SEQUENCE LISTING

<110> KOLLTAN PHARMACEUTICALS, INC

<120> ANTI-KIT ANTIBODIES AND USES THEREOF

<130> 12638-059-228

<140> to be assigned
<141> on even date herewith

<150> 61/675,751
<151> 2012-07-25

<150> 61/675,762
<151> 2012-07-25

<160> 333

<170> FastSEQ for Windows Version 4.0

<210> 1
<211> 972
<212> PRT
<213> Homo sapiens

<220>
<223> full length human KIT

<400> 1

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Met Arg Gly Ala Arg Gly Ala Trp Asp Phe Leu Cys Val Leu Leu Leu
 1               5                  10                  15
Leu Leu Arg Val Gln Thr Gly Ser Ser Gln Pro Ser Val Ser Pro Gly
            20                  25                  30
Glu Pro Ser Pro Pro Ser Ile His Pro Gly Lys Ser Asp Leu Ile Val
        35                  40                  45
Arg Val Gly Asp Glu Ile Arg Leu Leu Cys Thr Asp Pro Gly Phe Val
    50                  55                  60
Lys Trp Thr Phe Glu Ile Leu Asp Glu Thr Asn Glu Asn Lys Gln Asn
65                  70                  75                  80
Glu Trp Ile Thr Glu Lys Ala Glu Ala Thr Asn Thr Gly Lys Tyr Thr
                85                  90                  95
Cys Thr Asn Lys His Gly Leu Ser Asn Ser Ile Tyr Val Phe Val Arg
            100                 105                 110
Asp Pro Ala Lys Leu Phe Leu Val Asp Arg Ser Leu Tyr Gly Lys Glu
        115                 120                 125
Asp Asn Asp Thr Leu Val Arg Cys Pro Leu Thr Asp Pro Glu Val Thr
    130                 135                 140
Asn Tyr Ser Leu Lys Gly Cys Gln Gly Lys Pro Leu Pro Lys Asp Leu
145                 150                 155                 160
Arg Phe Ile Pro Asp Pro Lys Ala Gly Ile Met Ile Lys Ser Val Lys
                165                 170                 175
Arg Ala Tyr His Arg Leu Cys Leu His Cys Ser Val Asp Gln Glu Gly
            180                 185                 190
Lys Ser Val Leu Ser Glu Lys Phe Ile Leu Lys Val Arg Pro Ala Phe
        195                 200                 205
Lys Ala Val Pro Val Val Ser Val Ser Lys Ala Ser Tyr Leu Leu Arg
    210                 215                 220
Glu Gly Glu Glu Phe Thr Val Thr Cys Thr Ile Lys Asp Val Ser Ser
225                 230                 235                 240
Ser Val Tyr Ser Thr Trp Lys Arg Glu Asn Ser Gln Thr Lys Leu Gln
                245                 250                 255
Glu Lys Tyr Asn Ser Trp His His Gly Asp Phe Asn Tyr Glu Arg Gln
            260                 265                 270
Ala Thr Leu Thr Ile Ser Ser Ala Arg Val Asn Asp Ser Gly Val Phe
        275                 280                 285
```

```
Met Cys Tyr Ala Asn Asn Thr Phe Gly Ser Ala Asn Val Thr Thr Thr
    290                 295                 300
Leu Glu Val Val Asp Lys Gly Phe Ile Asn Ile Phe Pro Met Ile Asn
305                 310                 315                 320
Thr Thr Val Phe Val Asn Asp Gly Glu Asn Val Asp Leu Ile Val Glu
                325                 330                 335
Tyr Glu Ala Phe Pro Lys Pro Glu His Gln Gln Trp Ile Tyr Met Asn
            340                 345                 350
Arg Thr Phe Thr Asp Lys Trp Glu Asp Tyr Pro Lys Ser Glu Asn Glu
        355                 360                 365
Ser Asn Ile Arg Tyr Val Ser Glu Leu His Leu Thr Arg Leu Lys Gly
    370                 375                 380
Thr Glu Gly Gly Thr Tyr Thr Phe Leu Val Ser Asn Ser Asp Val Asn
385                 390                 395                 400
Ala Ala Ile Ala Phe Asn Val Tyr Val Asn Thr Lys Pro Glu Ile Leu
                405                 410                 415
Thr Tyr Asp Arg Leu Val Asn Gly Met Leu Gln Cys Val Ala Ala Gly
            420                 425                 430
Phe Pro Glu Pro Thr Ile Asp Trp Tyr Phe Cys Pro Gly Thr Glu Gln
        435                 440                 445
Arg Cys Ser Ala Ser Val Leu Pro Val Asp Val Gln Thr Leu Asn Ser
    450                 455                 460
Ser Gly Pro Pro Phe Gly Lys Leu Val Val Gln Ser Ser Ile Asp Ser
465                 470                 475                 480
Ser Ala Phe Lys His Asn Gly Thr Val Glu Cys Lys Ala Tyr Asn Asp
                485                 490                 495
Val Gly Lys Thr Ser Ala Tyr Phe Asn Phe Ala Phe Lys Glu Gln Ile
            500                 505                 510
His Pro His Thr Leu Phe Thr Pro Leu Leu Ile Gly Phe Val Ile Val
        515                 520                 525
Ala Gly Met Met Cys Ile Ile Val Met Ile Leu Thr Tyr Lys Tyr Leu
    530                 535                 540
Gln Lys Pro Met Tyr Glu Val Gln Trp Lys Val Val Glu Glu Ile Asn
545                 550                 555                 560
Gly Asn Asn Tyr Val Tyr Ile Asp Pro Thr Gln Leu Pro Tyr Asp His
                565                 570                 575
Lys Trp Glu Phe Pro Arg Asn Arg Leu Ser Phe Gly Lys Thr Leu Gly
            580                 585                 590
Ala Gly Ala Phe Gly Lys Val Val Glu Ala Thr Ala Tyr Gly Leu Ile
        595                 600                 605
Lys Ser Asp Ala Ala Met Thr Val Ala Val Lys Met Leu Lys Pro Ser
    610                 615                 620
Ala His Leu Thr Glu Arg Glu Ala Leu Met Ser Glu Leu Lys Val Leu
625                 630                 635                 640
Ser Tyr Leu Gly Asn His Met Asn Ile Val Asn Leu Leu Gly Ala Cys
                645                 650                 655
Thr Ile Gly Gly Pro Thr Leu Val Ile Thr Glu Tyr Cys Cys Tyr Gly
            660                 665                 670
Asp Leu Leu Asn Phe Leu Arg Arg Lys Arg Asp Ser Phe Ile Cys Ser
        675                 680                 685
Lys Gln Glu Asp His Ala Glu Ala Ala Leu Tyr Lys Asn Leu Leu His
    690                 695                 700
Ser Lys Glu Ser Ser Cys Ser Asp Ser Thr Asn Glu Tyr Met Asp Met
705                 710                 715                 720
Lys Pro Gly Val Ser Tyr Val Val Pro Thr Lys Ala Asp Lys Arg Arg
                725                 730                 735
Ser Val Arg Ile Gly Ser Tyr Ile Glu Arg Asp Val Thr Pro Ala Ile
            740                 745                 750
Met Glu Asp Asp Glu Leu Ala Leu Asp Leu Glu Asp Leu Leu Ser Phe
        755                 760                 765
Ser Tyr Gln Val Ala Lys Gly Met Ala Phe Leu Ala Ser Lys Asn Cys
    770                 775                 780
Ile His Arg Asp Leu Ala Ala Arg Asn Ile Leu Leu Thr His Gly Arg
785                 790                 795                 800
Ile Thr Lys Ile Cys Asp Phe Gly Leu Ala Arg Asp Ile Lys Asn Asp
                805                 810                 815
Ser Asn Tyr Val Val Lys Gly Asn Ala Arg Leu Pro Val Lys Trp Met
            820                 825                 830
```

```
Ala Pro Glu Ser Ile Phe Asn Cys Val Tyr Thr Phe Glu Ser Asp Val
        835                 840                 845
Trp Ser Tyr Gly Ile Phe Leu Trp Glu Leu Phe Ser Leu Gly Ser Ser
    850                 855                 860
Pro Tyr Pro Gly Met Pro Val Asp Ser Lys Phe Tyr Lys Met Ile Lys
865                 870                 875                 880
Glu Gly Phe Arg Met Leu Ser Pro Glu His Ala Pro Ala Glu Met Tyr
                885                 890                 895
Asp Ile Met Lys Thr Cys Trp Asp Ala Asp Pro Leu Lys Arg Pro Thr
            900                 905                 910
Phe Lys Gln Ile Val Gln Leu Ile Glu Lys Gln Ile Ser Glu Ser Thr
        915                 920                 925
Asn His Ile Tyr Ser Asn Leu Ala Asn Cys Ser Pro Asn Arg Gln Lys
    930                 935                 940
Pro Val Val Asp His Ser Val Arg Ile Asn Ser Val Gly Ser Thr Ala
945                 950                 955                 960
Ser Ser Ser Gln Pro Leu Leu Val His Asp Asp Val
                965                 970
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<210> 2
<211> 116
<212> PRT
<213> Artificial Sequence

<220>
<223> H1 VH domain

<400> 2

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Gln Val Gln Leu Val Gln Ser Gly Ala Glu Leu Lys Lys Pro Gly Ala
 1               5                  10                  15
Ser Val Lys Leu Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asp Tyr
            20                  25                  30
Tyr Ile Asn Trp Val Lys Gln Ala Pro Gly Lys Gly Leu Glu Trp Ile
        35                  40                  45
Ala Arg Ile Tyr Pro Gly Ser Gly Asn Thr Tyr Tyr Asn Glu Lys Phe
    50                  55                  60
Lys Gly Arg Ala Thr Leu Thr Ala Glu Lys Ser Thr Ser Thr Ala Tyr
65                  70                  75                  80
Met Gln Leu Ser Ser Leu Arg Ser Glu Asp Ser Ala Val Tyr Phe Cys
                85                  90                  95
Ala Arg Gly Val Tyr Tyr Phe Asp Tyr Trp Gly Gln Gly Thr Thr Val
            100                 105                 110
Thr Val Ser Ser
        115
```

<210> 3
<211> 116
<212> PRT
<213> Artificial Sequence

<220>
<223> H2 VH domain

<400> 3

