SEQUENCE LISTING

<110> UCL Business PLC

<120> Method

<130> P104381PCT

<150> GB 1403905.1
<151> 2014-03-05

<150> GB 1416908.0
<151> 2014-09-25

<160> 272

<170> PatentIn version 3.5

<210> 1
<211> 124
<212> PRT
<213> Artificial Sequence

<220>
<223> Variable heavy chain (VH) Jovi-1 VH

<400> 1

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

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

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

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

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

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

Ala Arg Gly Ala Gly Tyr Asn Phe Asp Gly Ala Tyr Arg Phe Phe Asp
100 105 110

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

<210> 2
<211> 113
<212> PRT
<213> Artificial Sequence

<220>
<223> Variable light chain (VL) Jovi-1 VL

<400> 2

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

Asp Gln Ala Ser Ile Ser Cys Arg Ser Ser Gln Arg 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 Arg Val Ser Asn Arg Phe Pro 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 Phe Cys Ser Gln Ser
85 90 95

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

Arg

<210> 3
<211> 252
<212> PRT
<213> Artificial Sequence

<220>

<223> Jovi-1 scFv

<400> 3

```
Glu Val Arg Leu Gln Gln Ser Gly Pro Asp Leu Ile Lys Pro Gly Ala
1               5                  10                  15


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


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


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


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


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


Ala Arg Gly Ala Gly Tyr Asn Phe Asp Gly Ala Tyr Arg Phe Phe Asp
            100                 105                 110


Phe Trp Gly Gln Gly Thr Thr Leu Thr Val Ser Ser Gly Gly Gly Gly
        115                 120                 125


Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Asp Val Val Met Thr
    130                 135                 140


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


Ser Cys Arg Ser Ser Gln Arg Leu Val His Ser Asn Gly Asn Thr Tyr
                165                 170                 175


Leu His Trp Tyr Leu Gln Lys Pro Gly Gln Ser Pro Lys Leu Leu Ile
            180                 185                 190


Tyr Arg Val Ser Asn Arg Phe Pro Gly Val Pro Asp Arg Phe Ser Gly
        195                 200                 205
```

Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile Ser Arg Val Glu Ala
210 215 220

Glu Asp Leu Gly Ile Tyr Phe Cys Ser Gln Ser Thr His Val Pro Tyr
225 230 235 240

Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys Arg
245 250

<210> 4

<400> 4
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<210> 5

<400> 5
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<210> 6

<400> 6
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<210> 7
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<220>
<223> Complementarity determining region (CDR) variable heavy chain (VH) CDR1

<400> 7

Gly Tyr Thr Phe Thr Gly Tyr
1 5

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

<220>
<223> VH CDR2

<400> 8

Asn Pro Tyr Asn Asp Asp
1 5

<210> 9
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> VH CDR3

<400> 9

Gly Ala Gly Tyr Asn Phe Asp Gly Ala Tyr Arg Phe Phe Asp Phe
1 5 10 15

<210> 10
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> Variable light chain (VL) CDR1

<400> 10

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

<210> 11
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> VL CDR2

<400> 11

Arg Val Ser Asn Arg Phe Pro
1 5

<210> 12
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> VL CDR3

<400> 12

Ser Gln Ser Thr His Val Pro Tyr Thr
1   5

<210> 13
<211> 247
<212> PRT
<213> Artificial Sequence

<220>
<223> Single chain fragment variable (scFv) CP_01_E09

<400> 13

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

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

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

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

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

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

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

Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly
        115   120   125

Gly Ser Gly Gly Gly Ala Ser Asp Ile Gln Met Thr Gln Ser Pro Ser
    130   135   140

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

```
Ser Gln Ser Ile Ser Ser Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly
                165                 170                 175

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

Val Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Phe
        195                 200                 205

Thr Ile Ser Ser Leu Gln Pro Glu Asp Ile Ala Thr Tyr Tyr Cys Gln
    210                 215                 220

Gln Tyr Asp Asn Leu Pro Leu Thr Phe Gly Gly Gly Thr Lys Val Asp
225                 230                 235                 240

Ile Lys Arg Thr Ala Ala Ala
                245
```

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

<220>
<223> scFv CP_01_D12

<400> 14

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

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

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

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

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

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

Ala Lys Gly Gly Asp Thr Tyr Gly Phe Leu Asp Asn Trp Gly Gln Gly
            100                 105                 110

Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly
        115                 120                 125

Ser Gly Gly Gly Ala Ser Asp Ile Gln Met Thr Gln Ser Pro Ser Thr
    130                 135                 140

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

Gln Ser Ile Ser Ser Trp Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys
                165                 170                 175

Ala Pro Lys Leu Leu Ile Tyr Lys Ala Ser Ser Leu Glu Ser Gly Val
            180                 185                 190

Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr
        195                 200                 205

Ile Ser Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln
    210                 215                 220

Phe Asn Ala Tyr Pro Leu Thr Phe Gly Gly Gly Thr Lys Val Glu Ile
225                 230                 235                 240

Lys Arg Thr Ala Ala Ala
                245
```

<210> 15
<211> 246
<212> PRT
<213> Artificial Sequence

<220>
<223> scFv CP_01_D10

<400> 15

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


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


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


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


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


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


Ala Lys Gly Gly Gly Ser Phe Gly Ala Phe Asp Ile Trp Gly Gln Gly
            100                 105                 110


Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly
        115                 120                 125


Ser Gly Gly Gly Ala Ser Asp Ile Gln Met Thr Gln Ser Pro Ser Ser
    130                 135                 140


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


Gln Ser Ile Ser Arg Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys
                165                 170                 175


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


Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr
        195                 200                 205
```

```
Ile Ser Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln
    210                 215                 220


Tyr Asn Ser Tyr Pro Leu Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile
225                 230                 235                 240


Lys Arg Thr Ala Ala Ala
                245


<210>  16
<211>  246
<212>  PRT
<213>  Artificial Sequence

<220>
<223>  scFv CP_01_C08

<400>  16

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


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


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


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


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


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


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


Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly
        115                 120                 125
```

```
Ser Gly Gly Gly Ala Ser Asp Ile Gln Met Thr Gln Ser Pro Ser Ser
    130                 135                 140

Val Ser Ala Ser Val Gly Asp Arg Val Thr Ile Thr Cys Gln Ala Ser
145                 150                 155                 160

Gln Asp Ile Ser Asn Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys
                165                 170                 175

Ala Pro Lys Leu Leu Ile Tyr Asp Ala Ser Asn Leu Glu Thr Gly Val
            180                 185                 190

Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Phe Thr
        195                 200                 205

Ile Ser Ser Leu Gln Pro Glu Asp Ile Ala Thr Tyr Tyr Cys Gln Gln
    210                 215                 220

Tyr Asp Asn Leu Pro Leu Thr Phe Gly Gly Gly Thr Lys Val Glu Ile
225                 230                 235                 240

Lys Arg Thr Ala Ala Ala
                245
```

<210> 17
<211> 245
<212> PRT
<213> Artificial Sequence

<220>
<223> scFv CP_01_C11

<400> 17

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

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

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

Ala Ser Gly Gly Ala Gly Trp Asn Trp Gly Gln Gly Thr Met Val Thr
            100                 105                 110

Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly
        115                 120                 125

Ala Ser Asn Phe Met Leu Thr Gln Pro His Ser Val Ser Glu Ser Pro
    130                 135                 140

Gly Lys Thr Ala Thr Ile Ser Cys Thr Arg Ser Ser Gly Ser Ile Ala
145                 150                 155                 160

Ser Asn Tyr Val Gln Trp Tyr Gln Gln Arg Pro Gly Ser Ala Pro Thr
                165                 170                 175

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

Phe Ser Gly Ser Ile Asp Ser Ser Ser Asn Ser Ala Ser Leu Thr Ile
        195                 200                 205

