SEQUENCE LISTING

<110> Igenica Biotherapeutics, Inc.

<120> ANTI-C10ORF54 ANTIBODIES AND USES THEREOF

<130> 13390-011-228

<140> TBA
<141> 2014-06-05

<150> 61/934,615
<151> 2014-01-31

<150> 61/832,135
<151> 2013-06-06

<160> 1153

<170> FastSEQ for Windows Version 4.0

<210> 1
<211> 118
<212> PRT
<213> Murine

<220>
<223> Murine antibody 76E1 VH domain

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

<210> 2
<211> 121
<212> PRT
<213> Murine

<220>
<223> Murine antibody 141A VH domain

<400> 2
Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Leu Met Lys Pro Gly Ala
 1   5   10   15
Ser Val Lys Ile Ser Cys Lys Ala Thr Gly Tyr Thr Phe Ser Arg Tyr
            20   25   30
Trp Ile Glu Trp Val Lys Gln Arg Pro Gly His Gly Leu Glu Trp Ile
        35   40   45
Gly Glu Ile Leu Pro Gly Ser Gly Ser Thr Asn Tyr Asn Glu Lys Phe
    50   55   60
Lys Gly Lys Ala Thr Phe Thr Ala Asp Thr Ser Ser Asn Thr Ala Tyr
65   70   75   80

Met Gln Leu Ser Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr Tyr Cys
85 90 95
Ala Gly Glu Glu Val Tyr Asp Gly Tyr Pro Trp Phe Gly Tyr Trp Gly
100 105 110
Gln Gly Thr Leu Val Thr Val Ser Ala
115 120

<210> 3
<211> 119
<212> PRT
<213> Murine

<220>
<223> Murine antibody 175A VH domain

<400> 3
Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Leu Met Lys Pro Gly Ala
1 5 10 15
Ser Val Lys Ile Ser Cys Lys Ala Thr Gly Tyr Thr Phe Ser Thr His
20 25 30
Trp Ile Glu Trp Val Lys Gln Arg Pro Gly His Gly Leu Glu Trp Ile
35 40 45
Gly Glu Ile Leu Pro Gly Ser Gly Ser Thr Ser Tyr Asn Glu Lys Phe
50 55 60
Lys Gly Lys Ala Thr Phe Thr Ala Asp Thr Ser Ser Asn Thr Ala Tyr
65 70 75 80
Met Gln Leu Ser Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr Tyr Cys
85 90 95
Ala Arg Trp Leu Leu Tyr Tyr Tyr Ala Met Asp Tyr Trp Gly Gln Gly
100 105 110
Thr Ser Val Thr Val Ser Ser
115

<210> 4
<211> 112
<212> PRT
<213> Murine

<220>
<223> Murine antibody 76E1 VL domain

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

<210> 5
<211> 106
<212> PRT
<213> Murine

<220>
<223> Murine antibody 141A VL domain

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

<210> 6
<211> 112
<212> PRT
<213> Murine

<220>
<223> Murine antibody 175A VH domain

<400> 6
Asp Val Leu Met Thr Gln Thr Pro Leu Ser Leu Pro Val Ser Leu Gly
 1   5   10   15
Asp Gln Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Ile Val His Ser
            20   25   30
Asn Gly Asn Thr Tyr Leu Glu Trp Tyr Leu Gln Lys Pro Gly Gln Ser
        35   40   45
Pro Lys Leu Leu Ile Tyr Lys Leu Ser Asn Arg Phe Ser Gly Val Pro
    50   55   60
Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile
65   70   75   80
Ser Arg Val Glu Ala Glu Asp Leu Gly Val Tyr Tyr Cys Phe Gln Gly
                85   90   95
Ser His Phe Pro Tyr Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
            100   105   110

<210> 7
<211> 98
<212> PRT
<213> Homo sapiens

<220>
<223> Human germline Immunoglobulin (IMGT IGHV1-18) Heavy chain

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

<210> 8

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

<220>
<223> Human germline Immunoglobulin (IMGT IGHV3-48) Heavy chain

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

<210> 9
<211> 100
<212> PRT
<213> Homo sapiens

<220>
<223> Human germline Immunoglobulin (IMGT IGKV2-28) light chain

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

<210> 10
<211> 95
<212> PRT
<213> Homo sapiens

<220>
<223> Human germline Immunoglobulin (IMGT IGKV1-39) light chain

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

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

<210> 11
<211> 96
<212> PRT
<213> Homo sapiens

<220>
<223> Human germline Immunoglobulin (IMGT IGKV3-20) light chain

<400> 11
Glu Ile Val Leu Thr Gln Ser Pro Gly Thr Leu Ser Leu Ser Pro Gly
1 5 10 15
Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Ser Ser Ser
20 25 30
Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu
35 40 45
Ile Tyr Gly Ala Ser Ser Arg Ala Thr Gly Ile Pro Asp Arg Phe Ser
50 55 60
Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Arg Leu Glu
65 70 75 80
Pro Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Gly Ser Ser Pro
85 90 95

<210> 12
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody VH domain

<400> 12
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 Ser Phe Thr Gly Tyr
20 25 30
Asn Met Asn Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
35 40 45
Gly Asn Ile Asp Pro Tyr Tyr Asp Tyr Thr Ser Tyr Asn Leu Lys Phe
50 55 60
Lys Asp Arg Val Thr Met Thr Thr Asp Thr Ser Thr Ser Thr Ala Tyr
65 70 75 80
Met Glu Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys
85 90 95
Ala Arg Ser Thr Met Ile Thr Pro Phe Asp Tyr Trp Gly Gln Gly Thr
100 105 110
Leu Val Thr Val Ser Ser
115

<210> 13
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody VH domain

<400> 13
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 Ser Phe Thr Gly Tyr
20 25 30
Asn Met Asn Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met

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


<210> 14
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody VH domain

<400> 14
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1               5                  10                  15
Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Tyr Ser Phe Thr Gly Tyr
            20                  25                  30
Asn Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
        35                  40                  45
Ser Asn Ile Asp Pro Tyr Tyr Asp Tyr Thr Ser Tyr Asn Leu Lys Phe
    50                  55                  60
Lys Asp Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr
65                  70                  75                  80
Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
                85                  90                  95
Ala Arg Ser Thr Met Ile Thr Pro Phe Asp Tyr Trp Gly Gln Gly Thr
            100                 105                 110
Leu Val Thr Val Ser Ser
        115


<210> 15
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody VH domain

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


<210> 16
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<211> 121
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody VH domain

<400> 16
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 Ser Arg Tyr
            20   25   30
Trp Ile Glu Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
        35   40   45
Gly Glu Ile Leu Pro Gly Ser Gly Ser Thr Asn Tyr Asn Glu Lys Phe
    50   55   60
Lys Gly Arg Val Thr Met Thr Thr Asp Thr Ser Thr Ser Thr Ala Tyr
65   70   75   80
Met Glu Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys
                85   90   95
Ala Arg Glu Glu Val Tyr Asp Gly Tyr Pro Trp Phe Gly Tyr Trp Gly
            100   105   110
Gln Gly Thr Leu Val Thr Val Ser Ser
        115   120

<210> 17
<211> 121
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody VH domain

<400> 17
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 Ser Arg Tyr
            20   25   30
Trp Ile Glu Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
        35   40   45
Gly Glu Ile Leu Pro Gly Ser Gly Ser Thr Asn Tyr Ala Gln Lys Leu
    50   55   60
Gln Gly Arg Val Thr Met Thr Thr Asp Thr Ser Thr Ser Thr Ala Tyr
65   70   75   80
Met Glu Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys
                85   90   95
Ala Arg Glu Glu Val Tyr Asp Gly Tyr Pro Trp Phe Gly Tyr Trp Gly
            100   105   110
Gln Gly Thr Leu Val Thr Val Ser Ser
        115   120

<210> 18
<211> 121
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody VH domain

<400> 18
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1   5   10   15
Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Tyr Thr Phe Ser Arg Tyr
            20   25   30
Trp Ile Glu Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
        35   40   45

Ser Glu Ile Leu Pro Gly Ser Gly Ser Thr Asn Tyr Asn Glu Lys Phe
50 55 60
Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr
65 70 75 80
Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95
Ala Arg Glu Glu Val Tyr Asp Gly Tyr Pro Trp Phe Gly Tyr Trp Gly
100 105 110
Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 19
<211> 121
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody VH domain

<400> 19
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15
Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Tyr Thr Phe Ser Arg Tyr
20 25 30
Trp Ile Glu Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
35 40 45
Ser Glu Ile Leu Pro Gly Ser Gly Ser Thr Asn Tyr Ala Asp Ser Val
50 55 60
Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr
65 70 75 80
Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95
Ala Arg Glu Glu Val Tyr Asp Gly Tyr Pro Trp Phe Gly Tyr Trp Gly
100 105 110
Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 20
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody VH domain

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

<210> 21
<211> 119

<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody VH domain

<400> 21
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 Ser Thr His
            20   25   30
Trp Ile Glu Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
        35   40   45
Gly Glu Ile Leu Pro Gly Ser Gly Ser Thr Ser Tyr Ala Gln Lys Leu
    50   55   60
Gln Gly Arg Val Thr Met Thr Thr Asp Thr Ser Thr Ser Thr Ala Tyr
65   70   75   80
Met Glu Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys
                85   90   95
Ala Arg Trp Leu Leu Tyr Tyr Tyr Ala Met Asp Tyr Trp Gly Gln Gly
            100   105   110
Thr Leu Val Thr Val Ser Ser
        115

<210> 22
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody VH domain

<400> 22
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1   5   10   15
Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Tyr Thr Phe Ser Thr His
            20   25   30
Trp Ile Glu Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
        35   40   45
Ser Glu Ile Leu Pro Gly Ser Gly Ser Thr Ser Tyr Asn Glu Lys Phe
    50   55   60
Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr
65   70   75   80
Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
                85   90   95
Ala Arg Trp Leu Leu Tyr Tyr Tyr Ala Met Asp Tyr Trp Gly Gln Gly
            100   105   110
Thr Leu Val Thr Val Ser Ser
        115

<210> 23
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody VH domain

<400> 23
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1   5   10   15
Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Tyr Thr Phe Ser Thr His
            20   25   30
Trp Ile Glu Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
        35   40   45
Ser Glu Ile Leu Pro Gly Ser Gly Ser Thr Ser Tyr Ala Asp Ser Val

50 55 60
Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr
65 70 75 80
Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95
Ala Arg Trp Leu Leu Tyr Tyr Tyr Ala Met Asp Tyr Trp Gly Gln Gly
100 105 110
Thr Leu Val Thr Val Ser Ser
115

<210> 24
<211> 112
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody VL domain

<400> 24
Asp Ile Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro Gly
1 5 10 15
Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Ile Val His Ser
20 25 30
Asn Gly Asn Thr Tyr Leu Glu Trp Tyr Leu Gln Lys Pro Gly Gln Ser
35 40 45
Pro Gln Leu Leu Ile Tyr Lys Val Ser Asn Arg Phe Ser Gly Val Pro
50 55 60
Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile
65 70 75 80
Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Phe Gln Gly
85 90 95
Ser His Val Pro Trp Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
100 105 110

<210> 25
<211> 112
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody VL domain

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

<210> 26
<211> 106
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody VL domain

<400> 26
Glu Ile Val Leu Thr Gln Ser Pro Gly Thr Leu Ser Leu Ser Pro Gly
 1   5   10   15
Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Ser Ser Leu Ser Tyr Met
            20   25   30
His Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile Tyr
        35   40   45
Ala Thr Ser Asn Leu Ala Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser
    50   55   60
Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Arg Leu Glu Pro Glu
65   70   75   80
Asp Phe Ala Val Tyr Tyr Cys Gln Gln Trp Ser Ser Asn Pro Tyr Thr
                85   90   95
Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
            100   105

<210> 27
<211> 106
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody VL domain

<400> 27
Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
 1   5   10   15
Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Ser Ser Leu Ser Tyr Met
            20   25   30
His Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile Tyr
        35   40   45
Ala Thr Ser Asn Leu Ala Ser Gly Val Pro Ser Arg Phe Ser Gly Ser
    50   55   60
Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro Glu
65   70   75   80
Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Trp Ser Ser Asn Pro Tyr Thr
                85   90   95
Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
            100   105

<210> 28
<211> 112
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody VL domain

<400> 28
Asp Ile Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro Gly
 1   5   10   15
Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Ile Val His Ser
            20   25   30
Asn Gly Asn Thr Tyr Leu Glu Trp Tyr Leu Gln Lys Pro Gly Gln Ser
        35   40   45
Pro Gln Leu Leu Ile Tyr Lys Leu Ser Asn Arg Phe Ser Gly Val Pro
    50   55   60
Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile
65   70   75   80
Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Phe Gln Gly
                85   90   95
Ser His Phe Pro Tyr Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
            100   105   110

<210> 29
<211> 112
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody VL domain

<400> 29
Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
 1   5   10   15
Asp Arg Val Thr Ile Thr Cys Arg Ser Ser Gln Ser Ile Val His Ser
            20   25   30
Asn Gly Asn Thr Tyr Leu Glu Trp Tyr Gln Gln Lys Pro Gly Lys Ala
        35   40   45
Pro Lys Leu Leu Ile Tyr Lys Leu Ser Asn Arg Phe Ser Gly Val Pro
    50   55   60
Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile
65   70   75   80
Ser Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Phe Gln Gly
                85   90   95
Ser His Phe Pro Tyr Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
            100   105   110

<210> 30
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH1a VH CDR1

<400> 30
Gly Tyr Ser Phe Thr Gly Tyr Asn Met Asn
 1   5   10

<210> 31
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH1a VH CDR2

<400> 31
Asn Ile Asp Pro Tyr Tyr Asp Tyr Thr Ser Tyr Asn Leu Lys Phe Lys
 1   5   10   15
Asp

<210> 32
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH1a VH CDR3

<400> 32
Ser Thr Met Ile Thr Pro Phe Asp Tyr
 1   5

<210> 33
<211> 10

<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH1a VH CDR1

<400> 33
Gly Tyr Thr Phe Ser Arg Tyr Trp Ile Glu
 1   5   10

<210> 34
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH1a VH CDR2

<400> 34
Glu Ile Leu Pro Gly Ser Gly Ser Thr Asn Tyr Asn Glu Lys Phe Lys
 1   5   10   15
Gly

<210> 35
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH1a VH CDR3

<400> 35
Glu Glu Val Tyr Asp Gly Tyr Pro Trp Phe Gly Tyr
 1   5   10

<210> 36
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A VH CDR1

<400> 36
Gly Tyr Thr Phe Ser Thr His Trp Ile Glu
 1   5   10

<210> 37
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A VH CDR2

<400> 37
Glu Ile Leu Pro Gly Ser Gly Ser Thr Ser Tyr Asn Glu Lys Phe Lys
 1   5   10   15
Gly

<210> 38

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

<220>
<223> humanized antibody 175A VH CDR3

<400> 38
Trp Leu Leu Tyr Tyr Tyr Ala Met Asp Tyr
 1   5   10

<210> 39
<211> 25
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH1a VH FR1

<400> 39
Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Met Lys Pro Gly Ala
 1   5   10   15
Ser Val Lys Val Ser Cys Lys Ala Ser
            20   25

<210> 40
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVK1 VL CDR2

<400> 40
Lys Val Ser Asn Arg Phe Ser
 1   5

<210> 41
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVK2 VL CDR3

<400> 41
Phe Gln Gly Ser His Val Pro Trp Thr
 1   5

<210> 42
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVK3 VL CDR1

<400> 42
Arg Ala Ser Ser Ser Leu Ser Tyr Met His
 1   5   10

<210> 43
<211> 7

<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVK2 VL CDR3

<400> 43
Ala Thr Ser Asn Leu Ala Ser
 1   5

<210> 44
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVK3 VL CDR3

<400> 44
Gln Gln Trp Ser Ser Asn Pro Tyr Thr
 1   5

<210> 45
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> VL CDR1 of a humanized anti-C10orf54 antibody

<400> 45
Arg Ser Ser Gln Ser Ile Val His Ser Asn Gly Asn Thr Tyr Leu Glu
 1   5   10   15

<210> 46
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A VL CDR2

<400> 46
Lys Leu Ser Asn Arg Phe Ser
 1   5

<210> 47
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A VL CDR3

<400> 47
Phe Gln Gly Ser His Phe Pro Tyr Thr
 1   5

<210> 48
<400> 48
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<210> 49
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH1b VH CDR2

<400> 49
Glu Ile Leu Pro Gly Ser Gly Ser Thr Asn Tyr Ala Gln Lys Leu Gln
 1   5   10   15
Gly

<210> 50
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVH1b VH CDR2

<400> 50
Glu Ile Leu Pro Gly Ser Gly Ser Thr Ser Tyr Ala Gln Lys Leu Gln
 1   5   10   15
Gly

<210> 51
<211> 25
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH1b VH FR1

<400> 51
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
            20   25

<210> 52
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH1b VH FR2

<400> 52
Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met Gly
 1   5   10

<210> 53
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVH1b VH FR3

<400> 53
Arg Val Thr Met Thr Thr Asp Thr Ser Thr Ser Thr Ala Tyr Met Glu

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 1               5                  10                  15
Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20                  25                  30


<210> 54
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH1b VH FR4

<400> 54
Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 1               5                  10


<210> 55
<211> 25
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVH3b VH FR1

<400> 55
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1               5                  10                  15
Ser Leu Arg Leu Ser Cys Ala Ala Ser
            20                  25


<210> 56
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVH3a VH FR2

<400> 56
Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ser
 1               5                  10


<210> 57
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3 VH FR3

<400> 57
Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr Leu Gln
 1               5                  10                  15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20                  25                  30


<210> 58
<211> 25
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH1a VH FR1
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<400> 58
Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Met Lys Pro Gly Ala
 1   5   10   15
Ser Val Lys Ile Ser Cys Lys Ala Ser
            20   25

<210> 59
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH1a VH CDR1

<400> 59
Gly Tyr Ser Phe Thr Gly Tyr Gln Met Asn
 1   5   10

<210> 60
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH1a VH CDR1

<400> 60
Gly Tyr Ser Phe Thr Gly Tyr Ser Met Asn
 1   5   10

<210> 61
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH1a VH CDR1

<400> 61
Gly Tyr Ser Phe Thr Gly Tyr Asp Met Asn
 1   5   10

<210> 62
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH1a VH CDR1

<400> 62
Gly Tyr Ser Phe Thr Gly Tyr Ala Met Asn
 1   5   10

<210> 63
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH1a VH FR2

<400> 63
Trp Val Arg Gln Ala Pro Gly Gln Ser Leu Glu Trp Met Gly
 1   5   10

<210> 64
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH1a VH FR2

<400> 64
Trp Val Arg Gln Ala Pro Gly Gln Ser Leu Glu Trp Ile Gly
 1   5   10

<210> 65
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH1a VH CDR2

<400> 65
Asn Ile Glu Pro Tyr Tyr Asp Tyr Thr Ser Tyr Asn Leu Lys Phe Lys
 1   5   10   15
Asp

<210> 66
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH1a VH CDR2

<400> 66
Asn Ile Ser Pro Tyr Tyr Asp Tyr Thr Ser Tyr Asn Leu Lys Phe Lys
 1   5   10   15
Asp

<210> 67
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH1a VH CDR2

<400> 67
Asn Ile Ala Pro Tyr Tyr Asp Tyr Thr Ser Tyr Asn Leu Lys Phe Lys
 1   5   10   15
Asp

<210> 68
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH1a VH CDR2

<400> 68
Asn Ile Asp Pro Tyr Tyr Asp Tyr Thr Ser Tyr Gln Leu Lys Phe Lys
 1   5   10   15
Asp

<210> 69
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH1a VH CDR2

<400> 69
Asn Ile Asp Pro Tyr Tyr Asp Tyr Thr Ser Tyr Ser Leu Lys Phe Lys
 1   5   10   15
Asp

<210> 70
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH1a VH CDR2

<400> 70
Asn Ile Asp Pro Tyr Tyr Asp Tyr Thr Ser Tyr Asp Leu Lys Phe Lys
 1   5   10   15
Asp

<210> 71
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH1a VH CDR2

<400> 71
Asn Ile Asp Pro Tyr Tyr Asp Tyr Thr Ser Tyr Ala Leu Lys Phe Lys
 1   5   10   15
Asp

<210> 72
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH1a VH CDR2

<400> 72
Asn Ile Glu Pro Tyr Tyr Asp Tyr Thr Ser Tyr Gln Leu Lys Phe Lys
 1   5   10   15
Asp

<210> 73
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH1a VH CDR2

<400> 73
Asn Ile Glu Pro Tyr Tyr Asp Tyr Thr Ser Tyr Ser Leu Lys Phe Lys
 1   5   10   15
Asp

<210> 74
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH1a VH CDR2

<400> 74
Asn Ile Glu Pro Tyr Tyr Asp Tyr Thr Ser Tyr Asp Leu Lys Phe Lys
 1   5   10   15
Asp

<210> 75
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVK2 VL FR1

<400> 75
Asp Ile Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro Gly
 1   5   10   15
Glu Pro Ala Ser Ile Ser Cys
            20

<210> 76
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVK2 VL FR2

<400> 76
Trp Tyr Leu Gln Lys Pro Gly Gln Ser Pro Gln Leu Leu Ile Tyr
 1   5   10   15

<210> 77
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVK2 VL FR3

<400> 77
Gly Val Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr
 1   5   10   15
Leu Lys Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys
            20   25   30

<210> 78
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVK2 VL FR4

<400> 78
Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
 1   5   10

<210> 79
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVK1 VL FR1

<400> 79
Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
 1   5   10   15
Asp Arg Val Thr Ile Thr Cys
            20

<210> 80
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVK1 VL FR2

<400> 80
Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile Tyr
 1   5   10   15

<210> 81
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVK1 VL FR3

<400> 81
Gly Val Pro Ser 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> 82
<211> 15
<212> PRT
<213> Homo sapiens

<220>
<223> Joining region IMGT IGHJ4-01

<400> 82
Tyr Phe Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 1   5   10   15

<210> 83
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH1a VH CDR2

<400> 83
Asn Ile Glu Pro Tyr Tyr Asp Tyr Thr Ser Tyr Ala Leu Lys Phe Lys
 1   5   10   15
Asp

