SEQUENCE LISTING

<110> MacroGenics, Inc.
Johnson, Leslie S. S
Huang, Ling

<120> BCR-Complex-Specific Antibodies And Methods of Using Same

<130> 1301.0020I

<150> US 61/041,659
<151> 2008-04-02

<160> 38

<170> PatentIn version 3.4

<210> 1
<211> 339
<212> DNA
<213> Mus musculus

<400> 1

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cctggacaag gccttgaatg gattggtatg gttgatcctt cagacagtga aactcactac 180
aatcaaatgt tcaaggacaa ggccacattg actgttgaca aatcctccag cacagcctac 240
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<210> 2
<211> 113
<212> PRT
<213> Mus musculus

<400> 2

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

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

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

Gly Met Val Asp Pro Ser Asp Ser Glu Thr His Tyr Asn Gln Met Phe
50 55 60

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

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

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

Ser

<210> 3
<211> 336
<212> DNA
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<400> 3

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atctcttgta agtcaagtca gagcctctta gatactgatg gaaagacata tttgaattgg 120
ttgttacaga ggccaggcca gtctccaaac cgcctaatct atctggtgtc taaactggac 180
tctggagtcc ctgacaggtt cactggcagt ggatcaggga cagatttcac actgaaaatc 240
agcagagtgg aggctgagga tttgggaatt tattattgct ggcaaggtac acattttccg 300
ctcacgttcg gtgctgggac caagctggag ctgaaa 336

<210> 4
<211> 112
<212> PRT
<213> Mus musculus
<400> 4

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

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

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

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

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

Ser Arg Val Glu Ala Glu Asp Leu Gly Ile Tyr Tyr Cys Trp Gln Gly
85 90 95

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

<210> 5
<211> 336
<212> DNA
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<400> 5

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ttgttacaga ggccaggtca gtctccaaag cgcctaatct atctggtgtc taaactggac 180
tctggagtcc ctgacaggtt cactggcagt ggatcaggga cagatttcac actgaaaatc 240
agcagagtgg aggctgagga tttgggagtt tattattgct ggcaaggtac acattttccg 300
ctcacgttcg gtgctgggac caagctggag ctgaaa 336