Ser Gly Leu Lys Thr Glu Asp Glu Ala Asp Tyr Tyr Cys Gln Ser His
    210                 215                 220

Asp Ser Ser Asn Val Val Phe Gly Gly Gly Thr Gln Leu Thr Val Leu
225                 230                 235                 240

Gly Gln Pro Ala Ala
                245
```

<210> 18
<211> 247

<212> PRT
<213> Artificial Sequence

<220>
<223> scFv CP_01_F03

<220>
<221> misc_feature
<222> (101)..(101)
<223> Xaa can be any naturally occurring amino acid

<400> 18

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

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

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

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

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

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

Ala Arg Gly Tyr Xaa Ala Ser Ser Trp Ser Gln Gly Leu Trp Gly Gln
100 105 110

Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly
115 120 125

Gly Ser Gly Gly Gly Ala Ser Asp Ile Gln Met Thr Gln Ser Pro Ser
130 135 140

Ser Leu Ser Ala Ser Val Arg Asp Arg Val Thr Ile Thr Cys Gln Ala
145 150 155 160

```
Ser Gln Asp Ile Ser Asn Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly
                165                 170                 175

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

Val Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Phe
        195                 200                 205

Thr Ile Ser Ser Leu Gln Pro Glu Asp Ile Ala Thr Tyr Tyr Cys Gln
    210                 215                 220

Gln Tyr Asp Asn Leu Pro Pro Thr Phe Gly Gly Gly Thr Lys Val Glu
225                 230                 235                 240

Ile Lys Arg Thr Ala Ala Ala
                245
```

<210> 19
<211> 251
<212> PRT
<213> Artificial Sequence

<220>
<223> scFv CP_01_E07

<400> 19

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

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

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

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

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

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

Ala Lys Asp Leu Gly Gly Ser Gly Gly Ala Phe Asp Ile Trp Gly Gln
            100                 105                 110

Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly
        115                 120                 125

Gly Ser Gly Gly Gly Ala Ser Asp Ile Val Met Thr Gln Thr Pro His
    130                 135                 140

Ser Leu Ser Val Thr Pro Gly Gln Pro Ala Ser Ile Ser Cys Lys Ser
145                 150                 155                 160

Ser Gln Ser Leu Leu Tyr Ser Asp Gly Lys Thr Tyr Leu Tyr Trp Tyr
                165                 170                 175

Leu Gln Lys Pro Gly Gln Pro Pro Gln Leu Leu Ile Tyr Glu Val Ser
            180                 185                 190

Asn Arg Phe Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly
        195                 200                 205

Thr Asp Phe Thr Leu Lys Ile Ser Arg Val Glu Ala Glu Asp Val Gly
    210                 215                 220

Val Tyr Tyr Cys Met Gln Ser Ile Gln Leu Tyr Thr Phe Gly Gln Gly
225                 230                 235                 240

Thr Lys Val Asp Ile Lys Arg Thr Ala Ala Ala
                245                 250
```

<210> 20
<211> 244
<212> PRT
<213> Artificial Sequence

<220>
<223> scFv CP_01_D03

<400> 20

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

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

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

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

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

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

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

Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly
        115                 120                 125

Gly Gly Ala Ser Asp Ile Val Met Thr Gln Ser Pro Ala Thr Leu Ser
    130                 135                 140

Leu Ala Pro Gly Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser
145                 150                 155                 160

Val Gly Ser Asn Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro
                165                 170                 175

Ser Leu Leu Ile Tyr Asp Ala Ser Thr Arg Ala Thr Gly Ile Pro Ala
            180                 185                 190

Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser
        195                 200                 205

Ser Leu Gln Ser Glu Asp Ile Ala Val Tyr Tyr Cys Gln Gln Tyr His
    210                 215                 220
```

Arg Trp Pro Leu Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys Arg
225 230 235 240

Thr Ala Ala Ala

<210> 21
<211> 249
<212> PRT
<213> Artificial Sequence

<220>
<223> scFv CP_01_F06

<400> 21

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

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

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

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

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

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

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

Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly
115 120 125

Gly Ala Ser Asp Ile Gln Met Thr Gln Ser Pro Asp Ser Leu Ala Val
130 135 140

```
Ser Leu Gly Glu Arg Ala Thr Ile Asn Cys Lys Ser Ser Gln Ser Val
145                 150                 155                 160


Leu Tyr Ser Ser Asn Asn Lys Asn Tyr Leu Ala Trp Tyr Gln Gln Lys
                165                 170                 175


Pro Gly Gln Pro Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg Glu
            180                 185                 190


Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe
        195                 200                 205


Thr Leu Thr Ile Ser Ser Leu Gln Ala Glu Asp Val Ala Val Tyr Tyr
    210                 215                 220


Cys Gln Gln Tyr Tyr Asp Ser Pro Tyr Thr Phe Gly Gln Gly Thr Lys
225                 230                 235                 240


Val Asp Ile Lys Arg Thr Ala Ala Ala
                245


<210>  22
<211>  244
<212>  PRT
<213>  Artificial Sequence

<220>
<223>  scFv CP_01_F02

<400>  22

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


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


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


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

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

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

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

Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly
        115                 120                 125

Gly Gly Ala Ser Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser
    130                 135                 140

Ala Ser Val Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Gly
145                 150                 155                 160

Ile Arg Asn Asp Leu Gly Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro
                165                 170                 175

Lys Arg Leu Ile Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser
            180                 185                 190

Arg Phe Ser Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser
        195                 200                 205

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

Ser Tyr Pro Leu Thr Phe Gly Gly Gly Thr Lys Val Asp Ile Lys Arg
225                 230                 235                 240

Thr Ala Ala Ala
```

<210> 23
<211> 249
<212> PRT
<213> Artificial Sequence

<220>
<223> scFv CP_03_E05

<400> 23

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

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

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

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

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

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

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

Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
        115   120   125

Gly Gly Gly Ala Ser Asn Phe Met Leu Thr Gln Pro His Ser Val Ser
    130   135   140

Glu Ser Pro Gly Lys Thr Val Thr Ile Ser Cys Thr Arg Ser Ser Gly
145   150   155   160

Ser Ile Ala Ser Lys Tyr Val Gln Trp Tyr Gln Gln Arg Pro Gly Ser
                165   170   175

Ser Pro Thr Thr Val Ile Tyr Glu Asp Asn Gln Arg Pro Ser Gly Val
            180   185   190

```
Pro Asp Arg Phe Ser Gly Ser Ile Asp Thr Ser Ser Asn Ser Ala Ser
        195                 200                 205

Leu Thr Ile Ser Gly Leu Arg Thr Glu Asp Glu Ala Asp Tyr Tyr Cys
    210                 215                 220

His Ser Tyr Asp Ser Asn Asn His Ser Val Phe Gly Gly Gly Thr Lys
225                 230                 235                 240

Val Thr Val Leu Gly Gln Pro Ala Ala
                245
```

<210> 24
<211> 246
<212> PRT
<213> Artificial Sequence

<220>
<223> scFv CP_03_D05

<400> 24

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

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

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

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

```
Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly
        115                 120                 125


Ser Gly Gly Gly Ala Ser Ser Tyr Glu Leu Thr Gln Pro Pro Ser Val
    130                 135                 140


Ser Val Ser Pro Gly Gln Thr Ala Thr Ile Ser Cys Ser Gly Asp Gln
145                 150                 155                 160


Leu Gly Gly Lys Tyr Gly His Trp Tyr Gln Lys Lys Pro Gly Gln Ser
                165                 170                 175


Pro Val Leu Val Leu Tyr Gln Asp Arg Lys Arg Pro Ala Gly Ile Pro
            180                 185                 190


Glu Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr Ile Thr Leu Thr Ile
        195                 200                 205


Ser Gly Thr Gln Ala Val Asp Glu Ala Asp Tyr Tyr Cys Gln Ala Trp
    210                 215                 220