```
Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
 1               5                  10                  15
Ser Val Lys Leu Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asp Tyr
            20                  25                  30
Tyr Ile Asn Trp Val Lys Gln Ala Pro Gly Lys Gly Leu Glu Trp Ile
        35                  40                  45
Ala Arg Ile Tyr Pro Gly Ser Gly Asn Thr Tyr Tyr Asn Glu Lys Phe
    50                  55                  60
Lys Gly Arg Ala Thr Leu Thr Ala Glu Lys Ser Thr Ser Thr Ala Tyr
65                  70                  75                  80
Met Gln Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Phe Cys
                85                  90                  95
```

Ala Arg Gly Val Tyr Tyr Phe Asp Tyr Trp Gly Gln Gly Thr Thr Val
100 105 110
Thr Val Ser Ser
115

<210> 4
<211> 116
<212> PRT
<213> Artificial Sequence

<220>
<223> H3 VH domain

<400> 4
Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
1 5 10 15
Ser Val Lys Leu Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asp Tyr
20 25 30
Tyr Ile Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Ile
35 40 45
Ala Arg Ile Tyr Pro Gly Ser Gly Asn Thr Tyr Tyr Asn Glu Lys Phe
50 55 60
Lys Gly Arg Ala Thr Leu Thr Ala Asp Lys Ser Thr Ser Thr Ala Tyr
65 70 75 80
Met Gln Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Phe Cys
85 90 95
Ala Arg Gly Val Tyr Tyr Phe Asp Tyr Trp Gly Gln Gly Thr Thr Val
100 105 110
Thr Val Ser Ser
115

<210> 5
<211> 116
<212> PRT
<213> Artificial Sequence

<220>
<223> H4 VH domain

<400> 5
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 Asp Tyr
20 25 30
Tyr Ile Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Ile
35 40 45
Ala Arg Ile Tyr Pro Gly Ser Gly Asn Thr Tyr Tyr Asn Glu Lys Phe
50 55 60
Lys Gly Arg Ala 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 Phe Cys
85 90 95
Ala Arg Gly Val Tyr Tyr Phe Asp Tyr Trp Gly Gln Gly Thr Thr Val
100 105 110
Thr Val Ser Ser
115

<210> 6
<211> 116
<212> PRT
<213> Artificial Sequence

<220>
<223> H5 VH domain

<400> 6
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 Asp Tyr
            20   25   30
Tyr Ile Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Ile
        35   40   45
Ala Arg Ile Tyr Pro Gly Ser Gly Asn Thr Tyr Tyr Asn Glu Lys Phe
    50   55   60
Lys 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 Phe Cys
                85   90   95
Ala Arg Gly Val Tyr Tyr Phe Asp Tyr Trp Gly Gln Gly Thr Thr Val
            100   105   110
Thr Val Ser Ser
        115

<210> 7
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<223> L1 VL domain

<400> 7
Asp Ile Val Met Thr Gln Ser Pro Ser Phe Leu Ser Ala Ser Val Gly
 1   5   10   15
Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Asn Val Arg Thr Asn
            20   25   30
Val Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Ala Leu Ile
        35   40   45
Tyr Ser Ala Ser Tyr Arg Tyr Ser Gly Val Pro Asp Arg Phe Thr Gly
    50   55   60
Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Ser
65   70   75   80
Glu Asp Phe Ala Asp Tyr Phe Cys Gln Gln Tyr Asn Ser Tyr Pro Arg
                85   90   95
Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
            100   105

<210> 8
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<223> L2 VL domain

<400> 8
Asp Ile Val Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
 1   5   10   15
Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Asn Val Arg Thr Asn
            20   25   30
Val Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Ala Leu Ile
        35   40   45
Tyr Ser Ala Ser Tyr Arg Tyr Ser Gly Val Pro Asp Arg Phe Thr Gly
    50   55   60
Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
65   70   75   80
Glu Asp Phe Ala Asp Tyr Phe Cys Gln Gln Tyr Asn Ser Tyr Pro Arg
                85   90   95
Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
            100   105

<210> 9
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<223> L3 VL domain

<400> 9
Asp Ile Val Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
 1   5   10   15
Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Asn Val Arg Thr Asn
            20   25   30
Val Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Ala Leu Ile
        35   40   45
Tyr Ser Ala Ser Tyr Arg Tyr Ser Gly Val Pro Asp Arg Phe Ser Gly
    50   55   60
Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
65   70   75   80
Glu Asp Phe Ala Asp Tyr Phe Cys Gln Gln Tyr Asn Ser Tyr Pro Arg
                85   90   95
Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
            100   105

<210> 10
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<223> L4 VL domain

<400> 10
Asp Ile Val Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
 1   5   10   15
Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Asn Val Arg Thr Asn
            20   25   30
Val Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Ser Leu Ile
        35   40   45
Tyr Ser Ala Ser Tyr Arg Tyr Ser Gly Val Pro Asp Arg Phe Ser Gly
    50   55   60
Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
65   70   75   80
Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Tyr Asn Ser Tyr Pro Arg
                85   90   95
Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
            100   105

<210> 11
<211> 116
<212> PRT
<213> Artificial Sequence

<220>
<223> consensus sequence of a VH domain

<220>
<221> VARIANT
<222> 11, 20, 38, 68, 70, 73, 82, 91
<223> Xaa = Any Amino Acid

<400> 11
Gln Val Gln Leu Val Gln Ser Gly Ala Glu Xaa Lys Lys Pro Gly Ala
 1   5   10   15
Ser Val Lys Xaa Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asp Tyr

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


<210> 12
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<223> consensus sequence of a VL domain

<220>
<221> VARIANT
<222> 10, 46, 63, 80, 85, 87
<223> Xaa = Any Amino Acid

<400> 12
Asp Ile Val Met Thr Gln Ser Pro Ser Xaa Leu Ser Ala Ser Val Gly
 1                  5                  10                  15
Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Asn Val Arg Thr Asn
            20                  25                  30
Val Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Xaa Leu Ile
        35                  40                  45
Tyr Ser Ala Ser Tyr Arg Tyr Ser Gly Val Pro Asp Arg Phe Xaa Gly
    50                  55                  60
Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Xaa
65                  70                  75                  80
Glu Asp Phe Ala Xaa Tyr Xaa Cys Gln Gln Tyr Asn Ser Tyr Pro Arg
                85                  90                  95
Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
            100                 105


<210> 13
<400> 13
 000

<210> 14
<211> 246
<212> PRT
<213> Artificial Sequence

<220>
<223> recombinant KIT D4/D5 polypeptide

<400> 14
Met Arg Gly Ala Arg Gly Ala Trp Asp Phe Leu Cys Val Leu Leu Leu
 1                  5                  10                  15
Leu Leu Arg Val Gln Thr Gly Ser Ser Gln Pro Ser Val Ser Pro Gly
            20                  25                  30
Glu Val Asp Lys Gly Phe Ile Asn Ile Phe Pro Met Ile Asn Thr Thr
        35                  40                  45
Val Phe Val Asn Asp Gly Glu Asn Val Asp Leu Ile Val Glu Tyr Glu
    50                  55                  60
Ala Phe Pro Lys Pro Glu His Gln Gln Trp Ile Tyr Met Asn Arg Thr
65                  70                  75                  80
```

```
Phe Thr Asp Lys Trp Glu Asp Tyr Pro Lys Ser Glu Asn Glu Ser Asn
                85                  90                  95
Ile Arg Tyr Val Ser Glu Leu His Leu Thr Arg Leu Lys Gly Thr Glu
            100                 105                 110
Gly Gly Thr Tyr Thr Phe Leu Val Ser Asn Ser Asp Val Asn Ala Ala
        115                 120                 125
Ile Ala Phe Asn Val Tyr Val Asn Thr Lys Pro Glu Ile Leu Thr Tyr
    130                 135                 140
Asp Arg Leu Val Asn Gly Met Leu Gln Cys Val Ala Ala Gly Phe Pro
145                 150                 155                 160
Glu Pro Thr Ile Asp Trp Tyr Phe Cys Pro Gly Thr Glu Gln Arg Cys
                165                 170                 175
Ser Ala Ser Val Leu Pro Val Asp Val Gln Thr Leu Asn Ser Ser Gly
            180                 185                 190
Pro Pro Phe Gly Lys Leu Val Val Gln Ser Ser Ile Asp Ser Ser Ala
        195                 200                 205
Phe Lys His Asn Gly Thr Val Glu Cys Lys Ala Tyr Asn Asp Val Gly
    210                 215                 220
Lys Thr Ser Ala Tyr Phe Asn Phe Ala Phe Lys Glu Gln Ile His Pro
225                 230                 235                 240
His His His His His His
                245
```

<210> 15
<211> 101
<212> PRT
<213> Homo sapiens

<220>
<223> K310 to N410 (D4 domain) of human KIT

<400> 15

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Lys Gly Phe Ile Asn Ile Phe Pro Met Ile Asn Thr Thr Val Phe Val
 1               5                  10                  15
Asn Asp Gly Glu Asn Val Asp Leu Ile Val Glu Tyr Glu Ala Phe Pro
            20                  25                  30
Lys Pro Glu His Gln Gln Trp Ile Tyr Met Asn Arg Thr Phe Thr Asp
        35                  40                  45
Lys Trp Glu Asp Tyr Pro Lys Ser Glu Asn Glu Ser Asn Ile Arg Tyr
    50                  55                  60
Val Ser Glu Leu His Leu Thr Arg Leu Lys Gly Thr Glu Gly Gly Thr
65                  70                  75                  80
Tyr Thr Phe Leu Val Ser Asn Ser Asp Val Asn Ala Ala Ile Ala Phe
                85                  90                  95
Asn Val Tyr Val Asn
            100
```

<210> 16
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> VH CDR1

<400> 16

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Asp Tyr Tyr Ile Asn
 1               5
```

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

<220>

<223> VH CDR2

<400> 17
Arg Ile Tyr Pro Gly Ser Gly Asn Thr Tyr Tyr Asn Glu Lys Phe Lys
 1   5   10   15
Gly

<210> 18
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> VH CDR3

<400> 18
Gly Val Tyr Tyr Phe Asp Tyr
 1   5

<210> 19
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> VL CDR1

<400> 19
Lys Ala Ser Gln Asn Val Arg Thr Asn Val Ala
 1   5   10

<210> 20
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> VL CDR2

<400> 20
Ser Ala Ser Tyr Arg Tyr Ser
 1   5

<210> 21
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> VL CDR3

<400> 21
Gln Gln Tyr Asn Ser Tyr Pro Arg Thr
 1   5

<210> 22
<211> 348
<212> DNA
<213> Artificial Sequence

<220>
<223> H1 VH domain

<400> 22
caggtccagc tggtgcagtc tggggctgag ctgaagaagc ctggggcctc agtgaagctg 60
tcctgcaagg cttctggcta cactttcact gactactata taaactgggt gaagcaggcc 120
cctggaaagg gacttgagtg gattgcaagg atttaccctg gaagtggtaa tacttactac 180
aatgagaagt tcaagggcag ggccacactg actgcagaaa aatccaccag cactgcctac 240
atgcagctca gcagcctgag atctgaggac tctgctgtct atttctgtgc aaggggggtg 300
tactactttg actactgggg ccaaggcacc actgtcacag tctcctca 348

<210> 23
<211> 348
<212> DNA
<213> Artificial Sequence

<220>
<223> H2 VH domain

<400> 23
caggtccagc tggtgcagtc tggggctgag gtgaagaagc ctggggcctc agtgaagctg 60
tcctgcaagg cttctggcta cactttcact gactactata taaactgggt gaagcaggcc 120
cctggaaagg gacttgagtg gattgcaagg atttaccctg gaagtggtaa tacttactac 180
aatgagaagt tcaagggcag ggccacactg actgcagaaa aatccaccag cactgcctac 240
atgcagctca gcagcctgag atctgaggac actgctgtct atttctgtgc aaggggggtg 300
tactactttg actactgggg ccaaggcacc actgtcacag tctcctca 348

<210> 24
<211> 348
<212> DNA
<213> Artificial Sequence

<220>
<223> H3 VH domain

<400> 24
caggtccagc tggtgcagtc tggggctgag gtgaagaagc ctggggcctc agtgaagctg 60
tcctgcaagg cttctggcta cactttcact gactactata taaactgggt gaggcaggcc 120
cctggaaagg gacttgagtg gattgcaagg atttaccctg gaagtggtaa tacttactac 180
aatgagaagt tcaagggcag ggccacactg actgcagaca aatccaccag cactgcctac 240
atgcagctca gcagcctgag atctgaggac actgctgtct atttctgtgc aaggggggtg 300
tactactttg actactgggg ccaaggcacc actgtcacag tctcctca 348

<210> 25
<211> 348
<212> DNA
<213> Artificial Sequence

<220>
<223> H4 VH domain

<400> 25
caggtccagc tggtgcagtc tggggctgag gtgaagaagc ctggggcctc agtgaaggtg 60
tcctgcaagg cttctggcta cactttcact gactactata taaactgggt gaggcaggcc 120
cctggaaagg gacttgagtg gattgcaagg atttaccctg gaagtggtaa tacttactac 180
aatgagaagt tcaagggcag ggccacaatc actgcagaca aatccaccag cactgcctac 240
atggagctca gcagcctgag atctgaggac actgctgtct atttctgtgc aaggggggtg 300
tactactttg actactgggg ccaaggcacc actgtcacag tctcctca 348

<210> 26
<211> 348
<212> DNA
<213> Artificial Sequence

<220>
<223> H5 VH domain

<400> 26
caggtccagc tggtgcagtc tggggctgag gtgaagaagc ctggggcctc agtgaaggtg 60
tcctgcaagg cttctggcta cactttcact gactactata taaactgggt gaggcaggcc 120

cctggaaagg gacttgagtg gattgcaagg atttaccctg gaagtggtaa tacttactac 180
aatgagaagt tcaagggcag ggtcacaatc actgcagaca aatccaccag cactgcctac 240
atggagctca gcagcctgag atctgaggac actgctgtct atttctgtgc aaggggggtg 300
tactactttg actactgggg ccaaggcacc actgtcacag tctcctca 348

<210> 27
<211> 321
<212> DNA
<213> Artificial Sequence

<220>
<223> L1 VL domain

<400> 27
gacattgtga tgacccagtc tccatccttc ctgtccgcat cagtaggaga cagggtcacc 60
atcacctgca aggccagtca gaatgtgcgt actaatgtag cctggtatca acagaaacca 120
gggaaagctc ctaaagcact gatttactcg gcatcctacc ggtacagtgg agtccctgat 180
cgcttcacag gcagtggatc tgggacagat ttcactctca ccatcagctc tctgcagtct 240
gaagacttcg cagactattt ctgtcagcaa tataacagct atcctcggac gttcggtgga 300
ggcaccaagg tggaaatcaa a 321

<210> 28
<211> 321
<212> DNA
<213> Artificial Sequence

<220>
<223> L2 VL domain

<400> 28
gacattgtga tgacccagtc tccatcctcc ctgtccgcat cagtaggaga cagggtcacc 60
atcacctgca aggccagtca gaatgtgcgt actaatgtag cctggtatca acagaaacca 120
gggaaagctc ctaaagcact gatttactcg gcatcctacc ggtacagtgg agtccctgat 180
cgcttcacag gcagtggatc tgggacagat ttcactctca ccatcagctc tctgcagcct 240
gaagacttcg cagactattt ctgtcagcaa tataacagct atcctcggac gttcggtgga 300
ggcaccaagg tggaaatcaa a 321

