SEQUENCE LISTING

<110> AP Biosciences, Inc. ~~HER, JENG-HORNG~~

<120> MONOSPECIFIC AND BISPECIFIC PROTEINS WITH IMMUNE CHECKPOINT REGULATION FOR CANCER THERAPY

<130> 9022-1808584

<140> PCT/US2018/067868
<141> 2018-12-28

<150> US 62/611,543
<151> 2017-12-29

<160> 43

<170> PatentIn version 3.5

<210> 1
<211> 217
<212> PRT
<213> Homo sapiens

<400> 1

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

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

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

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

Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Gln
65                  70                  75                  80

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

Asn Ala Trp Val Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly
            100                 105                 110

Gln Pro Lys Ala Ala Pro Ser Val Thr Leu Phe Pro Pro Ser Ser Glu
        115                 120                 125

Glu Leu Gln Ala Asn Lys Ala Thr Leu Val Cys Leu Ile Ser Asp Phe
    130                 135                 140

Tyr Pro Gly Ala Val Thr Val Ala Trp Lys Ala Asp Ser Ser Pro Val
145                 150                 155                 160

Lys Ala Gly Val Glu Thr Thr Thr Pro Ser Lys Gln Ser Asn Asn Lys
                165                 170                 175

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

His Arg Ser Tyr Ser Cys Gln Val Thr His Glu Gly Ser Thr Val Glu
        195                 200                 205
```

Lys Thr Val Ala Pro Thr Glu Cys Ser
210 215

<210> 2
<211> 118
<212> PRT
<213> Homo sapiens

<400> 2

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

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

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

Gly Gly Ile Ile Pro Val Phe Gly Ala Ala Lys Tyr Ala Gln Lys Phe
50 55 60

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

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

Ala Leu Ser Gly Asp Ser Asp Ala Phe Asp Ile Trp Gly Gln Gly Thr

100 105 110

Met Val Thr Val Ser Ser
115

<210> 3
<211> 216
<212> PRT
<213> Homo sapiens

<400> 3

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

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

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

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

Ser Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu
65 70 75 80

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

Ser Thr Leu Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gln
100 105 110

Pro Lys Ala Ala Pro Ser Val Thr Leu Phe Pro Pro Ser Ser Glu Glu
115 120 125

Leu Gln Ala Asn Lys Ala Thr Leu Val Cys Leu Ile Ser Asp Phe Tyr
130 135 140

Pro Gly Ala Val Thr Val Ala Trp Lys Ala Asp Ser Ser Pro Val Lys
145 150 155 160

Ala Gly Val Glu Thr Thr Thr Pro Ser Lys Gln Ser Asn Asn Lys Tyr
165 170 175

Ala Ala Ser Ser Tyr Leu Ser Leu Thr Pro Glu Gln Trp Lys Ser His
180 185 190

Arg Ser Tyr Ser Cys Gln Val Thr His Glu Gly Ser Thr Val Glu Lys
195 200 205

Thr Val Ala Pro Thr Glu Cys Ser
210 215

<210> 4
<211> 121
<212> PRT
<213> Homo sapiens

<400> 4

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

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

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

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

Gln Gly Thr Thr Val Thr Val Ser Ser
        115                 120
```

<210> 5
<211> 214
<212> PRT
<213> Homo sapiens

<400> 5

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

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

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

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

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

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

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

Ala Ala Pro Ser Val Thr Leu Phe Pro Pro Ser Ser Glu Glu Leu Gln
115 120 125

Ala Asn Lys Ala Thr Leu Val Cys Leu Ile Ser Asp Phe Tyr Pro Gly
130 135 140

```
Ala Val Thr Val Ala Trp Lys Ala Asp Ser Ser Pro Val Lys Ala Gly
145                 150                 155                 160

Val Glu Thr Thr Thr Pro Ser Lys Gln Ser Asn Asn Lys Tyr Ala Ala
                165                 170                 175

Ser Ser Tyr Leu Ser Leu Thr Pro Glu Gln Trp Lys Ser His Arg Ser
            180                 185                 190

Tyr Ser Cys Gln Val Thr His Glu Gly Ser Thr Val Glu Lys Thr Val
        195                 200                 205

Ala Pro Thr Glu Cys Ser
    210
```

<210> 6
<211> 126
<212> PRT
<213> Homo sapiens

<400> 6

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

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

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

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

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

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

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

Phe Asp Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser
115 120 125

<210> 7
<211> 214
<212> PRT
<213> Homo sapiens

<400> 7

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

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

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

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

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

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

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

Ala Ala Pro Ser Val Thr Leu Phe Pro Pro Ser Ser Glu Glu Leu Gln
        115                 120                 125

Ala Asn Lys Ala Thr Leu Val Cys Leu Ile Ser Asp Phe Tyr Pro Gly
    130                 135                 140

Ala Val Thr Val Ala Trp Lys Ala Asp Ser Ser Pro Val Lys Ala Gly
145                 150                 155                 160

Val Glu Thr Thr Thr Pro Ser Lys Gln Ser Asn Asn Lys Tyr Ala Ala
                165                 170                 175

Ser Ser Tyr Leu Ser Leu Thr Pro Glu Gln Trp Lys Ser His Arg Ser
            180                 185                 190
```

Tyr Ser Cys Gln Val Thr His Glu Gly Ser Thr Val Glu Lys Thr Val
195 200 205

Ala Pro Ala Glu Cys Ser
210

<210> 8
<211> 118
<212> PRT
<213> Homo sapiens

<400> 8

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

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

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

Ser Ser Ile Ser Ser Ser Ser Ser Arg Tyr Ile Tyr Tyr Ala Asp Ser Val
50 55 60

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

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

Ala Arg Gln Asn Glu Asp Val Ala Phe Gly Ile Trp Gly Gln Gly Thr
100 105 110

Met Val Thr Val Ser Ser
115

<210> 9
<211> 327
<212> PRT
<213> Homo sapiens

<400> 9

Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Cys Ser Arg
1 5 10 15

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

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

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

Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Lys Thr
65 70 75 80

Tyr Thr Cys Asn Val Asp His Lys Pro Ser Asn Thr Lys Val Asp Lys
85 90 95

```
Arg Val Glu Ser Lys Tyr Gly Pro Pro Cys Pro Pro Cys Pro Ala Pro
            100                 105                 110

Glu Phe Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys
        115                 120                 125

Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val
    130                 135                 140

Asp Val Ser Gln Glu Asp Pro Glu Val Gln Phe Asn Trp Tyr Val Asp
145                 150                 155                 160

Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Phe
                165                 170                 175

Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp
            180                 185                 190

Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Gly Leu
        195                 200                 205

Pro Ser Ser Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg
    210                 215                 220

Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Gln Glu Glu Met Thr Lys
225                 230                 235                 240
```

Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp
245 250 255

Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys
260 265 270

Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser
275 280 285

Arg Leu Thr Val Asp Lys Ser Arg Trp Gln Glu Gly Asn Val Phe Ser
290 295 300

Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser
305 310 315 320

Leu Ser Leu Ser Leu Gly Lys
325

<210> 10
<211> 246
<212> PRT
<213> Artificial Sequence

<220>
<223> OX40 scFv (Clone A4)

<400> 10

Gln Ser Ala Leu Thr Gln Pro Pro Ser Ala Ser Gly Ser Pro Gly Gln
1 5 10 15

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

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

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

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

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

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

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln
115 120 125

Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser
130 135 140

Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr Glu
145 150 155 160

Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ser
165 170 175

Tyr Ile Ser Ser Ser Gly Ser Thr Ile Tyr Tyr Ala Asp Ser Val Lys
180 185 190

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

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala
210 215 220

Arg Gly Gly Val Gly Asp Ala Phe Asp Ile Trp Gly Gln Gly Thr Met
225 230 235 240

Val Thr Val Ser Ser Ala
245

<210> 11
<211> 250
<212> PRT
<213> Artificial Sequence

<220>
<223> OX40 scFv (Clone B17)

<400> 11

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

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

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

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

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

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

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

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

Glu Ser Gly Gly Val Val Val Gln Pro Gly Gly Ser Leu Arg Leu Ser
    130                 135                 140

Cys Ala Ala Ser Gly Phe Thr Phe Asp Asp Tyr Thr Met His Trp Val
145                 150                 155                 160

Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ser Leu Ile Ser Trp
                165                 170                 175
```

```
Asp Gly Gly Ser Thr Tyr Tyr Ala Asp Ser Val Lys Gly Arg Phe Thr
            180                 185                 190

Ile Ser Arg Asp Asn Ser Lys Asn Ser Leu Tyr Leu Gln Met Asn Ser
        195                 200                 205

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

Pro Pro Pro Gly Ser Arg Ser Ala Leu Asp Ala Phe Asp Ile Trp Gly
225                 230                 235                 240

Gln Gly Thr Met Val Thr Val Ser Ser Ala
                245                 250
```