Asp Thr Asn Leu Gly Gly Val Phe Gly Gly Gly Thr Lys Val Thr Val
225                 230                 235                 240


Leu Gly Gln Pro Ala Ala
                245


<210>  25
<211>  249
<212>  PRT
<213>  Artificial Sequence

<220>
<223>  scFv CP_03_H06

<400>  25

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


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

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

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

Ala Arg Ala Arg Val Gly Gly Met Asp Val Trp Gly Gln Gly Thr Met
            100                 105                 110

Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly
        115                 120                 125

Gly Gly Ala Ser Asn Phe Met Leu Thr Gln Pro His Ser Val Ser Glu
    130                 135                 140

Ser Pro Gly Lys Thr Val Thr Ile Ser Cys Thr Arg Ser Ser Gly Ser
145                 150                 155                 160

Ile Ala Ser Asn Tyr Val Gln Trp Tyr Gln Gln Arg Pro Gly Ser Ser
                165                 170                 175

Pro Thr Thr Val Ile Tyr Glu Asp Asn Gln Arg Pro Ser Gly Val Pro
            180                 185                 190

Asp Arg Phe Ser Gly Ser Ile Asp Ser Ser Ser Asn Ser Ala Ser Leu
        195                 200                 205

Thr Ile Ser Gly Leu Lys Thr Glu Asp Glu Ala Asp Tyr Tyr Cys Gln
    210                 215                 220

Ser Phe Asp Ala Asp Asn Leu His Val Val Phe Gly Gly Gly Thr Lys
225                 230                 235                 240

Leu Thr Val Leu Gly Gln Pro Ala Ala
                245
```

<210> 26
<211> 248
<212> PRT
<213> Artificial Sequence

<220>
<223> scFv CP_03_C12

<400> 26

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

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

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

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

Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly
115 120 125

Gly Ala Ser Asp Ile Val Met Thr Gln Thr Pro Leu Ser Leu Ser Val
130 135 140

Thr Pro Gly Gln Pro Ala Ser Ile Ser Cys Lys Ser Ser Gln Ser Leu
145 150 155 160

Leu His Ser Asp Gly Lys Thr Tyr Leu Tyr Trp Tyr Leu Gln Lys Pro
165 170 175

```
Gly Gln Pro Pro Gln Leu Leu Val Tyr Glu Val Ser Asn Arg Phe Ser
            180                 185                 190

Gly Val Pro Asp Lys Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr
        195                 200                 205

Leu Lys Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys
    210                 215                 220

Met Gln Gly Ile Gln Leu Pro Pro Thr Phe Gly Gly Gly Thr Lys Val
225                 230                 235                 240

Asp Ile Lys Arg Thr Ala Ala Ala
                245
```

<210> 27
<211> 249
<212> PRT
<213> Artificial Sequence

<220>
<223> scFv CP_03_G02

<400> 27

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

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

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

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

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

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

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

Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly
        115                 120                 125

Gly Gly Gly Ser Gly Gly Gly Ala Ser Asp Ile Gln Met Thr Gln Ser
    130                 135                 140

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

Gln Ala Ser Gln Asp Ile Ser Asn Tyr Leu Asn Trp Tyr Gln Gln Lys
                165                 170                 175

Pro Gly Lys Ala Pro Lys Leu Leu Ile Tyr Ala Ala Ser Ser Leu Gln
            180                 185                 190

Ser Gly Val Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe
        195                 200                 205

Thr Leu Thr Ile Ser Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr
    210                 215                 220

Cys Gln Gln Ser Tyr Ser Thr Pro Leu Thr Phe Gly Gly Gly Thr Lys
225                 230                 235                 240

Leu Glu Ile Lys Arg Thr Ala Ala Ala
                245
```

<210> 28
<211> 251
<212> PRT
<213> Artificial Sequence

<220>
<223> scFv CP_03_D04

<400> 28

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

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

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

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

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

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

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

Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly
        115                 120                 125

Gly Gly Ser Gly Gly Gly Ala Ser Asn Phe Met Leu Thr Gln Pro His
    130                 135                 140

Ser Val Ser Asp Ser Pro Gly Lys Thr Val Thr Ile Ser Cys Thr Arg
145                 150                 155                 160

Ser Ser Gly Arg Ile Gly Ser Asn Phe Val Gln Trp Tyr Gln Gln Arg
                165                 170                 175

Pro Gly Ser Ser Pro Thr Thr Val Ile Tyr Glu Asp Asp Gln Arg Pro
            180                 185                 190

Ser Gly Val Pro Ala Arg Phe Ser Gly Ser Ile Asp Ser Ser Ser Asn
        195                 200                 205

Ser Ala Ser Leu Thr Ile Ser Gly Leu Thr Thr Ala Asp Glu Ala Gly
    210                 215                 220
```

```
Tyr Tyr Cys Gln Ser Tyr Asp Ala Ser Asn Val Ile Phe Gly Gly Gly
225                 230                 235                 240


Thr Lys Leu Thr Val Leu Gly Gln Pro Ala Ala
                245                 250


<210>  29
<211>  247
<212>  PRT
<213>  Artificial Sequence

<220>
<223>  scFv CP_03_F10

<400>  29

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


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


Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
        115                 120                 125


Gly Gly Gly Ala Ser Gln Ser Glu Leu Thr Gln Pro Pro Ser Ala Ser
    130                 135                 140
```

```
Gly Ser Pro Gly Gln Ser Val Thr Ile Ser Cys Thr Gly Thr Ser Thr
145                 150                 155                 160


Asp Val Gly Ala Phe His Phe Val Ser Trp Tyr Gln His Thr Pro Gly
                165                 170                 175


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


Val Pro Asp Arg Phe Ser Gly Ser Arg Ser Gly Asn Thr Ala Ser Leu
        195                 200                 205


Thr Val Ser Gly Leu Gln Ser Glu Asp Glu Ala Asp Tyr Phe Cys Ser
    210                 215                 220


Ala Tyr Thr Gly Ser Asn Tyr Val Phe Gly Ser Gly Thr Lys Leu Thr
225                 230                 235                 240


Val Leu Gly Gln Pro Ala Ala
                245


<210>  30
<211>  252
<212>  PRT
<213>  Artificial Sequence

<220>
<223>  scFv CP_03_G09

<400>  30

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
```

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

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

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

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

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ala Ser Ser Tyr Glu
    130                 135                 140

Leu Thr Gln Pro Leu Ser Val Ser Val Ala Leu Gly Gln Thr Ala Arg
145                 150                 155                 160

Ile Thr Cys Gly Gly Asn Asn Ile Gly Ser Lys Asn Val His Trp Tyr
                165                 170                 175

Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr Arg Asp Asn
            180                 185                 190

Asn Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser Asn Ser Gly
        195                 200                 205

Asn Thr Ala Thr Leu Thr Ile Ser Lys Ala Gln Ala Gly Asp Glu Ala
    210                 215                 220

Asp Tyr Tyr Cys Gln Val Trp Asp Ser Asn Ser Trp Val Phe Gly Gly
225                 230                 235                 240

Gly Thr Lys Leu Thr Val Leu Gly Gln Pro Ala Ala
                245                 250
```