<210> 6
<211> 112
<212> PRT
<213> Mus musculus
<400> 6

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

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

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

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

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

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

Thr His Phe Pro Leu Thr Phe Gly Ala Gly Thr Lys Leu Glu Leu Lys
            100                 105                 110
```

<210> 7
<211> 339
<212> PRT
<213> Mus musculus
<400> 7

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1               5                  10                  15

Ala Gly Cys Cys Thr Gly Gly Gly Gly Cys Thr Gly Ala Gly Cys Thr
            20                  25                  30

Gly Gly Thr Gly Ala Gly Gly Cys Cys Thr Gly Gly Gly Gly Cys Thr
        35                  40                  45

Thr Cys Ala Gly Thr Gly Ala Ala Gly Cys Thr Gly Thr Cys Cys Thr
    50                  55                  60

Gly Cys Ala Ala Gly Gly Cys Thr Thr Cys Thr Gly Gly Cys Thr Ala
65                  70                  75                  80

Cys Ala Cys Cys Thr Thr Cys Ala Cys Cys Ala Gly Cys Thr Ala Cys
                85                  90                  95

Thr Gly Gly Ala Thr Gly Ala Ala Cys Thr Gly Gly Gly Thr Gly Ala
            100                 105                 110

Ala Gly Cys Ala Gly Ala Gly Gly Cys Cys Thr Gly Gly Ala Cys Ala
        115                 120                 125

Ala Gly Gly Cys Cys Thr Thr Gly Ala Ala Thr Gly Gly Ala Thr Thr
    130                 135                 140

Gly Gly Thr Ala Thr Gly Ala Thr Thr Gly Ala Thr Cys Cys Thr Thr
145                 150                 155                 160

Cys Ala Gly Ala Cys Ala Gly Thr Gly Ala Ala Ala Cys Thr Cys Ala
                165                 170                 175
```

```
Cys Thr Ala Cys Ala Ala Thr Cys Ala Ala Ala Thr Gly Thr Thr Cys
            180                 185                 190

Ala Ala Gly Gly Ala Cys Ala Ala Gly Gly Cys Cys Ala Cys Ala Thr
        195                 200                 205

Thr Gly Ala Cys Thr Gly Thr Ala Gly Ala Cys Ala Ala Ala Thr Cys
    210                 215                 220

Cys Thr Cys Cys Ala Gly Cys Ala Cys Ala Gly Cys Cys Thr Ala Cys
225                 230                 235                 240

Ala Thr Gly Cys Ala Gly Cys Thr Cys Ala Gly Cys Ala Gly Cys Cys
                245                 250                 255

Thr Gly Ala Cys Ala Thr Cys Thr Gly Ala Gly Gly Ala Cys Thr Cys
            260                 265                 270

Thr Gly Cys Gly Gly Thr Cys Thr Ala Thr Thr Ala Cys Thr Gly Thr
        275                 280                 285

Gly Cys Ala Ala Gly Ala Gly Cys Thr Ala Thr Gly Gly Gly Cys Thr
    290                 295                 300

Ala Cys Thr Gly Gly Gly Gly Thr Cys Ala Ala Gly Gly Ala Ala Cys
305                 310                 315                 320

Cys Thr Cys Ala Gly Thr Cys Ala Cys Cys Gly Thr Cys Thr Cys Cys
                325                 330                 335

Thr Cys Ala
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<210> 8
<211> 113
<212> PRT
<213> Mus musculus
<400> 8

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

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

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

Gly Met Ile Asp Pro Ser Asp Ser Glu Thr His Tyr Asn Gln Met Phe
    50                  55                  60

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

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

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

Ser
```

<210> 9
<211> 336
<212> DNA
<213> Artificial
<220>
<223> Humanized version of murine sequence
<400> 9

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atctcctgca agtcaagtca gagcctctta gatagtgatg gaaagacata tttgaattgg    120
tttcagcaga ggccaggcca atctccaagg cgcctaattt atctggtgtc taaactggac    180
tctggggtcc cagacagatt cagcggcagt gggtcaggca ctgatttcac actgaaaatc    240
agcagggtgg aggctgagga tgttggggtt tattactgct ggcaaggtac acattttccg    300
ctcacgttcg gcggagggac caagcttgag atcaaa                              336
```

<210> 10
<211> 112
<212> PRT
<213> Artificial
<220>
<223> Humanized version of murine sequence
<400> 10

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

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

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

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

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

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

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

<210> 11
<211> 336
<212> DNA
<213> Artificial
<220>
<223> Humanized version of murine sequence
<400> 11

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gatgttgtga tgactcagtc tccactctcc ctgcccgtca cccttggaca gccggcctcc     60
atctcctgca agtcaagtca gagcctctta gatagtgatg gaaagacata tttgaattgg    120
```

```
tttctgcaga ggccaggcca atctccaagg cgcctaattt atctggtgtc taaactggac    180
tctggggtcc cagacagatt cagcggcagt gggtcaggca ctgatttcac actgaaaatc    240
agcagggtgg aggctgagga tgttggggtt tattactgct ggcaaggtac acattttccg    300
ctcacgttcg gcggagggac caagcttgag atcaaa                              336
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<210> 12
<211> 112
<212> PRT
<213> Artificial
<220>
<223> Humanized Version of murine sequence
<400> 12

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

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

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

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

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

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

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

<210> 13
<211> 336
<212> DNA
<213> Artificial
<220>
<223> Humanized version of murine sequence
<400> 13

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gatgttgtga tgactcagtc tccactctcc ctgcccgtca cccttggaca gccggcctcc     60
atctcctgca agtcaagtca gagcctctta gatagtgatg gaaagacata tttgaattgg    120
tttcagcaga ggccaggcca atctccaaag cgcctaattt atctggtgtc taaactggac    180
tctggggtcc cagacagatt cagcggcagt gggtcaggca ctgatttcac actgaaaatc    240
agcagggtgg aggctgagga tgttggggtt tattactgct ggcaaggtac acattttccg    300
ctcacgttcg gcggagggac caagcttgag atcaaa                              336
```