<210> 29
<211> 321
<212> DNA
<213> Artificial Sequence

<220>
<223> L3 VL domain

<400> 29
gacattgtga tgacccagtc tccatcctcc ctgtccgcat cagtaggaga cagggtcacc 60
atcacctgca aggccagtca gaatgtgcgt actaatgtag cctggtatca acagaaacca 120
gggaaagctc ctaaagcact gatttactcg gcatcctacc ggtacagtgg agtccctgat 180
cgcttcagcg gcagtggatc tgggacagat ttcactctca ccatcagctc tctgcagcct 240
gaagacttcg cagactattt ctgtcagcaa tataacagct atcctcggac gttcggtgga 300
ggcaccaagg tggaaatcaa a 321

<210> 30
<211> 321
<212> DNA
<213> Artificial Sequence

<220>
<223> L4 VL domain

<400> 30
gacattgtga tgacccagtc tccatcctcc ctgtccgcat cagtaggaga cagggtcacc 60
atcacctgca aggccagtca gaatgtgcgt actaatgtag cctggtatca acagaaacca 120
gggaaagctc ctaaatccct gatttactcg gcatcctacc ggtacagtgg agtccctgat 180
cgcttcagcg gcagtggatc tgggacagat ttcactctca ccatcagctc tctgcagcct 240
gaagacttcg caacctatta ctgtcagcaa tataacagct atcctcggac gttcggtgga 300
ggcaccaagg tggaaatcaa a 321

<210> 31
<211> 116
<212> PRT
<213> mouse

<220>
<223> variable heavy chain region of anti-KIT antibody 37M

<400> 31
Gln Val Gln Leu Lys Gln Ser 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 Asp Tyr
20 25 30
Tyr Ile Asn Trp Val Lys Gln Arg Pro Gly Gln Gly Leu Glu Trp Ile
35 40 45
Ala Arg Ile Tyr Pro Gly Ser Gly Asn Thr Tyr Tyr Asn Glu Lys Phe
50 55 60
Lys Gly Lys Ala Thr Leu Thr Ala Glu 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 Phe Cys
85 90 95
Ala Arg Gly Val Tyr Tyr Phe Asp Tyr Trp Gly Gln Gly Thr Thr Leu
100 105 110
Thr Val Ser Ser
115

<210> 32
<211> 108
<212> PRT
<213> mouse

<220>
<223> VL chain region of anti-KIT antibodies 37M and 37C

<400> 32
Asp Ile Val Met Thr Gln Ser Gln Lys Phe Met Ser Thr Ser Val Gly
1 5 10 15
Asp Arg Val Ser Val Thr Cys Lys Ala Ser Gln Asn Val Arg Thr Asn
20 25 30
Val Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Lys Ala Leu Ile
35 40 45
Tyr Ser Ala Ser Tyr Arg Tyr Ser Gly Val Pro Asp Arg Phe Thr Gly
50 55 60
Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Asn Val Gln Ser
65 70 75 80
Glu Asp Leu Ala Asp Tyr Phe Cys Gln Gln Tyr Asn Ser Tyr Pro Arg
85 90 95
Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys Arg
100 105

<210> 33
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> FR1 of VH domain

<400> 33
Gln Val Gln Leu Val Gln Ser Gly Ala Glu Leu Lys Lys Pro Gly Ala
1 5 10 15
Ser Val Lys Leu Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr
20 25 30

<210> 34
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> FR2 of VH domain

<400> 34
Trp Val Lys Gln Ala Pro Gly Lys Gly Leu Glu Trp Ile Ala
 1   5   10

<210> 35
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> FR3 of VH domain

<400> 35
Arg Ala Thr Leu Thr Ala Glu Lys Ser Thr Ser Thr Ala Tyr Met Gln
 1   5   10   15
Leu Ser Ser Leu Arg Ser Glu Asp Ser Ala Val Tyr Phe Cys Ala Arg
            20   25   30

<210> 36
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> FR4 of VH domain

<400> 36
Trp Gly Gln Gly Thr Thr Val Thr Val Ser Ser
 1   5   10

<210> 37
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> FR1 of VH domain

<400> 37
Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
 1   5   10   15
Ser Val Lys Leu Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr
            20   25   30

<210> 38
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> FR3 of VH domain

<400> 38
Arg Ala Thr Leu Thr Ala Glu Lys Ser Thr Ser Thr Ala Tyr Met Gln
 1   5   10   15
Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Phe Cys Ala Arg

20 25 30

<210> 39
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> FR2 of VH domain

<400> 39
Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Ile Ala
1 5 10

<210> 40
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> FR3 of VH domain

<400> 40
Arg Ala Thr Leu Thr Ala Asp Lys Ser Thr Ser Thr Ala Tyr Met Gln
1 5 10 15
Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Phe Cys Ala Arg
20 25 30

<210> 41
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> FR1 of VH domain

<400> 41
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
20 25 30

<210> 42
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> FR3 of VH domain

<400> 42
Arg Ala Thr Ile Thr Ala Asp Lys Ser Thr Ser Thr Ala Tyr Met Glu
1 5 10 15
Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Phe Cys Ala Arg
20 25 30

<210> 43
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> FR3 of VH domain

<400> 43
Arg Val Thr Ile Thr Ala Asp Lys Ser Thr Ser Thr Ala Tyr Met Glu
 1   5   10   15
Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Phe Cys Ala Arg
            20   25   30

<210> 44
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
<223> FR1 of VL domain

<400> 44
Asp Ile Val Met Thr Gln Ser Pro Ser Phe Leu Ser Ala Ser Val Gly
 1   5   10   15
Asp Arg Val Thr Ile Thr Cys
            20

<210> 45
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> FR2 of VL domain

<400> 45
Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Ala Leu Ile Tyr
 1   5   10   15

<210> 46
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> FR3 of VL domain

<400> 46
Gly Val Pro Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp Phe Thr
 1   5   10   15
Leu Thr Ile Ser Ser Leu Gln Ser Glu Asp Phe Ala Asp Tyr Phe Cys
            20   25   30

<210> 47
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> FR4 of VL domain

<400> 47
Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
 1   5   10

<210> 48
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
<223> FR1 of VL domain

<400> 48
Asp Ile Val Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
 1   5   10   15
Asp Arg Val Thr Ile Thr Cys
            20

<210> 49
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> FR3 of VL domain

<400> 49
Gly Val Pro Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp Phe Thr
 1   5   10   15
Leu Thr Ile Ser Ser Leu Gln Pro Glu Asp Phe Ala Asp Tyr Phe Cys
            20   25   30

<210> 50
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> FR3 of VL domain

<400> 50
Gly Val Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr
 1   5   10   15
Leu Thr Ile Ser Ser Leu Gln Pro Glu Asp Phe Ala Asp Tyr Phe Cys
            20   25   30

<210> 51
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> FR2 of VL domain

<400> 51
Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Ser Leu Ile Tyr
 1   5   10   15

<210> 52
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> FR3 of VL domain

<400> 52
Gly Val Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr
 1   5   10   15
Leu Thr Ile Ser Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys
            20   25   30

<210> 53
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<223> VL chain region of Ab1

<400> 53
Asp Ile Gln Met Thr Gln Ser Pro Thr Ser Leu Ser Ala Phe Val Gly
 1   5   10   15
Asp Arg Val Thr Ile Thr Cys Gln Ala Ser Gln Asp Ile Gly Asn Tyr
            20   25   30
Leu Asn Trp Tyr Gln Gln Lys Ser Gly Glu Pro Pro Lys Leu Leu Val
        35   40   45
Tyr Asp Ala Ser Phe Leu Lys Lys Gly Val Pro Ser Arg Phe Ser Gly
    50   55   60
Ser Gly Ser Gly Thr Gln Tyr Phe Leu Thr Ile Tyr Ser Leu Gln Pro
65   70   75   80
Glu Asp Phe Ala Thr Tyr Phe Cys Gln His Ser Asp Asn Leu Ser Val
                85   90   95
Thr Phe Gly Gly Gly Thr Lys Val Glu Val Lys
            100   105

<210> 54
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<223> VL chain region of Ab21

<400> 54
Asp Ile Gln Met Thr Gln Ser Pro Thr Ser Leu Ser Ala Phe Val Gly
 1   5   10   15
Asp Arg Val Thr Ile Thr Cys Gln Ala Ser Gln Asp Ile Gly Asn Tyr
            20   25   30
Leu Asn Trp Tyr Gln Gln Lys Ser Gly Glu Pro Pro Lys Leu Leu Val
        35   40   45
Tyr Asp Ala Ser Phe Leu Lys Lys Gly Val Pro Ser Arg Phe Ser Gly
    50   55   60
Ser Gly Ser Gly Thr Gln Tyr Phe Leu Thr Ile Tyr Ser Leu Gln Pro
65   70   75   80
Glu Asp Phe Ala Thr Tyr Phe Cys Gln His Ser Asp Ser Leu Ser Val
                85   90   95
Thr Phe Gly Gly Gly Thr Lys Val Glu Val Lys
            100   105

<210> 55
<211> 122
<212> PRT
<213> Artificial Sequence

<220>
<223> VH chain region of Ab1 or Ab21

<400> 55
Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1   5   10   15
Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Asn Tyr
            20   25   30
Leu Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
        35   40   45
Ser Ser Ile Val Pro Ser Gly Gly Phe Thr His Tyr Ala Asp Ser Val
    50   55   60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
65 70 75 80
Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95
Ala Arg Leu Gln Thr Gly Ser Trp Arg Val His Ala Phe Asp Ile Trp
100 105 110
Gly Gln Gly Thr Met Val Thr Val Ser Ser
115 120

<210> 56
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> VH CDR1 (Table 2)

<400> 56
Gly Tyr Thr Phe Thr Asp Tyr
1 5

<210> 57
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> VH CDR2 (Table 2)

<400> 57
Tyr Pro Gly Ser Gly Asn
1 5

<210> 58
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> VH CDR3 (Table 2)

<400> 58
Gly Val Tyr Tyr Phe Asp Tyr Trp
1 5

<210> 59
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> VL CDR1 (Table 2)

<400> 59
Ser Gln Asn Val Arg Thr Asn
1 5

<210> 60
<211> 3
<212> PRT
<213> Artificial Sequence

<220>

<223> VL CDR2 (Table 2)

<400> 60
Ser Ala Ser
 1

<210> 61
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> VL CDR3 (Table 2)

<400> 61
Tyr Asn Ser Tyr Pro Arg
 1   5

<210> 62
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> VH CDR2 (Table 2)

<400> 62
Pro Gly Ser Gly
 1

<210> 63
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> VH CDR3 (Table 2)

<400> 63
Val Tyr Tyr Phe Asp Tyr
 1   5

<210> 64
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> VH CDR1 (Table 3)

<400> 64
Gly Tyr Thr Phe Thr Asp Tyr Tyr Ile Asn
 1   5   10

<210> 65
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> VH CDR2 (Table 3)

<400> 65

20
Arg Ile Tyr Pro Gly Ser Gly Asn Thr Tyr
1 5 10

<210> 66
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> VL CDR1 (Table 3)

<400> 66
Arg Thr Asn Val Ala Trp Tyr
1 5

<210> 67
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> VL CDR2 (Table 3)

<400> 67
Ala Leu Ile Tyr Ser Ala Ser Tyr Arg Tyr
1 5 10

<210> 68
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> VL CDR3 (Table 3)

<400> 68
Gln Gln Tyr Asn Ser Tyr Pro Arg
1 5

<210> 69
<211> 116
<212> PRT
<213> Artificial Sequence

<220>
<223> variable heavy chain region of anti-KIT antibody 37C

<400> 69
Gln Val Gln Leu Lys Gln Ser 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 Asp Tyr
20 25 30
Tyr Ile Asn Trp Val Lys Gln Arg Pro Gly Gln Gly Leu Glu Trp Ile
35 40 45
Ala Arg Ile Tyr Pro Gly Ser Gly Asn Thr Tyr Tyr Asn Glu Lys Phe
50 55 60
Lys Gly Lys Ala Thr Leu Thr Ala Glu 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 Phe Cys
85 90 95
Ala Arg Gly Val Tyr Tyr Phe Asp Tyr Trp Gly Gln Gly Thr Thr Leu
100 105 110
Thr Val Ser Ala
115

<210> 70
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> VH CDR1 (Table 3)

<400> 70
Thr Asp Tyr Tyr Ile Asn
1 5

<210> 71
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> VH CDR2 (Table 3)

<400> 71
Trp Ile Ala Arg Ile Tyr Pro Gly Ser Gly Asn Thr Tyr
1 5 10

<210> 72
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> VH CDR3 (Table 3)