<210> 84
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH1a VH CDR2

<400> 84
Asn Ile Ser Pro Tyr Tyr Asp Tyr Thr Ser Tyr Gln Leu Lys Phe Lys
 1   5   10   15
Asp

<210> 85
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH1a VH CDR2

<400> 85
Asn Ile Ser Pro Tyr Tyr Asp Tyr Thr Ser Tyr Ser Leu Lys Phe Lys
 1   5   10   15
Asp

<210> 86
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH1a VH CDR2

<400> 86
Asn Ile Ser Pro Tyr Tyr Asp Tyr Thr Ser Tyr Asp Leu Lys Phe Lys
 1   5   10   15
Asp

<210> 87
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH1a VH CDR2

<400> 87
Asn Ile Ser Pro Tyr Tyr Asp Tyr Thr Ser Tyr Ala Leu Lys Phe Lys
 1   5   10   15
Asp

<210> 88
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH1a VH CDR2

<400> 88
Asn Ile Ala Pro Tyr Tyr Asp Tyr Thr Ser Tyr Gln Leu Lys Phe Lys
 1   5   10   15
Asp

<210> 89
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH1a VH CDR2

<400> 89
Asn Ile Ala Pro Tyr Tyr Asp Tyr Thr Ser Tyr Ser Leu Lys Phe Lys
 1   5   10   15
Asp

<210> 90
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH1a VH CDR2

<400> 90
Asn Ile Ala Pro Tyr Tyr Asp Tyr Thr Ser Tyr Asp Leu Lys Phe Lys
 1   5   10   15
Asp

<210> 91
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVK3 VL FR1

<400> 91
Glu Ile Val Leu Thr Gln Ser Pro Gly Thr Leu Ser Leu Ser Pro Gly
 1   5   10   15
Glu Arg Ala Thr Leu Ser Cys
            20

<210> 92
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVK3 VL FR2

<400> 92
Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile Tyr
 1   5   10   15

<210> 93
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVK3 VL FR3

<400> 93
Gly Ile Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr
 1   5   10   15
Leu Thr Ile Ser Arg Leu Glu Pro Glu Asp Phe Ala Val Tyr Tyr Cys
            20   25   30

<210> 94
<211> 12
<212> PRT
<213> Homo sapiens

<220>
<223> Joining region IMGT IGKJ2-01

<400> 94
Tyr Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
 1   5   10

<210> 95
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH1a VH CDR2

<400> 95
Asn Ile Ala Pro Tyr Tyr Asp Tyr Thr Ser Tyr Ala Leu Lys Phe Lys
 1   5   10   15
Asp

<210> 96
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH1a VH FR3

<400> 96
Arg Val Thr Leu Thr Thr Asp Thr Ser Thr Ser Thr Ala Tyr Met Glu
 1   5   10   15
Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 97
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH1a VH FR3

<400> 97
Arg Val Thr Met Thr Val Asp Thr Ser Thr Ser Thr Ala Tyr Met Glu
 1   5   10   15
Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 98
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH1a VH FR3

<400> 98
Arg Val Thr Met Thr Thr Asp Lys Ser Thr Ser Thr Ala Tyr Met Glu
 1   5   10   15
Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 99
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVH3b VH CDR2

<400> 99
Glu Ile Leu Pro Gly Ser Gly Ser Thr Ser Tyr Ala Asp Ser Val Lys
 1   5   10   15
Gly

<210> 100
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVH3b VH CDR2

<400> 100
Glu Ile Leu Pro Gly Ser Gly Ser Thr Ser Tyr Ala Asp Ser Phe Lys
 1   5   10   15
Gly

<210> 101
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVH1a VH CDR2

<400> 101
Glu Ile Leu Pro Gly Ser Gly Ser Thr Ser Tyr Gln Glu Lys Phe Lys
 1   5   10   15
Gly

<210> 102
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVH1a VH CDR2

<400> 102
Glu Ile Leu Pro Gly Ser Gly Ser Thr Ser Tyr Ser Glu Lys Phe Lys
 1   5   10   15
Gly

<210> 103
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVH1a VH CDR2

<400> 103
Glu Ile Leu Pro Gly Ser Gly Ser Thr Ser Tyr Asp Glu Lys Phe Lys
 1   5   10   15
Gly

<210> 104
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVH1a VH CDR2

<400> 104
Glu Ile Leu Pro Gly Ser Gly Ser Thr Ser Tyr Ala Glu Lys Phe Lys
 1   5   10   15
Gly

<210> 105
<211> 25
<212> PRT
<213> Artificial Sequence

<220>

<223> humanized antibody 175A-huVH1a VH FR1

<400> 105
Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
 1   5   10   15
Ser Val Lys Ile Ser Cys Lys Ala Ser
            20   25

<210> 106
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVH1a VH FR2

<400> 106
Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Ile Gly
 1   5   10

<210> 107
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVH1 VH FR3

<400> 107
Arg Ala Thr Met Thr Thr Asp Thr Ser Thr Ser Thr Ala Tyr Met Glu
 1   5   10   15
Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 108
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVH1 VH FR3

<400> 108
Arg Val Thr Phe Thr Thr Asp Thr Ser Thr Ser Thr Ala Tyr Met Glu
 1   5   10   15
Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 109
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVH1 VH FR3

<400> 109
Arg Val Thr Met Thr Ala Asp Thr Ser Thr Ser Thr Ala Tyr Met Glu
 1   5   10   15
Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 110

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

<220>
<223> humanized antibody 175A-huVH1 VH FR3

<400> 110
Arg Ala Thr Phe Thr Thr Asp Thr Ser Thr Ser Thr Ala Tyr Met Glu
 1   5   10   15
Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 111
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVH1 VH FR3

<400> 111
Arg Val Thr Phe Thr Ala Asp Thr Ser Thr Ser Thr Ala Tyr Met Glu
 1   5   10   15
Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 112
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVH1 VH FR3

<400> 112
Arg Ala Thr Met Thr Ala Asp Thr Ser Thr Ser Thr Ala Tyr Met Glu
 1   5   10   15
Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 113
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVH1 VH FR3

<400> 113
Arg Ala Thr Phe Thr Ala Asp Thr Ser Thr Ser Thr Ala Tyr Met Glu
 1   5   10   15
Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 114
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVH1b VH CDR2

<400> 114

Glu Ile Leu Pro Gly Ser Gly Ser Thr Ser Tyr Ala Gln Lys Phe Gln
 1   5   10   15
Gly

<210> 115
<211> 25
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVH3a VH FR1

<400> 115
Glu Val Gln Leu Val Gln Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1   5   10   15
Ser Leu Arg Leu Ser Cys Ala Ala Ser
            20   25

<210> 116
<211> 25
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVH3a VH FR1

<400> 116
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1   5   10   15
Ser Val Arg Leu Ser Cys Ala Ala Ser
            20   25

<210> 117
<211> 25
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVH3a VH FR1

<400> 117
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1   5   10   15
Ser Leu Arg Ile Ser Cys Ala Ala Ser
            20   25

<210> 118
<211> 25
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVH3a VH FR1

<400> 118
Glu Val Gln Leu Val Gln Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1   5   10   15
Ser Val Arg Leu Ser Cys Ala Ala Ser
            20   25

<210> 119
<211> 25

<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVH3a VH FR1

<400> 119
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1   5   10   15
Ser Val Arg Ile Ser Cys Ala Ala Ser
            20   25

<210> 120
<211> 25
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVH3a VH FR1

<400> 120
Glu Val Gln Leu Val Gln Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1   5   10   15
Ser Leu Arg Ile Ser Cys Ala Ala Ser
            20   25

<210> 121
<211> 25
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVH3a VH FR1

<400> 121
Glu Val Gln Leu Val Gln Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1   5   10   15
Ser Val Arg Ile Ser Cys Ala Ala Ser
            20   25

<210> 122
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVH3a VH FR2

<400> 122
Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Ile Ser
 1   5   10

<210> 123
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVH3a VH FR2

<400> 123
Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Gly
 1   5   10

<210> 124
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVH3a VH FR2

<400> 124
Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Ile Gly
 1   5   10

<210> 125
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVH3 VH FR3

<400> 125
Arg Ala Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr Leu Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 126
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVH3 VH FR3

<400> 126
Arg Phe Thr Phe Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr Leu Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 127
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVH3 VH FR3

<400> 127
Arg Phe Thr Ile Ser Ala Asp Asn Ala Lys Asn Ser Leu Tyr Leu Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 128
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVH3 VH FR3

<400> 128

Arg Phe Thr Ile Ser Arg Asp Thr Ala Lys Asn Ser Leu Tyr Leu Gln
1 5 10 15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
20 25 30

<210> 129
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVH3 VH FR3

<400> 129
Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Ala Tyr Leu Gln
1 5 10 15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
20 25 30

<210> 130
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVH3 VH FR3

<400> 130
Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr Met Gln
1 5 10 15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
20 25 30

<210> 131
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVH3 VH FR3

<400> 131
Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr Leu Gln
1 5 10 15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
20 25 30

<210> 132
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVH3 VH FR3

<400> 132
Arg Ala Thr Phe Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr Leu Gln
1 5 10 15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
20 25 30

<210> 133
<211> 32

<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVH3 VH FR3

<400> 133
Arg Ala Thr Ile Ser Ala Asp Asn Ala Lys Asn Ser Leu Tyr Leu Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 134
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVH3 VH FR3

<400> 134
Arg Ala Thr Ile Ser Arg Asp Thr Ala Lys Asn Ser Leu Tyr Leu Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 135
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVH3 VH FR3

<400> 135
Arg Ala Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Ala Tyr Leu Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 136
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVH3 VH FR3

<400> 136
Arg Ala Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr Met Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 137
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVH3 VH FR3

<400> 137
Arg Ala Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr Leu Gln

 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 138
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVH3 VH FR3

<400> 138
Arg Phe Thr Phe Ser Ala Asp Asn Ala Lys Asn Ser Leu Tyr Leu Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 139
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVH3 VH FR3

<400> 139
Arg Phe Thr Phe Ser Arg Asp Thr Ala Lys Asn Ser Leu Tyr Leu Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 140
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVH3 VH FR3

<400> 140
Arg Phe Thr Phe Ser Arg Asp Asn Ala Lys Asn Ser Ala Tyr Leu Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 141
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVH3 VH FR3

<400> 141
Arg Phe Thr Phe Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr Met Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 142
<211> 32
<212> PRT

<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVH3 VH FR3

<400> 142
Arg Phe Thr Phe Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr Leu Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 143
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVH3 VH FR3

<400> 143
Arg Phe Thr Ile Ser Ala Asp Thr Ala Lys Asn Ser Leu Tyr Leu Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 144
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVH3 VH FR3

<400> 144
Arg Phe Thr Ile Ser Ala Asp Asn Ala Lys Asn Ser Ala Tyr Leu Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 145
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVH3 VH FR3

<400> 145
Arg Phe Thr Ile Ser Ala Asp Asn Ala Lys Asn Ser Leu Tyr Met Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 146
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVH3 VH FR3

<400> 146
Arg Phe Thr Ile Ser Ala Asp Asn Ala Lys Asn Ser Leu Tyr Leu Gln
 1   5   10   15

Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
20 25 30

<210> 147
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVH3 VH FR3

<400> 147
Arg Phe Thr Ile Ser Arg Asp Thr Ala Lys Asn Ser Ala Tyr Leu Gln
1 5 10 15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
20 25 30

<210> 148
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVH3 VH FR3

<400> 148
Arg Phe Thr Ile Ser Arg Asp Thr Ala Lys Asn Ser Leu Tyr Met Gln
1 5 10 15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
20 25 30

<210> 149
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVH3 VH FR3

<400> 149
Arg Phe Thr Ile Ser Arg Asp Thr Ala Lys Asn Ser Leu Tyr Leu Gln
1 5 10 15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
20 25 30

<210> 150
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVH3 VH FR3

<400> 150
Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Ala Tyr Met Gln
1 5 10 15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
20 25 30

<210> 151
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVH3 VH FR3

<400> 151
Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Ala Tyr Leu Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 152
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVH3 VH FR3

<400> 152
Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr Met Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 153
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVH3 VH FR3

<400> 153
Arg Ala Thr Phe Ser Ala Asp Asn Ala Lys Asn Ser Leu Tyr Leu Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 154
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVH3 VH FR3

<400> 154
Arg Ala Thr Phe Ser Arg Asp Thr Ala Lys Asn Ser Leu Tyr Leu Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 155
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVH3 VH FR3

<400> 155
Arg Ala Thr Phe Ser Arg Asp Asn Ala Lys Asn Ser Ala Tyr Leu Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg

20 25 30

<210> 156
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVH3 VH FR3

<400> 156
Arg Ala Thr Phe Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr Met Gln
1 5 10 15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
20 25 30

<210> 157
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVH3 VH FR3

<400> 157
Arg Ala Thr Phe Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr Leu Gln
1 5 10 15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
20 25 30

<210> 158
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVH3 VH FR3

<400> 158
Arg Ala Thr Ile Ser Ala Asp Thr Ala Lys Asn Ser Leu Tyr Leu Gln
1 5 10 15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
20 25 30

<210> 159
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVH3 VH FR3

<400> 159
Arg Ala Thr Ile Ser Ala Asp Asn Ala Lys Asn Ser Ala Tyr Leu Gln
1 5 10 15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
20 25 30

<210> 160
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVH3 VH FR3

<400> 160
Arg Ala Thr Ile Ser Ala Asp Asn Ala Lys Asn Ser Leu Tyr Met Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 161
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVH3 VH FR3

<400> 161
Arg Ala Thr Ile Ser Ala Asp Asn Ala Lys Asn Ser Leu Tyr Leu Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 162
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVH3 VH FR3

<400> 162
Arg Ala Thr Ile Ser Arg Asp Thr Ala Lys Asn Ser Ala Tyr Leu Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 163
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVH3 VH FR3

<400> 163
Arg Ala Thr Ile Ser Arg Asp Thr Ala Lys Asn Ser Leu Tyr Met Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 164
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
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<400> 164
Arg Ala Thr Ile Ser Arg Asp Thr Ala Lys Asn Ser Leu Tyr Leu Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 165
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
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<400> 165
Arg Ala Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Ala Tyr Met Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 166
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
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<400> 166
Arg Ala Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Ala Tyr Leu Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 167
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
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<400> 167
Arg Ala Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr Met Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 168
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVH3 VH FR3

<400> 168
Arg Phe Thr Phe Ser Ala Asp Thr Ala Lys Asn Ser Leu Tyr Leu Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 169
<211> 32
<212> PRT
<213> Artificial Sequence

<220>

<223> humanized antibody 175A-huVH3 VH FR3

<400> 169
Arg Phe Thr Phe Ser Ala Asp Asn Ala Lys Asn Ser Ala Tyr Leu Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 170
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
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<400> 170
Arg Phe Thr Phe Ser Ala Asp Asn Ala Lys Asn Ser Leu Tyr Met Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 171
<211> 32
<212> PRT
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<220>
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<400> 171
Arg Phe Thr Phe Ser Ala Asp Asn Ala Lys Asn Ser Leu Tyr Leu Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 172
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
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<400> 172
Arg Phe Thr Phe Ser Arg Asp Thr Ala Lys Asn Ser Ala Tyr Leu Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 173
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVH3 VH FR3

<400> 173
Arg Phe Thr Phe Ser Arg Asp Thr Ala Lys Asn Ser Leu Tyr Met Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 174
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVH3 VH FR3

<400> 174
Arg Phe Thr Phe Ser Arg Asp Thr Ala Lys Asn Ser Leu Tyr Leu Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 175
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVH3 VH FR3

<400> 175
Arg Phe Thr Phe Ser Arg Asp Asn Ala Lys Asn Ser Ala Tyr Met Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 176
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVH3 VH FR3

<400> 176
Arg Phe Thr Phe Ser Arg Asp Asn Ala Lys Asn Ser Ala Tyr Leu Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 177
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVH3 VH FR3

<400> 177
Arg Phe Thr Phe Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr Met Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 178
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVH3 VH FR3

<400> 178
Arg Phe Thr Ile Ser Ala Asp Thr Ala Lys Asn Ser Ala Tyr Leu Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 179
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
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<400> 179
Arg Phe Thr Ile Ser Ala Asp Thr Ala Lys Asn Ser Leu Tyr Met Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 180
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
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<400> 180
Arg Phe Thr Ile Ser Ala Asp Thr Ala Lys Asn Ser Leu Tyr Leu Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 181
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVH3 VH FR3

<400> 181
Arg Phe Thr Ile Ser Ala Asp Asn Ala Lys Asn Ser Ala Tyr Met Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 182
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVH3 VH FR3

<400> 182
Arg Phe Thr Ile Ser Ala Asp Asn Ala Lys Asn Ser Ala Tyr Leu Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 183
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVH3 VH FR3

<400> 183
Arg Phe Thr Ile Ser Ala Asp Asn Ala Lys Asn Ser Leu Tyr Met Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 184
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVH3 VH FR3

<400> 184
Arg Phe Thr Ile Ser Arg Asp Thr Ala Lys Asn Ser Ala Tyr Met Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 185
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVH3 VH FR3

<400> 185
Arg Phe Thr Ile Ser Arg Asp Thr Ala Lys Asn Ser Ala Tyr Leu Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 186
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVH3 VH FR3

<400> 186
Arg Phe Thr Ile Ser Arg Asp Thr Ala Lys Asn Ser Leu Tyr Met Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 187
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVH3 VH FR3

<400> 187
Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Ala Tyr Met Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 188
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVH3 VH FR3

<400> 188
Arg Ala Thr Phe Ser Ala Asp Thr Ala Lys Asn Ser Leu Tyr Leu Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 189
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVH3 VH FR3

<400> 189
Arg Ala Thr Phe Ser Ala Asp Asn Ala Lys Asn Ser Ala Tyr Leu Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 190
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
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<400> 190
Arg Ala Thr Phe Ser Ala Asp Asn Ala Lys Asn Ser Leu Tyr Met Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 191
<211> 32
<212> PRT
<213> Artificial Sequence

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<400> 191
Arg Ala Thr Phe Ser Ala Asp Asn Ala Lys Asn Ser Leu Tyr Leu Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 192

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

<220>
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<400> 192
Arg Ala Thr Phe Ser Arg Asp Thr Ala Lys Asn Ser Ala Tyr Leu Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 193
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVH3 VH FR3

<400> 193
Arg Ala Thr Phe Ser Arg Asp Thr Ala Lys Asn Ser Leu Tyr Met Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 194
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVH3 VH FR3

<400> 194
Arg Ala Thr Phe Ser Arg Asp Thr Ala Lys Asn Ser Leu Tyr Leu Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 195
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVH3 VH FR3

<400> 195
Arg Ala Thr Phe Ser Arg Asp Asn Ala Lys Asn Ser Ala Tyr Met Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 196
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVH3 VH FR3

<400> 196

Arg Ala Thr Phe Ser Arg Asp Asn Ala Lys Asn Ser Ala Tyr Leu Gln
1 5 10 15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
20 25 30

<210> 197
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVH3 VH FR3

<400> 197
Arg Ala Thr Phe Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr Met Gln
1 5 10 15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
20 25 30

<210> 198
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVH3 VH FR3

<400> 198
Arg Ala Thr Ile Ser Ala Asp Thr Ala Lys Asn Ala Leu Tyr Leu Gln
1 5 10 15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
20 25 30

<210> 199
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVH3 VH FR3

<400> 199
Arg Ala Thr Ile Ser Ala Asp Thr Ala Lys Asn Ser Leu Tyr Met Gln
1 5 10 15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
20 25 30

<210> 200
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVH3 VH FR3

<400> 200
Arg Ala Thr Ile Ser Ala Asp Thr Ala Lys Asn Ser Leu Tyr Leu Gln
1 5 10 15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
20 25 30

<210> 201
<211> 32

<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVH3 VH FR3

<400> 201
Arg Ala Thr Ile Ser Ala Asp Asn Ala Lys Asn Ser Ala Tyr Met Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 202
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVH3 VH FR3

<400> 202
Arg Ala Thr Ile Ser Ala Asp Asn Ala Lys Asn Ser Ala Tyr Leu Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 203
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVH3 VH FR3

<400> 203
Arg Ala Thr Ile Ser Ala Asp Asn Ala Lys Asn Ser Leu Tyr Met Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 204
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVH3 VH FR3

<400> 204
Arg Ala Thr Ile Ser Arg Asp Thr Ala Lys Asn Ser Ala Tyr Met Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 205
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVH3 VH FR3

<400> 205
Arg Ala Thr Ile Ser Arg Asp Thr Ala Lys Asn Ser Ala Tyr Leu Gln

50
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 206
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVH3 VH FR3

<400> 206
Arg Ala Thr Ile Ser Arg Asp Thr Ala Lys Asn Ser Leu Tyr Met Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 207
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVH3 VH FR3

<400> 207
Arg Ala Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Ala Tyr Met Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 208
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVH3 VH FR3

<400> 208
Arg Phe Thr Phe Ser Ala Asp Thr Ala Lys Asn Ser Ala Tyr Leu Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 209
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVH3 VH FR3

<400> 209
Arg Phe Thr Phe Ser Ala Asp Thr Ala Lys Asn Ser Leu Tyr Met Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

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

<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVH3 VH FR3

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

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

<220>
<223> humanized antibody 175A-huVH3 VH FR3

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

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

<220>
<223> humanized antibody 175A-huVH3 VH FR3

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

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

<220>
<223> humanized antibody 175A-huVH3 VH FR3

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

<210> 214
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVH3 VH FR3

<400> 214
Arg Phe Thr Phe Ser Arg Asp Thr Ala Lys Asn Ser Ala Tyr Met Gln
 1   5   10   15

Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
20 25 30

<210> 215
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVH3 VH FR3

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

<210> 216
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVH3 VH FR3

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

<210> 217
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVH3 VH FR3

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

<210> 218
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVH3 VH FR3

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

<210> 219
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVH3 VH FR3

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

<210> 220
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVH3 VH FR3

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

<210> 221
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVH3 VH FR3

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

<210> 222
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVH3 VH FR3

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

<210> 223
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVH3 VH FR3

<400> 223
Arg Ala Thr Phe Ser Ala Asp Thr Ala Lys Asn Ser Ala Tyr Leu Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg

20 25 30

<210> 224
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVH3 VH FR3

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

<210> 225
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVH3 VH FR3

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

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

<220>
<223> humanized antibody 175A-huVH3 VH FR3

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

<210> 227
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVH3 VH FR3

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

<210> 228
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVH3 VH FR3

<400> 228
Arg Ala Thr Phe Ser Ala Asp Asn Ala Lys Asn Ser Leu Tyr Met Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 229
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVH3 VH FR3