<210> 31
<211> 252
<212> PRT
<213> Artificial Sequence

<220>

<223> scFv CP_03_F09

<400> 31

```
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 Ala Ser Tyr
            20                  25                  30


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


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


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


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


Ala Ser Asn Arg Gly Gly Ser Tyr Lys Ser Val Gly Met Asp Val Trp
            100                 105                 110


Gly Gln Gly Thr Thr Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly
        115                 120                 125


Gly Gly Gly Ser Gly Gly Gly Ala Ser Asn Phe Met Leu Thr Gln Pro
    130                 135                 140


Gln Ser Val Ser Glu Ser Pro Gly Lys Thr Val Thr Ile Ser Cys Thr
145                 150                 155                 160


Arg Ser Ser Gly Asn Phe Ala Ser Lys Tyr Val Gln Trp Tyr Gln Gln
                165                 170                 175


Arg Pro Gly Ser Ser Pro Thr Thr Val Ile Tyr Glu Asn Tyr Gln Arg
            180                 185                 190


Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Ile Asp Ser Ser Ser
        195                 200                 205
```

```
Asn Ser Ala Thr Leu Thr Ile Ser Gly Leu Lys Thr Glu Asp Glu Ala
    210                 215                 220

Asp Tyr Tyr Cys Gln Ser Tyr Asp Glu Val Ser Val Val Phe Gly Gly
225                 230                 235                 240

Gly Thr Gln Leu Thr Val Leu Gly Gln Pro Ala Ala
                245                 250
```

<210> 32
<211> 249
<212> PRT
<213> Artificial Sequence

<220>
<223> scFv CP_03_D09

<400> 32

```
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 Glu Ala Ser Gly Tyr Thr Phe Thr Ser Tyr
            20                  25                  30

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

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

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

Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
        115                 120                 125
```

```
Gly Gly Gly Ala Ser Asn Phe Met Leu Thr Gln Pro Leu Ser Val Ser
    130                 135                 140

Glu Ser Pro Gly Lys Thr Val Thr Ile Ser Cys Thr Arg Ser Ser Gly
145                 150                 155                 160

Ser Ile Ala Ser Asn Tyr Val Gln Trp Tyr Gln Gln Arg Pro Gly Ser
                165                 170                 175

Ala Pro Thr Thr Val Ile Tyr Glu Asp Asn Gln Arg Pro Ser Gly Val
            180                 185                 190

Pro Asp Arg Phe Ser Gly Ser Ile Asp Ser Ser Ser Asn Ser Ala Ser
        195                 200                 205

Leu Thr Ile Ser Gly Leu Lys Thr Glu Asp Glu Ala Asp Tyr Tyr Cys
    210                 215                 220

Gln Ser Tyr Asn Ser Ser Asn His Trp Val Phe Gly Gly Gly Thr Lys
225                 230                 235                 240

Val Thr Val Leu Gly Gln Pro Ala Ala
                245


<210>  33
<211>  537
<212>  PRT
<213>  Artificial Sequence

<220>
<223>  Chimeric antigen receptor (CAR), JOVI-1 CAR with CD8 stalk
spacer

<400>  33

Met Glu Thr Asp Thr Leu Leu Leu Trp Val Leu Leu Val Trp Ile Pro
1               5                   10                  15

Gly Ser Thr Gly Glu Val Arg Leu Gln Gln Ser Gly Pro Asp Leu Ile
            20                  25                  30

Lys Pro Gly Ala Ser Val Lys Met Ser Cys Lys Ala Ser Gly Tyr Thr
```

```
        35                  40                  45

Phe Thr Gly Tyr Val Met His Trp Val Lys Gln Arg Pro Gly Gln Gly
    50                  55                  60

Leu Glu Trp Ile Gly Phe Ile Asn Pro Tyr Asn Asp Asp Ile Gln Ser
65                  70                  75                  80

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

Thr Thr Ala Tyr Met Glu Leu Ser Ser Leu Thr Ser Glu Asp Ser Ala
            100                 105                 110

Val Tyr Tyr Cys Ala Arg Gly Ala Gly Tyr Asn Phe Asp Gly Ala Tyr
        115                 120                 125

Arg Phe Phe Asp Phe Trp Gly Gln Gly Thr Thr Leu Thr Val Ser Ser
    130                 135                 140

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Asp
145                 150                 155                 160

Val Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Ser Leu Gly Asp
                165                 170                 175

Gln Ala Ser Ile Ser Cys Arg Ser Ser Gln Arg Leu Val His Ser Asn
            180                 185                 190

Gly Asn Thr Tyr Leu His Trp Tyr Leu Gln Lys Pro Gly Gln Ser Pro
        195                 200                 205

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

Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile Ser
225                 230                 235                 240

Arg Val Glu Ala Glu Asp Leu Gly Ile Tyr Phe Cys Ser Gln Ser Thr
                245                 250                 255
```

```
His Val Pro Tyr Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys Arg
            260                 265                 270

Ser Asp Pro Thr Thr Thr Pro Ala Pro Arg Pro Pro Thr Pro Ala Pro
        275                 280                 285

Thr Ile Ala Ser Gln Pro Leu Ser Leu Arg Pro Glu Ala Cys Arg Pro
    290                 295                 300

Ala Ala Gly Gly Ala Val His Thr Arg Gly Leu Asp Phe Ala Cys Asp
305                 310                 315                 320

Ile Phe Trp Val Leu Val Val Val Gly Gly Val Leu Ala Cys Tyr Ser
                325                 330                 335

Leu Leu Val Thr Val Ala Phe Ile Ile Phe Trp Val Arg Ser Lys Arg
            340                 345                 350

Ser Arg Leu Leu His Ser Asp Tyr Met Asn Met Thr Pro Arg Arg Pro
        355                 360                 365

Gly Pro Thr Arg Lys His Tyr Gln Pro Tyr Ala Pro Pro Arg Asp Phe
    370                 375                 380

Ala Ala Tyr Arg Ser Arg Asp Gln Arg Leu Pro Pro Asp Ala His Lys
385                 390                 395                 400

Pro Pro Gly Gly Gly Ser Phe Arg Thr Pro Ile Gln Glu Glu Gln Ala
                405                 410                 415

Asp Ala His Ser Thr Leu Ala Lys Ile Arg Val Lys Phe Ser Arg Ser
            420                 425                 430

Ala Asp Ala Pro Ala Tyr Gln Gln Gly Gln Asn Gln Leu Tyr Asn Glu
        435                 440                 445

Leu Asn Leu Gly Arg Arg Glu Glu Tyr Asp Val Leu Asp Lys Arg Arg
    450                 455                 460

Gly Arg Asp Pro Glu Met Gly Gly Lys Pro Arg Arg Lys Asn Pro Gln
```

```
465                 470                 475                 480

Glu Gly Leu Tyr Asn Glu Leu Gln Lys Asp Lys Met Ala Glu Ala Tyr
                485                 490                 495

Ser Glu Ile Gly Met Lys Gly Glu Arg Arg Arg Gly Lys Gly His Asp
            500                 505                 510

Gly Leu Tyr Gln Gly Leu Ser Thr Ala Thr Lys Asp Thr Tyr Asp Ala
        515                 520                 525

Leu His Met Gln Ala Leu Pro Pro Arg
    530                 535


<210>  34
<211>  727
<212>  PRT
<213>  Artificial Sequence

<220>
<223>  JOVI-1 CAR with H-CH2-CH3pvaa spacer

<400>  34

Met Glu Thr Asp Thr Leu Leu Leu Trp Val Leu Leu Val Trp Ile Pro
1               5                   10                  15

Gly Ser Thr Gly Glu Val Arg Leu Gln Gln Ser Gly Pro Asp Leu Ile
            20                  25                  30

Lys Pro Gly Ala Ser Val Lys Met Ser Cys Lys Ala Ser Gly Tyr Thr
        35                  40                  45

Phe Thr Gly Tyr Val Met His Trp Val Lys Gln Arg Pro Gly Gln Gly
    50                  55                  60

Leu Glu Trp Ile Gly Phe Ile Asn Pro Tyr Asn Asp Asp Ile Gln Ser
65                  70                  75                  80

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

Thr Thr Ala Tyr Met Glu Leu Ser Ser Leu Thr Ser Glu Asp Ser Ala
```

```
            100                 105                 110

Val Tyr Tyr Cys Ala Arg Gly Ala Gly Tyr Asn Phe Asp Gly Ala Tyr
        115                 120                 125

Arg Phe Phe Asp Phe Trp Gly Gln Gly Thr Thr Leu Thr Val Ser Ser
    130                 135                 140

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Asp
145                 150                 155                 160

Val Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Ser Leu Gly Asp
                165                 170                 175

Gln Ala Ser Ile Ser Cys Arg Ser Ser Gln Arg Leu Val His Ser Asn
            180                 185                 190

Gly Asn Thr Tyr Leu His Trp Tyr Leu Gln Lys Pro Gly Gln Ser Pro
        195                 200                 205

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

Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile Ser
225                 230                 235                 240

Arg Val Glu Ala Glu Asp Leu Gly Ile Tyr Phe Cys Ser Gln Ser Thr
                245                 250                 255

His Val Pro Tyr Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys Arg
            260                 265                 270

Ser Asp Pro Ala Glu Pro Lys Ser Pro Asp Lys Thr His Thr Cys Pro
        275                 280                 285

Pro Cys Pro Ala Pro Pro Val Ala Gly Pro Ser Val Phe Leu Phe Pro
    290                 295                 300

Pro Lys Pro Lys Asp Thr Leu Met Ile Ala Arg Thr Pro Glu Val Thr
305                 310                 315                 320
```

```
Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn
                325                 330                 335

Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg
            340                 345                 350

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

Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser
    370                 375                 380

Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys
385                 390                 395                 400

Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Asp
                405                 410                 415

Glu Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe
            420                 425                 430

Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu
        435                 440                 445

Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe
    450                 455                 460

Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly
465                 470                 475                 480

Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr
                485                 490                 495

Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys Lys Asp Pro Lys Phe
            500                 505                 510

Trp Val Leu Val Val Val Gly Gly Val Leu Ala Cys Tyr Ser Leu Leu
        515                 520                 525

Val Thr Val Ala Phe Ile Ile Phe Trp Val Arg Ser Lys Arg Ser Arg
```

```
    530                 535                 540

Leu Leu His Ser Asp Tyr Met Asn Met Thr Pro Arg Arg Pro Gly Pro
545                 550                 555                 560

Thr Arg Lys His Tyr Gln Pro Tyr Ala Pro Pro Arg Asp Phe Ala Ala
                565                 570                 575

Tyr Arg Ser Arg Asp Gln Arg Leu Pro Pro Asp Ala His Lys Pro Pro
            580                 585                 590

Gly Gly Gly Ser Phe Arg Thr Pro Ile Gln Glu Glu Gln Ala Asp Ala
        595                 600                 605

His Ser Thr Leu Ala Lys Ile Arg Val Lys Phe Ser Arg Ser Ala Asp
    610                 615                 620

Ala Pro Ala Tyr Gln Gln Gly Gln Asn Gln Leu Tyr Asn Glu Leu Asn
625                 630                 635                 640

Leu Gly Arg Arg Glu Glu Tyr Asp Val Leu Asp Lys Arg Arg Gly Arg
                645                 650                 655

Asp Pro Glu Met Gly Gly Lys Pro Arg Arg Lys Asn Pro Gln Glu Gly
            660                 665                 670

Leu Tyr Asn Glu Leu Gln Lys Asp Lys Met Ala Glu Ala Tyr Ser Glu
        675                 680                 685

Ile Gly Met Lys Gly Glu Arg Arg Arg Gly Lys Gly His Asp Gly Leu
    690                 695                 700

Tyr Gln Gly Leu Ser Thr Ala Thr Lys Asp Thr Tyr Asp Ala Leu His
705                 710                 715                 720

Met Gln Ala Leu Pro Pro Arg
                725
```