<400> 72
Ala Arg Gly Val Tyr Tyr Phe Asp Tyr
1 5

<210> 73
<211> 208
<212> PRT
<213> Homo sapiens

<220>
<223> Human KIT amino acids V308 to H515

<400> 73
Val Asp Lys Gly Phe Ile Asn Ile Phe Pro Met Ile Asn Thr Thr Val
1 5 10 15
Phe Val Asn Asp Gly Glu Asn Val Asp Leu Ile Val Glu Tyr Glu Ala
20 25 30
Phe Pro Lys Pro Glu His Gln Gln Trp Ile Tyr Met Asn Arg Thr Phe
35 40 45
Thr Asp Lys Trp Glu Asp Tyr Pro Lys Ser Glu Asn Glu Ser Asn Ile
50 55 60
Arg Tyr Val Ser Glu Leu His Leu Thr Arg Leu Lys Gly Thr Glu Gly
65 70 75 80
Gly Thr Tyr Thr Phe Leu Val Ser Asn Ser Asp Val Asn Ala Ala Ile
85 90 95
Ala Phe Asn Val Tyr Val Asn Thr Lys Pro Glu Ile Leu Thr Tyr Asp
100 105 110
Arg Leu Val Asn Gly Met Leu Gln Cys Val Ala Ala Gly Phe Pro Glu
115 120 125
Pro Thr Ile Asp Trp Tyr Phe Cys Pro Gly Thr Glu Gln Arg Cys Ser
130 135 140

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Ala Ser Val Leu Pro Val Asp Val Gln Thr Leu Asn Ser Ser Gly Pro
145                 150                 155                 160
Pro Phe Gly Lys Leu Val Val Gln Ser Ser Ile Asp Ser Ser Ala Phe
                165                 170                 175
Lys His Asn Gly Thr Val Glu Cys Lys Ala Tyr Asn Asp Val Gly Lys
            180                 185                 190
Thr Ser Ala Tyr Phe Asn Phe Ala Phe Lys Glu Gln Ile His Pro His
        195                 200                 205


<210> 74
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> VL CDR1

<220>
<221> VARIANT
<222> 1
<223> Xaa = Any Amino Acid

<400> 74
Xaa Ala Ser Gln Asn Val Arg Thr Asn Val Ala
 1               5                   10


<210> 75
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> VL CDR1

<220>
<221> VARIANT
<222> 2
<223> Xaa = Any Amino Acid

<400> 75
Lys Xaa Ser Gln Asn Val Arg Thr Asn Val Ala
 1               5                   10


<210> 76
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> VL CDR1

<220>
<221> VARIANT
<222> 3
<223> Xaa = Any Amino Acid

<400> 76
Lys Ala Xaa Gln Asn Val Arg Thr Asn Val Ala
 1               5                   10


<210> 77
<211> 11
<212> PRT
<213> Artificial Sequence
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<220>
<223> VL CDR1

<220>
<221> VARIANT
<222> 4
<223> Xaa = Any Amino Acid

<400> 77
Lys Ala Ser Xaa Asn Val Arg Thr Asn Val Ala
 1   5   10

<210> 78
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> VL CDR1

<220>
<221> VARIANT
<222> 5
<223> Xaa = Any Amino Acid

<400> 78
Lys Ala Ser Gln Xaa Val Arg Thr Asn Val Ala
 1   5   10

<210> 79
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> VL CDR1

<220>
<221> VARIANT
<222> 5
<223> Xaa = Ala or Gly or Thr or Tyr or Cys or Ser

<400> 79
Lys Ala Ser Gln Xaa Val Arg Thr Asn Val Ala
 1   5   10

<210> 80
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> VL CDR1

<220>
<221> VARIANT
<222> 6
<223> Xaa = Any Amino Acid

<400> 80
Lys Ala Ser Gln Asn Xaa Arg Thr Asn Val Ala
 1   5   10

<210> 81
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> VL CDR1

<220>
<221> VARIANT
<222> 7
<223> Xaa = Any Amino Acid

<400> 81
Lys Ala Ser Gln Asn Val Xaa Thr Asn Val Ala
 1   5   10

<210> 82
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> VL CDR1

<220>
<221> VARIANT
<222> 8
<223> Xaa = Any Amino Acid

<400> 82
Lys Ala Ser Gln Asn Val Arg Xaa Asn Val Ala
 1   5   10

<210> 83
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> VL CDR1

<220>
<221> VARIANT
<222> 9
<223> Xaa = Any Amino Acid

<400> 83
Lys Ala Ser Gln Asn Val Arg Thr Xaa Val Ala
 1   5   10

<210> 84
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> VL CDR1

<220>
<221> VARIANT
<222> 9
<223> Xaa = Ala or Gly or Thr or Tyr or Cys or Ser

<400> 84

Lys Ala Ser Gln Asn Val Arg Thr Xaa Val Ala
1 5 10

<210> 85
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> VL CDR1

<220>
<221> VARIANT
<222> 10
<223> Xaa = Any Amino Acid

<400> 85
Lys Ala Ser Gln Asn Val Arg Thr Asn Xaa Ala
1 5 10

<210> 86
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> VL CDR1

<220>
<221> VARIANT
<222> 11
<223> Xaa = Any Amino Acid

<400> 86
Lys Ala Ser Gln Asn Val Arg Thr Asn Val Xaa
1 5 10

<210> 87
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> VL CDR1

<400> 87
Cys Lys Ala Ser Gln Asn Val Arg Thr Asn Val
1 5 10

<210> 88
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> VL CDR1

<400> 88
Ile Cys Lys Ala Ser Gln Asn Val Arg Thr Asn
1 5 10

<210> 89
<211> 11

<212> PRT
<213> Artificial Sequence

<220>
<223> VL CDR1

<400> 89
Ala Ser Gln Asn Val Arg Thr Asn Val Ala Trp
 1   5   10

<210> 90
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> VL CDR1

<400> 90
Ser Gln Asn Val Arg Thr Asn Val Ala Trp Tyr
 1   5   10

<210> 91
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> VL CDR1

<400> 91
Gln Asn Val Arg Thr Asn Val Ala Trp Tyr Gln
 1   5   10

<210> 92
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> VL CDR2

<220>
<221> VARIANT
<222> 1
<223> Xaa = Any Amino Acid

<400> 92
Xaa Ala Ser Tyr Arg Tyr Ser
 1   5

<210> 93
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> VL CDR2

<220>
<221> VARIANT
<222> 2
<223> Xaa = Any Amino Acid

<400> 93
Ser Xaa Ser Tyr Arg Tyr Ser
1 5

<210> 94
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> VL CDR2

<220>
<221> VARIANT
<222> 3
<223> Xaa = Any Amino Acid

<400> 94
Ser Ala Xaa Tyr Arg Tyr Ser
1 5

<210> 95
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> VL CDR2

<220>
<221> VARIANT
<222> 4
<223> Xaa = Any Amino Acid

<400> 95
Ser Ala Ser Xaa Arg Tyr Ser
1 5

<210> 96
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> VL CDR2

<220>
<221> VARIANT
<222> 5
<223> Xaa = Any Amino Acid

<400> 96
Ser Ala Ser Tyr Xaa Tyr Ser
1 5

<210> 97
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> VL CDR2

<220>

<221> VARIANT
<222> 6
<223> Xaa = Any Amino Acid

<400> 97
Ser Ala Ser Tyr Arg Xaa Ser
 1   5

<210> 98
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> VL CDR2

<220>
<221> VARIANT
<222> 7
<223> Xaa = Any Amino Acid

<400> 98
Ser Ala Ser Tyr Arg Tyr Xaa
 1   5

<210> 99
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> VL CDR2

<400> 99
Tyr Ser Ala Ser Tyr Arg Tyr
 1   5

<210> 100
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> VL CDR2

<400> 100
Ile Tyr Ser Ala Ser Tyr Arg
 1   5

<210> 101
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> VL CDR2

<400> 101
Leu Ile Tyr Ser Ala Ser Tyr
 1   5

<210> 102
<211> 7

<212> PRT
<213> Artificial Sequence

<220>
<223> VL CDR2

<400> 102
Ala Ser Tyr Arg Tyr Ser Gly
 1   5

<210> 103
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> VL CDR2

<400> 103
Ser Tyr Arg Tyr Ser Gly Val
 1   5

<210> 104
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> VL CDR2

<400> 104
Tyr Arg Tyr Ser Gly Val Pro
 1   5

<210> 105
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> VL CDR3

<220>
<221> VARIANT
<222> 2
<223> Xaa = Any Amino Acid

<400> 105
Gln Xaa Tyr Asn Ser Tyr Pro Arg Thr
 1   5

<210> 106
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> VL CDR3

<220>
<221> VARIANT
<222> 3
<223> Xaa = Any Amino Acid

<400> 106
Gln Gln Xaa Asn Ser Tyr Pro Arg Thr
1 5

<210> 107
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> VL CDR3

<220>
<221> VARIANT
<222> 4
<223> Xaa = Any Amino Acid

<400> 107
Gln Gln Tyr Xaa Ser Tyr Pro Arg Thr
1 5

<210> 108
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> VL CDR3

<220>
<221> VARIANT
<222> 5
<223> Xaa = Any Amino Acid

<400> 108
Gln Gln Tyr Asn Xaa Tyr Pro Arg Thr
1 5

<210> 109
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> VL CDR3

<220>
<221> VARIANT
<222> 6
<223> Xaa = Any Amino Acid

<400> 109
Gln Gln Tyr Asn Ser Xaa Pro Arg Thr
1 5

<210> 110
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> VL CDR3

<220>

<221> VARIANT
<222> 7
<223> Xaa = Any Amino Acid

<400> 110
Gln Gln Tyr Asn Ser Tyr Xaa Arg Thr
 1   5

<210> 111
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> VL CDR3

<220>
<221> VARIANT
<222> 8
<223> Xaa = Any Amino Acid

<400> 111
Gln Gln Tyr Asn Ser Tyr Pro Xaa Thr
 1   5

<210> 112
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> VL CDR3

<220>
<221> VARIANT
<222> 9
<223> Xaa = Any Amino Acid

<400> 112
Gln Gln Tyr Asn Ser Tyr Pro Arg Xaa
 1   5

<210> 113
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> VL CDR3

<400> 113
Gln Gln Tyr Asn Ser Tyr Pro Arg
 1   5

<210> 114
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> VL CDR3

<400> 114
Cys Gln Gln Tyr Asn Ser Tyr Pro

1 5

<210> 115
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> VL CDR3

<400> 115
Phe Cys Gln Gln Tyr Asn Ser Tyr
1 5

<210> 116
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> VL CDR3

<400> 116
Tyr Phe Cys Gln Gln Tyr Asn Ser
1 5

<210> 117
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> VL CDR3

<400> 117
Gln Tyr Asn Ser Tyr Pro Arg Phe
1 5

<210> 118
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> VL CDR3

<400> 118
Tyr Asn Ser Tyr Pro Arg Phe Gly
1 5

<210> 119
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> VL CDR3

<400> 119
Ser Tyr Pro Arg Phe Gly Gly
1 5

<210> 120
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> VH CDR1

<220>
<221> VARIANT
<222> 1
<223> Xaa = Any Amino Acid

<400> 120
Xaa Tyr Tyr Ile Asn
 1   5

<210> 121
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> VH CDR1

<220>
<221> VARIANT
<222> 2
<223> Xaa = Any Amino Acid

<400> 121
Asp Xaa Tyr Ile Asn
 1   5

<210> 122
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> VH CDR1

<220>
<221> VARIANT
<222> 3
<223> Xaa = Any Amino Acid

<400> 122
Asp Tyr Xaa Ile Asn
 1   5

<210> 123
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> VH CDR1

<220>
<221> VARIANT
<222> 4
<223> Xaa = Any Amino Acid

<400> 123

Asp Tyr Tyr Xaa Asn
1 5

<210> 124
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> VH CDR1

<220>
<221> VARIANT
<222> 5
<223> Xaa = Any Amino Acid

<400> 124
Asp Tyr Tyr Ile Xaa
1 5

<210> 125
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> VH CDR1

<400> 125
Thr Asp Tyr Tyr Ile
1 5

<210> 126
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> VH CDR1

<400> 126
Phe Thr Asp Tyr Tyr
1 5

<210> 127
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> VH CDR1

<400> 127
Thr Phe Thr Asp Tyr
1 5

<210> 128
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> VH CDR1

<400> 128
Tyr Tyr Ile Asn Trp
 1   5

<210> 129
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> VH CDR1

<400> 129
Tyr Tyr Ile Asn Trp Val
 1   5

<210> 130
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> VH CDR1

<400> 130
Ile Asn Trp Val Arg
 1   5

<210> 131
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> VH CDR2

<220>
<221> VARIANT
<222> 1
<223> Xaa = Any Amino Acid

<400> 131
Xaa Ile Tyr Pro Gly Ser Gly Asn Thr Tyr Tyr Asn Glu Lys Phe Lys
 1   5   10   15
Gly