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

<210> 230
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVH3 VH FR3

<400> 230
Arg Ala Thr Phe Ser Arg Asp Thr Ala Lys Asn Ser Ala Tyr Leu Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 231
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVH3 VH FR3

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

<210> 232
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVH3 VH FR3

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

<210> 233
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVH3 VH FR3

<400> 233
Arg Ala Thr Ile Ser Ala Asp Thr Ala Lys Asn Ala Leu Tyr Met Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 234
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVH3 VH FR3

<400> 234
Arg Ala Thr Ile Ser Ala Asp Thr Ala Lys Asn Ala Leu Tyr Leu Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 235
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVH3 VH FR3

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

<210> 236
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVH3 VH FR3

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

<210> 237
<211> 32
<212> PRT
<213> Artificial Sequence

<220>

<223> humanized antibody 175A-huVH3 VH FR3

<400> 237
Arg Ala Thr Ile Ser Arg Asp Thr Ala Lys Asn Ser Ala Tyr Met Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 238
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVH3 VH FR3

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

<210> 239
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVH3 VH FR3

<400> 239
Arg Phe Thr Phe Ser Ala Asp Thr Ala Lys Asn Ser Ala Tyr Leu Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

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

<220>
<223> humanized antibody 175A-huVH3 VH FR3

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

<210> 241
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVH3 VH FR3

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

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

<220>
<223> humanized antibody 175A-huVH3 VH FR3

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

<210> 243
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVH3 VH FR3

<400> 243
Arg Phe Thr Ile Ser Ala Asp Thr Ala Lys Asn Ser Ala Tyr Met Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 244
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVH3 VH FR3

<400> 244
Arg Ala Thr Phe Ser Ala Asp Thr Ala Lys Asn Ser Ala Tyr Met Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 245
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVH3 VH FR3

<400> 245
Arg Ala Thr Phe Ser Ala Asp Thr Ala Lys Asn Ser Ala Tyr Leu Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 246
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVH3 VH FR3

<400> 246
Arg Ala Thr Phe Ser Ala Asp Thr Ala Lys Asn Ser Leu Tyr Met Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 247
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVH3 VH FR3

<400> 247
Arg Ala Thr Phe Ser Ala Asp Asn Ala Lys Asn Ser Ala Tyr Met Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 248
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVH3 VH FR3

<400> 248
Arg Ala Thr Phe Ser Arg Asp Thr Ala Lys Asn Ser Ala Tyr Met Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

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

<220>
<223> humanized antibody 175A-huVH3 VH FR3

<400> 249
Arg Ala Thr Ile Ser Ala Asp Thr Ala Lys Asn Ala Leu Tyr Met Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 250
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVH3 VH FR3

<400> 250
Arg Phe Thr Phe Ser Ala Asp Thr Ala Lys Asn Ser Ala Tyr Met Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 251
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVH3 VH FR3

<400> 251
Arg Ala Thr Phe Ser Ala Asp Thr Ala Lys Asn Ser Ala Tyr Met Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 252
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVK2 VL FR1

<400> 252
Asp Val Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro Gly
 1   5   10   15
Glu Pro Ala Ser Ile Ser Cys
            20

<210> 253
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVK2 VL CDR1

<400> 253
Arg Ser Ser Gln Ser Ile Val His Ser Gln Gly Asn Thr Tyr Leu Glu
 1   5   10   15

<210> 254
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVK2 VL CDR1

<400> 254
Arg Ser Ser Gln Ser Ile Val His Ser Ser Gly Asn Thr Tyr Leu Glu
 1   5   10   15

<210> 255
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVK2 VL CDR1

<400> 255
Arg Ser Ser Gln Ser Ile Val His Ser Ala Gly Asn Thr Tyr Leu Glu
 1   5   10   15

<210> 256
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVK2 VL CDR1

<400> 256
Arg Ser Ser Gln Ser Ile Val His Ser Asn Gly Gln Thr Tyr Leu Glu
 1   5   10   15

<210> 257
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVK2 VL CDR1

<400> 257
Arg Ser Ser Gln Ser Ile Val His Ser Asn Gly Ser Thr Tyr Leu Glu
 1   5   10   15

<210> 258
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVK2 VL CDR1

<400> 258
Arg Ser Ser Gln Ser Ile Val His Ser Asn Gly Ala Thr Tyr Leu Glu
 1   5   10   15

<210> 259
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVK2 VL CDR1

<400> 259
Arg Ser Ser Gln Ser Ile Val His Ser Asn Gly Asp Thr Tyr Leu Glu
 1   5   10   15

<210> 260
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVK2 VL CDR1

<400> 260
Arg Ser Ser Gln Ser Ile Val His Ser Gln Gly Gln Thr Tyr Leu Glu
 1   5   10   15

<210> 261
<211> 16

<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVK2 VL CDR1

<400> 261
Arg Ser Ser Gln Ser Ile Val His Ser Gln Gly Ser Thr Tyr Leu Glu
 1   5   10   15

<210> 262
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVK2 VL CDR1

<400> 262
Arg Ser Ser Gln Ser Ile Val His Ser Gln Gly Ala Thr Tyr Leu Glu
 1   5   10   15

<210> 263
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVK2 VL CDR1

<400> 263
Arg Ser Ser Gln Ser Ile Val His Ser Gln Gly Asp Thr Tyr Leu Glu
 1   5   10   15

<210> 264
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVK2 VL CDR1

<400> 264
Arg Ser Ser Gln Ser Ile Val His Ser Ser Gly Gln Thr Tyr Leu Glu
 1   5   10   15

<210> 265
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVK2 VL CDR1

<400> 265
Arg Ser Ser Gln Ser Ile Val His Ser Ser Gly Ser Thr Tyr Leu Glu
 1   5   10   15

<210> 266
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVK2 VL CDR1

<400> 266
Arg Ser Ser Gln Ser Ile Val His Ser Ser Gly Ala Thr Tyr Leu Glu
 1   5   10   15

<210> 267
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVK2 VL CDR1

<400> 267
Arg Ser Ser Gln Ser Ile Val His Ser Ser Gly Asp Thr Tyr Leu Glu
 1   5   10   15

<210> 268
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVK2 VL CDR1

<400> 268
Arg Ser Ser Gln Ser Ile Val His Ser Ala Gly Gln Thr Tyr Leu Glu
 1   5   10   15

<210> 269
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVK2 VL CDR1

<400> 269
Arg Ser Ser Gln Ser Ile Val His Ser Ala Gly Ser Thr Tyr Leu Glu
 1   5   10   15

<210> 270
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVK2 VL CDR1

<400> 270
Arg Ser Ser Gln Ser Ile Val His Ser Ala Gly Ala Thr Tyr Leu Glu
 1   5   10   15

<210> 271
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVK2 VL CDR1

<400> 271
Arg Ser Ser Gln Ser Ile Val His Ser Ala Gly Asp Thr Tyr Leu Glu
 1   5   10   15

<210> 272
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVK2 VL CDR2

<400> 272
Lys Leu Ser Gln Arg Phe Ser
 1   5

<210> 273
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVK2 VL CDR2

<400> 273
Lys Leu Ser Ser Arg Phe Ser
 1   5

<210> 274
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVK2 VL CDR2

<400> 274
Lys Leu Ser Ala Arg Phe Ser
 1   5

<210> 275
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVK2 VL CDR2

<400> 275
Lys Leu Ser Asp Arg Phe Ser
 1   5

<210> 276
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVK2 VL FR3

<400> 276
Gly Val Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr
 1   5   10   15

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

<210> 277
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVK1 VL FR1

<400> 277
Asp Val Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
1 5 10 15
Asp Arg Val Thr Ile Thr Cys
20

<210> 278
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVK1 VL FR1

<400> 278
Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Val Ser Val Gly
1 5 10 15
Asp Arg Val Thr Ile Thr Cys
20

<210> 279
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVK1 VL FR1

<400> 279
Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
1 5 10 15
Asp Arg Ala Thr Ile Thr Cys
20

<210> 280
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVK1 VL FR1

<400> 280
Asp Val Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Val Ser Val Gly
1 5 10 15
Asp Arg Val Thr Ile Thr Cys
20

<210> 281
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVK1 VL FR1

<400> 281
Asp Val Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
 1   5   10   15
Asp Arg Ala Thr Ile Thr Cys
            20

<210> 282
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVK1 VL FR1

<400> 282
Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Val Ser Val Gly
 1   5   10   15
Asp Arg Ala Thr Ile Thr Cys
            20

<210> 283
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVK1 VL FR1

<400> 283
Asp Val Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Val Ser Val Gly
 1   5   10   15
Asp Arg Ala Thr Ile Thr Cys
            20

<210> 284
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVK1 VL FR2

<400> 284
Trp Tyr Gln Gln Lys Pro Gly Lys Ser Pro Lys Leu Leu Ile Tyr
 1   5   10   15

<210> 285
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVK1 VL FR3

<400> 285
Gly Val Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr
 1   5   10   15
Leu Thr Ile Ser Ser Val Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys
            20   25   30

<210> 286
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVK1 VL FR3

<400> 286
Gly Val Pro Ser 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 Leu Ala Thr Tyr Tyr Cys
            20   25   30

<210> 287
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVK1 VL FR3

<400> 287
Gly Val Pro Ser 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 Gly Thr Tyr Tyr Cys
            20   25   30

<210> 288
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVK1 VL FR3

<400> 288
Gly Val Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr
 1   5   10   15
Leu Thr Ile Ser Ser Val Gln Pro Glu Asp Leu Ala Thr Tyr Tyr Cys
            20   25   30

<210> 289
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVK1 VL FR3

<400> 289
Gly Val Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr
 1   5   10   15
Leu Thr Ile Ser Ser Val Gln Pro Glu Asp Phe Gly Thr Tyr Tyr Cys
            20   25   30

<210> 290
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVK1 VL FR3

<400> 290
Gly Val Pro Ser 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 Leu Gly Thr Tyr Tyr Cys
            20   25   30

<210> 291
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A-huVK1 VL FR3

<400> 291
Gly Val Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr
 1   5   10   15
Leu Thr Ile Ser Ser Val Gln Pro Glu Asp Leu Gly Thr Tyr Tyr Cys
            20   25   30

<210> 292
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH1 VH FR3

<400> 292
Arg Val Thr Met Thr Thr Asp Thr Ser Thr Ser Thr Ala Tyr Met Glu
 1   5   10   15
Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 293
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH1 VH FR3

<400> 293
Arg Ala Thr Leu Thr Thr Asp Thr Ser Thr Ser Thr Ala Tyr Met Glu
 1   5   10   15
Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 294
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH1 VH FR3

<400> 294
Arg Ala Thr Met Thr Val Asp Thr Ser Thr Ser Thr Ala Tyr Met Glu
 1   5   10   15
Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 295
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH1 VH FR3

<400> 295
Arg Ala Thr Met Thr Thr Asp Lys Ser Thr Ser Thr Ala Tyr Met Glu
 1   5   10   15
Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 296
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH1 VH FR3

<400> 296
Arg Ala Thr Met Thr Thr Asp Thr Ser Thr Ser Thr Ala Tyr Met Glu
 1   5   10   15
Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 297
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH1 VH FR3

<400> 297
Arg Val Thr Leu Thr Val Asp Thr Ser Thr Ser Thr Ala Tyr Met Glu
 1   5   10   15
Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 298
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH1 VH FR3

<400> 298
Arg Val Thr Leu Thr Thr Asp Lys Ser Thr Ser Thr Ala Tyr Met Glu
 1   5   10   15
Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 299
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH1 VH FR3

<400> 299
Arg Val Thr Leu Thr Thr Asp Thr Ser Thr Ser Thr Ala Tyr Met Glu
 1   5   10   15
Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 300
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH1 VH FR3

<400> 300
Arg Val Thr Met Thr Val Asp Lys Ser Thr Ser Thr Ala Tyr Met Glu
 1   5   10   15
Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 301
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH1 VH FR3

<400> 301
Arg Val Thr Met Thr Val Asp Thr Ser Thr Ser Thr Ala Tyr Met Glu
 1   5   10   15
Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 302
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH1 VH FR3

<400> 302
Arg Val Thr Met Thr Thr Asp Lys Ser Thr Ser Thr Ala Tyr Met Glu
 1   5   10   15
Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 303
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH1 VH FR3

<400> 303
Arg Ala Thr Leu Thr Val Asp Thr Ser Thr Ser Thr Ala Tyr Met Glu
 1   5   10   15
Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 304

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

<220>
<223> humanized antibody 76E1-huVH1 VH FR3

<400> 304
Arg Ala Thr Leu Thr Thr Asp Lys Ser Thr Ser Thr Ala Tyr Met Glu
 1   5   10   15
Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 305
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH1 VH FR3

<400> 305
Arg Ala Thr Leu Thr Thr Asp Thr Ser Thr Ser Thr Ala Tyr Met Glu
 1   5   10   15
Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 306
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH1 VH FR3

<400> 306
Arg Ala Thr Met Thr Val Asp Lys Ser Thr Ser Thr Ala Tyr Met Glu
 1   5   10   15
Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 307
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH1 VH FR3

<400> 307
Arg Ala Thr Met Thr Val Asp Thr Ser Thr Ser Thr Ala Tyr Met Glu
 1   5   10   15
Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 308
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH1 VH FR3

<400> 308

Arg Ala Thr Met Thr Thr Asp Lys Ser Thr Ser Thr Ala Tyr Met Glu
 1   5   10   15
Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 309
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH1 VH FR3

<400> 309
Arg Val Thr Leu Thr Val Asp Lys Ser Thr Ser Thr Ala Tyr Met Glu
 1   5   10   15
Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 310
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH1 VH FR3

<400> 310
Arg Val Thr Leu Thr Val Asp Thr Ser Thr Ser Thr Ala Tyr Met Glu
 1   5   10   15
Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 311
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH1 VH FR3

<400> 311
Arg Val Thr Leu Thr Thr Asp Lys Ser Thr Ser Thr Ala Tyr Met Glu
 1   5   10   15
Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 312
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH1 VH FR3

<400> 312
Arg Val Thr Met Thr Val Asp Lys Ser Thr Ser Thr Ala Tyr Met Glu
 1   5   10   15
Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 313
<211> 32

<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH1 VH FR3

<400> 313
Arg Ala Thr Leu Thr Val Asp Lys Ser Thr Ser Thr Ala Tyr Met Glu
 1   5   10   15
Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 314
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH1 VH FR3

<400> 314
Arg Ala Thr Leu Thr Val Asp Thr Ser Thr Ser Thr Ala Tyr Met Glu
 1   5   10   15
Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 315
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH1 VH FR3

<400> 315
Arg Ala Thr Leu Thr Thr Asp Lys Ser Thr Ser Thr Ala Tyr Met Glu
 1   5   10   15
Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 316
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH1 VH FR3

<400> 316
Arg Ala Thr Met Thr Val Asp Lys Ser Thr Ser Thr Ala Tyr Met Glu
 1   5   10   15
Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 317
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH1 VH FR3

<400> 317
Arg Val Thr Leu Thr Val Asp Lys Ser Thr Ser Thr Ala Tyr Met Glu

 1   5   10   15
Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 318
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH1 VH FR3

<400> 318
Arg Ala Thr Leu Thr Val Asp Lys Ser Thr Ser Thr Ala Tyr Met Glu
 1   5   10   15
Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 319
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH1b VH CDR3

<400> 319
Ser Thr Leu Ile Thr Pro Phe Asp Tyr
 1   5

<210> 320
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH1b VH FR4

<400> 320
Trp Gly Gln Gly Thr Leu Leu Thr Val Ser Ser
 1   5   10

<210> 321
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH1b VH CDR2

<400> 321
Asn Ile Asp Pro Tyr Tyr Asp Tyr Thr Ser Tyr Ala Gln Lys Leu Gln
 1   5   10   15
Gly

<210> 322
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH1b VH CDR2

<400> 322
Asn Ile Asp Pro Tyr Tyr Asp Tyr Thr Ser Tyr Ala Gln Lys Phe Gln
 1   5   10   15
Gly

<210> 323
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR2

<400> 323
Trp Val Arg Gln Ala Pro Gly Lys Ser Leu Glu Trp Val Ser
 1   5   10

<210> 324
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR2

<400> 324
Trp Val Arg Gln Ala Pro Gly Lys Ser Leu Glu Trp Ile Ser
 1   5   10

<210> 325
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR2

<400> 325
Trp Val Arg Gln Ala Pro Gly Lys Ser Leu Glu Trp Val Gly
 1   5   10

<210> 326
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR2

<400> 326
Trp Val Arg Gln Ala Pro Gly Lys Ser Leu Glu Trp Ile Gly
 1   5   10

<210> 327
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 327
Arg Ala Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr Leu Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 328
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 328
Arg Phe Thr Leu Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr Leu Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 329
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 329
Arg Phe Thr Ile Ser Val Asp Asn Ala Lys Asn Ser Leu Tyr Leu Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 330
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 330
Arg Phe Thr Ile Ser Arg Asp Lys Ala Lys Asn Ser Leu Tyr Leu Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 331
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 331
Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Ser Ser Leu Tyr Leu Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 332

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

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 332
Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Ala Tyr Leu Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 333
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 333
Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr Met Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 334
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 334
Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr Leu Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 335
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 335
Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr Leu Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 336
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 336

Arg Ala Thr Leu Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr Leu Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 337
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 337
Arg Ala Thr Ile Ser Val Asp Asn Ala Lys Asn Ser Leu Tyr Leu Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 338
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 338
Arg Ala Thr Ile Ser Arg Asp Lys Ala Lys Asn Ser Leu Tyr Leu Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 339
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 339
Arg Ala Thr Ile Ser Arg Asp Asn Ala Lys Ser Ser Leu Tyr Leu Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 340
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 340
Arg Ala Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Ala Tyr Leu Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 341
<211> 32

<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 341
Arg Ala Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr Met Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 342
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 342
Arg Ala Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr Leu Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 343
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 343
Arg Ala Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr Leu Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 344
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 344
Arg Phe Thr Leu Ser Val Asp Asn Ala Lys Asn Ser Leu Tyr Leu Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 345
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 345
Arg Phe Thr Leu Ser Arg Asp Lys Ala Lys Asn Ser Leu Tyr Leu Gln

```
 1               5                  10                  15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20                  25                  30
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<210> 346
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 346

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Arg Phe Thr Leu Ser Arg Asp Asn Ala Lys Ser Ser Leu Tyr Leu Gln
 1               5                  10                  15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20                  25                  30
```

<210> 347
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 347

```
Arg Phe Thr Leu Ser Arg Asp Asn Ala Lys Asn Ser Ala Tyr Leu Gln
 1               5                  10                  15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20                  25                  30
```

<210> 348
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 348

```
Arg Phe Thr Leu Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr Met Gln
 1               5                  10                  15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20                  25                  30
```

<210> 349
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 349

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Arg Phe Thr Leu Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr Leu Gln
 1               5                  10                  15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20                  25                  30
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<210> 350
<211> 32
<212> PRT

<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 350
Arg Phe Thr Leu Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr Leu Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 351
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 351
Arg Phe Thr Ile Ser Val Asp Lys Ala Lys Asn Ser Leu Tyr Leu Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 352
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 352
Arg Phe Thr Ile Ser Val Asp Asn Ala Lys Ser Ser Leu Tyr Leu Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 353
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 353
Arg Phe Thr Ile Ser Val Asp Asn Ala Lys Asn Ser Ala Tyr Leu Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 354
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 354
Arg Phe Thr Ile Ser Val Asp Asn Ala Lys Asn Ser Leu Tyr Met Gln
 1   5   10   15

Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
20 25 30

<210> 355
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 355
Arg Phe Thr Ile Ser Val Asp Asn Ala Lys Asn Ser Leu Tyr Leu Gln
1 5 10 15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
20 25 30

<210> 356
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 356
Arg Phe Thr Ile Ser Val Asp Asn Ala Lys Asn Ser Leu Tyr Leu Gln
1 5 10 15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
20 25 30

<210> 357
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 357
Arg Phe Thr Ile Ser Arg Asp Lys Ala Lys Ser Ser Leu Tyr Leu Gln
1 5 10 15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
20 25 30

<210> 358
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 358
Arg Phe Thr Ile Ser Arg Asp Lys Ala Lys Asn Ser Ala Tyr Leu Gln
1 5 10 15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
20 25 30

<210> 359
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 359
Arg Phe Thr Ile Ser Arg Asp Lys Ala Lys Asn Ser Leu Tyr Met Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 360
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 360
Arg Phe Thr Ile Ser Arg Asp Lys Ala Lys Asn Ser Leu Tyr Leu Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 361
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 361
Arg Phe Thr Ile Ser Arg Asp Lys Ala Lys Asn Ser Leu Tyr Leu Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 362
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 362
Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Ser Ser Ala Tyr Leu Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 363
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 363
Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Ser Ser Leu Tyr Met Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg

20 25 30

<210> 364
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 364
Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Ser Ser Leu Tyr Leu Gln
1 5 10 15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
20 25 30

<210> 365
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 365
Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Ser Ser Leu Tyr Leu Gln
1 5 10 15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
20 25 30

<210> 366
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 366
Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Ala Tyr Met Gln
1 5 10 15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
20 25 30

<210> 367
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 367
Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Ala Tyr Leu Gln
1 5 10 15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
20 25 30

<210> 368
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 368
Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Ala Tyr Leu Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 369
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 369
Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr Met Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 370
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 370
Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr Met Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 371
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 371
Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr Leu Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 372
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 372
Arg Ala Thr Leu Ser Val Asp Asn Ala Lys Asn Ser Leu Tyr Leu Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 373
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 373
Arg Ala Thr Leu Ser Arg Asp Lys Ala Lys Asn Ser Leu Tyr Leu Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 374
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 374
Arg Ala Thr Leu Ser Arg Asp Asn Ala Lys Ser Ser Leu Tyr Leu Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 375
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 375
Arg Ala Thr Leu Ser Arg Asp Asn Ala Lys Asn Ser Ala Tyr Leu Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 376
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 376
Arg Ala Thr Leu Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr Met Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 377
<211> 32
<212> PRT
<213> Artificial Sequence