<210> 35
<211> 511
<212> PRT

<213> Artificial Sequence

<220>
<223> JOVI-1 CAR with IgG1 hinge spacer

<400> 35

Met Glu Thr Asp Thr Leu Leu Leu Trp Val Leu Leu Val Trp Ile Pro
1 5 10 15

Gly Ser Thr Gly Glu Val Arg Leu Gln Gln Ser Gly Pro Asp Leu Ile
20 25 30

Lys Pro Gly Ala Ser Val Lys Met Ser Cys Lys Ala Ser Gly Tyr Thr
35 40 45

Phe Thr Gly Tyr Val Met His Trp Val Lys Gln Arg Pro Gly Gln Gly
50 55 60

Leu Glu Trp Ile Gly Phe Ile Asn Pro Tyr Asn Asp Asp Ile Gln Ser
65 70 75 80

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

Thr Thr Ala Tyr Met Glu Leu Ser Ser Leu Thr Ser Glu Asp Ser Ala
100 105 110

Val Tyr Tyr Cys Ala Arg Gly Ala Gly Tyr Asn Phe Asp Gly Ala Tyr
115 120 125

Arg Phe Phe Asp Phe Trp Gly Gln Gly Thr Thr Leu Thr Val Ser Ser
130 135 140

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Asp
145 150 155 160

Val Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Ser Leu Gly Asp
165 170 175

Gln Ala Ser Ile Ser Cys Arg Ser Ser Gln Arg Leu Val His Ser Asn
180 185 190

```
Gly Asn Thr Tyr Leu His Trp Tyr Leu Gln Lys Pro Gly Gln Ser Pro
        195                 200                 205

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

Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile Ser
225                 230                 235                 240

Arg Val Glu Ala Glu Asp Leu Gly Ile Tyr Phe Cys Ser Gln Ser Thr
                245                 250                 255

His Val Pro Tyr Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys Arg
            260                 265                 270

Ser Asp Pro Ala Glu Pro Lys Ser Pro Asp Lys Thr His Thr Cys Pro
        275                 280                 285

Pro Cys Pro Lys Asp Pro Lys Phe Trp Val Leu Val Val Val Gly Gly
    290                 295                 300

Val Leu Ala Cys Tyr Ser Leu Leu Val Thr Val Ala Phe Ile Ile Phe
305                 310                 315                 320

Trp Val Arg Ser Lys Arg Ser Arg Leu Leu His Ser Asp Tyr Met Asn
                325                 330                 335

Met Thr Pro Arg Arg Pro Gly Pro Thr Arg Lys His Tyr Gln Pro Tyr
            340                 345                 350

Ala Pro Pro Arg Asp Phe Ala Ala Tyr Arg Ser Arg Asp Gln Arg Leu
        355                 360                 365

Pro Pro Asp Ala His Lys Pro Pro Gly Gly Gly Ser Phe Arg Thr Pro
    370                 375                 380

Ile Gln Glu Glu Gln Ala Asp Ala His Ser Thr Leu Ala Lys Ile Arg
385                 390                 395                 400

Val Lys Phe Ser Arg Ser Ala Asp Ala Pro Ala Tyr Gln Gln Gly Gln
```

405 410 415

Asn Gln Leu Tyr Asn Glu Leu Asn Leu Gly Arg Arg Glu Glu Tyr Asp
420 425 430

Val Leu Asp Lys Arg Arg Gly Arg Asp Pro Glu Met Gly Gly Lys Pro
435 440 445

Arg Arg Lys Asn Pro Gln Glu Gly Leu Tyr Asn Glu Leu Gln Lys Asp
450 455 460

Lys Met Ala Glu Ala Tyr Ser Glu Ile Gly Met Lys Gly Glu Arg Arg
465 470 475 480

Arg Gly Lys Gly His Asp Gly Leu Tyr Gln Gly Leu Ser Thr Ala Thr
485 490 495

Lys Asp Thr Tyr Asp Ala Leu His Met Gln Ala Leu Pro Pro Arg
500 505 510

<210> 36
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide for TRBC2

<400> 36

Val Leu Glu Asp Leu Lys Asn Val Phe Pro Pro Glu Val Ala Val
1 5 10 15

<210> 37
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide for TRBC1

<400> 37

Val Leu Glu Asp Leu Asn Lys Val Phe Pro Pro Glu Val Ala Val
1 5 10 15

<210> 38
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide for TRBC1

<400> 38

Val Leu Glu Asp Leu Asn Lys Val Phe Pro Pro Glu Val Ala Val Cys
1   5   10   15

<210> 39
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide for TRBC2

<400> 39

Val Leu Glu Asp Leu Lys Asn Val Phe Pro Pro Glu Val Ala Val Cys
1   5   10   15

<210> 40
<211> 175
<212> PRT
<213> Homo sapiens

<400> 40

Asp Leu Asn Lys Val Phe Pro Pro Glu Val Ala Val Phe Glu Pro Ser
1   5   10   15

Glu Ala Glu Ile Ser His Thr Gln Lys Ala Thr Leu Val Cys Leu Ala
            20   25   30