<210> 14
<211> 112
<212> PRT
<213> Artificial
<220>
<223> Humanized version of murine sequence
<400> 14

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

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

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

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

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

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

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

<210> 15
<211> 336
<212> DNA
<213> Artificial
<220>
<223> Humanized version of murine sequence
<400> 15

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gatgttgtga tgactcagtc tccactctcc ctgcccgtca cccttggaca gccggcctcc     60
atctcctgca agtcaagtca gagcctctta gatagtgatg gaaagacata tttgaattgg    120
tttcagcaga ggccaggcca atctccaaac cgcctaattt atctggtgtc taaactggac    180
tctggggtcc cagacagatt cagcggcagt gggtcaggca ctgatttcac actgaaaatc    240
agcagggtgg aggctgagga tgttggggtt tattactgct ggcaaggtac acattttccg    300
ctcacgttcg gcggagggac caagcttgag atcaaa                              336
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<210> 16
<211> 112
<212> PRT
<213> Artificial
<220>
<223> Humanized version of murine sequence
<400> 16

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

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

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

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

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

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

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

<210> 17
<211> 336
<212> DNA
<213> Artificial
<220>
<223> Humanized version of murine sequences
<400> 17

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gatgttgtga tgactcagtc tccactctcc ctgcccgtca cccttggaca gccggcctcc     60
atctcctgca agtcaagtca gagcctctta gatagtgatg gaaagacata tttgaattgg    120
tttctgcaga ggccaggcca atctccaaag cgcctaattt atctggtgtc taaactggac    180
tctggggtcc cagacagatt cagcggcagt gggtcaggca ctgatttcac actgaaaatc    240
agcagggtgg aggctgagga tgttggggtt tattactgct ggcaaggtac acattttccg    300
ctcacgttcg gcggagggac caagcttgag atcaaa                              336
```

<210> 18
<211> 112
<212> PRT
<213> Artificial
<220>
<223> Humanized version of murine sequence
<400> 18

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

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

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

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

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

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

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

<210> 19
<211> 336
<212> DNA
<213> Artificial
<220>
<223> Humanized version of murine sequence
<400> 19

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gatgttgtga tgactcagtc tccactctcc ctgcccgtca cccttggaca gccggcctcc     60
atctcctgca agtcaagtca gagcctctta gatagtgatg gaaagacata tttgaattgg    120
tttctgcaga ggccaggcca atctccaaac cgcctaattt atctggtgtc taaactggac    180
tctggggtcc cagacagatt cagcggcagt gggtcaggca ctgatttcac actgaaaatc    240
```

agcagggtgg aggctgagga tgttggggtt tattactgct ggcaaggtac acattttccg 300
ctcacgttcg gcggagggac caagcttgag atcaaa 336

<210> 20
<211> 112
<212> PRT
<213> Artificial
<220>
<223> Humanized version of murine sequence
<400> 20

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

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

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

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

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

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

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

<210> 21
<211> 339
<212> DNA
<213> Artificial
<220>
<223> Humanized version of murine sequence
<400> 21

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tcctgcaagg cttctggtta cacctttacc agctactgga tgaactgggt gcgacaggcc 120
cctggacaag ggcttgagtg gatgggaatg attgatcctt cagacagtga aactcactac 180
aatcaaatgt tcaaggacag agtcaccatg accacagaca catccacgag cacagcctac 240
atggagctga ggagcctgag atctgacgac acggccgtgt attactgtgc gagagctatg 300
ggctactggg ggcaagggac cacggtcacc gtctcctca 339

<210> 22
<211> 113
<212> PRT
<213> Artificial
<220>
<223> Humanized version of murine sequence
<400> 22

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

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

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

Gly Met Ile Asp Pro Ser Asp Ser Glu Thr His Tyr Asn Gln Met Phe
    50                  55                  60