<210> 132
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> VH CDR2

<220>
<221> VARIANT
<222> 2
<223> Xaa = Any Amino Acid

<400> 132
Arg Xaa Tyr Pro Gly Ser Gly Asn Thr Tyr Tyr Asn Glu Lys Phe Lys
 1   5   10   15

Gly

<210> 133
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> VH CDR2

<220>
<221> VARIANT
<222> 3
<223> Xaa = Any Amino Acid

<400> 133
Arg Ile Xaa Pro Gly Ser Gly Asn Thr Tyr Tyr Asn Glu Lys Phe Lys
 1   5   10   15
Gly

<210> 134
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> VH CDR2

<220>
<221> VARIANT
<222> 4
<223> Xaa = Any Amino Acid

<400> 134
Arg Ile Tyr Xaa Gly Ser Gly Asn Thr Tyr Tyr Asn Glu Lys Phe Lys
 1   5   10   15
Gly

<210> 135
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> VH CDR2

<220>
<221> VARIANT
<222> 5
<223> Xaa = Any Amino Acid

<400> 135
Arg Ile Tyr Pro Xaa Ser Gly Asn Thr Tyr Tyr Asn Glu Lys Phe Lys
 1   5   10   15
Gly

<210> 136
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> VH CDR2

<220>
<221> VARIANT
<222> 6
<223> Xaa = Any Amino Acid

<400> 136
Arg Ile Tyr Pro Gly Xaa Gly Asn Thr Tyr Tyr Asn Glu Lys Phe Lys
 1   5   10   15
Gly

<210> 137
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> VH CDR2

<220>
<221> VARIANT
<222> 7
<223> Xaa = Any Amino Acid

<400> 137
Arg Ile Tyr Pro Gly Ser Xaa Asn Thr Tyr Tyr Asn Glu Lys Phe Lys
 1   5   10   15
Gly

<210> 138
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> VH CDR2

<220>
<221> VARIANT
<222> 8
<223> Xaa = Any Amino Acid

<400> 138
Arg Ile Tyr Pro Gly Ser Gly Xaa Thr Tyr Tyr Asn Glu Lys Phe Lys
 1   5   10   15
Gly

<210> 139
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> VH CDR2

<220>
<221> VARIANT
<222> 9
<223> Xaa = Any Amino Acid

<400> 139
Arg Ile Tyr Pro Gly Ser Gly Asn Xaa Tyr Tyr Asn Glu Lys Phe Lys
 1   5   10   15
Gly

<210> 140
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> VH CDR2

<220>
<221> VARIANT
<222> 10
<223> Xaa = Any Amino Acid

<400> 140
Arg Ile Tyr Pro Gly Ser Gly Asn Thr Xaa Tyr Asn Glu Lys Phe Lys
 1   5   10   15
Gly

<210> 141
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> VH CDR2

<220>
<221> VARIANT
<222> 11
<223> Xaa = Any Amino Acid

<400> 141
Arg Ile Tyr Pro Gly Ser Gly Asn Thr Tyr Xaa Asn Glu Lys Phe Lys
 1   5   10   15
Gly

<210> 142
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> VH CDR2

<220>
<221> VARIANT
<222> 12
<223> Xaa = Any Amino Acid

<400> 142
Arg Ile Tyr Pro Gly Ser Gly Asn Thr Tyr Tyr Xaa Glu Lys Phe Lys
 1   5   10   15
Gly

<210> 143
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> VH CDR2

<220>
<221> VARIANT
<222> 13
<223> Xaa = Any Amino Acid

<400> 143
Arg Ile Tyr Pro Gly Ser Gly Asn Thr Tyr Tyr Asn Xaa Lys Phe Lys
 1   5   10   15
Gly

<210> 144
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> VH CDR2

<220>
<221> VARIANT
<222> 14
<223> Xaa = Any Amino Acid

<400> 144
Arg Ile Tyr Pro Gly Ser Gly Asn Thr Tyr Tyr Asn Glu Xaa Phe Lys
 1   5   10   15
Gly

<210> 145
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> VH CDR2

<220>
<221> VARIANT
<222> 15
<223> Xaa = Any Amino Acid

<400> 145
Arg Ile Tyr Pro Gly Ser Gly Asn Thr Tyr Tyr Asn Glu Lys Xaa Lys
 1   5   10   15
Gly

<210> 146
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> VH CDR2

<220>
<221> VARIANT
<222> 16
<223> Xaa = Any Amino Acid

<400> 146
Arg Ile Tyr Pro Gly Ser Gly Asn Thr Tyr Tyr Asn Glu Lys Phe Xaa
 1   5   10   15
Gly

<210> 147
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> VH CDR2

<220>
<221> VARIANT
<222> 17
<223> Xaa = Any Amino Acid

<400> 147
Arg Ile Tyr Pro Gly Ser Gly Asn Thr Tyr Tyr Asn Glu Lys Phe Lys
 1   5   10   15
Xaa

<210> 148
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> VH CDR2

<400> 148
Ala Arg Ile Tyr Pro Gly Ser Gly Asn Thr Tyr Tyr Asn Glu Lys Phe
 1   5   10   15

<210> 149
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> VH CDR2

<400> 149
Ile Ala Arg Ile Tyr Pro Gly Ser Gly Asn Thr Tyr Tyr Asn Glu Lys
 1   5   10   15

<210> 150
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> VH CDR2

<400> 150
Trp Ile Ala Arg Ile Tyr Pro Gly Ser Gly Asn Thr Tyr Tyr Asn Glu

1 5 10 15

<210> 151
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> VH CDR2

<400> 151
Ile Tyr Pro Gly Ser Gly Asn Thr Tyr Tyr Asn Glu Lys Phe Lys Gly
1 5 10 15
Arg

<210> 152
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> VH CDR2

<400> 152
Tyr Pro Gly Ser Gly Asn Thr Tyr Tyr Asn Glu Lys Phe Lys Gly Arg
1 5 10 15
Ala

<210> 153
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> VH CDR2

<400> 153
Pro Gly Ser Gly Asn Thr Tyr Tyr Asn Glu Lys Phe Lys Gly Arg Ala
1 5 10 15
Thr

<210> 154
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> VH CDR3

<220>
<221> VARIANT
<222> 1
<223> Xaa = Any Amino Acid

<400> 154
Xaa Val Tyr Tyr Phe Asp Tyr
1 5

<210> 155
<211> 7

<212> PRT
<213> Artificial Sequence

<220>
<223> VH CDR3

<220>
<221> VARIANT
<222> 2
<223> Xaa = Any Amino Acid

<400> 155
Gly Xaa Tyr Tyr Phe Asp Tyr
 1   5

<210> 156
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> VH CDR3

<220>
<221> VARIANT
<222> 3
<223> Xaa = Any Amino Acid

<400> 156
Gly Val Xaa Tyr Phe Asp Tyr
 1   5

<210> 157
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> VH CDR3

<220>
<221> VARIANT
<222> 4
<223> Xaa = Any Amino Acid

<400> 157
Gly Val Tyr Xaa Phe Asp Tyr
 1   5

<210> 158
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> VH CDR3

<220>
<221> VARIANT
<222> 5
<223> Xaa = Any Amino Acid

<400> 158
Gly Val Tyr Tyr Xaa Asp Tyr
 1   5

<210> 159
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> VH CDR3

<220>
<221> VARIANT
<222> 6
<223> Xaa = Any Amino Acid

<400> 159
Gly Val Tyr Tyr Phe Xaa Tyr
 1   5

<210> 160
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> VH CDR3

<220>
<221> VARIANT
<222> 7
<223> Xaa = Any Amino Acid

<400> 160
Gly Val Tyr Tyr Phe Asp Xaa
 1   5

<210> 161
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> VH CDR3

<400> 161
Arg Gly Val Tyr Tyr Phe Asp
 1   5

<210> 162
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> VH CDR3

<400> 162
Ala Arg Gly Val Tyr Tyr Phe
 1   5

<210> 163
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> VH CDR3

<400> 163
Cys Ala Arg Gly Val Tyr Tyr
 1   5

<210> 164
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> VH CDR3

<400> 164
Gly Val Tyr Tyr Phe Asp Tyr Trp
 1   5

<210> 165
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> VH CDR3

<400> 165
Val Tyr Tyr Phe Asp Tyr Trp Gly
 1   5

<210> 166
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> VH CDR3

<400> 166
Tyr Tyr Phe Asp Tyr Trp Gly Gln
 1   5

<210> 167
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> VH FR1

<220>
<221> VARIANT
<222> 1
<223> Xaa = Any Amino Acid

<220>
<221> VARIANT
<222> 11, 20
<223> Xaa = Leu or Val

<400> 167
Xaa Val Gln Leu Val Gln Ser Gly Ala Glu Xaa Lys Lys Pro Gly Ala

 1   5   10   15
Ser Val Lys Xaa Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr
            20   25   30

<210> 168
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> VH FR1

<220>
<221> VARIANT
<222> 2
<223> Xaa = Any Amino Acid

<220>
<221> VARIANT
<222> 11, 20
<223> Xaa = Leu or Val

<400> 168
Gln Xaa Gln Leu Val Gln Ser Gly Ala Glu Xaa Lys Lys Pro Gly Ala
 1   5   10   15
Ser Val Lys Xaa Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr
            20   25   30

<210> 169
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> VH FR1

<220>
<221> VARIANT
<222> 3
<223> Xaa = Any Amino Acid

<220>
<221> VARIANT
<222> 11, 20
<223> Xaa = Leu or Val

<400> 169
Gln Val Xaa Leu Val Gln Ser Gly Ala Glu Xaa Lys Lys Pro Gly Ala
 1   5   10   15
Ser Val Lys Xaa Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr
            20   25   30

<210> 170
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
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<220>
<221> VARIANT
<222> 4, 11, 24
<223> Xaa = Any Amino Acid

<220>
<221> VARIANT
<222> 11, 20
<223> Xaa = Leu or Val

<400> 170
Gln Val Gln Xaa Val Gln Ser Gly Ala Glu Xaa Lys Lys Pro Gly Ala
 1   5   10   15
Ser Val Lys Xaa Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr
            20   25   30

<210> 171
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> VH FR1

<220>
<221> VARIANT
<222> 5
<223> Xaa = Any Amino Acid

<220>
<221> VARIANT
<222> 11, 20
<223> Xaa = Leu or Val

<400> 171
Gln Val Gln Leu Xaa Gln Ser Gly Ala Glu Xaa Lys Lys Pro Gly Ala
 1   5   10   15
Ser Val Lys Xaa Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr
            20   25   30

<210> 172
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> VH FR1

<220>
<221> VARIANT
<222> 6
<223> Xaa = Any Amino Acid

<220>
<221> VARIANT
<222> 11, 20
<223> Xaa = Leu or Val

<400> 172
Gln Val Gln Leu Val Xaa Ser Gly Ala Glu Xaa Lys Lys Pro Gly Ala
 1   5   10   15
Ser Val Lys Xaa Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr
            20   25   30

<210> 173
<211> 30
<212> PRT
<213> Artificial Sequence

<220>

<223> VH FR1

<220>
<221> VARIANT
<222> 7
<223> Xaa = Any Amino Acid

<220>
<221> VARIANT
<222> 11, 20
<223> Xaa = Leu or Val

<400> 173
Gln Val Gln Leu Val Gln Xaa Gly Ala Glu Xaa Lys Lys Pro Gly Ala
 1   5   10   15
Ser Val Lys Xaa Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr
            20   25   30

<210> 174
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> VH FR1

<220>
<221> VARIANT
<222> 8
<223> Xaa = Any Amino Acid

<220>
<221> VARIANT
<222> 11, 20
<223> Xaa = Leu or Val

<400> 174
Gln Val Gln Leu Val Gln Ser Xaa Ala Glu Xaa Lys Lys Pro Gly Ala
 1   5   10   15
Ser Val Lys Xaa Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr
            20   25   30

<210> 175
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> VH FR1

<220>
<221> VARIANT
<222> 9
<223> Xaa = Any Amino Acid

<220>
<221> VARIANT
<222> 11, 20
<223> Xaa = Leu or Val

<400> 175
Gln Val Gln Leu Val Gln Ser Gly Xaa Glu Xaa Lys Lys Pro Gly Ala
 1   5   10   15
Ser Val Lys Xaa Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr
            20   25   30

<210> 176
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> VH FR1

<220>
<221> VARIANT
<222> 10
<223> Xaa = Any Amino Acid

<220>
<221> VARIANT
<222> 11, 20
<223> Xaa = Leu or Val

<400> 176
Gln Val Gln Leu Val Gln Ser Gly Ala Xaa Xaa Lys Lys Pro Gly Ala
 1   5   10   15
Ser Val Lys Xaa Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr
            20   25   30