<220>

<223> humanized antibody 76E1-huVH3 VH FR3

<400> 377
Arg Ala Thr Leu Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr Leu Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 378
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 378
Arg Ala Thr Leu Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr Leu Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 379
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 379
Arg Ala Thr Ile Ser Val Asp Lys Ala Lys Asn Ser Leu Tyr Leu Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 380
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 380
Arg Ala Thr Ile Ser Val Asp Asn Ala Lys Ser Ser Leu Tyr Leu Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 381
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 381
Arg Ala Thr Ile Ser Val Asp Asn Ala Lys Asn Ser Ala Tyr Leu Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 382
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 382
Arg Ala Thr Ile Ser Val Asp Asn Ala Lys Asn Ser Leu Tyr Met Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 383
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 383
Arg Ala Thr Ile Ser Val Asp Asn Ala Lys Asn Ser Leu Tyr Leu Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 384
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 384
Arg Ala Thr Ile Ser Val Asp Asn Ala Lys Asn Ser Leu Tyr Leu Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 385
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 385
Arg Ala Thr Ile Ser Arg Asp Lys Ala Lys Ser Ser Leu Tyr Leu Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 386
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 386
Arg Ala Thr Ile Ser Arg Asp Lys Ala Lys Asn Ser Ala Tyr Leu Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 387
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 387
Arg Ala Thr Ile Ser Arg Asp Lys Ala Lys Asn Ser Leu Tyr Met Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 388
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 388
Arg Ala Thr Ile Ser Arg Asp Lys Ala Lys Asn Ser Leu Tyr Leu Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 389
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 389
Arg Ala Thr Ile Ser Arg Asp Lys Ala Lys Asn Ser Leu Tyr Leu Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 390
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 390
Arg Ala Thr Ile Ser Arg Asp Asn Ala Lys Ser Ser Ala Tyr Leu Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 391
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 391
Arg Ala Thr Ile Ser Arg Asp Asn Ala Lys Ser Ser Leu Tyr Met Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 392
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 392
Arg Ala Thr Ile Ser Arg Asp Asn Ala Lys Ser Ser Leu Tyr Leu Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 393
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 393
Arg Ala Thr Ile Ser Arg Asp Asn Ala Lys Ser Ser Leu Tyr Leu Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 394
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 394
Arg Ala Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Ala Tyr Met Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 395
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 395
Arg Ala Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Ala Tyr Leu Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 396
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 396
Arg Ala Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Ala Tyr Leu Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 397
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 397
Arg Ala Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr Met Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 398
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 398
Arg Ala Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr Met Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 399
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 399
Arg Ala Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr Leu Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 400

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

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

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

<210> 401
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 401
Arg Phe Thr Leu Ser Val Asp Asn Ala Lys Ser Ser Leu Tyr Leu Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 402
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 402
Arg Phe Thr Leu Ser Val Asp Asn Ala Lys Asn Ser Ala Tyr Leu Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 403
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 403
Arg Phe Thr Leu Ser Val Asp Asn Ala Lys Asn Ser Leu Tyr Met Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 404
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 404

Arg Phe Thr Leu Ser Val Asp Asn Ala Lys Asn Ser Leu Tyr Leu Gln
1 5 10 15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
20 25 30

<210> 405
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 405
Arg Phe Thr Leu Ser Val Asp Asn Ala Lys Asn Ser Leu Tyr Leu Gln
1 5 10 15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
20 25 30

<210> 406
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 406
Arg Phe Thr Leu Ser Arg Asp Lys Ala Ser Asn Ser Leu Tyr Leu Gln
1 5 10 15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
20 25 30

<210> 407
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 407
Arg Phe Thr Leu Ser Arg Asp Lys Ala Lys Asn Ser Ala Tyr Leu Gln
1 5 10 15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
20 25 30

<210> 408
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 408
Arg Phe Thr Leu Ser Arg Asp Lys Ala Lys Asn Ser Leu Tyr Met Gln
1 5 10 15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
20 25 30

<210> 409
<211> 32

<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 409
Arg Phe Thr Leu Ser Arg Asp Lys Ala Lys Asn Ser Leu Tyr Leu Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 410
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 410
Arg Phe Thr Leu Ser Arg Asp Lys Ala Lys Asn Ser Leu Tyr Leu Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 411
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 411
Arg Phe Thr Leu Ser Arg Asp Asn Ala Lys Ser Ser Ala Tyr Leu Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 412
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 412
Arg Phe Thr Leu Ser Arg Asp Asn Ala Lys Ser Ser Leu Tyr Met Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 413
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 413
Arg Phe Thr Leu Ser Arg Asp Asn Ala Lys Ser Ser Leu Tyr Leu Gln

 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 414
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 414
Arg Phe Thr Leu Ser Arg Asp Asn Ala Lys Ser Ser Leu Tyr Leu Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 415
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 415
Arg Phe Thr Leu Ser Arg Asp Asn Ala Lys Asn Ser Ala Tyr Met Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 416
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 416
Arg Phe Thr Leu Ser Arg Asp Asn Ala Lys Asn Ser Ala Tyr Leu Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 417
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 417
Arg Phe Thr Leu Ser Arg Asp Asn Ala Lys Asn Ser Ala Tyr Leu Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 418
<211> 32
<212> PRT

<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 418
Arg Phe Thr Leu Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr Met Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 419
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 419
Arg Phe Thr Leu Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr Met Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 420
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 420
Arg Phe Thr Leu Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr Leu Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 421
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 421
Arg Phe Thr Ile Ser Val Asp Lys Ala Lys Ser Ser Leu Tyr Leu Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 422
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 422
Arg Phe Thr Ile Ser Val Asp Lys Ala Lys Asn Ser Ala Tyr Leu Gln
 1   5   10   15

Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
20 25 30

<210> 423
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 423
Arg Phe Thr Ile Ser Val Asp Lys Ala Lys Asn Ser Leu Tyr Met Gln
1 5 10 15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
20 25 30

<210> 424
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 424
Arg Phe Thr Ile Ser Val Asp Lys Ala Lys Asn Ser Leu Tyr Leu Gln
1 5 10 15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
20 25 30

<210> 425
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 425
Arg Phe Thr Ile Ser Val Asp Lys Ala Lys Asn Ser Leu Tyr Leu Gln
1 5 10 15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
20 25 30

<210> 426
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 426
Arg Phe Thr Ile Ser Val Asp Asn Ala Lys Ser Ser Ala Tyr Leu Gln
1 5 10 15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
20 25 30

<210> 427
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 427
Arg Phe Thr Ile Ser Val Asp Asn Ala Lys Ser Ser Leu Tyr Met Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 428
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 428
Arg Phe Thr Ile Ser Val Asp Asn Ala Lys Ser Ser Leu Tyr Leu Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 429
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 429
Arg Phe Thr Ile Ser Val Asp Asn Ala Lys Ser Ser Leu Tyr Leu Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 430
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 430
Arg Phe Thr Ile Ser Val Asp Asn Ala Lys Asn Ser Ala Tyr Met Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 431
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 431
Arg Phe Thr Ile Ser Val Asp Asn Ala Lys Asn Ser Ala Tyr Leu Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg

20 25 30

<210> 432
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 432
Arg Phe Thr Ile Ser Val Asp Asn Ala Lys Asn Ser Ala Tyr Leu Gln
1 5 10 15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
20 25 30

<210> 433
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 433
Arg Phe Thr Ile Ser Val Asp Asn Ala Lys Asn Ser Leu Tyr Met Gln
1 5 10 15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
20 25 30

<210> 434
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 434
Arg Phe Thr Ile Ser Val Asp Asn Ala Lys Asn Ser Leu Tyr Met Gln
1 5 10 15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
20 25 30

<210> 435
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 435
Arg Phe Thr Ile Ser Val Asp Asn Ala Lys Asn Ser Leu Tyr Leu Gln
1 5 10 15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
20 25 30

<210> 436
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 436
Arg Phe Thr Ile Ser Arg Asp Lys Ala Lys Ser Ser Ala Tyr Leu Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 437
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 437
Arg Phe Thr Ile Ser Arg Asp Lys Ala Lys Ser Ser Leu Tyr Met Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 438
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 438
Arg Phe Thr Ile Ser Arg Asp Lys Ala Lys Ser Ser Leu Tyr Leu Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 439
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 439
Arg Phe Thr Ile Ser Arg Asp Lys Ala Lys Ser Ser Leu Tyr Leu Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 440
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 440
Arg Phe Thr Ile Ser Arg Asp Lys Ala Lys Asn Ser Ala Tyr Met Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 441
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 441
Arg Phe Thr Ile Ser Arg Asp Lys Ala Lys Asn Ser Ala Tyr Leu Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 442
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 442
Arg Phe Thr Ile Ser Arg Asp Lys Ala Lys Asn Ser Ala Tyr Leu Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 443
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 443
Arg Phe Thr Ile Ser Arg Asp Lys Ala Lys Asn Ser Leu Tyr Met Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 444
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 444
Arg Phe Thr Ile Ser Arg Asp Lys Ala Lys Asn Ser Leu Tyr Met Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 445
<211> 32
<212> PRT
<213> Artificial Sequence

<220>

<223> humanized antibody 76E1-huVH3 VH FR3

<400> 445
Arg Phe Thr Ile Ser Arg Asp Lys Ala Lys Asn Ser Leu Tyr Leu Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 446
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 446
Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Ser Ser Ala Tyr Met Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 447
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 447
Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Ser Ser Ala Tyr Leu Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 448
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 448
Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Ser Ser Ala Tyr Leu Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 449
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 449
Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Ser Ser Leu Tyr Met Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 450
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 450
Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Ser Ser Leu Tyr Met Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 451
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 451
Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Ser Ser Leu Tyr Leu Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 452
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 452
Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Ala Tyr Met Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 453
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 453
Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Ala Tyr Met Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 454
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 454
Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Ala Tyr Leu Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 455
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 455
Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr Met Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 456
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 456
Arg Ala Thr Leu Ser Val Asp Lys Ala Lys Asn Ser Leu Tyr Leu Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 457
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 457
Arg Ala Thr Leu Ser Val Asp Asn Ala Lys Ser Ser Leu Tyr Leu Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 458
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 458
Arg Ala Thr Leu Ser Val Asp Asn Ala Lys Asn Ser Ala Tyr Leu Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 459
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 459
Arg Ala Thr Leu Ser Val Asp Asn Ala Lys Asn Ser Leu Tyr Met Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 460
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 460
Arg Ala Thr Leu Ser Val Asp Asn Ala Lys Asn Ser Leu Tyr Leu Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 461
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 461
Arg Ala Thr Leu Ser Val Asp Asn Ala Lys Asn Ser Leu Tyr Leu Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 462
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 462
Arg Ala Thr Leu Ser Arg Asp Lys Ala Lys Ser Ser Leu Tyr Leu Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 463
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 463
Arg Ala Thr Leu Ser Arg Asp Lys Ala Lys Asn Ser Ala Tyr Leu Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 464
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 464
Arg Ala Thr Leu Ser Arg Asp Lys Ala Lys Asn Ser Leu Tyr Met Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 465
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 465
Arg Ala Thr Leu Ser Arg Asp Lys Ala Lys Asn Ser Leu Tyr Leu Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 466
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 466
Arg Ala Thr Leu Ser Arg Asp Lys Ala Lys Asn Ser Leu Tyr Leu Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 467
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 467
Arg Ala Thr Leu Ser Arg Asp Asn Ala Lys Ser Ser Ala Tyr Leu Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 468

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

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 468
Arg Ala Thr Leu Ser Arg Asp Asn Ala Lys Ser Ser Leu Tyr Met Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 469
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 469
Arg Ala Thr Leu Ser Arg Asp Asn Ala Lys Ser Ser Leu Tyr Leu Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 470
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 470
Arg Ala Thr Leu Ser Arg Asp Asn Ala Lys Ser Ser Leu Tyr Leu Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 471
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 471
Arg Ala Thr Leu Ser Arg Asp Asn Ala Lys Asn Ser Ala Tyr Met Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 472
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 472

Arg Ala Thr Leu Ser Arg Asp Asn Ala Lys Asn Ser Ala Tyr Leu Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 473
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 473
Arg Ala Thr Leu Ser Arg Asp Asn Ala Lys Asn Ser Ala Tyr Leu Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 474
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 474
Arg Ala Thr Leu Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr Met Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 475
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 475
Arg Ala Thr Leu Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr Met Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 476
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 476
Arg Ala Thr Leu Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr Leu Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 477
<211> 32

<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 477
Arg Ala Thr Ile Ser Val Asp Lys Ala Lys Ser Ser Leu Tyr Leu Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 478
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 478
Arg Ala Thr Ile Ser Val Asp Lys Ala Lys Asn Ser Ala Tyr Leu Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 479
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 479
Arg Ala Thr Ile Ser Val Asp Lys Ala Lys Asn Ser Leu Tyr Met Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 480
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 480
Arg Ala Thr Ile Ser Val Asp Lys Ala Lys Asn Ser Leu Tyr Leu Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 481
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 481
Arg Ala Thr Ile Ser Val Asp Lys Ala Lys Asn Ser Leu Tyr Leu Gln

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 1               5                  10                  15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20                  25                  30


<210> 482
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 482
Arg Ala Thr Ile Ser Val Asp Asn Ala Lys Ser Ser Ala Tyr Leu Gln
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            20                  25                  30


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<400> 483
Arg Ala Thr Ile Ser Val Asp Asn Ala Lys Ser Ser Leu Tyr Met Gln
 1               5                  10                  15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20                  25                  30


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<220>
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<400> 484
Arg Ala Thr Ile Ser Val Asp Asn Ala Lys Ser Ser Leu Tyr Leu Gln
 1               5                  10                  15
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            20                  25                  30


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<400> 485
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Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
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 1   5   10   15
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            20   25   30

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<220>
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 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
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<220>
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<400> 490
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Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
20 25 30

<210> 491
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<212> PRT
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<220>
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<400> 491
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Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
20 25 30

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<400> 492
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Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
20 25 30

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<400> 493
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Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg

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<400> 500
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20 25 30

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<400> 501
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20 25 30

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<400> 502
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20 25 30

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<220>
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<400> 503
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20 25 30

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<400> 504
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<400> 505
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            20   25   30

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<220>
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            20   25   30

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            20   25   30

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<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 552
Arg Phe Thr Ile Ser Val Asp Lys Ala Lys Asn Ser Ala Tyr Leu Gln
 1               5                  10                  15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20                  25                  30


<210> 553
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 553
Arg Phe Thr Ile Ser Val Asp Lys Ala Lys Asn Ser Ala Tyr Leu Gln
 1               5                  10                  15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20                  25                  30


<210> 554
<211> 32
<212> PRT
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<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 554
Arg Phe Thr Ile Ser Val Asp Lys Ala Lys Asn Ser Leu Tyr Met Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 555
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 555
Arg Phe Thr Ile Ser Val Asp Lys Ala Lys Asn Ser Leu Tyr Met Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 556
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 556
Arg Phe Thr Ile Ser Val Asp Lys Ala Lys Asn Ser Leu Tyr Leu Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 557
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 557
Arg Phe Thr Ile Ser Val Asp Asn Ala Lys Ser Ser Ala Tyr Leu Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 558
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 558
Arg Phe Thr Ile Ser Val Asp Asn Ala Lys Ser Ser Ala Tyr Leu Gln
 1   5   10   15

Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 559
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 559
Arg Phe Thr Ile Ser Val Asp Asn Ala Lys Ser Ser Leu Tyr Met Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 560
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 560
Arg Phe Thr Ile Ser Val Asp Asn Ala Lys Ser Ser Leu Tyr Met Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 561
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 561
Arg Phe Thr Ile Ser Val Asp Asn Ala Lys Ser Ser Leu Tyr Leu Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 562
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 562
Arg Phe Thr Ile Ser Val Asp Asn Ala Lys Asn Ser Ala Tyr Met Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 563
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 563
Arg Phe Thr Ile Ser Val Asp Asn Ala Lys Asn Ser Ala Tyr Met Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 564
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 564
Arg Phe Thr Ile Ser Val Asp Asn Ala Lys Asn Ser Ala Tyr Leu Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 565
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 565
Arg Phe Thr Ile Ser Val Asp Asn Ala Lys Asn Ser Leu Tyr Met Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 566
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 566
Arg Phe Thr Ile Ser Arg Asp Lys Ala Lys Ser Ser Ala Tyr Met Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 567
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 567
Arg Phe Thr Ile Ser Arg Asp Lys Ala Lys Ser Ser Ala Tyr Leu Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg

20 25 30

<210> 568
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 568
Arg Phe Thr Ile Ser Arg Asp Lys Ala Lys Ser Ser Ala Tyr Leu Gln
1 5 10 15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
20 25 30

<210> 569
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 569
Arg Phe Thr Ile Ser Arg Asp Lys Ala Lys Ser Ser Leu Tyr Met Gln
1 5 10 15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
20 25 30

<210> 570
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 570
Arg Phe Thr Ile Ser Arg Asp Lys Ala Lys Ser Ser Leu Tyr Met Gln
1 5 10 15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
20 25 30

<210> 571
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 571
Arg Phe Thr Ile Ser Arg Asp Lys Ala Lys Ser Ser Leu Tyr Leu Gln
1 5 10 15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
20 25 30

<210> 572
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 572
Arg Phe Thr Ile Ser Arg Asp Lys Ala Lys Asn Ser Ala Tyr Met Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 573
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 573
Arg Phe Thr Ile Ser Arg Asp Lys Ala Lys Asn Ser Ala Tyr Met Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 574
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 574
Arg Phe Thr Ile Ser Arg Asp Lys Ala Lys Asn Ser Ala Tyr Leu Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 575
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 575
Arg Phe Thr Ile Ser Arg Asp Lys Ala Lys Asn Ser Leu Tyr Met Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 576
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
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<400> 576
Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Ser Ser Ala Tyr Met Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 577
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 577
Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Ser Ser Ala Tyr Met Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 578
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 578
Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Ser Ser Ala Tyr Leu Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 579
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 579
Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Ser Ser Leu Tyr Met Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 580
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 580
Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Ala Tyr Met Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 581
<211> 32
<212> PRT
<213> Artificial Sequence

<220>

<223> humanized antibody 76E1-huVH3 VH FR3

<400> 581
Arg Ala Thr Leu Ser Val Asp Lys Ala Ser Asn Ser Leu Tyr Leu Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 582
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 582
Arg Ala Thr Leu Ser Val Asp Lys Ala Lys Asn Ser Ala Tyr Leu Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 583
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 583
Arg Ala Thr Leu Ser Val Asp Lys Ala Lys Asn Ser Leu Tyr Met Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 584
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 584
Arg Ala Thr Leu Ser Val Asp Lys Ala Lys Asn Ser Leu Tyr Leu Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 585
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 585
Arg Ala Thr Leu Ser Val Asp Lys Ala Lys Asn Ser Leu Tyr Leu Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 586
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 586
Arg Ala Thr Leu Ser Val Asp Asn Ala Lys Ser Ser Ala Tyr Leu Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 587
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 587
Arg Ala Thr Leu Ser Val Asp Asn Ala Lys Ser Ser Leu Tyr Met Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 588
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 588
Arg Ala Thr Leu Ser Val Asp Asn Ala Lys Ser Ser Leu Tyr Leu Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 589
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 589
Arg Ala Thr Leu Ser Val Asp Asn Ala Lys Ser Ser Leu Tyr Leu Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 590
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 590
Arg Ala Thr Leu Ser Val Asp Asn Ala Lys Asn Ser Ala Tyr Met Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 591
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 591
Arg Ala Thr Leu Ser Val Asp Asn Ala Lys Asn Ser Ala Tyr Leu Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 592
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 592
Arg Ala Thr Leu Ser Val Asp Asn Ala Lys Asn Ser Ala Tyr Leu Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 593
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 593
Arg Ala Thr Leu Ser Val Asp Asn Ala Lys Asn Ser Leu Tyr Met Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 594
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 594
Arg Ala Thr Leu Ser Val Asp Asn Ala Lys Asn Ser Leu Tyr Met Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 595
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 595
Arg Ala Thr Leu Ser Val Asp Asn Ala Lys Asn Ser Leu Tyr Leu Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 596
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<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 596
Arg Ala Thr Leu Ser Arg Asp Lys Ala Lys Ser Ser Ala Tyr Leu Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 597
<211> 32
<212> PRT
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<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 597
Arg Ala Thr Leu Ser Arg Asp Lys Ala Lys Ser Ser Leu Tyr Met Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 598
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<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 598
Arg Ala Thr Leu Ser Arg Asp Lys Ala Lys Ser Ser Leu Tyr Leu Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 599
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<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 599
Arg Ala Thr Leu Ser Arg Asp Lys Ala Lys Ser Ser Leu Tyr Leu Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 600
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 600
Arg Ala Thr Leu Ser Arg Asp Lys Ala Lys Asn Ser Ala Tyr Met Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 601
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 601
Arg Ala Thr Leu Ser Arg Asp Lys Ala Lys Asn Ser Ala Tyr Leu Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 602
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
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<400> 602
Arg Ala Thr Leu Ser Arg Asp Lys Ala Lys Asn Ser Ala Tyr Leu Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 603
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
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<400> 603
Arg Ala Thr Leu Ser Arg Asp Lys Ala Lys Asn Ser Leu Tyr Met Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 604

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

<220>
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<400> 604
Arg Ala Thr Leu Ser Arg Asp Lys Ala Lys Asn Ser Leu Tyr Met Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 605
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<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 605
Arg Ala Thr Leu Ser Arg Asp Lys Ala Lys Asn Ser Leu Tyr Leu Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 606
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<212> PRT
<213> Artificial Sequence

<220>
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<400> 606
Arg Ala Thr Leu Ser Arg Asp Asn Ala Lys Ser Ser Ala Tyr Met Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 607
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<212> PRT
<213> Artificial Sequence

<220>
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<400> 607
Arg Ala Thr Leu Ser Arg Asp Asn Ala Lys Ser Ser Ala Tyr Leu Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 608
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 608

Arg Ala Thr Leu Ser Arg Asp Asn Ala Lys Ser Ser Ala Tyr Leu Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 609
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 609
Arg Ala Thr Leu Ser Arg Asp Asn Ala Lys Ser Ser Leu Tyr Met Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 610
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 610
Arg Ala Thr Leu Ser Arg Asp Asn Ala Lys Ser Ser Leu Tyr Met Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 611
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 611
Arg Ala Thr Leu Ser Arg Asp Asn Ala Lys Ser Ser Leu Tyr Leu Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 612
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 612
Arg Ala Thr Leu Ser Arg Asp Asn Ala Lys Asn Ser Ala Tyr Met Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 613
<211> 32