<210> 12
<211> 243
<212> PRT
<213> Artificial Sequence

<220>
<223> OX40 scFv (Clone B19)

<400> 12

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

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

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

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

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

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

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

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

Val Glu Ser Gly Gly Gly Leu Val Lys Pro Gly Gly Ser Leu Arg Leu
    130                 135                 140

Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr Ser Met Asn Trp
145                 150                 155                 160

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

Ser Ser Ser Arg Tyr Ile Tyr Tyr Ala Asp Ser Val Lys Gly Arg Phe
            180                 185                 190
```

Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr Leu Gln Met Asn
195 200 205

Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg Gln Asn
210 215 220

Glu Asp Val Ala Phe Gly Ile Trp Gly Gln Gly Thr Met Val Thr Val
225 230 235 240

Ser Ser Ala

<210> 13
<211> 241
<212> PRT
<213> Artificial Sequence

<220>
<223> OX40 scFv (Clone B120)

<400> 13

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

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

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

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

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

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

Val Phe Gly Thr Gly Thr Lys Val Thr Val Ser Ser Gly Gly Gly Gly
            100                 105                 110

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

Gln Trp Gly Ala Gly Leu Leu Lys Pro Ser Glu Thr Leu Ser Leu Thr
    130                 135                 140

Cys Ala Val Tyr Gly Gly Ser Phe Ser Gly Tyr Tyr Trp Ser Trp Ile
145                 150                 155                 160

Arg Gln Pro Pro Gly Lys Gly Leu Glu Trp Ile Gly Glu Ile Asn His
                165                 170                 175

Ser Gly Ser Thr Asn Tyr Asn Pro Ser Leu Lys Ser Arg Val Thr Ile
            180                 185                 190
```

Ser Val Asp Thr Ser Lys Asn Gln Phe Ser Leu Lys Leu Ser Ser Val
195 200 205

Thr Ala Ala Asp Thr Ala Val Tyr Tyr Cys Ala Arg Gly Arg Trp Gly
210 215 220

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

Ala

<210> 14
<211> 10~~6~~
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide linker

<400> 14

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
1 5 10

~~Gly Gly Gly Gly Gly Ser~~
~~1 5~~

<210> 15
<211> 20
<212> PRT
<213> Artificial Sequence

<220>

<223> signal peptide

<400> 15

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

Gly Ser Thr Gly
20

<210> 16
<211> 704
<212> PRT
<213> Artificial Sequence

<220>
<223> Anti-PD-L1-clone 6 Heavy Chain-OX40 clone B17 scFv antibody

<400> 16

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

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

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

Gly Gly Ile Ile Pro Val Phe Gly Ala Ala Lys Tyr Ala Gln Lys Phe
50 55 60

```
Gln Gly Arg Val Thr Ile Thr Ala Asp Glu Phe Thr Ser Thr Ala Tyr
65                  70                  75                  80

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

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

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

Leu Ala Pro Cys Ser Arg Ser Thr Ser Glu Ser Thr Ala Ala Leu Gly
    130                 135                 140

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

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

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

Ser Leu Gly Thr Lys Thr Tyr Thr Cys Asn Val Asp His Lys Pro Ser
        195                 200                 205

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

```
Pro Pro Cys Pro Ala Pro Glu Phe Leu Gly Gly Pro Ser Val Phe Leu
225                 230                 235                 240

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

Val Thr Cys Val Val Val Asp Val Ser Gln Glu Asp Pro Glu Val Gln
            260                 265                 270

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

Pro Arg Glu Glu Gln Phe Asn Ser Thr Tyr Arg Val Val Ser Val Leu
    290                 295                 300

Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys
305                 310                 315                 320

Val Ser Asn Lys Gly Leu Pro Ser Ser Ile Glu Lys Thr Ile Ser Lys
                325                 330                 335

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

Gln Glu Glu Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys
        355                 360                 365
```

```
Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln
    370                 375                 380

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

Ser Phe Phe Leu Tyr Ser Arg Leu Thr Val Asp Lys Ser Arg Trp Gln
                405                 410                 415

Glu Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn
            420                 425                 430

His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Leu Gly Gly Gly Gly Gly
        435                 440                 445

Ser Gly Gly Gly Gly Ser Tyr Val Leu Thr Gln Pro Pro Ser Val Ser
    450                 455                 460

Val Thr Pro Gly Lys Thr Ala Arg Ile Ala Cys Gly Gly Asn Asn Leu
465                 470                 475                 480

Glu Ser Lys Ile Val Ser Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro
                485                 490                 495

Val Leu Val Ile Phe Tyr Asp Thr Asp Arg Pro Ser Gly Ile Ser Glu
            500                 505                 510

Arg Phe Ser Gly Ser Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser
        515                 520                 525
```

Arg Val Glu Ala Gly Asp Glu Ala Asp Tyr Tyr Cys Gln Val Trp Asp
530 535 540

Ser Asn Ser Asp His Val Ile Phe Gly Gly Gly Thr Lys Leu Thr Val
545 550 555 560

Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly
565 570 575

Ser Glu Val Gln Leu Val Glu Ser Gly Gly Val Val Val Gln Pro Gly
580 585 590

Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asp Asp
595 600 605

Tyr Thr Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp
610 615 620

Val Ser Leu Ile Ser Trp Asp Gly Gly Ser Thr Tyr Tyr Ala Asp Ser
625 630 635 640

Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Ser Leu
645 650 655

Tyr Leu Gln Met Asn Ser Leu Arg Thr Glu Asp Thr Ala Leu Tyr Tyr
660 665 670

Cys Ala Ser Ile Tyr Asp Pro Pro Pro Gly Ser Arg Ser Ala Leu Asp
675 680 685

Ala Phe Asp Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Ala
690 695 700

<210> 17
<211> 696
<212> PRT
<213> Artificial Sequence

<220>
<223> Anti-PD-L1-clone 6 Heavy Chain-OX40 clone B19 scFv antibody

<400> 17

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

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

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

Gly Gly Ile Ile Pro Val Phe Gly Ala Ala Lys Tyr Ala Gln Lys Phe
50 55 60

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

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

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

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

Leu Ala Pro Cys Ser Arg Ser Thr Ser Glu Ser Thr Ala Ala Leu Gly
    130                 135                 140

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

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

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

Ser Leu Gly Thr Lys Thr Tyr Thr Cys Asn Val Asp His Lys Pro Ser
        195                 200                 205

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

Pro Pro Cys Pro Ala Pro Glu Phe Leu Gly Gly Pro Ser Val Phe Leu
225                 230                 235                 240
```

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

Val Thr Cys Val Val Val Asp Val Ser Gln Glu Asp Pro Glu Val Gln
260 265 270

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

Pro Arg Glu Glu Gln Phe Asn Ser Thr Tyr Arg Val Val Ser Val Leu
290 295 300

Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys
305 310 315 320

Val Ser Asn Lys Gly Leu Pro Ser Ser Ile Glu Lys Thr Ile Ser Lys
325 330 335

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

Gln Glu Glu Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys
355 360 365

Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln
370 375 380

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

Ser Phe Phe Leu Tyr Ser Arg Leu Thr Val Asp Lys Ser Arg Trp Gln
405 410 415

Glu Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn
420 425 430

His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Leu Gly Gly Gly Gly Gly
435 440 445

Ser Gly Gly Gly Gly Ser Tyr Val Leu Thr Gln Pro Pro Ser Val Ser
450 455 460

Val Thr Pro Gly Lys Thr Ala Arg Ile Ala Cys Gly Gly Asn Asn Leu
465 470 475 480

Glu Ser Lys Ile Val Ser Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro
485 490 495

Val Leu Val Ile Phe Tyr Asp Thr Asp Arg Pro Ser Gly Ile Ser Glu
500 505 510

Arg Phe Ser Gly Ser Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser
515 520 525

Arg Val Glu Ala Gly Asp Glu Ala Asp Tyr Tyr Cys Gln Val Trp Asp
530 535 540

Ser Asn Ser Asp His Val Ile Phe Gly Gly Gly Thr Lys Leu Thr Val
545 550 555 560

Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly
565 570 575

Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Lys Pro Gly
580 585 590

Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser
595 600 605

Tyr Ser Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp
610 615 620

Val Ser Ser Ile Ser Ser Ser Ser Ser Arg Tyr Ile Tyr Tyr Ala Asp Ser
625 630 635 640

Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu
645 650 655

Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr
660 665 670

Cys Ala Arg Gln Asn Glu Asp Val Ala Phe Gly Ile Trp Gly Gln Gly
675 680 685

Thr Met Val Thr Val Ser Ser Ala
690 695

<210> 18
<211> 707
<212> PRT
<213> Artificial Sequence

<220>
<223> Anti-PD-L1-OX40 Ab-V1

<400> 18

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

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

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

Gly Gly Ile Ile Pro Val Phe Gly Ala Ala Lys Tyr Ala Gln Lys Phe
50 55 60

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

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

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

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

Leu Ala Pro Cys Ser Arg Ser Thr Ser Glu Ser Thr Ala Ala Leu Gly
    130                 135                 140

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

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

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

Ser Leu Gly Thr Lys Thr Tyr Thr Cys Asn Val Asp His Lys Pro Ser
        195                 200                 205

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

Pro Pro Cys Pro Ala Pro Glu Phe Leu Gly Gly Pro Ser Val Phe Leu
225                 230                 235                 240

Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu
                245                 250                 255
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Val Thr Cys Val Val Val Asp Val Ser Gln Glu Asp Pro Glu Val Gln
260 265 270

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

Pro Arg Glu Glu Gln Phe Asn Ser Thr Tyr Arg Val Val Ser Val Leu
290 295 300

Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys
305 310 315 320

Val Ser Asn Lys Gly Leu Pro Ser Ser Ile Glu Lys Thr Ile Ser Lys
325 330 335

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

Gln Glu Glu Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys
355 360 365

Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln
370 375 380

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

Ser Phe Phe Leu Tyr Ser Arg Leu Thr Val Asp Lys Ser Arg Trp Gln
405 410 415

Glu Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn
420 425 430

His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Leu Gly Gly Gly Gly Gly
435 440 445

Ser Gly Gly Gly Gly Ser Tyr Val Leu Thr Gln Pro Pro Ser Val Ser
450 455 460

Val Thr Pro Gly Lys Thr Ala Arg Ile Ala Cys Gly Gly Asn Asn Leu
465 470 475 480

Glu Ser Lys Ile Val Ser Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro
485 490 495

Val Leu Val Ile Phe Tyr Asp Thr Asp Arg Pro Ser Gly Ile Ser Glu
500 505 510

Arg Phe Ser Gly Ser Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser
515 520 525

Arg Val Glu Ala Gly Asp Glu Ala Asp Tyr Tyr Cys Gln Val Trp Asp
530 535 540

Ser Asn Ser Asp His Val Ile Phe Gly Gly Gly Thr Lys Leu Thr Val
545 550 555 560

Leu Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Gly Gly Ser Ser
565 570 575

Arg Ser Ser Leu Glu Val Gln Leu Val Glu Ser Gly Gly Val Val Val
580 585 590

Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr
595 600 605

Phe Asp Asp Tyr Thr Met His Trp Val Arg Gln Ala Pro Gly Lys Gly
610 615 620

Leu Glu Trp Val Ser Leu Ile Ser Trp Asp Gly Gly Ser Thr Tyr Tyr
625 630 635 640

Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys
645 650 655

Asn Ser Leu Tyr Leu Gln Met Asn Ser Leu Arg Thr Glu Asp Thr Ala
660 665 670

Leu Tyr Tyr Cys Ala Ser Ile Tyr Asp Pro Pro Pro Gly Ser Arg Ser
675 680 685

Ala Leu Asp Ala Phe Asp Ile Trp Gly Gln Gly Thr Met Val Thr Val
690 695 700

Ser Ser Ala
705

<210> 19
<211> 708
<212> PRT
<213> Artificial Sequence

<220>
<223> Anti-PD-L1-OX40 Ab-V2

<400> 19

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

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

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

Gly Gly Ile Ile Pro Val Phe Gly Ala Ala Lys Tyr Ala Gln Lys Phe
50 55 60

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

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

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

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

Leu Ala Pro Cys Ser Arg Ser Thr Ser Glu Ser Thr Ala Ala Leu Gly
130 135 140

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

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

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

Ser Leu Gly Thr Lys Thr Tyr Thr Cys Asn Val Asp His Lys Pro Ser
195 200 205

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

Pro Pro Cys Pro Ala Pro Glu Phe Leu Gly Gly Pro Ser Val Phe Leu
225 230 235 240

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

Val Thr Cys Val Val Val Asp Val Ser Gln Glu Asp Pro Glu Val Gln
260 265 270

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

Pro Arg Glu Glu Gln Phe Asn Ser Thr Tyr Arg Val Val Ser Val Leu
290 295 300

Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys
305 310 315 320

Val Ser Asn Lys Gly Leu Pro Ser Ser Ile Glu Lys Thr Ile Ser Lys
325 330 335

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

Gln Glu Glu Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys
355 360 365

Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln
370 375 380

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

Ser Phe Phe Leu Tyr Ser Arg Leu Thr Val Asp Lys Ser Arg Trp Gln
405 410 415

Glu Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn
420 425 430

His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Leu Gly Gly Gly Gly Gly
435 440 445

Ser Gly Gly Gly Gly Ser Tyr Val Leu Thr Gln Pro Pro Ser Val Ser
450 455 460

Val Thr Pro Gly Lys Thr Ala Arg Ile Ala Cys Gly Gly Asn Asn Leu
465 470 475 480

Glu Ser Lys Ile Val Ser Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro
485 490 495

Val Leu Val Ile Phe Tyr Asp Thr Asp Arg Pro Ser Gly Ile Ser Glu
500 505 510

Arg Phe Ser Gly Ser Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser
515 520 525

Arg Val Glu Ala Gly Asp Glu Ala Asp Tyr Tyr Cys Gln Val Trp Asp
530 535 540

Ser Asn Ser Asp His Val Ile Phe Gly Gly Gly Thr Lys Leu Thr Val
545 550 555 560

Leu Gly Gly Lys Gly Ser Gly Gly Lys Gly Thr Gly Gly Lys Gly Ser
565 570 575

Gly Gly Lys Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Val Val
580 585 590

Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe
595 600 605

Thr Phe Asp Asp Tyr Thr Met His Trp Val Arg Gln Ala Pro Gly Lys
610 615 620

Gly Leu Glu Trp Val Ser Leu Ile Ser Trp Asp Gly Gly Ser Thr Tyr
625 630 635 640

Tyr Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser
645 650 655

Lys Asn Ser Leu Tyr Leu Gln Met Asn Ser Leu Arg Thr Glu Asp Thr
660 665 670

Ala Leu Tyr Tyr Cys Ala Ser Ile Tyr Asp Pro Pro Pro Gly Ser Arg
675 680 685

Ser Ala Leu Asp Ala Phe Asp Ile Trp Gly Gln Gly Thr Met Val Thr
690 695 700

Val Ser Ser Ala
705

<210> 20
<211> 701
<212> PRT
<213> Artificial Sequence

<220>
<223> Anti-PD-L1-OX40 Ab-V3

<400> 20

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

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

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

Gly Gly Ile Ile Pro Val Phe Gly Ala Ala Lys Tyr Ala Gln Lys Phe
50 55 60

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

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

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

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

Leu Ala Pro Cys Ser Arg Ser Thr Ser Glu Ser Thr Ala Ala Leu Gly
130 135 140

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

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

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

Ser Leu Gly Thr Lys Thr Tyr Thr Cys Asn Val Asp His Lys Pro Ser
195 200 205

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

Pro Pro Cys Pro Ala Pro Glu Phe Leu Gly Gly Pro Ser Val Phe Leu
225 230 235 240

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

Val Thr Cys Val Val Val Asp Val Ser Gln Glu Asp Pro Glu Val Gln
260 265 270

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

Pro Arg Glu Glu Gln Phe Asn Ser Thr Tyr Arg Val Val Ser Val Leu
290 295 300

Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys
305 310 315 320

Val Ser Asn Lys Gly Leu Pro Ser Ser Ile Glu Lys Thr Ile Ser Lys
325 330 335

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

Gln Glu Glu Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys
355 360 365

Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln
370 375 380

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

Ser Phe Phe Leu Tyr Ser Arg Leu Thr Val Asp Lys Ser Arg Trp Gln
405 410 415

Glu Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn
420 425 430

His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Leu Gly Gly Gly Gly Gly
435 440 445