<210> 177
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> VH FR1

<220>
<221> VARIANT
<222> 11
<223> Xaa = Any Amino Acid

<220>
<221> VARIANT
<222> 20
<223> Xaa = Leu or Val

<400> 177
Gln Val Gln Leu Val Gln Ser Gly Ala Glu Xaa Lys Lys Pro Gly Ala
 1   5   10   15
Ser Val Lys Xaa Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr
            20   25   30

<210> 178
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> VH FR1

<220>
<221> VARIANT
<222> 12
<223> Xaa = Any Amino Acid

<220>
<221> VARIANT
<222> 11, 20
<223> Xaa = Leu or Val

<400> 178
Gln Val Gln Leu Val Gln Ser Gly Ala Glu Xaa Xaa Lys Pro Gly Ala
 1   5   10   15
Ser Val Lys Xaa Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr
            20   25   30

<210> 179
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> VH FR1

<220>
<221> VARIANT
<222> 13
<223> Xaa = Any Amino Acid

<220>
<221> VARIANT
<222> 11, 20
<223> Xaa = Leu or Val

<400> 179
Gln Val Gln Leu Val Gln Ser Gly Ala Glu Xaa Lys Xaa Pro Gly Ala
 1   5   10   15
Ser Val Lys Xaa Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr
            20   25   30

<210> 180
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> VH FR1

<220>
<221> VARIANT
<222> 14
<223> Xaa = Any Amino Acid

<220>
<221> VARIANT
<222> 11, 20
<223> Xaa = Leu or Val

<400> 180
Gln Val Gln Leu Val Gln Ser Gly Ala Glu Xaa Lys Lys Xaa Gly Ala
 1   5   10   15
Ser Val Lys Xaa Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr
            20   25   30

<210> 181
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> VH FR1

<220>
<221> VARIANT

<222> 15
<223> Xaa = Any Amino Acid

<220>
<221> VARIANT
<222> 11, 20
<223> Xaa = Leu or Val

<400> 181
Gln Val Gln Leu Val Gln Ser Gly Ala Glu Xaa Lys Lys Pro Xaa Ala
 1   5   10   15
Ser Val Lys Xaa Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr
            20   25   30

<210> 182
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> VH FR1

<220>
<221> VARIANT
<222> 16
<223> Xaa = Any Amino Acid

<220>
<221> VARIANT
<222> 11, 20
<223> Xaa = Leu or Val

<400> 182
Gln Val Gln Leu Val Gln Ser Gly Ala Glu Xaa Lys Lys Pro Gly Xaa
 1   5   10   15
Ser Val Lys Xaa Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr
            20   25   30

<210> 183
<211> 30
<212> PRT
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<220>
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<220>
<221> VARIANT
<222> 17
<223> Xaa = Any Amino Acid

<220>
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<222> 11, 20
<223> Xaa = Leu or Val

<400> 183
Gln Val Gln Leu Val Gln Ser Gly Ala Glu Xaa Lys Lys Pro Gly Ala
 1   5   10   15
Xaa Val Lys Xaa Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr
            20   25   30

<210> 184
<211> 30
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<220>
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<220>
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<222> 11, 20
<223> Xaa = Leu or Val

<400> 184
Gln Val Gln Leu Val Gln Ser Gly Ala Glu Xaa Lys Lys Pro Gly Ala
 1   5   10   15
Ser Xaa Lys Xaa Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr
            20   25   30

<210> 185
<211> 30
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<220>
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<220>
<221> VARIANT
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<223> Xaa = Leu or Val

<400> 185
Gln Val Gln Leu Val Gln Ser Gly Ala Glu Xaa Lys Lys Pro Gly Ala
 1   5   10   15
Ser Val Xaa Xaa Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr
            20   25   30

<210> 186
<211> 30
<212> PRT
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<220>
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<223> Xaa = Any Amino Acid

<400> 186
Gln Val Gln Leu Val Gln Ser Gly Ala Glu Xaa Lys Lys Pro Gly Ala
 1   5   10   15

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

<210> 187
<211> 30
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<223> Xaa = Any Amino Acid

<400> 187
Gln Val Gln Leu Val Gln Ser Gly Ala Glu Xaa Lys Lys Pro Gly Ala
1 5 10 15
Ser Val Lys Xaa Xaa Cys Lys Ala Ser Gly Tyr Thr Phe Thr
20 25 30

<210> 188
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<400> 188
Gln Val Gln Leu Val Gln Ser Gly Ala Glu Xaa Lys Lys Pro Gly Ala
1 5 10 15
Ser Val Lys Xaa Ser Xaa Lys Ala Ser Gly Tyr Thr Phe Thr
20 25 30

<210> 189
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<400> 189
Gln Val Gln Leu Val Gln Ser Gly Ala Glu Xaa Lys Lys Pro Gly Ala
 1   5   10   15
Ser Val Lys Xaa Ser Cys Xaa Ala Ser Gly Tyr Thr Phe Thr
            20   25   30

<210> 190
<211> 30
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<400> 190
Gln Val Gln Leu Val Gln Ser Gly Ala Glu Xaa Lys Lys Pro Gly Ala
 1   5   10   15
Ser Val Lys Xaa Ser Cys Lys Xaa Ser Gly Tyr Thr Phe Thr
            20   25   30

<210> 191
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<223> Xaa = Any Amino Acid

<400> 191
Gln Val Gln Leu Val Gln Ser Gly Ala Glu Xaa Lys Lys Pro Gly Ala
 1   5   10   15
Ser Val Lys Xaa Ser Cys Lys Ala Xaa Gly Tyr Thr Phe Thr
            20   25   30

<210> 192
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<400> 192
Gln Val Gln Leu Val Gln Ser Gly Ala Glu Xaa Lys Lys Pro Gly Ala
 1   5   10   15
Ser Val Lys Xaa Ser Cys Lys Ala Ser Xaa Tyr Thr Phe Thr
            20   25   30

<210> 193
<211> 30
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<400> 193
Gln Val Gln Leu Val Gln Ser Gly Ala Glu Xaa Lys Lys Pro Gly Ala
 1   5   10   15
Ser Val Lys Xaa Ser Cys Lys Ala Ser Gly Xaa Thr Phe Thr
            20   25   30

<210> 194
<211> 30
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<400> 194
Gln Val Gln Leu Val Gln Ser Gly Ala Glu Xaa Lys Lys Pro Gly Ala
 1   5   10   15
Ser Val Lys Xaa Ser Cys Lys Ala Ser Gly Tyr Xaa Phe Thr
            20   25   30

<210> 195
<211> 30
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<222> 29
<223> Xaa = Any Amino Acid

<400> 195
Gln Val Gln Leu Val Gln Ser Gly Ala Glu Xaa Lys Lys Pro Gly Ala
 1   5   10   15
Ser Val Lys Xaa Ser Cys Lys Ala Ser Gly Tyr Thr Xaa Thr
            20   25   30

<210> 196
<211> 30
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<220>
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<222> 30
<223> Xaa = Any Amino Acid

<400> 196
Gln Val Gln Leu Val Gln Ser Gly Ala Glu Xaa Lys Lys Pro Gly Ala
 1   5   10   15
Ser Val Lys Xaa Ser Cys Lys Ala Ser Gly Tyr Thr Phe Xaa
            20   25   30

<210> 197
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
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<220>
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<222> 1
<223> Xaa = Any Amino Acid

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<221> VARIANT
<222> 3
<223> Xaa = Arg or Lys

<400> 197
Xaa Val Xaa Gln Ala Pro Gly Lys Gly Leu Glu Trp Ile Ala
 1   5   10

<210> 198
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> VH FR2

<220>
<221> VARIANT
<222> 2
<223> Xaa = Any Amino Acid

<220>
<221> VARIANT
<222> 3
<223> Xaa = Arg or Lys

<400> 198
Trp Xaa Xaa Gln Ala Pro Gly Lys Gly Leu Glu Trp Ile Ala
 1   5   10

<210> 199
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> VH FR2

<220>
<221> VARIANT
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<400> 199
Trp Val Xaa Gln Ala Pro Gly Lys Gly Leu Glu Trp Ile Ala
 1   5   10

<210> 200
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> VH FR2

<220>
<221> VARIANT
<222> 3
<223> Xaa = Arg or Lys

<220>
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<222> 4
<223> Xaa = Any Amino Acid

<400> 200
Trp Val Xaa Xaa Ala Pro Gly Lys Gly Leu Glu Trp Ile Ala
 1   5   10

<210> 201
<211> 14
<212> PRT
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<220>
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<221> VARIANT
<222> 3
<223> Xaa = Arg or Lys

<220>
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<223> Xaa = Any Amino Acid

<400> 201
Trp Val Xaa Gln Xaa Pro Gly Lys Gly Leu Glu Trp Ile Ala
 1   5   10

<210> 202
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
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<223> Xaa = Arg or Lys

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<222> 6
<223> Xaa = Any Amino Acid

<400> 202
Trp Val Xaa Gln Ala Xaa Gly Lys Gly Leu Glu Trp Ile Ala
 1   5   10

<210> 203
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
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<223> Xaa = Any Amino Acid

<400> 203
Trp Val Xaa Gln Ala Pro Xaa Lys Gly Leu Glu Trp Ile Ala
 1   5   10

<210> 204
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
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<223> Xaa = Arg or Lys

<220>
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<223> Xaa = Any Amino Acid

<400> 204
Trp Val Xaa Gln Ala Pro Gly Xaa Gly Leu Glu Trp Ile Ala
 1   5   10

<210> 205
<211> 14
<212> PRT
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<223> Xaa = Any Amino Acid

<400> 205
Trp Val Xaa Gln Ala Pro Gly Lys Xaa Leu Glu Trp Ile Ala
 1   5   10

<210> 206
<211> 14
<212> PRT
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<220>
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<400> 206
Trp Val Xaa Gln Ala Pro Gly Lys Gly Xaa Glu Trp Ile Ala
 1   5   10

<210> 207
<211> 14
<212> PRT
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<220>
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<400> 207
Trp Val Xaa Gln Ala Pro Gly Lys Gly Leu Xaa Trp Ile Ala
 1   5   10

<210> 208
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
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<223> Xaa = Any Amino Acid

<400> 208
Trp Val Xaa Gln Ala Pro Gly Lys Gly Leu Glu Xaa Ile Ala
 1   5   10

<210> 209
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
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<220>
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<400> 209
Trp Val Xaa Gln Ala Pro Gly Lys Gly Leu Glu Trp Xaa Ala
 1   5   10

<210> 210
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<212> PRT
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<220>
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<400> 210
Trp Val Xaa Gln Ala Pro Gly Lys Gly Leu Glu Trp Ile Xaa
 1   5   10

<210> 211
<211> 32
<212> PRT
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<220>
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<223> Xaa = Ile or Leu

<220>
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<222> 16
<223> Xaa = Glu or Gln

<220>
<221> VARIANT
<222> 25
<223> Xaa = Ser or Thr

<400> 211
Xaa Xaa Thr Xaa Thr Ala Asp Lys Ser Thr Ser Thr Ala Tyr Met Xaa
 1   5   10   15
Leu Ser Ser Leu Arg Ser Glu Asp Xaa Ala Val Tyr Phe Cys Ala Arg
            20   25   30

<210> 212
<211> 32
<212> PRT
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<220>
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<220>
<221> VARIANT
<222> 16
<223> Xaa = Glu or Gln

<220>
<221> VARIANT
<222> 25
<223> Xaa = Ser or Thr

<400> 212
Arg Xaa Thr Xaa Thr Ala Asp Lys Ser Thr Ser Thr Ala Tyr Met Xaa
 1   5   10   15
Leu Ser Ser Leu Arg Ser Glu Asp Xaa Ala Val Tyr Phe Cys Ala Arg
            20   25   30

<210> 213
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<223> Xaa = Ile or Leu

<220>
<221> VARIANT
<222> 16
<223> Xaa = Glu or Gln

<220>
<221> VARIANT
<222> 25
<223> Xaa = Ser or Thr

<400> 213
Arg Xaa Xaa Xaa Thr Ala Asp Lys Ser Thr Ser Thr Ala Tyr Met Xaa
 1   5   10   15
Leu Ser Ser Leu Arg Ser Glu Asp Xaa Ala Val Tyr Phe Cys Ala Arg
            20   25   30

<210> 214
<211> 32
<212> PRT
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<220>
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<222> 16
<223> Xaa = Glu or Gln

<220>
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<223> Xaa = Ser or Thr

<400> 214
Arg Xaa Thr Xaa Thr Ala Asp Lys Ser Thr Ser Thr Ala Tyr Met Xaa
 1   5   10   15
Leu Ser Ser Leu Arg Ser Glu Asp Xaa Ala Val Tyr Phe Cys Ala Arg
            20   25   30