<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 613
Arg Ala Thr Leu Ser Arg Asp Asn Ala Lys Asn Ser Ala Tyr Met Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 614
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
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<400> 614
Arg Ala Thr Leu Ser Arg Asp Asn Ala Lys Asn Ser Ala Tyr Leu Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 615
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
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<400> 615
Arg Ala Thr Leu Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr Met Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 616
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<213> Artificial Sequence

<220>
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<400> 616
Arg Ala Thr Ile Ser Val Asp Lys Ala Lys Ser Ser Ala Tyr Leu Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 617
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 617
Arg Ala Thr Ile Ser Val Asp Lys Ala Lys Ser Ser Leu Tyr Met Gln

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 1               5                  10                  15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20                  25                  30
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<210> 618
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 618

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Arg Ala Thr Ile Ser Val Asp Lys Ala Lys Ser Ser Leu Tyr Leu Gln
 1               5                  10                  15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20                  25                  30
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<210> 619
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 619

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Arg Ala Thr Ile Ser Val Asp Lys Ala Lys Ser Ser Leu Tyr Leu Gln
 1               5                  10                  15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20                  25                  30
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<210> 620
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 620

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Arg Ala Thr Ile Ser Val Asp Lys Ala Lys Asn Ser Ala Tyr Met Gln
 1               5                  10                  15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20                  25                  30
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<210> 621
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 621

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Arg Ala Thr Ile Ser Val Asp Lys Ala Lys Asn Ser Ala Tyr Leu Gln
 1               5                  10                  15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20                  25                  30
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<210> 622
<211> 32
<212> PRT

<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 622
Arg Ala Thr Ile Ser Val Asp Lys Ala Lys Asn Ser Ala Tyr Leu Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 623
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 623
Arg Ala Thr Ile Ser Val Asp Lys Ala Lys Asn Ser Leu Tyr Met Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 624
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 624
Arg Ala Thr Ile Ser Val Asp Lys Ala Lys Asn Ser Leu Tyr Met Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 625
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 625
Arg Ala Thr Ile Ser Val Asp Lys Ala Lys Asn Ser Leu Tyr Leu Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 626
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 626
Arg Ala Thr Ile Ser Val Asp Asn Ala Lys Ser Ser Ala Tyr Met Gln
 1   5   10   15

Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
20 25 30

<210> 627
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 627
Arg Ala Thr Ile Ser Val Asp Asn Ala Lys Ser Ser Ala Tyr Leu Gln
1 5 10 15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
20 25 30

<210> 628
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 628
Arg Ala Thr Ile Ser Val Asp Asn Ala Lys Ser Ser Ala Tyr Leu Gln
1 5 10 15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
20 25 30

<210> 629
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 629
Arg Ala Thr Ile Ser Val Asp Asn Ala Lys Ser Ser Leu Tyr Met Gln
1 5 10 15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
20 25 30

<210> 630
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 630
Arg Ala Thr Ile Ser Val Asp Asn Ala Lys Ser Ser Leu Tyr Met Gln
1 5 10 15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
20 25 30

<210> 631
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 631
Arg Ala Thr Ile Ser Val Asp Asn Ala Lys Ser Ser Leu Tyr Leu Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 632
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 632
Arg Ala Thr Ile Ser Val Asp Asn Ala Lys Asn Ser Ala Tyr Met Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 633
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 633
Arg Ala Thr Ile Ser Val Asp Asn Ala Lys Asn Ser Ala Tyr Met Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 634
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 634
Arg Ala Thr Ile Ser Val Asp Asn Ala Lys Asn Ser Ala Tyr Leu Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 635
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 635
Arg Ala Thr Ile Ser Val Asp Asn Ala Lys Asn Ser Leu Tyr Met Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr

20 25 30

<210> 636
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 636
Arg Ala Thr Ile Ser Arg Asp Lys Ala Lys Ser Ser Ala Tyr Met Gln
1 5 10 15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
20 25 30

<210> 637
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 637
Arg Ala Thr Ile Ser Arg Asp Lys Ala Lys Ser Ser Ala Tyr Leu Gln
1 5 10 15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
20 25 30

<210> 638
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 638
Arg Ala Thr Ile Ser Arg Asp Lys Ala Lys Ser Ser Ala Tyr Leu Gln
1 5 10 15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
20 25 30

<210> 639
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 639
Arg Ala Thr Ile Ser Arg Asp Lys Ala Lys Ser Ser Leu Tyr Met Gln
1 5 10 15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
20 25 30

<210> 640
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 640
Arg Ala Thr Ile Ser Arg Asp Lys Ala Lys Ser Ser Leu Tyr Met Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 641
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 641
Arg Ala Thr Ile Ser Arg Asp Lys Ala Lys Ser Ser Leu Tyr Leu Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 642
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 642
Arg Ala Thr Ile Ser Arg Asp Lys Ala Lys Asn Ser Ala Tyr Met Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 643
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 643
Arg Ala Thr Ile Ser Arg Asp Lys Ala Lys Asn Ser Ala Tyr Met Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 644
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 644
Arg Ala Thr Ile Ser Arg Asp Lys Ala Lys Asn Ser Ala Tyr Leu Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 645
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 645
Arg Ala Thr Ile Ser Arg Asp Lys Ala Lys Asn Ser Leu Tyr Met Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 646
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 646
Arg Ala Thr Ile Ser Arg Asp Asn Ala Lys Ser Ser Ala Tyr Met Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 647
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 647
Arg Ala Thr Ile Ser Arg Asp Asn Ala Lys Ser Ser Ala Tyr Met Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 648
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 648
Arg Ala Thr Ile Ser Arg Asp Asn Ala Lys Ser Ser Ala Tyr Leu Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 649
<211> 32
<212> PRT
<213> Artificial Sequence

<220>

<223> humanized antibody 76E1-huVH3 VH FR3

<400> 649
Arg Ala Thr Ile Ser Arg Asp Asn Ala Lys Ser Ser Leu Tyr Met Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 650
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 650
Arg Ala Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Ala Tyr Met Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 651
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 651
Arg Phe Thr Leu Ser Val Asp Lys Ala Lys Ser Ser Ala Tyr Leu Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 652
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 652
Arg Phe Thr Leu Ser Val Asp Lys Ala Lys Ser Ser Leu Tyr Met Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 653
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 653
Arg Phe Thr Leu Ser Val Asp Lys Ala Lys Ser Ser Leu Tyr Leu Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 654
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 654
Arg Phe Thr Leu Ser Val Asp Lys Ala Lys Ser Ser Leu Tyr Leu Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 655
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 655
Arg Phe Thr Leu Ser Val Asp Lys Ala Lys Asn Ser Ala Tyr Met Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 656
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 656
Arg Phe Thr Leu Ser Val Asp Lys Ala Lys Asn Ser Ala Tyr Leu Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 657
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 657
Arg Phe Thr Leu Ser Val Asp Lys Ala Lys Asn Ser Ala Tyr Leu Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 658
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 658
Arg Phe Thr Leu Ser Val Asp Lys Ala Lys Asn Ser Leu Tyr Met Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 659
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 659
Arg Phe Thr Leu Ser Val Asp Lys Ala Lys Asn Ser Leu Tyr Met Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 660
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 660
Arg Phe Thr Leu Ser Val Asp Lys Ala Lys Asn Ser Leu Tyr Leu Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 661
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 661
Arg Phe Thr Leu Ser Val Asp Asn Ala Lys Ser Ser Ala Tyr Met Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 662
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 662
Arg Phe Thr Leu Ser Val Asp Asn Ala Lys Ser Ser Ala Tyr Leu Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 663
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 663
Arg Phe Thr Leu Ser Val Asp Asn Ala Lys Ser Ser Ala Tyr Leu Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 664
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 664
Arg Phe Thr Leu Ser Val Asp Asn Ala Lys Ser Ser Leu Tyr Met Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 665
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 665
Arg Phe Thr Leu Ser Val Asp Asn Ala Lys Ser Ser Leu Tyr Met Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 666
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 666
Arg Phe Thr Leu Ser Val Asp Asn Ala Lys Ser Ser Leu Tyr Leu Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 667
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 667
Arg Phe Thr Leu Ser Val Asp Asn Ala Lys Asn Ser Ala Tyr Met Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 668
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 668
Arg Phe Thr Leu Ser Val Asp Asn Ala Lys Asn Ser Ala Tyr Met Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 669
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 669
Arg Phe Thr Leu Ser Val Asp Asn Ala Lys Asn Ser Ala Tyr Leu Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 670
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 670
Arg Phe Thr Leu Ser Val Asp Asn Ala Lys Asn Ser Leu Tyr Met Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 671
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 671
Arg Phe Thr Leu Ser Arg Asp Lys Ala Ser Asn Ser Ala Tyr Met Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 672

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

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 672
Arg Phe Thr Leu Ser Arg Asp Lys Ala Ser Asn Ser Ala Tyr Leu Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 673
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 673
Arg Phe Thr Leu Ser Arg Asp Lys Ala Ser Asn Ser Ala Tyr Leu Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 674
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 674
Arg Phe Thr Leu Ser Arg Asp Lys Ala Ser Asn Ser Leu Tyr Met Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 675
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 675
Arg Phe Thr Leu Ser Arg Asp Lys Ala Ser Asn Ser Leu Tyr Met Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 676
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 676

Arg Phe Thr Leu Ser Arg Asp Lys Ala Ser Asn Ser Leu Tyr Leu Gln
1 5 10 15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
20 25 30

<210> 677
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 677
Arg Phe Thr Leu Ser Arg Asp Lys Ala Lys Asn Ser Ala Tyr Met Gln
1 5 10 15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
20 25 30

<210> 678
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 678
Arg Phe Thr Leu Ser Arg Asp Lys Ala Lys Asn Ser Ala Tyr Met Gln
1 5 10 15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
20 25 30

<210> 679
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 679
Arg Phe Thr Leu Ser Arg Asp Lys Ala Lys Asn Ser Ala Tyr Leu Gln
1 5 10 15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
20 25 30

<210> 680
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 680
Arg Phe Thr Leu Ser Arg Asp Lys Ala Lys Asn Ser Leu Tyr Met Gln
1 5 10 15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
20 25 30

<210> 681
<211> 32

<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 681
Arg Phe Thr Leu Ser Arg Asp Asn Ala Lys Ser Ser Ala Tyr Met Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 682
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 682
Arg Phe Thr Leu Ser Arg Asp Asn Ala Lys Ser Ser Ala Tyr Met Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 683
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 683
Arg Phe Thr Leu Ser Arg Asp Asn Ala Lys Ser Ser Ala Tyr Leu Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 684
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 684
Arg Phe Thr Leu Ser Arg Asp Asn Ala Lys Ser Ser Leu Tyr Met Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 685
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 685
Arg Phe Thr Leu Ser Arg Asp Asn Ala Lys Asn Ser Ala Tyr Met Gln

 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 686
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 686
Arg Phe Thr Ile Ser Val Asp Lys Ala Lys Ser Ser Ala Tyr Met Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 687
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 687
Arg Phe Thr Ile Ser Val Asp Lys Ala Lys Ser Ser Ala Tyr Leu Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 688
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 688
Arg Phe Thr Ile Ser Val Asp Lys Ala Lys Ser Ser Ala Tyr Leu Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 689
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 689
Arg Phe Thr Ile Ser Val Asp Lys Ala Lys Ser Ser Leu Tyr Met Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 690
<211> 32
<212> PRT

<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 690
Arg Phe Thr Ile Ser Val Asp Lys Ala Lys Ser Ser Leu Tyr Met Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 691
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 691
Arg Phe Thr Ile Ser Val Asp Lys Ala Lys Ser Ser Leu Tyr Leu Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 692
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 692
Arg Phe Thr Ile Ser Val Asp Lys Ala Lys Asn Ser Ala Tyr Met Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 693
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 693
Arg Phe Thr Ile Ser Val Asp Lys Ala Lys Asn Ser Ala Tyr Met Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 694
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 694
Arg Phe Thr Ile Ser Val Asp Lys Ala Lys Asn Ser Ala Tyr Leu Gln
 1   5   10   15

Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
20 25 30

<210> 695
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 695
Arg Phe Thr Ile Ser Val Asp Lys Ala Lys Asn Ser Leu Tyr Met Gln
1 5 10 15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
20 25 30

<210> 696
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 696
Arg Phe Thr Ile Ser Val Asp Asn Ala Lys Ser Ser Ala Tyr Leu Gln
1 5 10 15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
20 25 30

<210> 697
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 697
Arg Phe Thr Ile Ser Val Asp Asn Ala Lys Ser Ser Leu Tyr Met Gln
1 5 10 15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
20 25 30

<210> 698
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 698
Arg Phe Thr Ile Ser Val Asp Asn Ala Lys Asn Ser Ala Tyr Met Gln
1 5 10 15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
20 25 30

<210> 699
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 699
Arg Phe Thr Ile Ser Arg Asp Lys Ala Lys Ser Ser Ala Tyr Met Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 700
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 700
Arg Phe Thr Ile Ser Arg Asp Lys Ala Lys Ser Ser Ala Tyr Met Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 701
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 701
Arg Phe Thr Ile Ser Arg Asp Lys Ala Lys Ser Ser Ala Tyr Leu Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 702
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 702
Arg Phe Thr Ile Ser Arg Asp Lys Ala Lys Ser Ser Leu Tyr Met Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 703
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 703
Arg Phe Thr Ile Ser Arg Asp Lys Ala Lys Asn Ser Ala Tyr Met Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr

20 25 30

<210> 704
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 704
Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Ser Ser Ala Tyr Met Gln
1 5 10 15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
20 25 30

<210> 705
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 705
Arg Ala Thr Leu Ser Val Asp Lys Ala Ser Asn Ser Ala Tyr Leu Gln
1 5 10 15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
20 25 30

<210> 706
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 706
Arg Ala Thr Leu Ser Val Asp Lys Ala Ser Asn Ser Leu Tyr Met Gln
1 5 10 15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
20 25 30

<210> 707
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 707
Arg Ala Thr Leu Ser Val Asp Lys Ala Ser Asn Ser Leu Tyr Leu Gln
1 5 10 15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
20 25 30

<210> 708
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 708
Arg Ala Thr Leu Ser Val Asp Lys Ala Ser Asn Ser Leu Tyr Leu Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 709
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 709
Arg Ala Thr Leu Ser Val Asp Lys Ala Lys Asn Ser Ala Tyr Met Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 710
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 710
Arg Ala Thr Leu Ser Val Asp Lys Ala Lys Asn Ser Ala Tyr Leu Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 711
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 711
Arg Ala Thr Leu Ser Val Asp Lys Ala Lys Asn Ser Ala Tyr Leu Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 712
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 712
Arg Ala Thr Leu Ser Val Asp Lys Ala Lys Asn Ser Leu Tyr Met Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 713
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 713
Arg Ala Thr Leu Ser Val Asp Lys Ala Lys Asn Ser Leu Tyr Met Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 714
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 714
Arg Ala Thr Leu Ser Val Asp Lys Ala Lys Asn Ser Leu Tyr Leu Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 715
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 715
Arg Ala Thr Leu Ser Val Asp Asn Ala Lys Ser Ser Ala Tyr Met Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 716
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 716
Arg Ala Thr Leu Ser Val Asp Asn Ala Lys Ser Ser Ala Tyr Leu Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 717
<211> 32
<212> PRT
<213> Artificial Sequence

<220>

<223> humanized antibody 76E1-huVH3 VH FR3

<400> 717
Arg Ala Thr Leu Ser Val Asp Asn Ala Lys Ser Ser Ala Tyr Leu Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 718
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 718
Arg Ala Thr Leu Ser Val Asp Asn Ala Lys Ser Ser Leu Tyr Met Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 719
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 719
Arg Ala Thr Leu Ser Val Asp Asn Ala Lys Ser Ser Leu Tyr Met Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 720
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 720
Arg Ala Thr Leu Ser Val Asp Asn Ala Lys Ser Ser Leu Tyr Leu Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 721
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 721
Arg Ala Thr Leu Ser Val Asp Asn Ala Lys Asn Ser Ala Tyr Met Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 722
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 722
Arg Ala Thr Leu Ser Val Asp Asn Ala Lys Asn Ser Ala Tyr Met Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 723
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 723
Arg Ala Thr Leu Ser Val Asp Asn Ala Lys Asn Ser Ala Tyr Leu Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 724
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 724
Arg Ala Thr Leu Ser Val Asp Asn Ala Lys Asn Ser Leu Tyr Met Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 725
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 725
Arg Ala Thr Leu Ser Arg Asp Lys Ala Lys Ser Ser Ala Tyr Met Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 726
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 726
Arg Ala Thr Leu Ser Arg Asp Lys Ala Lys Ser Ser Ala Tyr Leu Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 727
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 727
Arg Ala Thr Leu Ser Arg Asp Lys Ala Lys Ser Ser Ala Tyr Leu Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 728
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 728
Arg Ala Thr Leu Ser Arg Asp Lys Ala Lys Ser Ser Leu Tyr Met Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 729
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 729
Arg Ala Thr Leu Ser Arg Asp Lys Ala Lys Ser Ser Leu Tyr Met Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 730
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 730
Arg Ala Thr Leu Ser Arg Asp Lys Ala Lys Ser Ser Leu Tyr Leu Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 731
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 731
Arg Ala Thr Leu Ser Arg Asp Lys Ala Lys Asn Ser Ala Tyr Met Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 732
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 732
Arg Ala Thr Leu Ser Arg Asp Lys Ala Lys Asn Ser Ala Tyr Met Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 733
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 733
Arg Ala Thr Leu Ser Arg Asp Lys Ala Lys Asn Ser Ala Tyr Leu Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 734
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 734
Arg Ala Thr Leu Ser Arg Asp Lys Ala Lys Asn Ser Leu Tyr Met Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 735
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 735
Arg Ala Thr Leu Ser Arg Asp Asn Ala Lys Ser Ser Ala Tyr Met Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 736
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 736
Arg Ala Thr Leu Ser Arg Asp Asn Ala Lys Ser Ser Ala Tyr Met Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 737
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 737
Arg Ala Thr Leu Ser Arg Asp Asn Ala Lys Ser Ser Ala Tyr Leu Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 738
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 738
Arg Ala Thr Leu Ser Arg Asp Asn Ala Lys Ser Ser Leu Tyr Met Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 739
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 739
Arg Ala Thr Leu Ser Arg Asp Asn Ala Lys Asn Ser Ala Tyr Met Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 740

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

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 740
Arg Ala Thr Ile Ser Val Asp Lys Ala Lys Ser Ser Ala Tyr Met Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 741
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 741
Arg Ala Thr Ile Ser Val Asp Lys Ala Lys Ser Ser Ala Tyr Leu Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 742
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 742
Arg Ala Thr Ile Ser Val Asp Lys Ala Lys Ser Ser Ala Tyr Leu Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 743
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 743
Arg Ala Thr Ile Ser Val Asp Lys Ala Lys Ser Ser Leu Tyr Met Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 744
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 744

Arg Ala Thr Ile Ser Val Asp Lys Ala Lys Ser Ser Leu Tyr Met Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 745
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 745
Arg Ala Thr Ile Ser Val Asp Lys Ala Lys Ser Ser Leu Tyr Leu Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 746
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 746
Arg Ala Thr Ile Ser Val Asp Lys Ala Lys Asn Ser Ala Tyr Met Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 747
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 747
Arg Ala Thr Ile Ser Val Asp Lys Ala Lys Asn Ser Ala Tyr Met Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 748
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 748
Arg Ala Thr Ile Ser Val Asp Lys Ala Lys Asn Ser Ala Tyr Leu Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 749
<211> 32

<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 749
Arg Ala Thr Ile Ser Val Asp Lys Ala Lys Asn Ser Leu Tyr Met Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 750
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 750
Arg Ala Thr Ile Ser Val Asp Asn Ala Lys Ser Ser Ala Tyr Met Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 751
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 751
Arg Ala Thr Ile Ser Val Asp Asn Ala Lys Ser Ser Ala Tyr Met Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 752
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 752
Arg Ala Thr Ile Ser Val Asp Asn Ala Lys Ser Ser Ala Tyr Leu Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 753
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 753
Arg Ala Thr Ile Ser Val Asp Asn Ala Lys Ser Ser Leu Tyr Met Gln

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 1               5                  10                  15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20                  25                  30


<210> 754
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 754
Arg Ala Thr Ile Ser Val Asp Asn Ala Lys Asn Ser Ala Tyr Met Gln
 1               5                  10                  15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20                  25                  30


<210> 755
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 755
Arg Ala Thr Ile Ser Arg Asp Lys Ala Lys Ser Ser Ala Tyr Met Gln
 1               5                  10                  15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20                  25                  30


<210> 756
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 756
Arg Ala Thr Ile Ser Arg Asp Lys Ala Lys Ser Ser Ala Tyr Met Gln
 1               5                  10                  15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20                  25                  30


<210> 757
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 757
Arg Ala Thr Ile Ser Arg Asp Lys Ala Lys Ser Ser Ala Tyr Leu Gln
 1               5                  10                  15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20                  25                  30


<210> 758
<211> 32
<212> PRT
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<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 758
Arg Ala Thr Ile Ser Arg Asp Lys Ala Lys Ser Ser Leu Tyr Met Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 759
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 759
Arg Ala Thr Ile Ser Arg Asp Lys Ala Lys Asn Ser Ala Tyr Met Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 760
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 760
Arg Ala Thr Ile Ser Arg Asp Asn Ala Lys Ser Ser Ala Tyr Met Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 761
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 761
Arg Phe Thr Leu Ser Val Asp Lys Ala Lys Ser Ser Ala Tyr Met Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 762
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 762
Arg Phe Thr Leu Ser Val Asp Lys Ala Lys Ser Ser Ala Tyr Leu Gln
 1   5   10   15

Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
20 25 30

<210> 763
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 763
Arg Phe Thr Leu Ser Val Asp Lys Ala Lys Ser Ser Ala Tyr Leu Gln
1 5 10 15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
20 25 30

<210> 764
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 764
Arg Phe Thr Leu Ser Val Asp Lys Ala Lys Ser Ser Leu Tyr Met Gln
1 5 10 15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
20 25 30

<210> 765
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 765
Arg Phe Thr Leu Ser Val Asp Lys Ala Lys Ser Ser Leu Tyr Met Gln
1 5 10 15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
20 25 30

<210> 766
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 766
Arg Phe Thr Leu Ser Val Asp Lys Ala Lys Ser Ser Leu Tyr Leu Gln
1 5 10 15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
20 25 30

