Leu Ser Trp Ile Phe Leu Val Val Ile Leu Lys Gly
1 5 10 15

Val Gln Cys

<210> 183
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<400> 183

Met Glu Phe Gly Leu Ser Cys Leu Phe Leu Val Ala Ile Leu Lys Gly
1 5 10 15

Val Arg Cys

<210> 184
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<400> 184

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

Val Gln Cys

<210> 185
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<400> 185

Met Asp Trp Thr Trp Arg Val Phe Cys Leu Leu Ala Val Ala Pro Gly
1 5 10 15

Ala Asn Ser

<210> 186
<211> 19
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<213> Homo sapiens

<400> 186

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

Val Gln Cys

<210> 187
<211> 19
<212> PRT
<213> Homo sapiens

<400> 187

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

Val Cys Ala

<210> 188
<211> 19
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<213> Homo sapiens

<400> 188

Met Glu Leu Gly Leu Arg Trp Val Phe Leu Val Ala Leu Leu Glu Gly
1 5 10 15

Val His Cys

<210> 189

<211> 19
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<213> Homo sapiens

<400> 189

Met Lys Phe Gly Leu Ser Trp Ile Phe Leu Pro Ala Ile Leu Lys Gly
1 5 10 15

Val Gln Cys

<210> 190
<211> 19
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<400> 190

Met Glu Phe Gly Leu Ser Trp Ile Phe Leu Ala Ala Ile Leu Lys Gly
1 5 10 15

Val Gln Cys

<210> 191
<211> 19
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<213> Homo sapiens

<400> 191

Met Asp Trp Thr Trp Thr Ile Leu Phe Leu Val Ala Gly Ala Thr Gly
1 5 10 15

Val Lys Ser

<210> 192
<211> 19
<212> PRT
<213> Homo sapiens

<400> 192

Met Glu Phe Gly Leu Ser Trp Ile Phe Leu Ala Ala Ile Leu Lys Gly
1 5 10 15

Val Gln Gly

<210> 193
<211> 19
<212> PRT
<213> Homo sapiens

<400> 193

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

Val Gln Cys

<210> 194
<211> 19
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<213> Homo sapiens

<400> 194

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

Val Gln Cys

<210> 195
<211> 19
<212> PRT
<213> Homo sapiens

<400> 195

Met Lys His Leu Trp Phe Phe Leu Leu Leu Val Ala Ala Pro Arg Trp
1 5 10 15

Val Leu Ser

<210> 196
<211> 26
<212> PRT
<213> Homo sapiens

<400> 196

Met Asp Leu Leu Cys Lys Lys Met Lys His Leu Trp Phe Phe Leu Leu
1 5 10 15

Leu Val Ala Ala Pro Arg Trp Val Leu Ser
20 25

<210> 197
<211> 19
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<213> Homo sapiens

<400> 197

Met Glu Phe Gly Leu Ser Trp Val Phe Leu Val Ala Leu Leu Arg Gly
1 5 10 15

Val Gln Cys

<210> 198
<211> 19
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<400> 198

Met Asp Trp Thr Trp Arg Phe Leu Phe Val Val Ala Ala Ala Thr Gly
1 5 10 15

Val Gln Ser

<210> 199
<211> 19
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<213> Homo sapiens

<400> 199

Met Lys His Leu Trp Phe Phe Leu Leu Leu Val Ala Ala Pro Arg Trp
1 5 10 15

Val Leu Ser

<210> 200
<211> 19
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<213> Homo sapiens

<400> 200

Met Glu Leu Gly Leu Ser Trp Val Phe Leu Val Ala Ile Leu Glu Gly
1 5 10 15

Val Gln Cys

<210> 201
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<212> PRT
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<400> 201

Met Asp Trp Thr Trp Thr Phe Leu Phe Val Val Ala Ala Ala Thr Gly
1 5 10 15

Val Gln Ser

<210> 202
<211> 26
<212> PRT
<213> Homo sapiens

<400> 202

Met Asp Leu Leu Cys Lys Asn Met Lys His Leu Trp Phe Phe Leu Leu
1 5 10 15

Leu Val Ala Ala Pro Arg Trp Val Leu Ser
20 25

<210> 203
<211> 19
<212> PRT
<213> Homo sapiens

<400> 203

Met Asp Thr Leu Cys Ser Thr Leu Leu Leu Leu Thr Ile Pro Ser Trp
1 5 10 15

Val Leu Ser

<210> 204
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<213> Homo sapiens