Ser Gly Gly Gly Gly Ser Tyr Val Leu Thr Gln Pro Pro Ser Val Ser
450 455 460

Val Thr Pro Gly Lys Thr Ala Arg Ile Ala Cys Gly Gly Asn Asn Leu
465 470 475 480

Glu Ser Lys Ile Val Ser Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro
485 490 495

Val Leu Val Ile Phe Tyr Asp Thr Asp Arg Pro Ser Gly Ile Ser Glu
500 505 510

Arg Phe Ser Gly Ser Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser
515 520 525

Arg Val Glu Ala Gly Asp Glu Ala Asp Tyr Tyr Cys Gln Val Trp Asp
530 535 540

Ser Asn Ser Asp His Val Ile Phe Gly Gly Gly Thr Lys Leu Thr Val
545 550 555 560

Leu Gly Ser Ala Ser Ala Pro Thr Leu Phe Pro Leu Val Ser Glu Val
565 570 575

Gln Leu Val Glu Ser Gly Gly Val Val Val Gln Pro Gly Gly Ser Leu
580 585 590

Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asp Asp Tyr Thr Met
595 600 605

His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ser Leu
610 615 620

Ile Ser Trp Asp Gly Gly Ser Thr Tyr Tyr Ala Asp Ser Val Lys Gly
625 630 635 640

Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Ser Leu Tyr Leu Gln
645 650 655

Met Asn Ser Leu Arg Thr Glu Asp Thr Ala Leu Tyr Tyr Cys Ala Ser
660 665 670

Ile Tyr Asp Pro Pro Pro Gly Ser Arg Ser Ala Leu Asp Ala Phe Asp
675 680 685

Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Ala
690 695 700

<210> 21
<211> 706
<212> PRT
<213> Artificial Sequence

<220>
<223> Anti-PD-L1-OX40 Ab-V4

<400> 21

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

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

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

Gly Gly Ile Ile Pro Val Phe Gly Ala Ala Lys Tyr Ala Gln Lys Phe
50 55 60

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

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

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

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

Leu Ala Pro Cys Ser Arg Ser Thr Ser Glu Ser Thr Ala Ala Leu Gly
130 135 140

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

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

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

Ser Leu Gly Thr Lys Thr Tyr Thr Cys Asn Val Asp His Lys Pro Ser
195 200 205

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

Pro Pro Cys Pro Ala Pro Glu Phe Leu Gly Gly Pro Ser Val Phe Leu
225 230 235 240

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

Val Thr Cys Val Val Val Asp Val Ser Gln Glu Asp Pro Glu Val Gln
260 265 270

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

Pro Arg Glu Glu Gln Phe Asn Ser Thr Tyr Arg Val Val Ser Val Leu
290 295 300

Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys
305 310 315 320

Val Ser Asn Lys Gly Leu Pro Ser Ser Ile Glu Lys Thr Ile Ser Lys
325 330 335

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

Gln Glu Glu Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys
355 360 365

Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln
370 375 380

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

Ser Phe Phe Leu Tyr Ser Arg Leu Thr Val Asp Lys Ser Arg Trp Gln
405 410 415

Glu Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn
420 425 430

His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Leu Gly Gly Gly Gly Gly
435 440 445

Ser Gly Gly Gly Gly Ser Tyr Val Leu Thr Gln Pro Pro Ser Val Ser
450 455 460

Val Thr Pro Gly Lys Thr Ala Arg Ile Ala Cys Gly Gly Asn Asn Leu
465 470 475 480

Glu Ser Lys Ile Val Ser Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro
485 490 495

Val Leu Val Ile Phe Tyr Asp Thr Asp Arg Pro Ser Gly Ile Ser Glu
500 505 510

Arg Phe Ser Gly Ser Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser
515 520 525

Arg Val Glu Ala Gly Asp Glu Ala Asp Tyr Tyr Cys Gln Val Trp Asp
530 535 540

Ser Asn Ser Asp His Val Ile Phe Gly Gly Gly Thr Lys Leu Thr Val
545 550 555 560

Leu Gly Ser Thr Ser Gly Ser Gly Lys Pro Gly Ser Gly Glu Gly Ser
565 570 575

Thr Lys Gly Glu Val Gln Leu Val Glu Ser Gly Gly Val Val Val Gln
580 585 590

Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe
595 600 605

Asp Asp Tyr Thr Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
610 615 620

Glu Trp Val Ser Leu Ile Ser Trp Asp Gly Gly Ser Thr Tyr Tyr Ala
625 630 635 640

Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn
645 650 655

Ser Leu Tyr Leu Gln Met Asn Ser Leu Arg Thr Glu Asp Thr Ala Leu
660 665 670

Tyr Tyr Cys Ala Ser Ile Tyr Asp Pro Pro Pro Gly Ser Arg Ser Ala
675 680 685

Leu Asp Ala Phe Asp Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser
690 695 700

Ser Ala
705

<210> 22
<211> 706
<212> PRT
<213> Artificial Sequence

<220>
<223> Anti-PD-L1-OX40 Ab-V5

<400> 22

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

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

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

Gly Gly Ile Ile Pro Val Phe Gly Ala Ala Lys Tyr Ala Gln Lys Phe
50 55 60

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

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

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

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

Leu Ala Pro Cys Ser Arg Ser Thr Ser Glu Ser Thr Ala Ala Leu Gly
130 135 140

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

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

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

Ser Leu Gly Thr Lys Thr Tyr Thr Cys Asn Val Asp His Lys Pro Ser
195 200 205

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

Pro Pro Cys Pro Ala Pro Glu Phe Leu Gly Gly Pro Ser Val Phe Leu
225 230 235 240

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

Val Thr Cys Val Val Val Asp Val Ser Gln Glu Asp Pro Glu Val Gln
260 265 270

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

Pro Arg Glu Glu Gln Phe Asn Ser Thr Tyr Arg Val Val Ser Val Leu
    290                 295                 300

Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys
305                 310                 315                 320

Val Ser Asn Lys Gly Leu Pro Ser Ser Ile Glu Lys Thr Ile Ser Lys
                325                 330                 335

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

Gln Glu Glu Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys
        355                 360                 365

Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln
    370                 375                 380

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

Ser Phe Phe Leu Tyr Ser Arg Leu Thr Val Asp Lys Ser Arg Trp Gln
                405                 410                 415
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Glu Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn
420 425 430

His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Leu Gly Gly Gly Gly Gly
435 440 445

Ser Gly Gly Gly Gly Ser Tyr Glu Leu Thr Gln Pro Pro Ser Val Ser
450 455 460

Val Thr Pro Gly Gln Thr Ala Arg Ile Ala Cys Gly Gly Asn Asn Leu
465 470 475 480

Glu Ser Lys Ile Val Ser Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro
485 490 495

Val Leu Val Ile Phe Tyr Asp Thr Asp Arg Pro Ser Gly Ile Ser Glu
500 505 510

Arg Phe Ser Gly Ser Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser
515 520 525

Arg Val Glu Ala Gly Asp Glu Ala Asp Tyr Tyr Cys Gln Val Trp Asp
530 535 540

Ser Asn Ser Asp His Val Ile Phe Gly Gly Gly Thr Lys Leu Thr Val
545 550 555 560

Leu Gly Ser Thr Ser Gly Ser Gly Lys Pro Gly Ser Gly Glu Gly Ser
565 570 575

Thr Lys Gly Glu Val Gln Leu Val Glu Ser Gly Gly Val Val Val Gln
580 585 590

Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe
595 600 605

Asp Asp Tyr Thr Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
610 615 620

Glu Trp Val Ser Leu Ile Ser Trp Asp Gly Gly Ser Thr Tyr Tyr Ala
625 630 635 640

Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn
645 650 655

Ser Leu Tyr Leu Gln Met Asn Ser Leu Arg Thr Glu Asp Thr Ala Leu
660 665 670

Tyr Tyr Cys Ala Ser Ile Tyr Asp Pro Pro Pro Gly Ser Arg Ser Ala
675 680 685

Leu Asp Ala Phe Asp Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser
690 695 700