Thr Gly Phe Phe Pro Asp His Val Glu Leu Ser Trp Trp Val Asn Gly
        35   40   45

Lys Glu Val His Ser Gly Val Ser Thr Asp Pro Gln Pro Leu Lys Glu
    50   55   60

Gln Pro Ala Leu Asn Asp Ser Arg Tyr Cys Leu Ser Ser Arg Leu Arg
65   70   75   80

```
Val Ser Ala Thr Phe Trp Gln Asn Pro Arg Asn His Phe Arg Cys Gln
                85                  90                  95


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


Ala Lys Pro Val Thr Gln Ile Val Ser Ala Glu Ala Trp Gly Arg Ala
        115                 120                 125


Asp Cys Gly Phe Thr Ser Val Ser Tyr Gln Gln Gly Val Leu Ser Ala
    130                 135                 140


Thr Ile Leu Tyr Glu Ile Leu Leu Gly Lys Ala Thr Leu Tyr Ala Val
145                 150                 155                 160


Leu Val Ser Ala Leu Val Leu Met Ala Met Val Lys Arg Lys Asp
                165                 170                 175


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<400>  41

Asp Leu Lys Asn Val Phe Pro Pro Glu Val Ala Val Phe Glu Pro Ser
1               5                   10                  15


Glu Ala Glu Ile Ser His Thr Gln Lys Ala Thr Leu Val Cys Leu Ala
            20                  25                  30


Thr Gly Phe Tyr Pro Asp His Val Glu Leu Ser Trp Trp Val Asn Gly
        35                  40                  45


Lys Glu Val His Ser Gly Val Ser Thr Asp Pro Gln Pro Leu Lys Glu
    50                  55                  60


Gln Pro Ala Leu Asn Asp Ser Arg Tyr Cys Leu Ser Ser Arg Leu Arg
65                  70                  75                  80


Val Ser Ala Thr Phe Trp Gln Asn Pro Arg Asn His Phe Arg Cys Gln
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                85                  90                  95

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

Ala Lys Pro Val Thr Gln Ile Val Ser Ala Glu Ala Trp Gly Arg Ala
        115                 120                 125

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

Thr Ile Leu Tyr Glu Ile Leu Leu Gly Lys Ala Thr Leu Tyr Ala Val
145                 150                 155                 160

Leu Val Ser Ala Leu Val Leu Met Ala Met Val Lys Arg Lys Asp
                165                 170                 175
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<210> 42
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<400> 42

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Ala His Asn Ser Ser Ser Trp Ser Phe
1               5
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<400> 43

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Gly Gly Asp Thr Tyr Gly Phe Leu
1               5
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<210> 44
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<400> 44

Gly Gly Gly Ser Phe Gly Ala Phe
1 5

<210> 45
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<400> 45

Gly Tyr Ser Ser Ser Trp Tyr Leu
1 5

<210> 46
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<400> 46

Gly Gly Ala Gly
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<210> 47
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<400> 47

Gly Tyr Xaa Ala Ser Ser Trp Ser Gln
1   5

<210> 48
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<400> 48

Asp Leu Gly Gly Ser Gly Gly Ala Phe
1   5

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<220>
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<400> 49

Asn Lys Gln Tyr Gly Met
1   5

<210> 50
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<400> 50

Asp Asp Gly Ala Met
1   5

<210> 51
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<400> 51

Ala Gly Tyr Ser Tyr Ala
1 5

<210> 52
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<400> 52

Gly Gly Arg Tyr Ser Ser Asn Tyr Phe
1 5

<210> 53
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<220>
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<400> 53

Val Gly Glu Gly Ser Ala Met
1 5

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

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Gly Arg Asp Ser Ser Ser Trp Ser Pro
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<400> 56

Val Thr Thr Tyr Ser Gly Leu Asp Phe
1   5

<210> 57
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Lys Gly Ala Val Val Val Pro Gly Ala Leu
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<400> 58

Asn Ser Leu Tyr Gly Gly Asn Ser Ala
1   5

<210> 59
<211> 7
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<400> 59

Asp Gly Gly Gly Gly Arg Phe
1   5

<210> 60
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<400> 60

Gly Gly Gly Ala Leu Gly Arg Gly Met
1   5

<210> 61
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<400> 61

Leu Leu Arg Ser Gly Gly Gln Ser Tyr Ala Phe
1   5   10

<210> 62
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<400> 62

Gly Tyr Ser Ser Ser Trp Ser Phe
1   5

<210> 63

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<400> 63

Ala Gly Ser Ser Gly Trp Thr Leu
1 5

<210> 64
<211> 6
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<400> 64

Asp Lys Gly Trp Gly Phe
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<400> 65

Leu Gly Val Val Arg Gly Val Met Lys Gly Phe
1 5 10

<210> 66
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<400> 66

Ser Ser Tyr Ser Ser Ser Trp Gly Met
1 5

<210> 67
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<400> 67

Ala Asn Ser Trp Ser Ala Gly Gly Met
1   5

<210> 68
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<400> 68

Glu Arg Gly Arg Gly Tyr Ser Tyr Met
1   5

<210> 69
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<400> 69

Val Ala Arg Gly Ile His Asp Ala Phe
1   5

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<400> 70

Arg His Gly Met

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<220>
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<400> 71

Phe Asp Ser Ser Gly Tyr Tyr Tyr
1 5

<210> 72
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<220>
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<400> 72

Asp Leu Val Thr Thr Gly Ala Phe
1 5

<210> 73
<211> 12
<212> PRT
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<220>
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<400> 73

Ala Ile Arg Val Ser Gly Thr Pro Glu Asn Gly Phe
1 5 10

<210> 74
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<212> PRT
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<220>
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<400> 74

Val Arg Ile Thr His Gly Met
1   5

<210> 75
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<400> 75

Gly Lys Leu Ala Phe
1   5

<210> 76
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<400> 76

Asn Gly Asp Ser Ser Gly Tyr His Thr Ser Pro Asn Trp Tyr Phe
1   5   10   15

<210> 77
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<400> 77

Val Ser Thr Asp Ser Ser Ser Met
1   5

<210> 78
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<400> 78

Thr Ser Gln Asp Pro Gly Ala Phe
1 5

<210> 79
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<400> 79

Ala Glu Ser Gly Val Tyr Ser Ser Asn Gly Met
1 5 10

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<400> 80

Val Asp Arg Val Arg Ser Gly Met
1 5

<210> 81
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<220>
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<400> 81

Ile Gly Gln Tyr Cys Ser Ser Thr Ser Cys Tyr Met
1 5 10

<210> 82
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<220>
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<400> 82

Asp Leu Gly Gly Ser Gly Gly Ala Phe
1   5

<210> 83
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<400> 83

Asp Ser Asp Ala Gly Tyr Phe
1   5

<210> 84
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<400> 84

Ala Ser Ile Val Ala Ser Gly Ala Phe
1   5

<210> 85
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<400> 85

Ala Gly Gly Ser Asn Ala Phe
1   5

<210> 86
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<400> 86

Val Ser Thr Asp Ser Tyr Gly Arg Gln Asn Trp Phe
1   5   10

<210> 87
<211> 14
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<220>
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<400> 87

Gln Tyr Thr Ser Gly Arg Leu Ala Tyr Tyr Tyr His Tyr Met
1   5   10

<210> 88
<211> 6
<212> PRT
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<220>
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<400> 88

Gly Ile Arg Gly Ala Phe
1   5

<210> 89
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<220>
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<400> 89

Val Gly Tyr Ser Thr Thr Gln Leu
1   5

<210> 90

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<400> 90

Met Ala Gly Ser Tyr Tyr Ala Phe
1   5

<210> 91
<211> 15
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<400> 91

Val Gly Asp Tyr Tyr Asp Ser Ser Gly Tyr Leu Asp Trp Tyr Phe
1   5   10   15

<210> 92
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<400> 92

Gly Ser Asp Thr Thr Ser Phe Val Ser
1   5

<210> 93
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<400> 93

Ala Gly His Tyr Tyr Tyr Tyr Met
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<210> 94