<400> 204

Met Glu Phe Gly Leu Asn Trp Val Leu Leu Val Ala Leu Leu Arg Gly
1 5 10 15

Val Gln Cys

<210> 205
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1 5 10 15

Val Gln Ser

<210> 206
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<400> 206

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1 5 10 15

Val Glu Cys

<210> 207
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Met Asp Trp Thr Trp Arg Phe Leu Phe Val Val Ala Ala Ala Thr Gly
1 5 10 15

Val Gln Ser

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Val Gln Cys

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Met Asp Trp Thr Trp Arg Phe Leu Phe Val Val Ala Ala Ala Thr Gly
1 5 10 15

Val Gln Ser

<210> 210

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<400> 210

Met Asp Trp Thr Trp Arg Phe Leu Phe Val Val Ala Ala Ala Thr Gly
1 5 10 15

Val Gln Ser

<210> 211
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<400> 211

Met Asp Leu Gly Leu Ser Trp Leu Phe Leu Val Ala Leu Leu Lys Gly
1 5 10 15

Val Gln Cys

<210> 212
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<212> PRT
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<400> 212

Met Asp Leu Gly Leu Ser Trp Ile Phe Leu Leu Thr Ile Leu Lys Gly
1 5 10 15

Val Gln Cys

<210> 213
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<212> PRT
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<400> 213

Met Asp Val Met Cys Lys Lys Met Lys His Leu Trp Phe Phe Leu Leu
1 5 10 15

Leu Val Ala Ala Pro Arg Trp Val Leu Ala
20 25

<210> 214
<211> 19
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<400> 214

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

Val His Cys

<210> 215
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<212> PRT
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<400> 215

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1 5 10 15

Ala Gln Pro Ala Met Ala
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<400> 216

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Ala Gln Pro Ala Met Ala
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Ala Gln Pro Ala Met Ala
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Ala Gln Pro Ala Met Ala
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Ala Gln Pro Ala Met Ala
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Ala Gln Pro Ala Met Ala
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Ala Gln Pro Ala Met Ala
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Ala Gln Pro Ala Met Ala
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Ala Gln Pro Ala Met Ala
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Ala Gln Pro Ala Met Ala
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Ala Gln Pro Ala Met Ala
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Ala Gln Pro Ala Met Ala
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Ala Gln Pro Ala Met Ala
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Ala Gln Pro Ala Met Ala
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Ala Gln Pro Ala Met Ala
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Ala Gln Pro Ala Met Ala
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Ala Gln Pro Ala Met Ala
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Ala Gln Pro Ala Met Ala
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Ala Gln Pro Ala Met Ala
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Ala Gln Pro Ala Met Ala
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Ala Gln Pro Ala Met Ala
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<210> 255
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<400> 255

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Asp Ser Thr Gly
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<400> 256

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Asp Thr Thr Gly
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<400> 257

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Gly Thr Thr Gly
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<400> 258

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Asp Ile Thr Gly
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Asp Thr Thr Gly
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Gly Ser Ser Gly
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Gly Ser Ser Gly
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<400> 262

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Gly Ser Ser Gly
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Met Asp Met Arg Val Leu Ala Gln Leu Leu Gly Leu Leu Leu Leu Cys
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Phe Pro Gly Ala Arg Cys
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Leu Arg Gly Ala Arg Cys
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Leu Ser Gly Ala Arg Cys
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Leu Ser Gly Ala Arg Cys
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Leu Ser Gly Ala Arg Cys
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Leu Ser Gly Ala Arg Cys
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1 5 10 15

Leu Ser Gly Ala Arg Cys
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1 5 10 15

Leu Pro Asp Thr Arg Cys
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<400> 271

Met Lys Lys Thr Ala Ile Ala Ile Ala Val Ala Leu Ala Gly Phe Ala
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Thr Val Ala Gln Ala Ala
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<210> 272
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<400> 272

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1 5 10 15

Gly Ser Tyr Gly
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<210> 273

<211> 22
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<400> 273

Met Glu Thr Pro Ala Gln Leu Leu Phe Leu Leu Leu Leu Trp Leu Pro
1 5 10 15

Val Ser Asp Thr Thr Gly
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<210> 274
<211> 21
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<213> Homo sapiens

<400> 274

Met Lys Gln Ser Thr Ile Ala Leu Ala Leu Leu Pro Leu Leu Phe Thr
1 5 10 15

Pro Val Thr Lys Ala
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<211> 23
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<400> 275