Ser Ala
705

<210> 23
<211> 706
<212> PRT
<213> Artificial Sequence

<220>
<223> Anti-PD-L1-OX40 Ab-V6

<400> 23

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

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

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

Gly Gly Ile Ile Pro Val Phe Gly Ala Ala Lys Tyr Ala Gln Lys Phe
50 55 60

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

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

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

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

Leu Ala Pro Cys Ser Arg Ser Thr Ser Glu Ser Thr Ala Ala Leu Gly
130 135 140

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

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

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

Ser Leu Gly Thr Lys Thr Tyr Thr Cys Asn Val Asp His Lys Pro Ser
195 200 205

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

Pro Pro Cys Pro Ala Pro Glu Phe Leu Gly Gly Pro Ser Val Phe Leu
225 230 235 240

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

Val Thr Cys Val Val Val Asp Val Ser Gln Glu Asp Pro Glu Val Gln
260 265 270

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

Pro Arg Glu Glu Gln Phe Asn Ser Thr Tyr Arg Val Val Ser Val Leu
290 295 300

Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys
305 310 315 320

Val Ser Asn Lys Gly Leu Pro Ser Ser Ile Glu Lys Thr Ile Ser Lys
325 330 335

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

Gln Glu Glu Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys
355 360 365

Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln
370 375 380

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

Ser Phe Phe Leu Tyr Ser Arg Leu Thr Val Asp Lys Ser Arg Trp Gln
405 410 415

Glu Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn
420 425 430

His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Leu Gly Gly Gly Gly Gly
435 440 445

Ser Gly Gly Gly Gly Ser Tyr Val Leu Thr Gln Pro Pro Ser Val Ser
450 455 460

Val Thr Pro Gly Glu Thr Ala Arg Ile Ala Cys Gly Gly Asn Asn Leu
465 470 475 480

Glu Ser Lys Ile Val Ser Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro
485 490 495

Val Leu Val Ile Phe Tyr Asp Thr Asp Arg Pro Ser Gly Ile Ser Glu
500 505 510

Arg Phe Ser Gly Ser Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser
515 520 525

Arg Val Glu Ala Gly Asp Glu Ala Asp Tyr Tyr Cys Gln Val Trp Asp
530 535 540

Ser Asn Ser Asp His Val Val Phe Gly Gly Gly Thr Lys Leu Thr Val
545 550 555 560

Leu Gly Ser Thr Ser Gly Ser Gly Lys Pro Gly Ser Gly Glu Gly Ser
565 570 575

Thr Lys Gly Glu Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln
580 585 590

Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe
595 600 605

Asp Asp Tyr Thr Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
610 615 620

Glu Trp Val Ser Leu Ile Ser Trp Asp Gly Gly Ser Thr Tyr Tyr Ala
625 630 635 640

Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn
645 650 655

Ser Leu Tyr Leu Gln Met Asn Ser Leu Arg Thr Glu Asp Thr Ala Leu
660 665 670

Tyr Tyr Cys Ala Ser Ile Tyr Asp Pro Pro Pro Gly Ser Arg Ser Ala
675 680 685

Leu Asp Ala Phe Asp Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser
690 695 700

Ser Ala
705

<210> 24
<211> 706
<212> PRT
<213> Artificial Sequence

<220>
<223> Anti-PD-L1-OX40 Ab-V7

<400> 24

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

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

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

Gly Gly Ile Ile Pro Val Phe Gly Ala Ala Lys Tyr Ala Gln Lys Phe
50 55 60

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

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

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

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

Leu Ala Pro Cys Ser Arg Ser Thr Ser Glu Ser Thr Ala Ala Leu Gly
130 135 140

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

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

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

Ser Leu Gly Thr Lys Thr Tyr Thr Cys Asn Val Asp His Lys Pro Ser
195 200 205

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

Pro Pro Cys Pro Ala Pro Glu Phe Leu Gly Gly Pro Ser Val Phe Leu
225 230 235 240

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

Val Thr Cys Val Val Val Asp Val Ser Gln Glu Asp Pro Glu Val Gln
260 265 270

```
Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys
        275                 280                 285

Pro Arg Glu Glu Gln Phe Asn Ser Thr Tyr Arg Val Val Ser Val Leu
    290                 295                 300

Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys
305                 310                 315                 320

Val Ser Asn Lys Gly Leu Pro Ser Ser Ile Glu Lys Thr Ile Ser Lys
                325                 330                 335

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

Gln Glu Glu Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys
        355                 360                 365

Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln
    370                 375                 380

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

Ser Phe Phe Leu Tyr Ser Arg Leu Thr Val Asp Lys Ser Arg Trp Gln
                405                 410                 415
```

Glu Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn
420 425 430

His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Leu Gly Gly Gly Gly Gly
435 440 445

Ser Gly Gly Gly Gly Ser Tyr Val Leu Thr Gln Pro Pro Ser Val Ser
450 455 460

Val Thr Pro Gly Gln Thr Ala Arg Ile Ala Cys Gly Gly Asn Asn Leu
465 470 475 480

Glu Ser Lys Ile Val Ser Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro
485 490 495

Val Leu Val Ile Phe Tyr Asp Thr Asp Arg Pro Ser Gly Ile Ser Glu
500 505 510

Arg Phe Ser Gly Ser Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser
515 520 525

Arg Val Glu Ala Gly Asp Glu Ala Asp Tyr Tyr Cys Gln Val Trp Asp
530 535 540

Ser Asn Ser Asp His Val Val Phe Gly Gly Gly Thr Lys Leu Thr Val
545 550 555 560

Leu Gly Ser Thr Ser Gly Ser Gly Lys Pro Gly Ser Gly Glu Gly Ser
565 570 575

Thr Lys Gly Glu Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln
580 585 590

Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe
595 600 605

Asp Asp Tyr Thr Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
610 615 620

Glu Trp Val Ser Leu Ile Ser Trp Asp Gly Gly Ser Thr Tyr Tyr Ala
625 630 635 640

Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn
645 650 655

Ser Leu Tyr Leu Gln Met Asn Ser Leu Arg Thr Glu Asp Thr Ala Leu
660 665 670

Tyr Tyr Cys Ala Ser Ile Tyr Asp Pro Pro Pro Gly Ser Arg Ser Ala
675 680 685

Leu Asp Ala Phe Asp Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser
690 695 700

Ser Ala
705

<210> 25
<211> 706
<212> PRT
<213> Artificial Sequence

<220>
<223> Anti-PD-L1-OX40 Ab-V8

<400> 25

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

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

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

Gly Gly Ile Ile Pro Val Phe Gly Ala Ala Lys Tyr Ala Gln Lys Phe
50 55 60

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

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

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

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

Leu Ala Pro Cys Ser Arg Ser Thr Ser Glu Ser Thr Ala Ala Leu Gly
130 135 140

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

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

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

Ser Leu Gly Thr Lys Thr Tyr Thr Cys Asn Val Asp His Lys Pro Ser
195 200 205

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

Pro Pro Cys Pro Ala Pro Glu Phe Leu Gly Gly Pro Ser Val Phe Leu
225 230 235 240

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

Val Thr Cys Val Val Val Asp Val Ser Gln Glu Asp Pro Glu Val Gln
260 265 270

```
Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys
        275                 280                 285

Pro Arg Glu Glu Gln Phe Asn Ser Thr Tyr Arg Val Val Ser Val Leu
    290                 295                 300

Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys
305                 310                 315                 320

Val Ser Asn Lys Gly Leu Pro Ser Ser Ile Glu Lys Thr Ile Ser Lys
                325                 330                 335

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

Gln Glu Glu Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys
        355                 360                 365

Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln
    370                 375                 380

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

Ser Phe Phe Leu Tyr Ser Arg Leu Thr Val Asp Lys Ser Arg Trp Gln
                405                 410                 415
```

Glu Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn
420 425 430

His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Leu Gly Gly Gly Gly Gly
435 440 445

Ser Gly Gly Gly Gly Ser Tyr Val Leu Thr Gln Pro Pro Ser Val Ser
450 455 460

Val Ala Pro Gly Lys Thr Ala Arg Ile Thr Cys Gly Gly Asn Asn Leu
465 470 475 480

Glu Ser Lys Ile Val Ser Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro
485 490 495

Val Leu Val Ile Phe Tyr Asp Thr Asp Arg Pro Ser Gly Ile Pro Glu
500 505 510

Arg Phe Ser Gly Ser Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser
515 520 525

Arg Val Glu Ala Gly Asp Glu Ala Asp Tyr Tyr Cys Gln Val Trp Asp
530 535 540

Ser Asn Ser Asp His Val Ile Phe Gly Gly Gly Thr Lys Leu Thr Val
545 550 555 560

Leu Gly Ser Thr Ser Gly Ser Gly Lys Pro Gly Ser Gly Glu Gly Ser
565 570 575

```
Thr Lys Gly Glu Val Gln Leu Val Glu Ser Gly Gly Ile Val Val Gln
            580                 585                 590

Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe
        595                 600                 605

Asp Asp Tyr Thr Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
    610                 615                 620

Glu Trp Val Ser Leu Ile Ser Trp Asp Gly Gly Ser Thr Tyr Tyr Ala
625                 630                 635                 640

Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn
                645                 650                 655

Ser Leu Tyr Leu Gln Met Asn Ser Leu Arg Thr Glu Asp Thr Ala Leu
            660                 665                 670

Tyr Tyr Cys Ala Ser Ile Tyr Asp Pro Pro Pro Gly Ser Arg Ser Ala
        675                 680                 685

Leu Asp Ala Phe Asp Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser
    690                 695                 700

Ser Ala
705
```