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<400> 94

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

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<400> 95

Val Glu Gly Gly Pro Pro Tyr Tyr Phe
1   5

<210> 96
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<212> PRT
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<400> 96

Asn Gly Leu Asp Asn Tyr Gly Met
1   5

<210> 97
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<400> 97

Leu Gly Thr Thr Lys Arg Ala Phe

1 5

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<400> 98

Val Tyr Val Asp His Glu Gly Met
1 5

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<400> 99

Trp Ser Gly Ser Gly Phe
1 5

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Asp Phe Gly Trp Gly Gly Ala Phe
1 5

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<400> 101

Val Val Gly Gly Thr Gln His
1 5

<210> 102
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<400> 102

Asn Trp Leu Leu Tyr Tyr Gly Asp Pro Gln Gln Asn Ala Phe
1 5 10

<210> 103
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<400> 103

Leu Tyr Phe Asp Trp Phe Ala Asp Ser Gln Asn Ala Phe
1 5 10

<210> 104
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<220>
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<400> 104

Val Gly Tyr Gln Pro Leu Leu Tyr Ala Asp Tyr Tyr Phe
1 5 10

<210> 105
<211> 5
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<400> 105

Gly Ala Met Gly Leu
1   5

<210> 106
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<400> 106

Val Tyr Tyr Leu Ser Gly Val His Ala Phe
1   5   10

<210> 107
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<400> 107

Thr Glu Arg Trp Leu Gln Phe
1   5

<210> 108
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<220>
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<400> 108

Asn Gly Asp Tyr Ala Phe
1   5

<210> 109
<211> 10
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<220>
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<400> 109

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

<210> 110
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<400> 110

His Gly Ser Gln Gly Gly Phe
1   5

<210> 111
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<400> 111

Val Gly Tyr Met Gly Gly Met
1   5

<210> 112
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<400> 112

Asn Thr Pro Gly Ile Ala Ala Ala Gly Pro
1   5   10

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<400> 113

Val Gly Thr Thr Thr Val Thr Ser Phe
1   5

<210> 114
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<400> 114

Val Gly Gly Pro Leu Asn Asp Ala Phe
1   5

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<400> 115

His Ser Ser Gly Gly Ala Phe
1   5

<210> 116
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<400> 116

Gln Gln Tyr Asp Asn Leu Pro
1   5

<210> 117

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<400> 117

Gln Gln Phe Asn Ala Tyr Pro
1   5

<210> 118
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<400> 118

Gln Gln Tyr Asn Ser Tyr Pro
1   5

<210> 119
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<400> 119

Gln Gln Tyr Asp Asn Leu Pro
1   5

<210> 120
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<400> 120

Gln Ser His Asp Ser Ser Asn
1   5

<210> 121
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<220>
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<400> 121

Gln Gln Tyr Asp Asn Leu Pro
1   5

<210> 122
<211> 6
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<220>
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<400> 122

Met Gln Ser Ile Gln Leu
1   5

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<400> 123

Gln Gln Tyr His Arg Trp Pro
1   5

<210> 124
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<400> 124

Gln Gln Tyr Tyr Asp Ser Pro

1 5

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<400> 125

Leu Gln His Asn Ser Tyr Pro
1 5

<210> 126
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<400> 126

Gln Gln Tyr Phe Gly Thr
1 5

<210> 127
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<400> 127

Gln Gln Tyr Asn Asp Trp Pro
1 5

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<400> 128

Gln Ser Phe Asp Thr Asn Ser Leu
1   5

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<400> 129

Gln Gln Tyr Asp Asn Leu Pro
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<210> 130
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<400> 130

Ser Ser Tyr Thr Ser Ser Ser Thr
1   5

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<400> 131

Gln Gln Tyr Asn Ser Tyr Pro
1   5

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<212> PRT
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<400> 132

Gln Gln Thr Phe Thr Thr Pro
1 5

<210> 133
<211> 7
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<400> 133

Gln Gln Tyr Asp Asn Leu Pro
1 5

<210> 134
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<400> 134

Gln Ser Tyr Asp Thr Asn Asn
1 5

<210> 135
<211> 7
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<400> 135

Gln Gln Ser Tyr Ser Thr Pro
1 5

<210> 136
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<400> 136

Gln Gln Tyr Asp Asn Leu Pro
1   5

<210> 137
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<400> 137

Gln Gln Tyr Asp Asn Leu Pro
1   5

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Gln Gln Tyr Asp Asn Leu Pro
1   5

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<400> 139

Gln Ser Tyr Asp Ser Ser Asn
1   5

<210> 140
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Gln Gln Tyr Asp Asn Leu Pro
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<400> 141

Gln Gln Tyr Asp Asp Leu Pro
1   5

<210> 142
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<400> 142

Met Gln Arg Ile Glu Phe Pro
1   5

<210> 143
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<400> 143

Gln Ser Tyr Asp Asn Thr Arg His
1   5

<210> 144

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<400> 144

Gln Ser Tyr Asp Ser Ser Asn
1   5

<210> 145
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<400> 145

Gln Ser Tyr Asp Ser Ser Asn
1   5

<210> 146
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<400> 146

Gln Gln His Asn Asp Trp Pro
1   5

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<400> 147

Gln Ser Tyr His Ser Ser Asn Leu
1   5

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Met Gln Ala Thr His Phe Pro
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Gln Gln Tyr Tyr Ser Thr Pro
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Gln Ser Tyr Asp Asp Ser Asn Tyr
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Ser Ser Tyr Ala Gly Ser Asn Thr Leu

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Gln Gln Ala Asn Ser Phe Pro
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Gln Ser Tyr Asp Ser Ser Ile
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Gln Ser Tyr Asp Ser Ile His
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Gln Ser Tyr Asp Ser Ser Thr His
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Gln Gln Tyr Asp Asn Leu Pro
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Gln Ser Phe Thr Ser Ser Thr Leu
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Gln Gln Tyr Asn Lys Trp Pro
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Gln Ser Tyr Asp Asp Ser Asn Tyr
1 5

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Gln Ser Tyr Asp Ser Ser Asn His
1 5

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Gln Gln Ser Tyr Ser Thr Pro
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Asn Ser Arg Asp Ser Ser Gly Asn Pro Asn
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Gln Ser Tyr Asp Ser Ser Asn Leu
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Gln Ser Tyr Asp Ser Ser Asn His
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Ala Val Trp Asp Asp Arg Leu Asn Gly
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Gln Gln Tyr Asp Ser Tyr Ser
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Gln Ser Ala Asp Ser Ser Gly Thr Asn
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Gln Ser Tyr Asp Ser Ser Asn His
1   5

<210> 169
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Gln Ser Tyr Asp Thr Arg Asn Gln
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Gln Gln Tyr Tyr Ser Thr Pro
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Gln Gln Ser Tyr Ser Thr
1 5

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Ala Ala Trp Asp Asp Ser Leu Phe
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Met Gln Arg Ile Glu Phe Pro
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Gln Gln Tyr Tyr Asn Thr Pro
1 5

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<400> 175

Gln Ser Tyr Asp Ser Ser Ile
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Gln Ser Tyr Asp Ser Thr Asn Leu
1   5

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Gln Gln Ser Tyr Ser Thr Pro
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Asn Ser Arg Asp Ser Ser Gly Asn His

1 5

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Gln Gln Ser Tyr Ser Thr Pro