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

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

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

Ser
```

<210> 23
<211> 339
<212> DNA
<213> Artificial
<220>
<223> Humanized version of murine sequence
<400> 23

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caggttcagc tggtgcagtc tggagctgag gtgaagaagc ctggcgcctc agtgaaggtc     60
tcctgcaagg cttctggtta cacctttacc agctactgga tgaactgggt gcgacaggcc    120
cctggacaag ggcttgagtg gatcggaatg attgatcctt cagacagtga aactcactac    180
aatcaaatgt tcaaggacag agtcaccatg accacagaca catccacgag cacagcctac    240
atggagctga ggagcctgag atctgacgac acggccgtgt attactgtgc gagagctatg    300
ggctactggg ggcaagggac cacggtcacc gtctcctca                           339
```

<210> 24
<211> 113
<212> PRT
<213> Artificial
<220>
<223> Humanized version of murine sequence
<400> 24

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

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

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

Gly Met Ile Asp Pro Ser Asp Ser Glu Thr His Tyr Asn Gln Met Phe
    50                  55                  60

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

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

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

Ser
```

<210> 25
<211> 339
<212> DNA
<213> Artificial
<220>
<223> Humanized version of murine sequence
<400> 25

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caggttcagc tggtgcagtc tggagctgag gtgaagaagc ctggcgcctc agtgaaggtc     60
tcctgcaagg cttctggtta cacctttacc agctactgga tgaactgggt gcgacaggcc    120
cctggacaag ggcttgagtg gatgggaatg attgatcctt cagacagtga aactcactac    180
aatcaaatgt tcaaggacaa agccaccctg accgtagaca catccacgag cacagcctac    240
atggagctga ggagcctgag atctgacgac acggccgtgt attactgtgc gagagctatg    300
ggctactggg ggcaagggac cacggtcacc gtctcctca                           339
```

<210> 26
<211> 113
<212> PRT
<213> Artificial
<220>
<223> Humanized version of murine sequence
<400> 26

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

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

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

Gly Met Ile Asp Pro Ser Asp Ser Glu Thr His Tyr Asn Gln Met Phe
    50                  55                  60

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

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

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

Ser
```

<210> 27
<211> 339
<212> DNA
<213> Artificial
<220>
<223> Humanized version of murine sequence
<400> 27

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caggttcagc tggtgcagtc tggagctgag gtgaagaagc ctggcgcctc agtgaaggtc     60
tcctgcaagg cttctggtta cacctttacc agctactgga tgaactgggt gcgacaggcc    120
cctggacaag ggcttgagtg gatgggaatg attgatcctt cagacagtga aactcactac    180
aatcaaatgt tcaaggacag agtcaccatg accgtagaca catccacgag cacagcctac    240
atggagctga ggagcctgag atctgacgac acggccgtgt attactgtgc gagagctatg    300
ggctactggg ggcaagggac cacggtcacc gtctcctca                           339
```

<210> 28
<211> 113
<212> PRT
<213> Artificial
<220>
<223> Humanized version of murine sequence
<400> 28

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

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

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

Gly Met Ile Asp Pro Ser Asp Ser Glu Thr His Tyr Asn Gln Met Phe
    50                  55                  60

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

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

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

Ser
```

<210> 29
<211> 339
<212> DNA
<213> Artificial
<220>
<223> Humanized version of murine sequence
<400> 29

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caggttcagc tggtgcagtc tggagctgag gtgaagaagc ctggcgcctc agtgaaggtc     60
tcctgcaagg cttctggtta cacctttacc agctactgga tgaactgggt gcgacaggcc    120
cctggacaag ggcttgagtg gatgggaatg attgatcctt cagacagtga aactcactac    180
aatcaaatgt tcaaggacag agtcaccatg accgtagaca aatccacgag cacagcctac    240
atggagctga ggagcctgag atctgacgac acggccgtgt attactgtgc gagagctatg    300
ggctactggg ggcaagggac cacggtcacc gtctcctca                           339
```