<210> 26
<211> 706
<212> PRT
<213> Artificial Sequence

<220>
<223> Anti-PD-L1-OX40 Ab-V9

<400> 26

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

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

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

Gly Gly Ile Ile Pro Val Phe Gly Ala Ala Lys Tyr Ala Gln Lys Phe
50 55 60

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

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

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

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

Leu Ala Pro Cys Ser Arg Ser Thr Ser Glu Ser Thr Ala Ala Leu Gly
130 135 140

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

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

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

Ser Leu Gly Thr Lys Thr Tyr Thr Cys Asn Val Asp His Lys Pro Ser
195 200 205

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

Pro Pro Cys Pro Ala Pro Glu Phe Leu Gly Gly Pro Ser Val Phe Leu
225 230 235 240

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

Val Thr Cys Val Val Val Asp Val Ser Gln Glu Asp Pro Glu Val Gln
260 265 270

```
Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys
        275                 280                 285

Pro Arg Glu Glu Gln Phe Asn Ser Thr Tyr Arg Val Val Ser Val Leu
    290                 295                 300

Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys
305                 310                 315                 320

Val Ser Asn Lys Gly Leu Pro Ser Ser Ile Glu Lys Thr Ile Ser Lys
                325                 330                 335

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

Gln Glu Glu Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys
        355                 360                 365

Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln
    370                 375                 380

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

Ser Phe Phe Leu Tyr Ser Arg Leu Thr Val Asp Lys Ser Arg Trp Gln
                405                 410                 415
```

Glu Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn
420 425 430

His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Leu Gly Gly Gly Gly Gly
435 440 445

Ser Gly Gly Gly Gly Ser Tyr Val Leu Thr Gln Pro Pro Ser Val Ser
450 455 460

Val Ala Pro Gly Lys Thr Ala Arg Ile Thr Cys Gly Gly Asn Asn Leu
465 470 475 480

Glu Ser Lys Ile Val Ser Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro
485 490 495

Val Leu Val Ile Phe Tyr Asp Thr Asp Arg Pro Ser Gly Ile Pro Glu
500 505 510

Arg Phe Ser Gly Ser Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser
515 520 525

Arg Val Glu Ala Gly Asp Glu Ala Asp Tyr Tyr Cys Gln Val Trp Asp
530 535 540

Ser Asn Ser Asp His Val Val Phe Gly Gly Gly Thr Lys Leu Thr Val
545 550 555 560

Leu Gly Ser Thr Ser Gly Ser Gly Lys Pro Gly Ser Gly Glu Gly Ser
565 570 575

Thr Lys Gly Glu Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln
580 585 590

Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe
595 600 605

Asp Asp Tyr Thr Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
610 615 620

Glu Trp Val Ser Leu Ile Ser Trp Asp Gly Gly Ser Thr Tyr Tyr Ala
625 630 635 640

Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn
645 650 655

Ser Leu Tyr Leu Gln Met Asn Ser Leu Arg Thr Glu Asp Thr Ala Leu
660 665 670

Tyr Tyr Cys Ala Ser Ile Tyr Asp Pro Pro Pro Gly Ser Arg Ser Ala
675 680 685

Leu Asp Ala Phe Asp Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser
690 695 700

Ser Ala
705

<210> 27
<211> 706
<212> PRT
<213> Artificial Sequence

<220>
<223> Anti-PD-L1-OX40 Ab-V10

<400> 27

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

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

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

Gly Gly Ile Ile Pro Val Phe Gly Ala Ala Lys Tyr Ala Gln Lys Phe
50 55 60

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

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

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

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

Leu Ala Pro Cys Ser Arg Ser Thr Ser Glu Ser Thr Ala Ala Leu Gly
130 135 140

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

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

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

Ser Leu Gly Thr Lys Thr Tyr Thr Cys Asn Val Asp His Lys Pro Ser
195 200 205

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

Pro Pro Cys Pro Ala Pro Glu Phe Leu Gly Gly Pro Ser Val Phe Leu
225 230 235 240

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

Val Thr Cys Val Val Val Asp Val Ser Gln Glu Asp Pro Glu Val Gln
260 265 270

```
Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys
        275                 280                 285

Pro Arg Glu Glu Gln Phe Asn Ser Thr Tyr Arg Val Val Ser Val Leu
    290                 295                 300

Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys
305                 310                 315                 320

Val Ser Asn Lys Gly Leu Pro Ser Ser Ile Glu Lys Thr Ile Ser Lys
                325                 330                 335

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

Gln Glu Glu Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys
        355                 360                 365

Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln
    370                 375                 380

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

Ser Phe Phe Leu Tyr Ser Arg Leu Thr Val Asp Lys Ser Arg Trp Gln
                405                 410                 415
```

Glu Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn
420 425 430

His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Leu Gly Gly Gly Gly Gly
435 440 445

Ser Gly Gly Gly Gly Ser Tyr Val Leu Thr Gln Pro Pro Ser Val Ser
450 455 460

Val Ala Pro Gly Gln Thr Ala Arg Ile Thr Cys Gly Gly Asn Asn Leu
465 470 475 480

Glu Ser Lys Ile Val Ser Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro
485 490 495

Val Leu Val Ile Phe Tyr Asp Thr Asp Arg Pro Ser Gly Ile Pro Glu
500 505 510

Arg Phe Ser Gly Ser Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser
515 520 525

Arg Val Glu Ala Gly Asp Glu Ala Asp Tyr Tyr Cys Gln Val Trp Asp
530 535 540

Ser Asn Ser Asp His Val Val Phe Gly Gly Gly Thr Lys Leu Thr Val
545 550 555 560

Leu Gly Ser Thr Ser Gly Ser Gly Lys Pro Gly Ser Gly Glu Gly Ser
565 570 575

Thr Lys Gly Glu Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln
580 585 590

Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe
595 600 605

Asp Asp Tyr Thr Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
610 615 620

Glu Trp Val Ser Leu Ile Ser Trp Asp Gly Gly Ser Thr Tyr Tyr Ala
625 630 635 640

Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn
645 650 655

Ser Leu Tyr Leu Gln Met Asn Ser Leu Arg Thr Glu Asp Thr Ala Leu
660 665 670

Tyr Tyr Cys Ala Ser Ile Tyr Asp Pro Pro Pro Gly Ser Arg Ser Ala
675 680 685

Leu Asp Ala Phe Asp Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser
690 695 700

Ser Ala
705

<210> 28
<211> 706
<212> PRT
<213> Artificial Sequence

<220>
<223> Anti-PD-L1-OX40 Ab-V11

<400> 28

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

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

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

Gly Gly Ile Ile Pro Val Phe Gly Ala Ala Lys Tyr Ala Gln Lys Phe
50 55 60

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

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

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

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

Leu Ala Pro Cys Ser Arg Ser Thr Ser Glu Ser Thr Ala Ala Leu Gly
130 135 140

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

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

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

Ser Leu Gly Thr Lys Thr Tyr Thr Cys Asn Val Asp His Lys Pro Ser
195 200 205

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

Pro Pro Cys Pro Ala Pro Glu Phe Leu Gly Gly Pro Ser Val Phe Leu
225 230 235 240

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

Val Thr Cys Val Val Val Asp Val Ser Gln Glu Asp Pro Glu Val Gln
260 265 270

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

Pro Arg Glu Glu Gln Phe Asn Ser Thr Tyr Arg Val Val Ser Val Leu
290 295 300

Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys
305 310 315 320

Val Ser Asn Lys Gly Leu Pro Ser Ser Ile Glu Lys Thr Ile Ser Lys
325 330 335

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

Gln Glu Glu Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys
355 360 365

Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln
370 375 380

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

Ser Phe Phe Leu Tyr Ser Arg Leu Thr Val Asp Lys Ser Arg Trp Gln
405 410 415

Glu Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn
420 425 430

His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Leu Gly Gly Gly Gly Gly
435 440 445

Ser Gly Gly Gly Gly Ser Tyr Val Leu Thr Gln Pro Pro Ser Val Ser
450 455 460

Val Thr Pro Gly Glu Thr Ala Arg Ile Ala Cys Gly Gly Asn Asn Leu
465 470 475 480

Glu Ser Lys Ile Val Ser Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro
485 490 495