<210> 767
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 767
Arg Phe Thr Leu Ser Val Asp Lys Ala Lys Asn Ser Ala Tyr Met Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 768
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 768
Arg Phe Thr Leu Ser Val Asp Lys Ala Lys Asn Ser Ala Tyr Met Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 769
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 769
Arg Phe Thr Leu Ser Val Asp Lys Ala Lys Asn Ser Ala Tyr Leu Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 770
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 770
Arg Phe Thr Leu Ser Val Asp Lys Ala Lys Asn Ser Leu Tyr Met Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 771
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 771
Arg Phe Thr Leu Ser Val Asp Asn Ala Lys Ser Ser Ala Tyr Met Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg

20 25 30

<210> 772
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 772
Arg Phe Thr Leu Ser Val Asp Asn Ala Lys Ser Ser Ala Tyr Met Gln
1 5 10 15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
20 25 30

<210> 773
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 773
Arg Phe Thr Leu Ser Val Asp Asn Ala Lys Ser Ser Ala Tyr Leu Gln
1 5 10 15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
20 25 30

<210> 774
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 774
Arg Phe Thr Leu Ser Val Asp Asn Ala Lys Ser Ser Leu Tyr Met Gln
1 5 10 15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
20 25 30

<210> 775
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 775
Arg Phe Thr Leu Ser Val Asp Asn Ala Lys Asn Ser Ala Tyr Met Gln
1 5 10 15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
20 25 30

<210> 776
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 776
Arg Phe Thr Leu Ser Arg Asp Lys Ala Ser Asn Ser Ala Tyr Met Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 777
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 777
Arg Phe Thr Leu Ser Arg Asp Lys Ala Ser Asn Ser Ala Tyr Met Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 778
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 778
Arg Phe Thr Leu Ser Arg Asp Lys Ala Ser Asn Ser Ala Tyr Leu Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 779
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 779
Arg Phe Thr Leu Ser Arg Asp Lys Ala Ser Asn Ser Leu Tyr Met Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 780
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 780
Arg Phe Thr Leu Ser Arg Asp Lys Ala Lys Asn Ser Ala Tyr Met Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 781
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 781
Arg Phe Thr Leu Ser Arg Asp Asn Ala Lys Ser Ser Ala Tyr Met Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 782
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 782
Arg Phe Thr Ile Ser Val Asp Lys Ala Lys Ser Ser Ala Tyr Met Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 783
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 783
Arg Phe Thr Ile Ser Val Asp Lys Ala Lys Ser Ser Ala Tyr Met Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 784
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 784
Arg Phe Thr Ile Ser Val Asp Lys Ala Lys Ser Ser Ala Tyr Leu Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 785
<211> 32
<212> PRT
<213> Artificial Sequence

<220>

<223> humanized antibody 76E1-huVH3 VH FR3

<400> 785
Arg Phe Thr Ile Ser Val Asp Lys Ala Lys Ser Ser Leu Tyr Met Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 786
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 786
Arg Phe Thr Ile Ser Val Asp Lys Ala Lys Asn Ser Ala Tyr Met Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 787
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 787
Arg Phe Thr Ile Ser Arg Asp Lys Ala Lys Ser Ser Ala Tyr Met Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 788
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 788
Arg Ala Thr Leu Ser Val Asp Lys Ala Ser Asn Ser Ala Tyr Met Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 789
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 789
Arg Ala Thr Leu Ser Val Asp Lys Ala Ser Asn Ser Ala Tyr Leu Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 790
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 790
Arg Ala Thr Leu Ser Val Asp Lys Ala Ser Asn Ser Ala Tyr Leu Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 791
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 791
Arg Ala Thr Leu Ser Val Asp Lys Ala Ser Asn Ser Leu Tyr Met Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 792
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 792
Arg Ala Thr Leu Ser Val Asp Lys Ala Ser Asn Ser Leu Tyr Met Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 793
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 793
Arg Ala Thr Leu Ser Val Asp Lys Ala Ser Asn Ser Leu Tyr Leu Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 794
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 794
Arg Ala Thr Leu Ser Val Asp Lys Ala Lys Asn Ser Ala Tyr Met Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 795
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 795
Arg Ala Thr Leu Ser Val Asp Lys Ala Lys Asn Ser Ala Tyr Met Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 796
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 796
Arg Ala Thr Leu Ser Val Asp Lys Ala Lys Asn Ser Ala Tyr Leu Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 797
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 797
Arg Ala Thr Leu Ser Val Asp Lys Ala Lys Asn Ser Leu Tyr Met Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 798
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 798
Arg Ala Thr Leu Ser Val Asp Asn Ala Lys Ser Ser Ala Tyr Met Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 799
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 799
Arg Ala Thr Leu Ser Val Asp Asn Ala Lys Ser Ser Ala Tyr Met Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 800
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 800
Arg Ala Thr Leu Ser Val Asp Asn Ala Lys Ser Ser Ala Tyr Leu Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 801
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 801
Arg Ala Thr Leu Ser Val Asp Asn Ala Lys Ser Ser Leu Tyr Met Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 802
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 802
Arg Ala Thr Leu Ser Val Asp Asn Ala Lys Asn Ser Ala Tyr Met Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 803
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 803
Arg Ala Thr Leu Ser Arg Asp Lys Ala Lys Ser Ser Ala Tyr Met Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 804
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 804
Arg Ala Thr Leu Ser Arg Asp Lys Ala Lys Ser Ser Ala Tyr Met Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 805
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 805
Arg Ala Thr Leu Ser Arg Asp Lys Ala Lys Ser Ser Ala Tyr Leu Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 806
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 806
Arg Ala Thr Leu Ser Arg Asp Lys Ala Lys Ser Ser Leu Tyr Met Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 807
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 807
Arg Ala Thr Leu Ser Arg Asp Lys Ala Lys Asn Ser Ala Tyr Met Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 808

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

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 808
Arg Ala Thr Leu Ser Arg Asp Asn Ala Lys Ser Ser Ala Tyr Met Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 809
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 809
Arg Ala Thr Ile Ser Val Asp Lys Ala Lys Ser Ser Ala Tyr Met Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 810
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 810
Arg Ala Thr Ile Ser Val Asp Lys Ala Lys Ser Ser Ala Tyr Met Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 811
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 811
Arg Ala Thr Ile Ser Val Asp Lys Ala Lys Ser Ser Ala Tyr Leu Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 812
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 812

Arg Ala Thr Ile Ser Val Asp Lys Ala Lys Ser Ser Leu Tyr Met Gln
1 5 10 15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
20 25 30

<210> 813
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 813
Arg Ala Thr Ile Ser Val Asp Lys Ala Lys Asn Ser Ala Tyr Met Gln
1 5 10 15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
20 25 30

<210> 814
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 814
Arg Ala Thr Ile Ser Val Asp Asn Ala Lys Ser Ser Ala Tyr Met Gln
1 5 10 15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
20 25 30

<210> 815
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 815
Arg Ala Thr Ile Ser Arg Asp Lys Ala Lys Ser Ser Ala Tyr Met Gln
1 5 10 15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
20 25 30

<210> 816
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 816
Arg Phe Thr Leu Ser Val Asp Lys Ala Lys Ser Ser Ala Tyr Met Gln
1 5 10 15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
20 25 30

<210> 817
<211> 32

<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 817
Arg Phe Thr Leu Ser Val Asp Lys Ala Lys Ser Ser Ala Tyr Met Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 818
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 818
Arg Phe Thr Leu Ser Val Asp Lys Ala Lys Ser Ser Ala Tyr Leu Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 819
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 819
Arg Phe Thr Leu Ser Val Asp Lys Ala Lys Ser Ser Leu Tyr Met Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 820
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 820
Arg Phe Thr Leu Ser Val Asp Lys Ala Lys Asn Ser Ala Tyr Met Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 821
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 821
Arg Phe Thr Leu Ser Val Asp Asn Ala Lys Ser Ser Ala Tyr Met Gln

 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 822
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 822
Arg Phe Thr Leu Ser Arg Asp Lys Ala Ser Asn Ser Ala Tyr Met Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 823
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 823
Arg Phe Thr Ile Ser Val Asp Lys Ala Lys Ser Ser Ala Tyr Met Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 824
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 824
Arg Ala Thr Leu Ser Val Asp Lys Ala Ser Asn Ser Ala Tyr Met Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 825
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 825
Arg Ala Thr Leu Ser Val Asp Lys Ala Ser Asn Ser Ala Tyr Met Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 826
<211> 32
<212> PRT

<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 826
Arg Ala Thr Leu Ser Val Asp Lys Ala Ser Asn Ser Ala Tyr Leu Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 827
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 827
Arg Ala Thr Leu Ser Val Asp Lys Ala Ser Asn Ser Leu Tyr Met Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 828
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 828
Arg Ala Thr Leu Ser Val Asp Lys Ala Lys Asn Ser Ala Tyr Met Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 829
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 829
Arg Ala Thr Leu Ser Val Asp Asn Ala Lys Ser Ser Ala Tyr Met Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 830
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 830
Arg Ala Thr Leu Ser Arg Asp Lys Ala Lys Ser Ser Ala Tyr Met Gln
 1   5   10   15

Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 831
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 831
Arg Ala Thr Ile Ser Val Asp Lys Ala Lys Ser Ser Ala Tyr Met Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 832
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 832
Arg Phe Thr Leu Ser Val Asp Lys Ala Lys Ser Ser Ala Tyr Met Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 833
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH FR3

<400> 833
Arg Ala Thr Leu Ser Val Asp Lys Ala Ser Asn Ser Ala Tyr Met Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
            20   25   30

<210> 834
<400> 834
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<210> 835
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH CDR2

<400> 835
Asn Ile Asp Pro Tyr Tyr Asp Tyr Thr Ser Tyr Ala Asp Ser Val Lys
 1   5   10   15
Gly

<210> 836
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH CDR2

<400> 836
Asn Ile Glu Pro Tyr Tyr Asp Tyr Thr Ser Tyr Ala Asp Ser Val Lys
 1   5   10   15
Gly

<210> 837
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH CDR2

<400> 837
Asn Ile Ser Pro Tyr Tyr Asp Tyr Thr Ser Tyr Ala Asp Ser Val Lys
 1   5   10   15
Gly

<210> 838
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH CDR2

<400> 838
Asn Ile Ala Pro Tyr Tyr Asp Tyr Thr Ser Tyr Ala Asp Ser Val Lys
 1   5   10   15
Gly

<210> 839
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH CDR2

<400> 839
Asn Ile Asp Pro Tyr Tyr Asp Tyr Thr Ser Tyr Ala Asp Ser Val Lys
 1   5   10   15
Gly

<210> 840
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH CDR2

<400> 840
Asn Ile Glu Pro Tyr Tyr Asp Tyr Thr Ser Tyr Ala Asp Ser Val Lys
 1   5   10   15
Gly

<210> 841
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH CDR2

<400> 841
Asn Ile Ser Pro Tyr Tyr Asp Tyr Thr Ser Tyr Ala Asp Ser Val Lys
 1   5   10   15
Gly

<210> 842
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVH3 VH CDR2

<400> 842
Asn Ile Ala Pro Tyr Tyr Asp Tyr Thr Ser Tyr Ala Asp Ser Val Lys
 1   5   10   15
Gly

<210> 843
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVK2 VL CDR2

<400> 843
Lys Val Ser Gln Arg Phe Ser
 1   5

<210> 844
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVK2 VL CDR2

<400> 844
Lys Val Ser Ser Arg Phe Ser
 1   5

<210> 845
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVK2 VL CDR2

<400> 845
Lys Val Ser Asp Arg Phe Ser
 1   5

<210> 846
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1-huVK2 VL CDR2

<400> 846
Lys Val Ser Ala Arg Phe Ser
 1   5

<210> 847
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3a VH CDR2

<400> 847
Glu Ile Leu Pro Gly Ser Gly Ser Thr Gln Tyr Asn Glu Lys Phe Lys
 1   5   10   15
Gly

<210> 848
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3a VH CDR2

<400> 848
Glu Ile Leu Pro Gly Ser Gly Ser Thr Ser Tyr Asn Glu Lys Phe Lys
 1   5   10   15
Gly

<210> 849
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3a VH CDR2

<400> 849
Glu Ile Leu Pro Gly Ser Gly Ser Thr Asp Tyr Asn Glu Lys Phe Lys
 1   5   10   15
Gly

<210> 850

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

<220>
<223> humanized antibody 141A-huVH3a VH CDR2

<400> 850
Glu Ile Leu Pro Gly Ser Gly Ser Thr Ala Tyr Asn Glu Lys Phe Lys
 1   5   10   15
Gly

<210> 851
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3a VH CDR2

<400> 851
Glu Ile Leu Pro Gly Ser Gly Ser Thr Asn Tyr Gln Glu Lys Phe Lys
 1   5   10   15
Gly

<210> 852
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3a VH CDR2

<400> 852
Glu Ile Leu Pro Gly Ser Gly Ser Thr Asn Tyr Ser Glu Lys Phe Lys
 1   5   10   15
Gly

<210> 853
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3a VH CDR2

<400> 853
Glu Ile Leu Pro Gly Ser Gly Ser Thr Asn Tyr Asp Glu Lys Phe Lys
 1   5   10   15
Gly

<210> 854
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3a VH CDR2

<400> 854

Glu Ile Leu Pro Gly Ser Gly Ser Thr Asn Tyr Ala Glu Lys Phe Lys
 1   5   10   15
Gly

<210> 855
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3a VH CDR2

<400> 855
Glu Ile Leu Pro Gly Ser Gly Ser Thr Gln Tyr Gln Glu Lys Phe Lys
 1   5   10   15
Gly

<210> 856
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3a VH CDR2

<400> 856
Glu Ile Leu Pro Gly Ser Gly Ser Thr Ser Tyr Ser Glu Lys Phe Lys
 1   5   10   15
Gly

<210> 857
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3a VH CDR2

<400> 857
Glu Ile Leu Pro Gly Ser Gly Ser Thr Asp Tyr Asp Glu Lys Phe Lys
 1   5   10   15
Gly

<210> 858
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3a VH CDR2

<400> 858
Glu Ile Leu Pro Gly Ser Gly Ser Thr Ala Tyr Ala Glu Lys Phe Lys
 1   5   10   15
Gly

<210> 859
<211> 32

<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH1 VH FR3

<400> 859
Arg Val Thr Met Thr Thr Asp Thr Asn Thr Ser Thr Ala Tyr Met Glu
 1   5   10   15
Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 860
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH1 VH FR3

<400> 860
Arg Val Thr Met Thr Thr Asp Thr Ser Thr Ser Thr Ala Tyr Met Glu
 1   5   10   15
Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys Ala Gly
            20   25   30

<210> 861
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH1 VH FR3

<400> 861
Arg Ala Thr Met Thr Thr Asp Thr Asn Thr Ser Thr Ala Tyr Met Glu
 1   5   10   15
Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 862
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH1 VH FR3

<400> 862
Arg Ala Thr Met Thr Thr Asp Thr Ser Thr Ser Thr Ala Tyr Met Glu
 1   5   10   15
Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys Ala Gly
            20   25   30

<210> 863
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH1 VH FR3

<400> 863
Arg Val Thr Phe Thr Thr Asp Thr Asn Thr Ser Thr Ala Tyr Met Glu

 1   5   10   15
Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 864
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH1 VH FR3

<400> 864
Arg Val Thr Phe Thr Thr Asp Thr Ser Thr Ser Thr Ala Tyr Met Glu
 1   5   10   15
Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys Ala Gly
            20   25   30

<210> 865
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH1 VH FR3

<400> 865
Arg Val Thr Met Thr Ala Asp Thr Asn Thr Ser Thr Ala Tyr Met Glu
 1   5   10   15
Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 866
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH1 VH FR3

<400> 866
Arg Val Thr Met Thr Ala Asp Thr Ser Thr Ser Thr Ala Tyr Met Glu
 1   5   10   15
Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys Ala Gly
            20   25   30

<210> 867
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH1 VH FR3

<400> 867
Arg Val Thr Met Thr Thr Asp Thr Asn Thr Ser Thr Ala Tyr Met Glu
 1   5   10   15
Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys Ala Gly
            20   25   30

<210> 868
<211> 32
<212> PRT

<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH1 VH FR3

<400> 868
Arg Ala Thr Phe Thr Thr Asp Thr Asn Thr Ser Thr Ala Tyr Met Glu
 1   5   10   15
Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 869
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH1 VH FR3

<400> 869
Arg Ala Thr Phe Thr Thr Asp Thr Ser Thr Ser Thr Ala Tyr Met Glu
 1   5   10   15
Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys Ala Gly
            20   25   30

<210> 870
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH1 VH FR3

<400> 870
Arg Ala Thr Met Thr Ala Asp Thr Asn Thr Ser Thr Ala Tyr Met Glu
 1   5   10   15
Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 871
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH1 VH FR3

<400> 871
Arg Ala Thr Met Thr Ala Asp Thr Ser Thr Ser Thr Ala Tyr Met Glu
 1   5   10   15
Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys Ala Gly
            20   25   30

<210> 872
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH1 VH FR3

<400> 872
Arg Ala Thr Met Thr Thr Asp Thr Asn Thr Ser Thr Ala Tyr Met Glu
 1   5   10   15

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

<210> 873
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH1 VH FR3

<400> 873
Arg Val Thr Phe Thr Ala Asp Thr Asn Thr Ser Thr Ala Tyr Met Glu
1 5 10 15
Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys Ala Arg
20 25 30

<210> 874
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH1 VH FR3

<400> 874
Arg Val Thr Phe Thr Ala Asp Thr Ser Thr Ser Thr Ala Tyr Met Glu
1 5 10 15
Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys Ala Gly
20 25 30

<210> 875
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH1 VH FR3

<400> 875
Arg Val Thr Phe Thr Thr Asp Thr Asn Thr Ser Thr Ala Tyr Met Glu
1 5 10 15
Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys Ala Gly
20 25 30

<210> 876
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH1 VH FR3

<400> 876
Arg Val Thr Met Thr Ala Asp Thr Asn Thr Ser Thr Ala Tyr Met Glu
1 5 10 15
Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys Ala Gly
20 25 30

<210> 877
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH1 VH FR3

<400> 877
Arg Ala Thr Phe Thr Ala Asp Thr Asn Thr Ser Thr Ala Tyr Met Glu
 1   5   10   15
Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

<210> 878
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH1 VH FR3

<400> 878
Arg Ala Thr Phe Thr Ala Asp Thr Ser Thr Ser Thr Ala Tyr Met Glu
 1   5   10   15
Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys Ala Gly
            20   25   30

<210> 879
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH1 VH FR3

<400> 879
Arg Ala Thr Phe Thr Thr Asp Thr Asn Thr Ser Thr Ala Tyr Met Glu
 1   5   10   15
Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys Ala Gly
            20   25   30

<210> 880
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH1 VH FR3

<400> 880
Arg Ala Thr Met Thr Ala Asp Thr Asn Thr Ser Thr Ala Tyr Met Glu
 1   5   10   15
Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys Ala Gly
            20   25   30

<210> 881
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH1 VH FR3

<400> 881
Arg Val Thr Phe Thr Ala Asp Thr Asn Thr Ser Thr Ala Tyr Met Glu
 1   5   10   15
Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys Ala Gly

20 25 30

<210> 882
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH1 VH FR3

<400> 882
Arg Ala Thr Phe Thr Ala Asp Thr Asn Thr Ser Thr Ala Tyr Met Glu
1 5 10 15
Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys Ala Gly
20 25 30

<210> 883
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3 VH CDR3

<400> 883
Glu Glu Val Tyr Glu Gly Tyr Pro Trp Phe Gly Tyr
1 5 10

<210> 884
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3 VH CDR3

<400> 884
Glu Glu Val Tyr Ser Gly Tyr Pro Trp Phe Gly Tyr
1 5 10

<210> 885
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3 VH CDR3

<400> 885
Glu Glu Val Tyr Ala Gly Tyr Pro Trp Phe Gly Tyr
1 5 10

<210> 886
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH1b VH CDR2

<400> 886
Glu Ile Leu Pro Gly Ser Gly Ser Thr Gln Tyr Ala Gln Lys Leu Gln
1 5 10 15

Gly

<210> 887
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH1b VH CDR2

<400> 887
Glu Ile Leu Pro Gly Ser Gly Ser Thr Ser Tyr Ala Gln Lys Leu Gln
 1   5   10   15
Gly

<210> 888
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH1b VH CDR2

<400> 888
Glu Ile Leu Pro Gly Ser Gly Ser Thr Asp Tyr Ala Gln Lys Leu Gln
 1   5   10   15
Gly

<210> 889
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH1b VH CDR2

<400> 889
Glu Ile Leu Pro Gly Ser Gly Ser Thr Ala Tyr Ala Gln Lys Leu Gln
 1   5   10   15
Gly

<210> 890
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH1b VH CDR2

<400> 890
Glu Ile Leu Pro Gly Ser Gly Ser Thr Asn Tyr Ala Gln Lys Phe Gln
 1   5   10   15
Gly

<210> 891
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH1b VH CDR2

<400> 891
Glu Ile Leu Pro Gly Ser Gly Ser Thr Gln Tyr Ala Gln Lys Phe Gln
 1   5   10   15
Gly

<210> 892
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH1b VH CDR2

<400> 892
Glu Ile Leu Pro Gly Ser Gly Ser Thr Ser Tyr Ala Gln Lys Phe Gln
 1   5   10   15
Gly

<210> 893
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH1b VH CDR2

<400> 893
Glu Ile Leu Pro Gly Ser Gly Ser Thr Asp Tyr Ala Gln Lys Phe Gln
 1   5   10   15
Gly

<210> 894
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH1b VH CDR2

<400> 894
Glu Ile Leu Pro Gly Ser Gly Ser Thr Ala Tyr Ala Gln Lys Phe Gln
 1   5   10   15
Gly

<210> 895
<211> 25
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3 VH FR1

<400> 895
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Met Gln Pro Gly Gly
 1   5   10   15
Ser Leu Arg Leu Ser Cys Ala Ala Ser

20 25

<210> 896
<211> 25
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3 VH FR1

<400> 896
Glu Val Gln Leu Val Gln Ser Gly Gly Gly Leu Met Gln Pro Gly Gly
1 5 10 15
Ser Leu Arg Leu Ser Cys Ala Ala Ser
20 25

<210> 897
<211> 25
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3 VH FR1

<400> 897
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Met Gln Pro Gly Gly
1 5 10 15
Ser Val Arg Leu Ser Cys Ala Ala Ser
20 25