<210> 30
<211> 113
<212> PRT
<213> Artificial
<220>

<223> Humanized version of murine sequence
<400> 30

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

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

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

Gly Met Ile Asp Pro Ser Asp Ser Glu Thr His Tyr Asn Gln Met Phe
    50                  55                  60

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

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

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

Ser
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<210> 31
<211> 339
<212> DNA
<213> Artificial
<220>
<223> Humanized version of murine sequence
<400> 31

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tcctgcaagg cttctggtta cacctttacc agctactgga tgaactgggt gcgacaggcc    120
cctggacaag ggcttgagtg gatgggaatg attgatcctt cagacagtga aactcactac    180
aatcaaaagt tcaaggacag agtcaccatg accacagaca catccacgag cacagcctac    240
atggagctga ggagcctgag atctgacgac acggccgtgt attactgtgc gagagctatg    300
ggctactggg ggcaagggac cacggtcacc gtctcctca                           339
```

<210> 32
<211> 113
<212> PRT
<213> Artificial
<220>
<223> Humanized version of murine sequence
<400> 32

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

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

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

```
Gly Met Ile Asp Pro Ser Asp Ser Glu Thr His Tyr Asn Gln Lys Phe
    50                  55                  60

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

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

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

Ser
```

<210> 33
<211> 339
<212> DNA
<213> Artificial
<220>
<223> Humanized version of murine sequence
<400> 33

```
caggttcagc tggtgcagtc tggagctgag gtgaagaagc ctggcgcctc agtgaaggtc     60
tcctgcaagg cttctggtta cacctttacc agctactgga tgaactgggt gcgacaggcc    120
cctggacaag ggcttgagtg gatcggaatg attgatcctt cagacagtga aactcactac    180
aatcaaaagt tcaaggacag agtcaccatg accacagaca catccacgag cacagcctac    240
atggagctga ggagcctgag atctgacgac acggccgtgt attactgtgc gagagctatg    300
ggctactggg ggcaagggac cacggtcacc gtctcctca                           339
```

<210> 34
<211> 113
<212> PRT
<213> Artificial
<220>
<223> Humanized version of murine sequence
<400> 34

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

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

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

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

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

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

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

Ser
```

<210> 35
<211> 339
<212> DNA
<213> Artificial
<220>
<223> Humanized version of murine sequence
<400> 35

caggttcagc tggtgcagtc tggagctgag gtgaagaagc ctggcgcctc agtgaaggtc 60
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cctggacaag ggcttgagtg gatcggaatg attgatcctt cagacagtga aactcactac 180
aatcaaatgt tcaaggacag agtcaccatg accgtagaca catccacgag cacagcctac 240
atggagctga ggagcctgag atctgacgac acggccgtgt attactgtgc gagagctatg 300
ggctactggg ggcaagggac cacggtcacc gtctcctca 339

<210> 36
<211> 113
<212> PRT
<213> Artificial
<220>
<223> Humanized version of murine sequence
<400> 36

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

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

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

Gly Met Ile Asp Pro Ser Asp Ser Glu Thr His Tyr Asn Gln Met Phe
50 55 60

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

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

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

Ser

<210> 37
<211> 112
<212> PRT
<213> Artificial
<220>
<223> Humanized version of murine sequence
<400> 37
Asp Val Val Met Thr Gln Thr Pro Leu Thr Leu Ser Val Asn Ile Gly
1 5 10 15

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

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

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

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

Ser Arg Val Glu Ala Glu Asp Leu Gly Ile Tyr Tyr Cys Trp Gln Gly
                85                  90                  95

Thr His Phe Pro Leu Thr Phe Gly Ala Gly Thr Lys Leu Glu Leu Lys
            100                 105                 110
```

<210> 38
<211> 113
<212> PRT
<213> Artificial
<220>
<223> Humanized version of murine sequence
<400> 38

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

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

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

Gly Met Val Asp Pro Ser Asp Ser Glu Thr His Tyr Asn Gln Met Phe
    50                  55                  60

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

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

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

Ser
```