Val Leu Val Ile Phe Tyr Asp Thr Asp Arg Pro Ser Gly Ile Ser Glu
500 505 510

Arg Phe Ser Gly Ser Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser
515 520 525

Arg Val Glu Ala Gly Asp Glu Ala Asp Tyr Tyr Cys Gln Val Trp Asp
530 535 540

Ser Asn Ser Asp His Val Ile Phe Gly Gly Gly Thr Lys Leu Thr Val
545 550 555 560

Leu Gly Ser Thr Ser Gly Ser Gly Lys Pro Gly Ser Gly Glu Gly Ser
565 570 575

Thr Lys Gly Glu Val Gln Leu Val Glu Ser Gly Gly Val Val Val Gln
580 585 590

Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe
595 600 605

Asp Asp Tyr Thr Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
610 615 620

Glu Trp Val Ser Leu Ile Ser Trp Asp Gly Gly Ser Thr Tyr Tyr Ala
625 630 635 640

Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn
645 650 655

Ser Leu Tyr Leu Gln Met Asn Ser Leu Arg Thr Glu Asp Thr Ala Leu
660 665 670

Tyr Tyr Cys Ala Ser Ile Tyr Asp Pro Pro Pro Gly Ser Arg Ser Ala
675 680 685

Leu Asp Ala Phe Asp Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser
690 695 700

Ser Ala
705

<210> 29
<211> 706
<212> PRT
<213> Artificial Sequence

<220>
<223> Anti-PD-L1-OX40 Ab-V12

<400> 29

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

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

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

Gly Gly Ile Ile Pro Val Phe Gly Ala Ala Lys Tyr Ala Gln Lys Phe
50 55 60

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

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

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

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

Leu Ala Pro Cys Ser Arg Ser Thr Ser Glu Ser Thr Ala Ala Leu Gly
130 135 140

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

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

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

Ser Leu Gly Thr Lys Thr Tyr Thr Cys Asn Val Asp His Lys Pro Ser
195 200 205

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

Pro Pro Cys Pro Ala Pro Glu Phe Leu Gly Gly Pro Ser Val Phe Leu
225 230 235 240

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

Val Thr Cys Val Val Val Asp Val Ser Gln Glu Asp Pro Glu Val Gln
260 265 270

```
Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys
        275                 280                 285

Pro Arg Glu Glu Gln Phe Asn Ser Thr Tyr Arg Val Val Ser Val Leu
    290                 295                 300

Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys
305                 310                 315                 320

Val Ser Asn Lys Gly Leu Pro Ser Ser Ile Glu Lys Thr Ile Ser Lys
                325                 330                 335

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

Gln Glu Glu Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys
        355                 360                 365

Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln
    370                 375                 380

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

Ser Phe Phe Leu Tyr Ser Arg Leu Thr Val Asp Lys Ser Arg Trp Gln
                405                 410                 415
```

Glu Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn
420 425 430

His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Leu Gly Gly Gly Gly Gly
435 440 445

Ser Gly Gly Gly Gly Ser Tyr Val Leu Thr Gln Pro Pro Ser Val Ser
450 455 460

Val Thr Pro Gly Gln Thr Ala Arg Ile Ala Cys Gly Gly Asn Asn Leu
465 470 475 480

Glu Ser Lys Ile Val Ser Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro
485 490 495

Val Leu Val Ile Phe Tyr Asp Thr Asp Arg Pro Ser Gly Ile Ser Glu
500 505 510

Arg Phe Ser Gly Ser Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser
515 520 525

Arg Val Glu Ala Gly Asp Glu Ala Asp Tyr Tyr Cys Gln Val Trp Asp
530 535 540

Ser Asn Ser Asp His Val Ile Phe Gly Gly Gly Thr Lys Leu Thr Val
545 550 555 560

Leu Gly Ser Thr Ser Gly Ser Gly Lys Pro Gly Ser Gly Glu Gly Ser
565 570 575

Thr Lys Gly Glu Val Gln Leu Val Glu Ser Gly Gly Val Val Val Gln
580 585 590

Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe
595 600 605

Asp Asp Tyr Thr Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
610 615 620

Glu Trp Val Ser Leu Ile Ser Trp Asp Gly Gly Ser Thr Tyr Tyr Ala
625 630 635 640

Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn
645 650 655

Ser Leu Tyr Leu Gln Met Asn Ser Leu Arg Thr Glu Asp Thr Ala Leu
660 665 670

Tyr Tyr Cys Ala Ser Ile Tyr Asp Pro Pro Pro Gly Ser Arg Ser Ala
675 680 685

Leu Asp Ala Phe Asp Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser
690 695 700

Ser Ala
705

<210> 30
<211> 176
<212> PRT
<213> Artificial Sequence

<220>
<223> Anti-PD-L1-OX40 Ab-V4

<400> 30

Leu Ser Leu Gly Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Tyr Val
1 5 10 15

Leu Thr Gln Pro Pro Ser Val Ser Val Thr Pro Gly Lys Thr Ala Arg
20 25 30

Ile Ala Cys Gly Gly Asn Asn Leu Glu Ser Lys Ile Val Ser Trp Tyr
35 40 45

Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Ile Phe Tyr Asp Thr
50 55 60

Asp Arg Pro Ser Gly Ile Ser Glu Arg Phe Ser Gly Ser Asn Ser Gly
65 70 75 80

Asn Thr Ala Thr Leu Thr Ile Ser Arg Val Glu Ala Gly Asp Glu Ala
85 90 95

Asp Tyr Tyr Cys Gln Val Trp Asp Ser Asn Ser Asp His Val Ile Phe
100 105 110

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

Lys Pro Gly Ser Gly Glu Gly Ser Thr Lys Gly Glu Val Gln Leu Val
130 135 140

Glu Ser Gly Gly Val Val Val Gln Pro Gly Gly Ser Leu Arg Leu Ser
145 150 155 160

Cys Ala Ala Ser Gly Phe Thr Phe Asp Asp Tyr Thr Met His Trp Val
165 170 175

<210> 31
<211> 176
<212> PRT
<213> Artificial Sequence

<220>
<223> Anti-PD-L1-OX40 Ab-V5

<400> 31

Leu Ser Leu Gly Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Tyr Glu
1 5 10 15

Leu Thr Gln Pro Pro Ser Val Ser Val Thr Pro Gly Gln Thr Ala Arg
20 25 30

Ile Ala Cys Gly Gly Asn Asn Leu Glu Ser Lys Ile Val Ser Trp Tyr
35 40 45

Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Ile Phe Tyr Asp Thr
50 55 60