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Asp Ser Arg Asp Thr Arg Val Asn Xaa
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Gln Gln Tyr Asp Asn Leu
1 5

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<400> 182

Met Gln Ala Leu Gln Thr Pro
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<400> 183

Gln Ser Tyr Asp Ser Ser Asn
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<400> 184

Ser Ser Tyr Thr Ser Ser Ser Thr
1   5

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Met Gln Ala Leu Gln Thr Pro Pro
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<400> 186

Gln Ser Tyr Asp Ser Thr Asn His
1   5

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<400> 187

Gln Ser Tyr Asp Ser Ala Asn Leu
1   5

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<400> 188

Gln Ser Phe Asp Glu Asn Ile Ser
1   5

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His Gln Ser Ala Thr Ser Pro
1   5

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<400> 190

Thr Arg Ser Ser Gly Ala Phe
1   5

<210> 191
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<400> 191

Pro Arg Gly Arg Gly Ser Ala Phe
1   5

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<400> 192

Ala Arg Val Gly Gly Met
1   5

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<400> 193

Asp Thr Gly Pro Ile

1 5

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<400> 194

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

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<400> 195

Gly Gly Phe Thr Val Pro Gly Gly Ala Phe
1 5 10

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Phe Gly Glu Arg Tyr Ala Phe
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Asp Gln Trp Leu Ala Asn Tyr Tyr Tyr Tyr Gly Met
1 5 10

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<400> 198

Asn Arg Gly Gly Ser Tyr Lys Ser Val Gly Met
1 5 10

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<400> 199

Val Ser Ser Tyr Tyr Gly Met
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Ala Pro Ala Ser Ser Ala His
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Gln Arg Gly Tyr Tyr Tyr Gly Met
1 5

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<400> 202

Ser Ser Val Ala Ala Gly Ala Phe
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<400> 203

Leu Ser Gly Arg Gly Leu Gly Phe
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<400> 204

Asp His Tyr Phe
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<400> 205

Ser Gly Arg Arg Val Thr Ala Ile
1   5

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<220>
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<400> 206

Met Gly Arg Tyr Ser Ser Ser Trp
1   5

<210> 207
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<400> 207

His Ser Arg Phe Gly Pro Ala Phe
1   5

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<400> 208

Asp Arg Glu Ala Phe
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<400> 209

Leu Arg Gly Arg Tyr Ser Tyr Gly Tyr Ser Asp Ala Phe
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<400> 210

Leu Leu Asn Ala Val Thr Tyr Ala Phe
1   5

<210> 211
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<220>
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<400> 211

Ile Gly Val Ile Gly Gly Phe
1   5

<210> 212
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<212> PRT
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<220>
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<400> 212

Ile Glu Tyr Ser Ser Ser Ser Pro Tyr Phe
1   5   10

<210> 213

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<400> 213

Asp Leu Leu Pro Thr Thr Val Thr Thr Thr Gly Ala Phe
1   5   10

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<400> 214

Asp Ser Gly Ser Tyr Ser
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<400> 215

Ala Ser Tyr Pro Tyr Tyr Tyr Tyr Tyr Tyr Gly Met
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<400> 216

Ala Leu Gly His Phe
1   5

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<400> 217

Phe Thr Thr Gly Ser Ala Leu
1   5

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<400> 218

Asp Ala Ser Gly Tyr
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<210> 219
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<400> 219

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

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<400> 220

Val Gly Glu Leu Leu Gly Ala Phe

1 5

<210> 221
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<400> 221

His Ser Tyr Asp Ser Asn Asn His
1 5

<210> 222
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<400> 222

His Ser Gly Val Gly Gly Leu Ala Phe
1 5

<210> 223
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<212> PRT
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<220>
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<400> 223

Gly Gly Ser Ile Ala Ala Ala Leu Ala Phe
1 5 10

<210> 224
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<400> 224

Val Glu Tyr Ser Arg Asn Gly Met
1   5

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<400> 225

Gly Arg Tyr Asn
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Leu Asp Tyr Tyr Tyr Gly Met
1   5

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<400> 227

Gly Gly Leu Ser Ser Ala Phe
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<400> 228

Tyr Gly Gly Gly Leu
1 5

<210> 229
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<400> 229

Pro Asp His Leu Thr Val Phe
1 5

<210> 230
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<400> 230

Val Gly Tyr Tyr Gly Met
1 5

<210> 231
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<400> 231

Tyr Glu Gly Tyr Ala Gly Phe
1 5

<210> 232
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<400> 232

Gln Ala Trp Asp Thr Asn Leu Gly
1   5

<210> 233
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Gln Ser Phe Asp Ala Asp Asn Leu His
1   5

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Met Gln Gly Ile Gln Leu Pro
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<400> 235

Gln Gln Ser Tyr Ser Thr Pro
1   5

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Gln Ser Tyr Asp Ala Ser Asn
1   5

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<400> 237

Ser Ala Tyr Thr Gly Ser Asn
1   5

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<400> 238

Gln Val Trp Asp Ser Asn Ser
1   5

<210> 239
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<400> 239

Gln Ser Tyr Asp Glu Val Ser
1   5

<210> 240

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<220>
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<400> 240

Gln Ser Tyr Asn Ser Ser Asn His
1 5

<210> 241
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<400> 241

Gln Ser Tyr Asp Ser Ser His
1 5

<210> 242
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<400> 242

Gln Gln Ser Arg Ser Thr Pro
1 5

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<400> 243

Ser Ser Tyr Thr Ser Ser Ser Thr
1 5

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<400> 244

Ser Ser Tyr Ala Gly Ser Ser Asn Leu
1   5

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<400> 245

Asn Ser Tyr Thr Arg Ser Ser Thr
1   5

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<400> 246

Gln Ser Tyr Asp Asp Thr Asn
1   5

<210> 247
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<400> 247

Gln Ala Trp Asp Thr Asn Ile Gly

1 5

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<400> 248

Ser Ser Tyr Ala Gly Ser Asn Asn
1 5

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<400> 249

Gln Ala Trp Asp Thr Asn Ile Gly
1 5

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<400> 250

Ser Ser Tyr Ala Gly Ser Ser Thr
1 5

<210> 251
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<400> 251

Asn Ser Arg Asp Ser Ser Gly Phe
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<210> 252
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<400> 252

Ser Ser Tyr Thr Ser Ser Ser
1   5

<210> 253
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<400> 253

Gln Ser Tyr Asp Ser Asn Asn Arg
1   5

<210> 254
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<400> 254

Ser Ser Arg Asp Ser Ser Gly Asn His
1   5

<210> 255
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<400> 255

Gln Ala Trp Asp Thr Asn Ile Gly
1 5

<210> 256
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<400> 256

Gln Val Trp Asp Ser Ser Thr Ala Asn
1 5

<210> 257
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<400> 257

Gln Ser Tyr Asp Ser Ser Asn His His
1 5

<210> 258
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<400> 258

Ser Ser Tyr Ala Gly Asn Ser Asn
1 5

<210> 259
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<400> 259

Gln Ala Trp Asp Thr Asn Ile Gly
1   5

<210> 260
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<400> 260

Gly Thr Trp Asp Ser Ser Leu Ser Ala Gly
1   5   10

<210> 261
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<220>
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<400> 261

Ser Ser Leu Asp Ser Asn Asp Asn His
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