Met Lys Lys Asn Ile Ala Phe Leu Leu Ala Ser Met Phe Val Phe Ser
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Ile Ala Thr Asn Ala Tyr Ala
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<400> 276

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

Thr Val Ala Gln Ala Ala
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<211> 8
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<220>
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<223> Xaa6 is any one of Trp, Phe or Ile

<220>
<221> Xaa7
<222> (2)..(2)
<223> Xaa7 is any one of Val, Ile or Leu

<220>
<221> Xaa8
<222> (3)..(3)
<223> Xaa8 is Phe or Leu

<220>
<221> Xaa9
<222> (4)..(4)
<223> Xaa9 is Leu or Val

<220>
<221> Xaa10
<222> (5)..(5)
<223> Xaa10 is Val or Leu

<220>
<221> Xaa11
<222> (6)..(6)
<223> Xaa11 is Ala

<220>
<221> Xaa12
<222> (7)..(7)
<223> Xaa12 is any one of Leu, Ile or Ala

<220>
<221> Xaa13
<222> (8)..(8)
<223> Xaa13 is any one of Phe, Leu, Pro or Ala

<400> 277

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
1 5

<210> 278
<211> 6
<212> PRT
<213> Homo sapiens

<220>
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<222> (2)..(2)
<223> Xaa1 is any one of Asp, Asn or Lys

<220>
<221> Xaa2
<222> (3)..(3)
<223> Xaa2 is any one of Phe, Leu, His or Trp

<220>
<221> Xaa3
<222> (4)..(4)
<223> Xaa3 is any one of Gly, Leu or Thr;

<220>
<221> Xaa4
<222> (5)..(5)
<223> Xaa4 is Leu or Trp;

<220>
<221> Xaa5
<222> (6)..(6)
<223> Xaa5 is any one of Ser, Arg or Phe

<400> 278

Met Xaa Xaa Xaa Xaa Xaa
1 5

<210> 279
<211> 6
<212> PRT
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<220>
<221> Xaa14
<222> (1)..(1)
<223> Xaa14 is any one of Arg, Lys, Asp or Thr;

<220>
<221> Xaa15
<222> (2)..(2)
<223> Xaa15 is Gly or Trp;

<220>
<221> Xaa16
<222> (3)..(3)
<223> Xaa16 is Val or Ala;

<220>
<221> Xaa17
<222> (4)..(4)
<223> Xaa17 is any one of Glu, Leu, or His

<220>
<221> Xaa18
<222> (5)..(5)
<223> Xaa18 is Cys or Ser

<220>
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<222> (6)..(6)
<223> Xaa can be any naturally occurring amino acid

<400> 279

Xaa Xaa Xaa Xaa Xaa Xaa
1 5

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<212> PRT
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1 5

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1 5

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Xaa Xaa Xaa Xaa Xaa Xaa Xaa
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<210> 284
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<212> DNA
<213> Homo sapiens

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<210> 285
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<210> 286
<211> 57
<212> DNA
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<212> DNA
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cccagatggg tgctgtcc 78

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<212> DNA
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atggcc 66

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Met Glu Leu Gly Leu Ser
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Met Glu Leu Gly Leu Arg
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<210> 295
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Met Lys His Leu Trp Phe
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<210> 296
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<400> 296

Met Asp Trp Thr Trp Arg

1 5

<210> 297
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<400> 297

Met Glu Phe Gly Leu Ser
1 5

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Lys Gly Val Gln Cys
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Glu Gly Val Gln Cys
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Arg Trp Val Leu Ser
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Thr Gly Ala His Ser
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Thr Gly Val Gln Ser
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Arg Gly Val Gln Cys
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Trp Val Phe Leu Val Ala Ile Leu
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Phe Leu Leu Leu Val Ala Ala Pro
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<210> 307
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Ile Leu Phe Leu Val Ala Ala Ala
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Phe Leu Phe Val Val Ala Ala Ala
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Trp Leu Phe Leu Val Ala Ile Leu
1 5

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Trp Val Phe Leu Val Ala Leu Phe
1 5

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Met Asp Met Arg Val Pro
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Met Lys Tyr Leu Leu Pro
1 5

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Ser Gly Ala Arg Cys
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Gln Pro Ala Met Ala
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<210> 315
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Ala Gln Leu Leu Gly Leu Leu Leu Leu Trp Leu
1 5 10

<210> 316
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<400> 316

Thr Ala Ala Ala Gly Leu Leu Leu Leu Ala Ala
1 5 10