Asp Arg Pro Ser Gly Ile Ser Glu Arg Phe Ser Gly Ser Asn Ser Gly
65 70 75 80

Asn Thr Ala Thr Leu Thr Ile Ser Arg Val Glu Ala Gly Asp Glu Ala
85 90 95

Asp Tyr Tyr Cys Gln Val Trp Asp Ser Asn Ser Asp His Val Ile Phe
100 105 110

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

Lys Pro Gly Ser Gly Glu Gly Ser Thr Lys Gly Glu Val Gln Leu Val
130 135 140

Glu Ser Gly Gly Val Val Val Gln Pro Gly Gly Ser Leu Arg Leu Ser
145 150 155 160

Cys Ala Ala Ser Gly Phe Thr Phe Asp Asp Tyr Thr Met His Trp Val
165 170 175

<210> 32
<211> 176
<212> PRT
<213> Artificial Sequence

<220>

<223> Anti-PD-L1-OX40 Ab-V6

<400> 32

```
Leu Ser Leu Gly Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Tyr Val
1               5                  10                  15

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

Ile Ala Cys Gly Gly Asn Asn Leu Glu Ser Lys Ile Val Ser Trp Tyr
        35                  40                  45

Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Ile Phe Tyr Asp Thr
    50                  55                  60

Asp Arg Pro Ser Gly Ile Ser Glu Arg Phe Ser Gly Ser Asn Ser Gly
65                  70                  75                  80

Asn Thr Ala Thr Leu Thr Ile Ser Arg Val Glu Ala Gly Asp Glu Ala
                85                  90                  95

Asp Tyr Tyr Cys Gln Val Trp Asp Ser Asn Ser Asp His Val Val Phe
            100                 105                 110

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

Lys Pro Gly Ser Gly Glu Gly Ser Thr Lys Gly Glu Val Gln Leu Val
    130                 135                 140
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Glu Ser Gly Gly Gly Val Val Gln Pro Gly Gly Ser Leu Arg Leu Ser
145 150 155 160

Cys Ala Ala Ser Gly Phe Thr Phe Asp Asp Tyr Thr Met His Trp Val
165 170 175

<210> 33
<211> 176
<212> PRT
<213> Artificial Sequence

<220>
<223> Anti-PD-L1-OX40 Ab-V7

<400> 33

Leu Ser Leu Gly Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Tyr Val
1 5 10 15

Leu Thr Gln Pro Pro Ser Val Ser Val Thr Pro Gly Gln Thr Ala Arg
20 25 30

Ile Ala Cys Gly Gly Asn Asn Leu Glu Ser Lys Ile Val Ser Trp Tyr
35 40 45

Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Ile Phe Tyr Asp Thr
50 55 60

Asp Arg Pro Ser Gly Ile Ser Glu Arg Phe Ser Gly Ser Asn Ser Gly
65 70 75 80

Asn Thr Ala Thr Leu Thr Ile Ser Arg Val Glu Ala Gly Asp Glu Ala
85 90 95

Asp Tyr Tyr Cys Gln Val Trp Asp Ser Asn Ser Asp His Val Val Phe
100 105 110

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

Lys Pro Gly Ser Gly Glu Gly Ser Thr Lys Gly Glu Val Gln Leu Val
130 135 140

Glu Ser Gly Gly Gly Val Val Gln Pro Gly Gly Ser Leu Arg Leu Ser
145 150 155 160

Cys Ala Ala Ser Gly Phe Thr Phe Asp Asp Tyr Thr Met His Trp Val
165 170 175

<210> 34
<211> 176
<212> PRT
<213> Artificial Sequence

<220>
<223> Anti-PD-L1-OX40 Ab-V8

<400> 34

Leu Ser Leu Gly Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Tyr Val
1 5 10 15

Leu Thr Gln Pro Pro Ser Val Ser Val Ala Pro Gly Lys Thr Ala Arg
20 25 30

Ile Thr Cys Gly Gly Asn Asn Leu Glu Ser Lys Ile Val Ser Trp Tyr
35 40 45

Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Ile Phe Tyr Asp Thr
50 55 60

Asp Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser Asn Ser Gly
65 70 75 80

Asn Thr Ala Thr Leu Thr Ile Ser Arg Val Glu Ala Gly Asp Glu Ala
85 90 95

Asp Tyr Tyr Cys Gln Val Trp Asp Ser Asn Ser Asp His Val Ile Phe
100 105 110

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

Lys Pro Gly Ser Gly Glu Gly Ser Thr Lys Gly Glu Val Gln Leu Val
130 135 140

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

Cys Ala Ala Ser Gly Phe Thr Phe Asp Asp Tyr Thr Met His Trp Val
165 170 175

<210> 35
<211> 176
<212> PRT
<213> Artificial Sequence

<220>
<223> Anti-PD-L1-OX40 Ab-V9

<400> 35

Leu Ser Leu Gly Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Tyr Val
1 5 10 15

Leu Thr Gln Pro Pro Ser Val Ser Val Ala Pro Gly Lys Thr Ala Arg
20 25 30

Ile Thr Cys Gly Gly Asn Asn Leu Glu Ser Lys Ile Val Ser Trp Tyr
35 40 45

Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Ile Phe Tyr Asp Thr
50 55 60

Asp Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser Asn Ser Gly
65 70 75 80

Asn Thr Ala Thr Leu Thr Ile Ser Arg Val Glu Ala Gly Asp Glu Ala
85 90 95

Asp Tyr Tyr Cys Gln Val Trp Asp Ser Asn Ser Asp His Val Val Phe
100 105 110

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

Lys Pro Gly Ser Gly Glu Gly Ser Thr Lys Gly Glu Val Gln Leu Val
130 135 140

Glu Ser Gly Gly Gly Val Val Gln Pro Gly Gly Ser Leu Arg Leu Ser
145 150 155 160

Cys Ala Ala Ser Gly Phe Thr Phe Asp Asp Tyr Thr Met His Trp Val
165 170 175

<210> 36
<211> 176
<212> PRT
<213> Artificial Sequence

<220>
<223> Anti-PD-L1-OX40 Ab-V10

<400> 36

Leu Ser Leu Gly Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Tyr Val
1 5 10 15

Leu Thr Gln Pro Pro Ser Val Ser Val Ala Pro Gly Gln Thr Ala Arg
20 25 30

Ile Thr Cys Gly Gly Asn Asn Leu Glu Ser Lys Ile Val Ser Trp Tyr
35 40 45

Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Ile Phe Tyr Asp Thr
50 55 60

Asp Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser Asn Ser Gly
65 70 75 80

Asn Thr Ala Thr Leu Thr Ile Ser Arg Val Glu Ala Gly Asp Glu Ala
85 90 95

Asp Tyr Tyr Cys Gln Val Trp Asp Ser Asn Ser Asp His Val Val Phe
100 105 110

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

Lys Pro Gly Ser Gly Glu Gly Ser Thr Lys Gly Glu Val Gln Leu Val
130 135 140

Glu Ser Gly Gly Gly Val Val Gln Pro Gly Gly Ser Leu Arg Leu Ser
145 150 155 160

Cys Ala Ala Ser Gly Phe Thr Phe Asp Asp Tyr Thr Met His Trp Val
165 170 175

<210> 37
<211> 176

<212> PRT
<213> Artificial Sequence

<220>
<223> Anti-PD-L1-OX40 Ab-V11

<400> 37

Leu Ser Leu Gly Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Tyr Val
1 5 10 15

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

Ile Ala Cys Gly Gly Asn Asn Leu Glu Ser Lys Ile Val Ser Trp Tyr
35 40 45

Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Ile Phe Tyr Asp Thr
50 55 60

Asp Arg Pro Ser Gly Ile Ser Glu Arg Phe Ser Gly Ser Asn Ser Gly
65 70 75 80

Asn Thr Ala Thr Leu Thr Ile Ser Arg Val Glu Ala Gly Asp Glu Ala
85 90 95

Asp Tyr Tyr Cys Gln Val Trp Asp Ser Asn Ser Asp His Val Ile Phe
100 105 110

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

Lys Pro Gly Ser Gly Glu Gly Ser Thr Lys Gly Glu Val Gln Leu Val
130 135 140

Glu Ser Gly Gly Val Val Val Gln Pro Gly Gly Ser Leu Arg Leu Ser
145 150 155 160

Cys Ala Ala Ser Gly Phe Thr Phe Asp Asp Tyr Thr Met His Trp Val
165 170 175

<210> 38
<211> 176
<212> PRT
<213> Artificial Sequence

<220>
<223> Anti-PD-L1-OX40 Ab-V12

<400> 38

Leu Ser Leu Gly Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Tyr Val
1 5 10 15

Leu Thr Gln Pro Pro Ser Val Ser Val Thr Pro Gly Gln Thr Ala Arg
20 25 30

Ile Ala Cys Gly Gly Asn Asn Leu Glu Ser Lys Ile Val Ser Trp Tyr
35 40 45

Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Ile Phe Tyr Asp Thr
50 55 60

Asp Arg Pro Ser Gly Ile Ser Glu Arg Phe Ser Gly Ser Asn Ser Gly
65 70 75 80

Asn Thr Ala Thr Leu Thr Ile Ser Arg Val Glu Ala Gly Asp Glu Ala
85 90 95

Asp Tyr Tyr Cys Gln Val Trp Asp Ser Asn Ser Asp His Val Ile Phe
100 105 110

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

Lys Pro Gly Ser Gly Glu Gly Ser Thr Lys Gly Glu Val Gln Leu Val
130 135 140

Glu Ser Gly Gly Val Val Val Gln Pro Gly Gly Ser Leu Arg Leu Ser
145 150 155 160

Cys Ala Ala Ser Gly Phe Thr Phe Asp Asp Tyr Thr Met His Trp Val
165 170 175

<210> 39
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> linker

<400> 39

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
1 5 10 15

<210> 40
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> linker

<400> 40

Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Gly Gly Ser Ser Arg
1 5 10 15

Ser Ser Leu

<210> 41
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> linker

<400> 41

Gly Gly Lys Gly Ser Gly Gly Lys Gly Thr Gly Gly Lys Gly Ser Gly
1 5 10 15

Gly Lys Gly Ser
20

<210> 42
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> linker

<400> 42

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

<210> 43
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<223> linker

<400> 43

Gly Ser Thr Ser Gly Ser Gly Lys Pro Gly Ser Gly Glu Gly Ser Thr
1 5 10 15

Lys Gly