<210> 898
<211> 25
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3 VH FR1

<400> 898
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Met Gln Pro Gly Gly
1 5 10 15
Ser Leu Arg Ile Ser Cys Ala Ala Ser
20 25

<210> 899
<211> 25
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3 VH FR1

<400> 899
Glu Val Gln Leu Val Gln Ser Gly Gly Gly Leu Met Gln Pro Gly Gly
1 5 10 15
Ser Val Arg Leu Ser Cys Ala Ala Ser
20 25

<210> 900
<211> 25
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3 VH FR1

<400> 900
Glu Val Gln Leu Val Gln Ser Gly Gly Gly Leu Met Gln Pro Gly Gly
 1   5   10   15
Ser Leu Arg Ile Ser Cys Ala Ala Ser
            20   25

<210> 901
<211> 25
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3 VH FR1

<400> 901
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Met Gln Pro Gly Gly
 1   5   10   15
Ser Val Arg Ile Ser Cys Ala Ala Ser
            20   25

<210> 902
<211> 25
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3 VH FR1

<400> 902
Glu Val Gln Leu Val Gln Ser Gly Gly Gly Leu Met Gln Pro Gly Gly
 1   5   10   15
Ser Val Arg Ile Ser Cys Ala Ala Ser
            20   25

<210> 903
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3 VH FR3

<400> 903
Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr Leu Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Gly
            20   25   30

<210> 904
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3 VH FR3

<400> 904
Arg Ala Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr Leu Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Gly
            20   25   30

<210> 905
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3 VH FR3

<400> 905
Arg Phe Thr Phe Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr Leu Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Gly
            20   25   30

<210> 906
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3 VH FR3

<400> 906
Arg Phe Thr Ile Ser Ala Asp Asn Ala Lys Asn Ser Leu Tyr Leu Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Gly
            20   25   30

<210> 907
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3 VH FR3

<400> 907
Arg Phe Thr Ile Ser Arg Asp Thr Ala Lys Asn Ser Leu Tyr Leu Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Gly
            20   25   30

<210> 908
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3 VH FR3

<400> 908
Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Ala Tyr Leu Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Gly
            20   25   30

<210> 909
<211> 32
<212> PRT
<213> Artificial Sequence

<220>

<223> humanized antibody 141A-huVH3 VH FR3

<400> 909
Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr Met Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Gly
            20   25   30

<210> 910
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3 VH FR3

<400> 910
Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr Leu Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Gly
            20   25   30

<210> 911
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3 VH FR3

<400> 911
Arg Ala Thr Phe Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr Leu Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Gly
            20   25   30

<210> 912
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3 VH FR3

<400> 912
Arg Ala Thr Ile Ser Ala Asp Asn Ala Lys Asn Ser Leu Tyr Leu Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Gly
            20   25   30

<210> 913
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3 VH FR3

<400> 913
Arg Ala Thr Ile Ser Arg Asp Thr Ala Lys Asn Ser Leu Tyr Leu Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Gly
            20   25   30

<210> 914
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3 VH FR3

<400> 914
Arg Ala Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Ala Tyr Leu Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Gly
            20   25   30

<210> 915
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3 VH FR3

<400> 915
Arg Ala Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr Met Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Gly
            20   25   30

<210> 916
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3 VH FR3

<400> 916
Arg Ala Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr Leu Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Gly
            20   25   30

<210> 917
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3 VH FR3

<400> 917
Arg Phe Thr Phe Ser Ala Asp Asn Ala Lys Asn Ser Leu Tyr Leu Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Gly
            20   25   30

<210> 918
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3 VH FR3

<400> 918
Arg Phe Thr Phe Ser Arg Asp Thr Ala Lys Asn Ser Leu Tyr Leu Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Gly
            20   25   30

<210> 919
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3 VH FR3

<400> 919
Arg Phe Thr Phe Ser Arg Asp Asn Ala Lys Asn Ser Ala Tyr Leu Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Gly
            20   25   30

<210> 920
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3 VH FR3

<400> 920
Arg Phe Thr Phe Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr Met Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Gly
            20   25   30

<210> 921
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3 VH FR3

<400> 921
Arg Phe Thr Phe Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr Leu Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Gly
            20   25   30

<210> 922
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3 VH FR3

<400> 922
Arg Phe Thr Ile Ser Ala Asp Thr Ala Lys Asn Ser Leu Tyr Leu Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Gly
            20   25   30

<210> 923
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3 VH FR3

<400> 923
Arg Phe Thr Ile Ser Ala Asp Asn Ala Lys Asn Ser Ala Tyr Leu Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Gly
            20   25   30

<210> 924
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3 VH FR3

<400> 924
Arg Phe Thr Ile Ser Ala Asp Asn Ala Lys Asn Ser Leu Tyr Met Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Gly
            20   25   30

<210> 925
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3 VH FR3

<400> 925
Arg Phe Thr Ile Ser Ala Asp Asn Ala Lys Asn Ser Leu Tyr Leu Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Gly
            20   25   30

<210> 926
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3 VH FR3

<400> 926
Arg Phe Thr Ile Ser Arg Asp Thr Ala Lys Asn Ser Ala Tyr Leu Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Gly
            20   25   30

<210> 927
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3 VH FR3

<400> 927
Arg Phe Thr Ile Ser Arg Asp Thr Ala Lys Asn Ser Leu Tyr Met Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Gly
            20   25   30

<210> 928
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3 VH FR3

<400> 928
Arg Phe Thr Ile Ser Arg Asp Thr Ala Lys Asn Ser Leu Tyr Leu Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Gly
            20   25   30

<210> 929
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3 VH FR3

<400> 929
Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Ala Tyr Met Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Gly
            20   25   30

<210> 930
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3 VH FR3

<400> 930
Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Ala Tyr Leu Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Gly
            20   25   30

<210> 931
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3 VH FR3

<400> 931
Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr Met Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Gly
            20   25   30

<210> 932

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

<220>
<223> humanized antibody 141A-huVH3 VH FR3

<400> 932
Arg Ala Thr Phe Ser Ala Asp Asn Ala Lys Asn Ser Leu Tyr Leu Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Gly
            20   25   30

<210> 933
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3 VH FR3

<400> 933
Arg Ala Thr Phe Ser Arg Asp Thr Ala Lys Asn Ser Leu Tyr Leu Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Gly
            20   25   30

<210> 934
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3 VH FR3

<400> 934
Arg Ala Thr Phe Ser Arg Asp Asn Ala Lys Asn Ser Ala Tyr Leu Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Gly
            20   25   30

<210> 935
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3 VH FR3

<400> 935
Arg Ala Thr Phe Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr Met Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Gly
            20   25   30

<210> 936
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3 VH FR3

<400> 936

Arg Ala Thr Phe Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr Leu Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Gly
            20   25   30

<210> 937
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3 VH FR3

<400> 937
Arg Ala Thr Ile Ser Ala Asp Thr Ala Lys Asn Ser Leu Tyr Leu Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Gly
            20   25   30

<210> 938
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3 VH FR3

<400> 938
Arg Ala Thr Ile Ser Ala Asp Asn Ala Lys Asn Ser Ala Tyr Leu Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Gly
            20   25   30

<210> 939
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3 VH FR3

<400> 939
Arg Ala Thr Ile Ser Ala Asp Asn Ala Lys Asn Ser Leu Tyr Met Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Gly
            20   25   30

<210> 940
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3 VH FR3

<400> 940
Arg Ala Thr Ile Ser Ala Asp Asn Ala Lys Asn Ser Leu Tyr Leu Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Gly
            20   25   30

<210> 941
<211> 32

<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3 VH FR3

<400> 941
Arg Ala Thr Ile Ser Arg Asp Thr Ala Lys Asn Ser Ala Tyr Leu Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Gly
            20   25   30

<210> 942
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3 VH FR3

<400> 942
Arg Ala Thr Ile Ser Arg Asp Thr Ala Lys Asn Ser Leu Tyr Met Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Gly
            20   25   30

<210> 943
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3 VH FR3

<400> 943
Arg Ala Thr Ile Ser Arg Asp Thr Ala Lys Asn Ser Leu Tyr Leu Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Gly
            20   25   30

<210> 944
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3 VH FR3

<400> 944
Arg Ala Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Ala Tyr Met Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Gly
            20   25   30

<210> 945
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3 VH FR3

<400> 945
Arg Ala Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Ala Tyr Leu Gln

 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Gly
            20   25   30

<210> 946
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3 VH FR3

<400> 946
Arg Ala Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr Met Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Gly
            20   25   30

<210> 947
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3 VH FR3

<400> 947
Arg Phe Thr Phe Ser Ala Asp Thr Ala Lys Asn Ser Leu Tyr Leu Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Gly
            20   25   30

<210> 948
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3 VH FR3

<400> 948
Arg Phe Thr Phe Ser Ala Asp Asn Ala Lys Asn Ser Ala Tyr Leu Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Gly
            20   25   30

<210> 949
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3 VH FR3

<400> 949
Arg Phe Thr Phe Ser Ala Asp Asn Ala Lys Asn Ser Leu Tyr Met Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Gly
            20   25   30

<210> 950
<211> 32
<212> PRT

<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3 VH FR3

<400> 950
Arg Phe Thr Phe Ser Ala Asp Asn Ala Lys Asn Ser Leu Tyr Leu Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Gly
            20   25   30

<210> 951
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3 VH FR3

<400> 951
Arg Phe Thr Phe Ser Arg Asp Thr Ala Lys Asn Ser Ala Tyr Leu Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Gly
            20   25   30

<210> 952
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3 VH FR3

<400> 952
Arg Phe Thr Phe Ser Arg Asp Thr Ala Lys Asn Ser Leu Tyr Met Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Gly
            20   25   30

<210> 953
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3 VH FR3

<400> 953
Arg Phe Thr Phe Ser Arg Asp Thr Ala Lys Asn Ser Leu Tyr Leu Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Gly
            20   25   30

<210> 954
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3 VH FR3

<400> 954
Arg Phe Thr Phe Ser Arg Asp Asn Ala Lys Asn Ser Ala Tyr Met Gln
 1   5   10   15

Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Gly
20 25 30

<210> 955
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3 VH FR3

<400> 955
Arg Phe Thr Phe Ser Arg Asp Asn Ala Lys Asn Ser Ala Tyr Leu Gln
1 5 10 15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Gly
20 25 30

<210> 956
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3 VH FR3

<400> 956
Arg Phe Thr Phe Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr Met Gln
1 5 10 15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Gly
20 25 30

<210> 957
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3 VH FR3

<400> 957
Arg Phe Thr Ile Ser Ala Asp Thr Ala Lys Asn Ser Ala Tyr Leu Gln
1 5 10 15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Gly
20 25 30

<210> 958
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3 VH FR3

<400> 958
Arg Phe Thr Ile Ser Ala Asp Thr Ala Lys Asn Ser Leu Tyr Met Gln
1 5 10 15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Gly
20 25 30

<210> 959
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3 VH FR3

<400> 959
Arg Phe Thr Ile Ser Ala Asp Thr Ala Lys Asn Ser Leu Tyr Leu Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Gly
            20   25   30

<210> 960
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3 VH FR3

<400> 960
Arg Phe Thr Ile Ser Ala Asp Asn Ala Lys Asn Ser Ala Tyr Met Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Gly
            20   25   30

<210> 961
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3 VH FR3

<400> 961
Arg Phe Thr Ile Ser Ala Asp Asn Ala Lys Asn Ser Ala Tyr Leu Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Gly
            20   25   30

<210> 962
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3 VH FR3

<400> 962
Arg Phe Thr Ile Ser Ala Asp Asn Ala Lys Asn Ser Leu Tyr Met Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Gly
            20   25   30

<210> 963
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3 VH FR3

<400> 963
Arg Phe Thr Ile Ser Arg Asp Thr Ala Lys Asn Ser Ala Tyr Met Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Gly

20 25 30

<210> 964
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3 VH FR3

<400> 964
Arg Phe Thr Ile Ser Arg Asp Thr Ala Lys Asn Ser Ala Tyr Leu Gln
1 5 10 15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Gly
20 25 30

<210> 965
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3 VH FR3

<400> 965
Arg Phe Thr Ile Ser Arg Asp Thr Ala Lys Asn Ser Leu Tyr Met Gln
1 5 10 15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Gly
20 25 30

<210> 966
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3 VH FR3

<400> 966
Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Ala Tyr Met Gln
1 5 10 15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Gly
20 25 30

<210> 967
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3 VH FR3

<400> 967
Arg Ala Thr Phe Ser Ala Asp Thr Ala Lys Asn Ser Leu Tyr Leu Gln
1 5 10 15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Gly
20 25 30

<210> 968
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3 VH FR3

<400> 968
Arg Ala Thr Phe Ser Ala Asp Asn Ala Lys Asn Ser Ala Tyr Leu Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Gly
            20   25   30

<210> 969
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3 VH FR3

<400> 969
Arg Ala Thr Phe Ser Ala Asp Asn Ala Lys Asn Ser Leu Tyr Met Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Gly
            20   25   30

<210> 970
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3 VH FR3

<400> 970
Arg Ala Thr Phe Ser Ala Asp Asn Ala Lys Asn Ser Leu Tyr Leu Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Gly
            20   25   30

<210> 971
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3 VH FR3

<400> 971
Arg Ala Thr Phe Ser Arg Asp Thr Ala Lys Asn Ser Ala Tyr Leu Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Gly
            20   25   30

<210> 972
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3 VH FR3

<400> 972
Arg Ala Thr Phe Ser Arg Asp Thr Ala Lys Asn Ser Leu Tyr Met Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Gly
            20   25   30

<210> 973
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3 VH FR3

<400> 973
Arg Ala Thr Phe Ser Arg Asp Thr Ala Lys Asn Ser Leu Tyr Leu Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Gly
            20   25   30

<210> 974
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3 VH FR3

<400> 974
Arg Ala Thr Phe Ser Arg Asp Asn Ala Lys Asn Ser Ala Tyr Met Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Gly
            20   25   30

<210> 975
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3 VH FR3

<400> 975
Arg Ala Thr Phe Ser Arg Asp Asn Ala Lys Asn Ser Ala Tyr Leu Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Gly
            20   25   30

<210> 976
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3 VH FR3

<400> 976
Arg Ala Thr Phe Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr Met Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Gly
            20   25   30

<210> 977
<211> 32
<212> PRT
<213> Artificial Sequence

<220>

<223> humanized antibody 141A-huVH3 VH FR3

<400> 977
Arg Ala Thr Ile Ser Ala Asp Thr Ala Lys Asn Ala Leu Tyr Leu Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Gly
            20   25   30

<210> 978
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3 VH FR3

<400> 978
Arg Ala Thr Ile Ser Ala Asp Thr Ala Lys Asn Ser Leu Tyr Met Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Gly
            20   25   30

<210> 979
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3 VH FR3

<400> 979
Arg Ala Thr Ile Ser Ala Asp Thr Ala Lys Asn Ser Leu Tyr Leu Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Gly
            20   25   30

<210> 980
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3 VH FR3

<400> 980
Arg Ala Thr Ile Ser Ala Asp Asn Ala Lys Asn Ser Ala Tyr Met Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Gly
            20   25   30

<210> 981
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3 VH FR3

<400> 981
Arg Ala Thr Ile Ser Ala Asp Asn Ala Lys Asn Ser Ala Tyr Leu Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Gly
            20   25   30

<210> 982
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3 VH FR3

<400> 982
Arg Ala Thr Ile Ser Ala Asp Asn Ala Lys Asn Ser Leu Tyr Met Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Gly
            20   25   30

<210> 983
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3 VH FR3

<400> 983
Arg Ala Thr Ile Ser Arg Asp Thr Ala Lys Asn Ser Ala Tyr Met Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Gly
            20   25   30

<210> 984
<211> 32
<212> PRT
<213> Artificial Sequence 141A-huVH3 VH FR3

<220>
<223> humanized antibody

<400> 984
Arg Ala Thr Ile Ser Arg Asp Thr Ala Lys Asn Ser Ala Tyr Leu Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Gly
            20   25   30

<210> 985
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3 VH FR3

<400> 985
Arg Ala Thr Ile Ser Arg Asp Thr Ala Lys Asn Ser Leu Tyr Met Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Gly
            20   25   30

<210> 986
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3 VH FR3

<400> 986
Arg Ala Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Ala Tyr Met Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Gly
            20   25   30

<210> 987
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3 VH FR3

<400> 987
Arg Phe Thr Phe Ser Ala Asp Thr Ala Lys Asn Ser Ala Tyr Leu Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Gly
            20   25   30

<210> 988
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3 VH FR3

<400> 988
Arg Phe Thr Phe Ser Ala Asp Thr Ala Lys Asn Ser Leu Tyr Met Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Gly
            20   25   30

<210> 989
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3 VH FR3

<400> 989
Arg Phe Thr Phe Ser Ala Asp Thr Ala Lys Asn Ser Leu Tyr Leu Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Gly
            20   25   30

<210> 990
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3 VH FR3

<400> 990
Arg Phe Thr Phe Ser Ala Asp Asn Ala Lys Asn Ser Ala Tyr Met Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Gly
            20   25   30

<210> 991
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3 VH FR3

<400> 991
Arg Phe Thr Phe Ser Ala Asp Asn Ala Lys Asn Ser Ala Tyr Leu Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Gly
            20   25   30

<210> 992
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3 VH FR3

<400> 992
Arg Phe Thr Phe Ser Ala Asp Asn Ala Lys Asn Ser Leu Tyr Met Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Gly
            20   25   30

<210> 993
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3 VH FR3

<400> 993
Arg Phe Thr Phe Ser Arg Asp Thr Ala Lys Asn Ser Ala Tyr Met Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Gly
            20   25   30

<210> 994
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3 VH FR3

<400> 994
Arg Phe Thr Phe Ser Arg Asp Thr Ala Lys Asn Ser Ala Tyr Leu Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Gly
            20   25   30

<210> 995
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3 VH FR3

<400> 995
Arg Phe Thr Phe Ser Arg Asp Thr Ala Lys Asn Ser Leu Tyr Met Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Gly
            20   25   30

<210> 996
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3 VH FR3

<400> 996
Arg Phe Thr Phe Ser Arg Asp Asn Ala Lys Asn Ser Ala Tyr Met Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Gly
            20   25   30

<210> 997
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3 VH FR3

<400> 997
Arg Phe Thr Ile Ser Ala Asp Thr Ala Lys Asn Ser Ala Tyr Met Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Gly
            20   25   30

<210> 998
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3 VH FR3

<400> 998
Arg Phe Thr Ile Ser Ala Asp Thr Ala Lys Asn Ser Ala Tyr Leu Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Gly
            20   25   30

<210> 999
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3 VH FR3

<400> 999
Arg Phe Thr Ile Ser Ala Asp Thr Ala Lys Asn Ser Leu Tyr Met Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Gly
            20   25   30

<210> 1000

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

<220>
<223> humanized antibody 141A-huVH3 VH FR3

<400> 1000
Arg Phe Thr Ile Ser Ala Asp Asn Ala Lys Asn Ser Ala Tyr Met Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Gly
            20   25   30

<210> 1001
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3 VH FR3

<400> 1001
Arg Phe Thr Ile Ser Arg Asp Thr Ala Lys Asn Ser Ala Tyr Met Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Gly
            20   25   30

<210> 1002
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3 VH FR3

<400> 1002
Arg Ala Thr Phe Ser Ala Asp Thr Ala Lys Asn Ser Ala Tyr Leu Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Gly
            20   25   30

<210> 1003
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3 VH FR3

<400> 1003
Arg Ala Thr Phe Ser Ala Asp Thr Ala Lys Asn Ser Leu Tyr Met Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Gly
            20   25   30

<210> 1004
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3 VH FR3

<400> 1004

Arg Ala Thr Phe Ser Ala Asp Thr Ala Lys Asn Ser Leu Tyr Leu Gln
1 5 10 15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Gly
20 25 30

<210> 1005
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3 VH FR3

<400> 1005
Arg Ala Thr Phe Ser Ala Asp Asn Ala Lys Asn Ser Ala Tyr Met Gln
1 5 10 15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Gly
20 25 30

<210> 1006
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3 VH FR3

<400> 1006
Arg Ala Thr Phe Ser Ala Asp Asn Ala Lys Asn Ser Ala Tyr Leu Gln
1 5 10 15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Gly
20 25 30

<210> 1007
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3 VH FR3

<400> 1007
Arg Ala Thr Phe Ser Ala Asp Asn Ala Lys Asn Ser Leu Tyr Met Gln
1 5 10 15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Gly
20 25 30

<210> 1008
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3 VH FR3

<400> 1008
Arg Ala Thr Phe Ser Arg Asp Thr Ala Lys Asn Ser Ala Tyr Met Gln
1 5 10 15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Gly
20 25 30

<210> 1009
<211> 32

<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3 VH FR3

<400> 1009
Arg Ala Thr Phe Ser Arg Asp Thr Ala Lys Asn Ser Ala Tyr Leu Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Gly
            20   25   30

<210> 1010
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3 VH FR3

<400> 1010
Arg Ala Thr Phe Ser Arg Asp Thr Ala Lys Asn Ser Leu Tyr Met Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Gly
            20   25   30

<210> 1011
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3 VH FR3

<400> 1011
Arg Ala Thr Phe Ser Arg Asp Asn Ala Lys Asn Ser Ala Tyr Met Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Gly
            20   25   30

<210> 1012
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3 VH FR3

<400> 1012
Arg Ala Thr Ile Ser Ala Asp Thr Ala Lys Asn Ala Leu Tyr Met Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Gly
            20   25   30

<210> 1013
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3 VH FR3

<400> 1013
Arg Ala Thr Ile Ser Ala Asp Thr Ala Lys Asn Ala Leu Tyr Leu Gln

 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Gly
            20   25   30

<210> 1014
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3 VH FR3

<400> 1014
Arg Ala Thr Ile Ser Ala Asp Thr Ala Lys Asn Ser Leu Tyr Met Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Gly
            20   25   30

<210> 1015
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3 VH FR3

<400> 1015
Arg Ala Thr Ile Ser Ala Asp Asn Ala Lys Asn Ser Ala Tyr Met Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Gly
            20   25   30

<210> 1016
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3 VH FR3

<400> 1016
Arg Ala Thr Ile Ser Arg Asp Thr Ala Lys Asn Ser Ala Tyr Met Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Gly
            20   25   30