<210> 215
<211> 32
<212> PRT
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<220>
<221> VARIANT
<222> 16
<223> Xaa = Glu or Gln

<220>
<221> VARIANT
<222> 25
<223> Xaa = Ser or Thr

<400> 215
Arg Xaa Thr Xaa Xaa Ala Asp Lys Ser Thr Ser Thr Ala Tyr Met Xaa
 1   5   10   15
Leu Ser Ser Leu Arg Ser Glu Asp Xaa Ala Val Tyr Phe Cys Ala Arg
            20   25   30

<210> 216
<211> 32
<212> PRT
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<220>
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<222> 16
<223> Xaa = Glu or Gln

<220>
<221> VARIANT
<222> 25
<223> Xaa = Ser or Thr

<400> 216
Arg Xaa Thr Xaa Thr Xaa Asp Lys Ser Thr Ser Thr Ala Tyr Met Xaa
 1   5   10   15
Leu Ser Ser Leu Arg Ser Glu Asp Xaa Ala Val Tyr Phe Cys Ala Arg
            20   25   30

<210> 217

<211> 32
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<220>
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<223> Xaa = Glu or Gln

<220>
<221> VARIANT
<222> 25
<223> Xaa = Ser or Thr

<400> 217
Arg Xaa Thr Xaa Thr Ala Xaa Lys Ser Thr Ser Thr Ala Tyr Met Xaa
 1   5   10   15
Leu Ser Ser Leu Arg Ser Glu Asp Xaa Ala Val Tyr Phe Cys Ala Arg
            20   25   30

<210> 218
<211> 32
<212> PRT
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<220>
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<220>

<221> VARIANT
<222> 25
<223> Xaa = Ser or Thr

<400> 218
Arg Xaa Thr Xaa Thr Ala Asp Xaa Ser Thr Ser Thr Ala Tyr Met Xaa
 1   5   10   15
Leu Ser Ser Leu Arg Ser Glu Asp Xaa Ala Val Tyr Phe Cys Ala Arg
            20   25   30

<210> 219
<211> 32
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<220>
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<222> 25
<223> Xaa = Ser or Thr

<400> 219
Arg Xaa Thr Xaa Thr Ala Asp Lys Xaa Thr Ser Thr Ala Tyr Met Xaa
 1   5   10   15
Leu Ser Ser Leu Arg Ser Glu Asp Xaa Ala Val Tyr Phe Cys Ala Arg
            20   25   30

<210> 220
<211> 32
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<220>
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<223> Xaa = Ser or Thr

<400> 220
Arg Xaa Thr Xaa Thr Ala Asp Lys Ser Xaa Ser Thr Ala Tyr Met Xaa
 1   5   10   15
Leu Ser Ser Leu Arg Ser Glu Asp Xaa Ala Val Tyr Phe Cys Ala Arg
            20   25   30

<210> 221
<211> 32
<212> PRT
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<223> Xaa = Glu or Gln

<220>
<221> VARIANT
<222> 25
<223> Xaa = Ser or Thr

<400> 221
Arg Xaa Thr Xaa Thr Ala Asp Lys Ser Thr Xaa Thr Ala Tyr Met Xaa
 1   5   10   15
Leu Ser Ser Leu Arg Ser Glu Asp Xaa Ala Val Tyr Phe Cys Ala Arg
            20   25   30

<210> 222
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<220>
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<220>
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<222> 25
<223> Xaa = Ser or Thr

<400> 222
Arg Xaa Thr Xaa Thr Ala Asp Lys Ser Thr Ser Xaa Ala Tyr Met Xaa
 1   5   10   15
Leu Ser Ser Leu Arg Ser Glu Asp Xaa Ala Val Tyr Phe Cys Ala Arg
            20   25   30

<210> 223
<211> 32
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<220>
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<220>
<221> VARIANT
<222> 16
<223> Xaa = Glu or Gln

<220>
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<222> 25
<223> Xaa = Ser or Thr

<400> 223
Arg Xaa Thr Xaa Thr Ala Asp Lys Ser Thr Ser Thr Xaa Tyr Met Xaa
 1   5   10   15
Leu Ser Ser Leu Arg Ser Glu Asp Xaa Ala Val Tyr Phe Cys Ala Arg
            20   25   30

<210> 224
<211> 32
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<213> Artificial Sequence

<220>
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<220>
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<221> VARIANT
<222> 16
<223> Xaa = Glu or Gln

<220>
<221> VARIANT
<222> 25
<223> Xaa = Ser or Thr

<400> 224
Arg Xaa Thr Xaa Thr Ala Asp Lys Ser Thr Ser Thr Ala Xaa Met Xaa
 1   5   10   15
Leu Ser Ser Leu Arg Ser Glu Asp Xaa Ala Val Tyr Phe Cys Ala Arg
            20   25   30

<210> 225
<211> 32
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<220>
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<220>
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<223> Xaa = Ile or Leu

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<223> Xaa = Any Amino Acid

<220>
<221> VARIANT
<222> 16
<223> Xaa = Glu or Gln

<220>
<221> VARIANT
<222> 25
<223> Xaa = Ser or Thr

<400> 225
Arg Xaa Thr Xaa Thr Ala Asp Lys Ser Thr Ser Thr Ala Tyr Xaa Xaa
 1   5   10   15
Leu Ser Ser Leu Arg Ser Glu Asp Xaa Ala Val Tyr Phe Cys Ala Arg
            20   25   30

<210> 226
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> VH FR3

<220>
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<400> 226
Arg Xaa Thr Xaa Thr Ala Asp Lys Ser Thr Ser Thr Ala Tyr Met Xaa
 1   5   10   15
Leu Ser Ser Leu Arg Ser Glu Asp Xaa Ala Val Tyr Phe Cys Ala Arg
            20   25   30

<210> 227
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<220>
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<220>
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<222> 25
<223> Xaa = Ser or Thr

<400> 227
Arg Xaa Thr Xaa Thr Ala Asp Lys Ser Thr Ser Thr Ala Tyr Met Xaa
 1   5   10   15
Xaa Ser Ser Leu Arg Ser Glu Asp Xaa Ala Val Tyr Phe Cys Ala Arg
            20   25   30

<210> 228
<211> 32
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<220>
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<400> 228
Arg Xaa Thr Xaa Thr Ala Asp Lys Ser Thr Ser Thr Ala Tyr Met Xaa
 1   5   10   15
Leu Xaa Ser Leu Arg Ser Glu Asp Xaa Ala Val Tyr Phe Cys Ala Arg
            20   25   30

<210> 229
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<400> 229
Arg Xaa Thr Xaa Thr Ala Asp Lys Ser Thr Ser Thr Ala Tyr Met Xaa
 1   5   10   15
Leu Ser Xaa Leu Arg Ser Glu Asp Xaa Ala Val Tyr Phe Cys Ala Arg
            20   25   30

<210> 230
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<222> 25
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<400> 230
Arg Xaa Thr Xaa Thr Ala Asp Lys Ser Thr Ser Thr Ala Tyr Met Xaa
 1   5   10   15
Leu Ser Ser Xaa Arg Ser Glu Asp Xaa Ala Val Tyr Phe Cys Ala Arg
            20   25   30

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<400> 231
Arg Xaa Thr Xaa Thr Ala Asp Lys Ser Thr Ser Thr Ala Tyr Met Xaa
 1   5   10   15
Leu Ser Ser Leu Xaa Ser Glu Asp Xaa Ala Val Tyr Phe Cys Ala Arg
            20   25   30

<210> 232
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<223> Xaa = Ser or Thr

<400> 232
Arg Xaa Thr Xaa Thr Ala Asp Lys Ser Thr Ser Thr Ala Tyr Met Xaa
 1   5   10   15
Leu Ser Ser Leu Arg Xaa Glu Asp Xaa Ala Val Tyr Phe Cys Ala Arg
            20   25   30

<210> 233
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<223> Xaa = Ser or Thr

<400> 233
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 1   5   10   15
Leu Ser Ser Leu Arg Ser Xaa Asp Xaa Ala Val Tyr Phe Cys Ala Arg
            20   25   30

<210> 234
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<222> 25
<223> Xaa = Ser or Thr

<400> 234
Arg Xaa Thr Xaa Thr Ala Asp Lys Ser Thr Ser Thr Ala Tyr Met Xaa
 1   5   10   15
Leu Ser Ser Leu Arg Ser Glu Xaa Xaa Ala Val Tyr Phe Cys Ala Arg
            20   25   30

<210> 235
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<220>
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<223> Xaa = Any Amino Acid

<400> 235
Arg Xaa Thr Xaa Thr Ala Asp Lys Ser Thr Ser Thr Ala Tyr Met Xaa
 1   5   10   15
Leu Ser Ser Leu Arg Ser Glu Asp Xaa Ala Val Tyr Phe Cys Ala Arg
            20   25   30

<210> 236
<211> 32
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<223> Xaa = Ser or Thr

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<400> 236
Arg Xaa Thr Xaa Thr Ala Asp Lys Ser Thr Ser Thr Ala Tyr Met Xaa
 1   5   10   15
Leu Ser Ser Leu Arg Ser Glu Asp Xaa Xaa Val Tyr Phe Cys Ala Arg
            20   25   30

<210> 237
<211> 32
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<220>
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<400> 237
Arg Xaa Thr Xaa Thr Ala Asp Lys Ser Thr Ser Thr Ala Tyr Met Xaa
 1   5   10   15
Leu Ser Ser Leu Arg Ser Glu Asp Xaa Ala Xaa Tyr Phe Cys Ala Arg
            20   25   30

<210> 238
<211> 32
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<400> 238
Arg Xaa Thr Xaa Thr Ala Asp Lys Ser Thr Ser Thr Ala Tyr Met Xaa
 1   5   10   15
Leu Ser Ser Leu Arg Ser Glu Asp Xaa Ala Val Xaa Phe Cys Ala Arg
            20   25   30

<210> 239
<211> 32
<212> PRT
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<220>
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<400> 239
Arg Xaa Thr Xaa Thr Ala Asp Lys Ser Thr Ser Thr Ala Tyr Met Xaa
 1   5   10   15
Leu Ser Ser Leu Arg Ser Glu Asp Xaa Ala Val Tyr Xaa Cys Ala Arg
            20   25   30

<210> 240
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
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<220>
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<220>
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<400> 240
Arg Xaa Thr Xaa Thr Ala Asp Lys Ser Thr Ser Thr Ala Tyr Met Xaa
 1   5   10   15
Leu Ser Ser Leu Arg Ser Glu Asp Xaa Ala Val Tyr Phe Xaa Ala Arg
            20   25   30

<210> 241
<211> 32
<212> PRT

<213> Artificial Sequence

<220>
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<220>
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<220>
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<220>
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<400> 241
Arg Xaa Thr Xaa Thr Ala Asp Lys Ser Thr Ser Thr Ala Tyr Met Xaa
 1   5   10   15
Leu Ser Ser Leu Arg Ser Glu Asp Xaa Ala Val Tyr Phe Cys Xaa Arg
            20   25   30

<210> 242
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
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<220>
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<223> Xaa = Any Amino Acid

<400> 242
Arg Xaa Thr Xaa Thr Ala Asp Lys Ser Thr Ser Thr Ala Tyr Met Xaa
 1   5   10   15
Leu Ser Ser Leu Arg Ser Glu Asp Xaa Ala Val Tyr Phe Cys Ala Xaa
            20   25   30

<210> 243
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
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<220>
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<400> 243
Xaa Gly Gln Gly Thr Thr Val Thr Val Ser Ser
 1   5   10

<210> 244
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> VH FR4

<220>
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<400> 244
Trp Xaa Gln Gly Thr Thr Val Thr Val Ser Ser
 1   5   10

<210> 245
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> VH FR4

<220>
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<400> 245
Trp Gly Xaa Gly Thr Thr Val Thr Val Ser Ser
 1   5   10

<210> 246
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> VH FR4

<220>
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<400> 246
Trp Gly Gln Xaa Thr Thr Val Thr Val Ser Ser
 1   5   10

<210> 247
<211> 11
<212> PRT
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<220>
<223> VH FR4

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<400> 247
Trp Gly Gln Gly Xaa Thr Val Thr Val Ser Ser
 1   5   10

<210> 248
<211> 11
<212> PRT
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<220>
<223> VH FR4

<220>
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<400> 248
Trp Gly Gln Gly Thr Xaa Val Thr Val Ser Ser
 1   5   10

<210> 249
<211> 11
<212> PRT
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<220>
<223> VH FR4

<220>
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<400> 249
Trp Gly Gln Gly Thr Thr Xaa Thr Val Ser Ser
 1   5   10

<210> 250

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

<220>
<223> VH FR4

<220>
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<400> 250
Trp Gly Gln Gly Thr Thr Val Xaa Val Ser Ser
 1   5   10

<210> 251
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> VH FR4

<220>
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<223> Xaa = Any Amino Acid

<400> 251
Trp Gly Gln Gly Thr Thr Val Thr Xaa Ser Ser
 1   5   10

<210> 252
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<212> PRT
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<220>
<223> VH FR4

<220>
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<400> 252
Trp Gly Gln Gly Thr Thr Val Thr Val Xaa Ser
 1   5   10

<210> 253
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> VH FR4

<220>
<221> VARIANT
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<400> 253
Trp Gly Gln Gly Thr Thr Val Thr Val Ser Xaa

1 5 10

<210> 254
<211> 23
<212> PRT
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<220>
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<220>
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<220>
<221> VARIANT
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<223> Xaa = Phe or Ser

<400> 254
Xaa Ile Val Met Thr Gln Ser Pro Ser Xaa Leu Ser Ala Ser Val Gly
1 5 10 15
Asp Arg Val Thr Ile Thr Cys
20

<210> 255
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
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<220>
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<223> Xaa = Any Amino Acid

<220>
<221> VARIANT
<222> 10
<223> Xaa = Phe or Ser

<400> 255
Asp Xaa Val Met Thr Gln Ser Pro Ser Xaa Leu Ser Ala Ser Val Gly
1 5 10 15
Asp Arg Val Thr Ile Thr Cys
20

<210> 256
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
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<220>
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<220>
<221> VARIANT

<222> 10
<223> Xaa = Phe or Ser

<400> 256
Asp Ile Xaa Met Thr Gln Ser Pro Ser Xaa Leu Ser Ala Ser Val Gly
 1   5   10   15
Asp Arg Val Thr Ile Thr Cys
            20

<210> 257
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
<223> VL FR1

<220>
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<223> Xaa = Any Amino Acid

<220>
<221> VARIANT
<222> 10
<223> Xaa = Phe or Ser

<400> 257
Asp Ile Val Xaa Thr Gln Ser Pro Ser Xaa Leu Ser Ala Ser Val Gly
 1   5   10   15
Asp Arg Val Thr Ile Thr Cys
            20

<210> 258
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
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<220>
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<223> Xaa = Any Amino Acid

<220>
<221> VARIANT
<222> 10
<223> Xaa = Phe or Ser

<400> 258
Asp Ile Val Met Xaa Gln Ser Pro Ser Xaa Leu Ser Ala Ser Val Gly
 1   5   10   15
Asp Arg Val Thr Ile Thr Cys
            20

<210> 259
<211> 23
<212> PRT
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<220>
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<220>
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<223> Xaa = Any Amino Acid

<220>
<221> VARIANT
<222> 10
<223> Xaa = Phe or Ser

<400> 259
Asp Ile Val Met Thr Xaa Ser Pro Ser Xaa Leu Ser Ala Ser Val Gly
 1   5   10   15
Asp Arg Val Thr Ile Thr Cys
            20

<210> 260
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
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<220>
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<223> Xaa = Any Amino Acid

<220>
<221> VARIANT
<222> 10
<223> Xaa = Phe or Ser

<400> 260
Asp Ile Val Met Thr Gln Xaa Pro Ser Xaa Leu Ser Ala Ser Val Gly
 1   5   10   15
Asp Arg Val Thr Ile Thr Cys
            20

<210> 261
<211> 23
<212> PRT
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<220>
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<220>
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<220>
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<222> 10
<223> Xaa = Phe or Ser

<400> 261
Asp Ile Val Met Thr Gln Ser Xaa Ser Xaa Leu Ser Ala Ser Val Gly
 1   5   10   15
Asp Arg Val Thr Ile Thr Cys
            20

<210> 262

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

<220>
<223> VL FR1

<220>
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<223> Xaa = Any Amino Acid

<220>
<221> VARIANT
<222> 10
<223> Xaa = Phe or Ser

<400> 262
Asp Ile Val Met Thr Gln Ser Pro Xaa Xaa Leu Ser Ala Ser Val Gly
 1   5   10   15
Asp Arg Val Thr Ile Thr Cys
            20

<210> 263
<211> 23
<212> PRT
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<220>
<223> VL FR1

<220>
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<223> Xaa = Any Amino Acid

<400> 263
Asp Ile Val Met Thr Gln Ser Pro Ser Xaa Leu Ser Ala Ser Val Gly
 1   5   10   15
Asp Arg Val Thr Ile Thr Cys
            20

<210> 264
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
<223> VL FR1

<220>
<221> VARIANT
<222> 10
<223> Xaa = Phe or Ser

<220>
<221> VARIANT
<222> 11
<223> Xaa = Any Amino Acid

<400> 264
Asp Ile Val Met Thr Gln Ser Pro Ser Xaa Xaa Ser Ala Ser Val Gly
 1   5   10   15
Asp Arg Val Thr Ile Thr Cys
            20

<210> 265
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
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<220>
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<222> 10
<223> Xaa = Phe or Ser

<220>
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<222> 12
<223> Xaa = Any Amino Acid

<400> 265
Asp Ile Val Met Thr Gln Ser Pro Ser Xaa Leu Xaa Ala Ser Val Gly
 1   5   10   15
Asp Arg Val Thr Ile Thr Cys
            20

<210> 266
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
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<220>
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<222> 10
<223> Xaa = Phe or Ser

<220>
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<222> 13
<223> Xaa = Any Amino Acid

<400> 266
Asp Ile Val Met Thr Gln Ser Pro Ser Xaa Leu Ser Xaa Ser Val Gly
 1   5   10   15
Asp Arg Val Thr Ile Thr Cys
            20

<210> 267
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
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<220>
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<222> 10
<223> Xaa = Phe or Ser

<220>
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<222> 14
<223> Xaa = Any Amino Acid

<400> 267
Asp Ile Val Met Thr Gln Ser Pro Ser Xaa Leu Ser Ala Xaa Val Gly
 1   5   10   15
Asp Arg Val Thr Ile Thr Cys
            20

<210> 268
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
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<220>
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<222> 10
<223> Xaa = Phe or Ser

<220>
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<222> 15
<223> Xaa = Any Amino Acid

<400> 268
Asp Ile Val Met Thr Gln Ser Pro Ser Xaa Leu Ser Ala Ser Xaa Gly
 1   5   10   15
Asp Arg Val Thr Ile Thr Cys
            20

<210> 269
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
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<220>
<221> VARIANT
<222> 10
<223> Xaa = Phe or Ser

<220>
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<222> 16
<223> Xaa = Any Amino Acid

<400> 269
Asp Ile Val Met Thr Gln Ser Pro Ser Xaa Leu Ser Ala Ser Val Xaa
 1   5   10   15
Asp Arg Val Thr Ile Thr Cys
            20

<210> 270
<211> 23
<212> PRT
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<220>
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<220>
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<222> 10
<223> Xaa = Phe or Ser

<220>
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<222> 17
<223> Xaa = Any Amino Acid

<400> 270
Asp Ile Val Met Thr Gln Ser Pro Ser Xaa Leu Ser Ala Ser Val Gly
 1   5   10   15
Xaa Arg Val Thr Ile Thr Cys
            20

<210> 271
<211> 23
<212> PRT
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<220>
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<220>
<221> VARIANT
<222> 10
<223> Xaa = Phe or Ser

<220>
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<222> 18
<223> Xaa = Any Amino Acid

<400> 271
Asp Ile Val Met Thr Gln Ser Pro Ser Xaa Leu Ser Ala Ser Val Gly
 1   5   10   15
Asp Xaa Val Thr Ile Thr Cys
            20

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Asp Arg Xaa Thr Ile Thr Cys
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Asp Arg Val Xaa Ile Thr Cys
            20

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<400> 274
Asp Ile Val Met Thr Gln Ser Pro Ser Xaa Leu Ser Ala Ser Val Gly
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Asp Arg Val Thr Xaa Thr Cys
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 1   5   10   15

Asp Arg Val Thr Ile Xaa Cys
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<400> 276
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1 5 10 15
Asp Arg Val Thr Ile Thr Xaa
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1 5 10 15

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<400> 278
Trp Xaa Gln Gln Lys Pro Gly Lys Ala Pro Lys Xaa Leu Ile Tyr
 1   5   10   15

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<400> 279
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 1   5   10   15

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Trp Tyr Gln Xaa Lys Pro Gly Lys Ala Pro Lys Xaa Leu Ile Tyr
 1   5   10   15

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<400> 281
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<400> 282
Trp Tyr Gln Gln Lys Xaa Gly Lys Ala Pro Lys Xaa Leu Ile Tyr
 1   5   10   15

<210> 283
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<400> 283
Trp Tyr Gln Gln Lys Pro Xaa Lys Ala Pro Lys Xaa Leu Ile Tyr
 1   5   10   15

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 1   5   10   15

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<400> 285
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 1   5   10   15

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<400> 286
Trp Tyr Gln Gln Lys Pro Gly Lys Ala Xaa Lys Xaa Leu Ile Tyr
 1   5   10   15

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<211> 15
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<400> 287
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 1   5   10   15

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 1   5   10   15

<210> 290
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 1   5   10   15

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 1   5   10   15

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<400> 292
Xaa Val Pro Asp Arg Phe Xaa Gly Ser Gly Ser Gly Thr Asp Phe Thr
 1   5   10   15
Leu Thr Ile Ser Ser Leu Gln Xaa Glu Asp Phe Ala Xaa Tyr Xaa Cys
            20   25   30

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<400> 293
Gly Xaa Pro Asp Arg Phe Xaa Gly Ser Gly Ser Gly Thr Asp Phe Thr
1 5 10 15
Leu Thr Ile Ser Ser Leu Gln Xaa Glu Asp Phe Ala Xaa Tyr Xaa Cys
20 25 30

<210> 294
<211> 32
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<400> 294
Gly Val Xaa Asp Arg Phe Xaa Gly Ser Gly Ser Gly Thr Asp Phe Thr
1 5 10 15
Leu Thr Ile Ser Ser Leu Gln Xaa Glu Asp Phe Ala Xaa Tyr Xaa Cys
20 25 30

<210> 295
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1 5 10 15
Leu Thr Ile Ser Ser Leu Gln Xaa Glu Asp Phe Ala Xaa Tyr Xaa Cys
20 25 30

<210> 296
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1 5 10 15
Leu Thr Ile Ser Ser Leu Gln Xaa Glu Asp Phe Ala Xaa Tyr Xaa Cys
20 25 30

<210> 297
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Gly Val Pro Asp Arg Xaa Xaa Gly Ser Gly Ser Gly Thr Asp Phe Thr
1 5 10 15
Leu Thr Ile Ser Ser Leu Gln Xaa Glu Asp Phe Ala Xaa Tyr Xaa Cys
20 25 30

<210> 298
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Gly Val Pro Asp Arg Phe Xaa Gly Ser Gly Ser Gly Thr Asp Phe Thr
 1   5   10   15
Leu Thr Ile Ser Ser Leu Gln Xaa Glu Asp Phe Ala Xaa Tyr Xaa Cys
            20   25   30

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<400> 299
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1 5 10 15
Leu Thr Ile Ser Ser Leu Gln Xaa Glu Asp Phe Ala Xaa Tyr Xaa Cys
20 25 30

<210> 300
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20 25 30

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<400> 301
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Leu Thr Ile Ser Ser Leu Gln Xaa Glu Asp Phe Ala Xaa Tyr Xaa Cys
20 25 30

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1 5 10 15
Leu Thr Ile Ser Ser Leu Gln Xaa Glu Asp Phe Ala Xaa Tyr Xaa Cys
20 25 30

<210> 303
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<400> 303
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1 5 10 15
Leu Thr Ile Ser Ser Leu Gln Xaa Glu Asp Phe Ala Xaa Tyr Xaa Cys
20 25 30

<210> 304
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Gly Val Pro Asp Arg Phe Xaa Gly Ser Gly Ser Gly Xaa Asp Phe Thr

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Leu Thr Ile Ser Ser Leu Gln Xaa Glu Asp Phe Ala Xaa Tyr Xaa Cys
            20                  25                  30


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


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

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20 25 30

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Xaa Thr Ile Ser Ser Leu Gln Xaa Glu Asp Phe Ala Xaa Tyr Xaa Cys
20 25 30

<210> 309
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20 25 30

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20 25 30

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<400> 321
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<400> 323
Gly Val Pro Asp Arg Phe Xaa Gly Ser Gly Ser Gly Thr Asp Phe Thr
 1   5   10   15
Leu Thr Ile Ser Ser Leu Gln Xaa Glu Asp Phe Ala Xaa Tyr Xaa Xaa
            20   25   30

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 1   5   10

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 1   5   10

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 1   5   10

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 1   5   10

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 1   5   10

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Phe Gly Gly Gly Thr Lys Val Glu Xaa Lys
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