<210> 1017
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3 VH FR3

<400> 1017
Arg Phe Thr Phe Ser Ala Asp Thr Ala Lys Asn Ser Ala Tyr Met Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Gly
            20   25   30

<210> 1018
<211> 32
<212> PRT

<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3 VH FR3

<400> 1018
Arg Phe Thr Phe Ser Ala Asp Thr Ala Lys Asn Ser Ala Tyr Leu Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Gly
            20   25   30

<210> 1019
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3 VH FR3

<400> 1019
Arg Phe Thr Phe Ser Ala Asp Thr Ala Lys Asn Ser Leu Tyr Met Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Gly
            20   25   30

<210> 1020
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3 VH FR3

<400> 1020
Arg Phe Thr Phe Ser Ala Asp Asn Ala Lys Asn Ser Ala Tyr Met Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Gly
            20   25   30

<210> 1021
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3 VH FR3

<400> 1021
Arg Phe Thr Phe Ser Arg Asp Thr Ala Lys Asn Ser Ala Tyr Met Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Gly
            20   25   30

<210> 1022
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3 VH FR3

<400> 1022
Arg Phe Thr Ile Ser Ala Asp Thr Ala Lys Asn Ser Ala Tyr Met Gln
 1   5   10   15

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

<210> 1023
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3 VH FR3

<400> 1023
Arg Ala Thr Phe Ser Ala Asp Thr Ala Lys Asn Ser Ala Tyr Met Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Gly
            20   25   30

<210> 1024
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3 VH FR3

<400> 1024
Arg Ala Thr Phe Ser Ala Asp Thr Ala Lys Asn Ser Ala Tyr Leu Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Gly
            20   25   30

<210> 1025
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3 VH FR3

<400> 1025
Arg Ala Thr Phe Ser Ala Asp Thr Ala Lys Asn Ser Leu Tyr Met Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Gly
            20   25   30

<210> 1026
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3 VH FR3

<400> 1026
Arg Ala Thr Phe Ser Ala Asp Asn Ala Lys Asn Ser Ala Tyr Met Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Gly
            20   25   30

<210> 1027
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3 VH FR3

<400> 1027
Arg Ala Thr Phe Ser Arg Asp Thr Ala Lys Asn Ser Ala Tyr Met Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Gly
            20   25   30

<210> 1028
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3 VH FR3

<400> 1028
Arg Ala Thr Ile Ser Ala Asp Thr Ala Lys Asn Ala Leu Tyr Met Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Gly
            20   25   30

<210> 1029
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3 VH FR3

<400> 1029
Arg Phe Thr Phe Ser Ala Asp Thr Ala Lys Asn Ser Ala Tyr Met Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Gly
            20   25   30

<210> 1030
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3 VH FR3

<400> 1030
Arg Ala Thr Phe Ser Ala Asp Thr Ala Lys Asn Ser Ala Tyr Met Gln
 1   5   10   15
Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Gly
            20   25   30

<210> 1031
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVK3 VL FR1

<400> 1031
Glu Ile Val Leu Thr Gln Ser Pro Gly Thr Leu Ser Ala Ser Pro Gly
 1   5   10   15
Glu Arg Ala Thr Leu Ser Cys

20

<210> 1032
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVK3 VL FR1

<400> 1032
Glu Ile Val Leu Thr Gln Ser Pro Gly Thr Leu Ser Leu Ser Pro Gly
 1   5   10   15
Glu Arg Val Thr Leu Ser Cys
            20

<210> 1033
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVK3 VL FR1

<400> 1033
Glu Ile Val Leu Thr Gln Ser Pro Gly Thr Leu Ser Leu Ser Pro Gly
 1   5   10   15
Glu Arg Ala Thr Met Ser Cys
            20

<210> 1034
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVK3 VL FR1

<400> 1034
Glu Ile Val Leu Thr Gln Ser Pro Gly Thr Leu Ser Ala Ser Pro Gly
 1   5   10   15
Glu Arg Val Thr Leu Ser Cys
            20

<210> 1035
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVK3 VL FR1

<400> 1035
Glu Ile Val Leu Thr Gln Ser Pro Gly Thr Leu Ser Ala Ser Pro Gly
 1   5   10   15
Glu Arg Ala Thr Met Ser Cys
            20

<210> 1036
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVK3 VL FR1

<400> 1036
Glu Ile Val Leu Thr Gln Ser Pro Gly Thr Leu Ser Leu Ser Pro Gly
 1   5   10   15
Glu Arg Val Thr Met Ser Cys
            20

<210> 1037
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVK3 VL FR1

<400> 1037
Glu Ile Val Leu Thr Gln Ser Pro Gly Thr Leu Ser Ala Ser Pro Gly
 1   5   10   15
Glu Arg Val Thr Met Ser Cys
            20

<210> 1038
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVK3 VL FR2

<400> 1038
Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Arg Leu Leu Ile Tyr
 1   5   10   15

<210> 1039
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVK3 VL FR2

<400> 1039
Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Pro Leu Ile Tyr
 1   5   10   15

<210> 1040
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVK3 VL FR2

<400> 1040
Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Trp Ile Tyr
 1   5   10   15

<210> 1041
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVK3 VL FR2

<400> 1041
Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Arg Pro Leu Ile Tyr
 1   5   10   15

<210> 1042
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVK3 VL FR2

<400> 1042
Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Arg Leu Trp Ile Tyr
 1   5   10   15

<210> 1043
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVK3 VL FR2

<400> 1043
Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Pro Trp Ile Tyr
 1   5   10   15

<210> 1044
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVK3 VL FR2

<400> 1044
Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Arg Pro Trp Ile Tyr
 1   5   10   15

<210> 1045
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVK3 VL CDR2

<400> 1045
Ala Thr Ser Gln Leu Ala Ser
 1   5

<210> 1046
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVK3 VL CDR2

<400> 1046
Ala Thr Ser Ser Leu Ala Ser
 1   5

<210> 1047
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVK3 VL CDR2

<400> 1047
Ala Thr Ser Asp Leu Ala Ser
 1   5

<210> 1048
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVK3 VL CDR2

<400> 1048
Ala Thr Ser Ala Leu Ala Ser
 1   5

<210> 1049
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVK3 VL FR3

<400> 1049
Gly Val Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr
 1   5   10   15
Leu Thr Ile Ser Arg Leu Glu Pro Glu Asp Phe Ala Val Tyr Tyr Cys
            20   25   30

<210> 1050
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVK3 VL FR3

<400> 1050
Gly Ile Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Tyr Thr
 1   5   10   15
Leu Thr Ile Ser Arg Leu Glu Pro Glu Asp Phe Ala Val Tyr Tyr Cys
            20   25   30

<210> 1051
<211> 32
<212> PRT
<213> Artificial Sequence

<220>

<223> humanized antibody 141A-huVK3 VL FR3

<400> 1051
Gly Ile Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr
 1   5   10   15
Leu Thr Ile Ser Arg Val Glu Pro Glu Asp Phe Ala Val Tyr Tyr Cys
            20   25   30

<210> 1052
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVK3 VL FR3

<400> 1052
Gly Val Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Tyr Thr
 1   5   10   15
Leu Thr Ile Ser Arg Leu Glu Pro Glu Asp Phe Ala Val Tyr Tyr Cys
            20   25   30

<210> 1053
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVK3 VL FR3

<400> 1053
Gly Val Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr
 1   5   10   15
Leu Thr Ile Ser Arg Val Glu Pro Glu Asp Phe Ala Val Tyr Tyr Cys
            20   25   30

<210> 1054
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVK3 VL FR3

<400> 1054
Gly Ile Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Tyr Thr
 1   5   10   15
Leu Thr Ile Ser Arg Val Glu Pro Glu Asp Phe Ala Val Tyr Tyr Cys
            20   25   30

<210> 1055
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVK3 VL FR3

<400> 1055
Gly Val Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Tyr Thr
 1   5   10   15
Leu Thr Ile Ser Arg Val Glu Pro Glu Asp Phe Ala Val Tyr Tyr Cys
            20   25   30

<210> 1056
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVK3 VL CDR3

<400> 1056
Gln Gln Trp Ser Ser Gln Pro Tyr Thr
 1   5

<210> 1057
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVK3 VL CDR3

<400> 1057
Gln Gln Trp Ser Ser Ser Pro Tyr Thr
 1   5

<210> 1058
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody

<400> 1058
Gln Gln Trp Ser Ser Ala Pro Tyr Thr
 1   5

<210> 1059
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVK1 VL FR1

<400> 1059
Asp Ile Gln Leu 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> 1060
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVK1 VL FR1

<400> 1060
Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
 1   5   10   15
Asp Arg Val Thr Met Thr Cys
            20

<210> 1061
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVK1 VL FR1

<400> 1061
Asp Ile Gln Leu Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
 1   5   10   15
Asp Arg Val Thr Met Thr Cys
            20

<210> 1062
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVK1 VL FR2

<400> 1062
Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Pro Leu Ile Tyr
 1   5   10   15

<210> 1063
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVK1 VL FR2

<400> 1063
Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Trp Ile Tyr
 1   5   10   15

<210> 1064
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVK1 VL FR2

<400> 1064
Trp Tyr Gln Gln Lys Pro Gly Lys Ser Pro Lys Pro Leu Ile Tyr
 1   5   10   15

<210> 1065
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVK1 VL FR2

<400> 1065
Trp Tyr Gln Gln Lys Pro Gly Lys Ser Pro Lys Leu Trp Ile Tyr
 1   5   10   15

<210> 1066
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVK1 VL FR2

<400> 1066
Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Pro Trp Ile Tyr
 1   5   10   15

<210> 1067
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVK1 VL FR2

<400> 1067
Trp Tyr Gln Gln Lys Pro Gly Lys Ser Pro Lys Pro Trp Ile Tyr
 1   5   10   15

<210> 1068
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVK1 VL FR3

<400> 1068
Gly Val Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Tyr 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> 1069
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVK1 VL FR3

<400> 1069
Gly Val Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Tyr Thr
 1   5   10   15
Leu Thr Ile Ser Ser Val Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys
            20   25   30

<210> 1070
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3b VH CDR2

<400> 1070
Glu Ile Leu Pro Gly Ser Gly Ser Thr Asn Tyr Ala Asp Ser Val Lys
 1   5   10   15

Gly

<210> 1071
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3b VH CDR2

<400> 1071
Glu Ile Leu Pro Gly Ser Gly Ser Thr Gln Tyr Ala Asp Ser Val Lys
 1   5   10   15
Gly

<210> 1072
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3b VH CDR2

<400> 1072
Glu Ile Leu Pro Gly Ser Gly Ser Thr Asp Tyr Ala Asp Ser Val Lys
 1   5   10   15
Gly

<210> 1073
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3b VH CDR2

<400> 1073
Glu Ile Leu Pro Gly Ser Gly Ser Thr Ala Tyr Ala Asp Ser Val Lys
 1   5   10   15
Gly

<210> 1074
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3b VH CDR2

<400> 1074
Glu Ile Leu Pro Gly Ser Gly Ser Thr Asn Tyr Ala Asp Ser Phe Lys
 1   5   10   15
Gly

<210> 1075
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3b VH CDR2

<400> 1075
Glu Ile Leu Pro Gly Ser Gly Ser Thr Gln Tyr Ala Asp Ser Phe Lys
 1   5   10   15
Gly

<210> 1076
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3b VH CDR2

<400> 1076
Glu Ile Leu Pro Gly Ser Gly Ser Thr Ser Tyr Ala Asp Ser Phe Lys
 1   5   10   15
Gly

<210> 1077
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3b VH CDR2

<400> 1077
Glu Ile Leu Pro Gly Ser Gly Ser Thr Asp Tyr Ala Asp Ser Phe Lys
 1   5   10   15
Gly

<210> 1078
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A-huVH3b VH CDR2

<400> 1078
Glu Ile Leu Pro Gly Ser Gly Ser Thr Ala Tyr Ala Asp Ser Phe Lys
 1   5   10   15
Gly

<210> 1079
<211> 311
<212> PRT
<213> Homo sapiens

<220>
<223> C10orf54 polypeptide

<400> 1079
Met Gly Val Pro Thr Ala Leu Glu Ala Gly Ser Trp Arg Trp Gly Ser
 1   5   10   15
Leu Leu Phe Ala Leu Phe Leu Ala Ala Ser Leu Gly Pro Val Ala Ala

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            20                  25                  30
Phe Lys Val Ala Thr Pro Tyr Ser Leu Tyr Val Cys Pro Glu Gly Gln
        35                  40                  45
Asn Val Thr Leu Thr Cys Arg Leu Leu Gly Pro Val Asp Lys Gly His
    50                  55                  60
Asp Val Thr Phe Tyr Lys Thr Trp Tyr Arg Ser Ser Arg Gly Glu Val
65                  70                  75                  80
Gln Thr Cys Ser Glu Arg Arg Pro Ile Arg Asn Leu Thr Phe Gln Asp
                85                  90                  95
Leu His Leu His His Gly Gly His Gln Ala Ala Asn Thr Ser His Asp
            100                 105                 110
Leu Ala Gln Arg His Gly Leu Glu Ser Ala Ser Asp His His Gly Asn
        115                 120                 125
Phe Ser Ile Thr Met Arg Asn Leu Thr Leu Leu Asp Ser Gly Leu Tyr
    130                 135                 140
Cys Cys Leu Val Val Glu Ile Arg His His His Ser Glu His Arg Val
145                 150                 155                 160
His Gly Ala Met Glu Leu Gln Val Gln Thr Gly Lys Asp Ala Pro Ser
                165                 170                 175
Asn Cys Val Val Tyr Pro Ser Ser Ser Gln Asp Ser Glu Asn Ile Thr
            180                 185                 190
Ala Ala Ala Leu Ala Thr Gly Ala Cys Ile Val Gly Ile Leu Cys Leu
        195                 200                 205
Pro Leu Ile Leu Leu Leu Val Tyr Lys Gln Arg Gln Ala Ala Ser Asn
    210                 215                 220
Arg Arg Ala Gln Glu Leu Val Arg Met Asp Ser Asn Ile Gln Gly Ile
225                 230                 235                 240
Glu Asn Pro Gly Phe Glu Ala Ser Pro Pro Ala Gln Gly Ile Pro Glu
                245                 250                 255
Ala Lys Val Arg His Pro Leu Ser Tyr Val Ala Gln Arg Gln Pro Ser
            260                 265                 270
Glu Ser Gly Arg His Leu Leu Ser Glu Pro Ser Thr Pro Leu Ser Pro
        275                 280                 285
Pro Gly Pro Gly Asp Val Phe Phe Pro Ser Leu Asp Pro Val Pro Asp
    290                 295                 300
Ser Pro Asn Phe Glu Val Ile
305                 310
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<210> 1080
<211> 936
<212> DNA
<213> Homo sapiens

<220>
<223> cDNA nucleic acid sequence encoding the C10orf54 polypeptide

<400> 1080
atgggcgtcc ccacggccct ggaggccggc agctggcgct ggggatccct gctcttcgct 60
ctcttcctgg ctgcgtccct aggtccggtg gcagccttca aggtcgccac gccgtattcc 120
ctgtatgtct gtcccgaggg gcagaacgtc accctcacct gcaggctctt gggccctgtg 180
gacaaagggc acgatgtgac cttctacaag acgtggtacc gcagctcgag gggcgaggtg 240
cagacctgct cagagcgccg gcccatccgc aacctcacgt tccaggacct tcacctgcac 300
catggaggcc accaggctgc caacaccagc cacgacctgg ctcagcgcca cgggctggag 360
tcggcctccg accaccatgg caacttctcc atcaccatgc gcaacctgac cctgctggat 420
agcggcctct actgctgcct ggtggtggag atcaggcacc accactcgga gcacagggtc 480
catggtgcca tggagctgca ggtgcagaca ggcaaagatg caccatccaa ctgtgtggtg 540
tacccatcct cctcccagga tagtgaaaac atcacggctg cagccctggc tacgggtgcc 600
tgcatcgtag gaatcctctg cctccccctc atcctgctcc tggtctacaa gcaaaggcag 660
gcagcctcca accgccgtgc ccaggagctg gtgcggatgg acagcaacat tcaagggatt 720
gaaaaccccg gctttgaagc ctcaccacct gcccagggga tacccgaggc caaagtcagg 780
cacccctgt cctatgtggc ccagcggcag ccttctgagt ctgggcggca tctgctttcg 840
gagcccagca ccccctgtc tcctccaggc cccggagacg tcttcttccc atccctggac 900
cctgtccctg actctccaaa ctttgaggtc atctag 936

<210> 1081
<211> 8
<212> PRT

<213> Artificial Sequence

<220>
<223> humanized antibody 175A VH CDR1 determined by IMGT

<400> 1081
Gly Tyr Thr Phe Ser Thr His Trp
 1   5

<210> 1082
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A VH CDR2 determined by IMGT

<400> 1082
Ile Leu Pro Gly Ser Gly Ser Thr
 1   5

<210> 1083
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A VH CDR3 determined by IMGT

<400> 1083
Ala Arg Trp Leu Leu Tyr Tyr Tyr Ala Met Asp Tyr
 1   5   10

<210> 1084
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A VL CDR1 determined by IMGT

<400> 1084
Gln Ser Ile Val His Ser Asn Gly Asn Thr Tyr
 1   5   10

<210> 1085
<211> 3
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A VL CDR2 determined by IMGT

<400> 1085
Lys Leu Ser
 1

<210> 1086
<211> 5
<212> PRT
<213> Artificial Sequence

<220>

<223> humanized antibody 175A VH CDR1 determined by Kabat

<400> 1086
Thr His Trp Ile Glu
 1   5

<210> 1087
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A VH CDR1 determined by chothia

<400> 1087
Gly Tyr Thr Phe Ser Thr His
 1   5

<210> 1088
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A VH CDR2 determined by chothia

<400> 1088
Pro Gly Ser Gly
 1

<210> 1089
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A VH CDR3 determined by chothia

<400> 1089
Leu Leu Tyr Tyr Tyr Ala Met Asp
 1   5

<210> 1090
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A VL CDR1 determined by chothia

<400> 1090
Ser Gln Ser Ile Val His Ser Asn Gly Asn Thr Tyr
 1   5   10

<210> 1091
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A VL CDR3 determined by chothia

<400> 1091

Gly Ser His Phe Pro Tyr
1 5

<210> 1092
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A VH CDR1 determined by Contact

<400> 1092
Ser Thr His Trp Ile Glu
1 5

<210> 1093
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A VH CDR2 determined by Contact

<400> 1093
Trp Ile Gly Glu Ile Leu Pro Gly Ser Gly Ser Thr Ser
1 5 10

<210> 1094
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A VH CDR3 determined by Contact

<400> 1094
Ala Arg Trp Leu Leu Tyr Tyr Tyr Ala Met Asp
1 5 10

<210> 1095
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A VL CDR1 determined by Contact

<400> 1095
Val His Ser Asn Gly Asn Thr Tyr Leu Glu Trp Tyr
1 5 10

<210> 1096
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A VL CDR2 determined by Contact

<400> 1096
Leu Leu Ile Tyr Lys Leu Ser Asn Arg Phe
1 5 10

<210> 1097
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A VL CDR3 determined by Contact

<400> 1097
Phe Gln Gly Ser His Phe Pro Tyr
 1   5

<210> 1098
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 175A VH CDR2 determined by AbM

<400> 1098
Glu Ile Leu Pro Gly Ser Gly Ser Thr Ser
 1   5   10

<210> 1099
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1 VH CDR1 determined by IMGT

<400> 1099
Gly Tyr Ser Phe Thr Gly Tyr Asn
 1   5

<210> 1100
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1 VH CDR2 determined by IMGT

<400> 1100
Ile Asp Pro Tyr Tyr Asp Tyr Thr
 1   5

<210> 1101
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1 VH CDR3 determined by IMGT

<400> 1101
Ala Thr Ser Thr Met Ile Thr Pro Phe Asp Tyr
 1   5   10

<210> 1102
<211> 11

<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1 VL CDR1 determined by IMGT

<400> 1102
Gln Ser Ile Val His Ser Asn Gly Asn Thr Tyr
 1   5   10

<210> 1103
<211> 3
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1 VL CDR2 determined by IMGT

<400> 1103
Lys Val Ser
 1

<210> 1104
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1 VH CDR1 determined by Kabat

<400> 1104
Gly Tyr Asn Met Asn
 1   5

<210> 1105
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1 VH CDR1 determined by Chothia

<400> 1105
Gly Tyr Ser Phe Thr Gly Tyr
 1   5

<210> 1106
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1 VH CDR2 determined by Chothia

<400> 1106
Pro Tyr Tyr Asp
 1

<210> 1107
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1 VH CDR3 determined by Chothia

<400> 1107
Thr Met Ile Thr Pro Phe Asp
 1   5

<210> 1108
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1 VL CDR1 determined by Chothia

<400> 1108
Ser Gln Ser Ile Val His Ser Asn Gly Asn Thr Tyr
 1   5   10

<210> 1109
<211> 6
<212> PRT
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<220>
<223> humanized antibody 76E1 VL CDR3 determined by Chothia

<400> 1109
Gly Ser His Val Pro Trp
 1   5

<210> 1110
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1 VH CDR1 determined by Contact

<400> 1110
Thr Gly Tyr Asn Met Asn
 1   5

<210> 1111
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1 VH CDR2 determined by Contact

<400> 1111
Trp Ile Gly Asn Ile Asp Pro Tyr Tyr Asp Tyr Thr Ser
 1   5   10

<210> 1112
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1 VH CDR3 determined by Contact

<400> 1112
Ala Thr Ser Thr Met Ile Thr Pro Phe Asp
 1   5   10

<210> 1113
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1 VL CDR1 determined by Contact

<400> 1113
Val His Ser Asn Gly Asn Thr Tyr Leu Glu Trp Tyr
 1   5   10

<210> 1114
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1 VL CDR2 determined by Contact

<400> 1114
Leu Leu Ile Tyr Lys Val Ser Asn Arg Phe
 1   5   10

<210> 1115
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1 VL CDR3 determined by Contact

<400> 1115
Phe Gln Gly Ser His Val Pro Trp
 1   5

<210> 1116
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 76E1 VH CDR2 determined by AbM

<400> 1116
Asn Ile Asp Pro Tyr Tyr Asp Tyr Thr Ser
 1   5   10

<210> 1117
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A VH CDR1 determined by IMGT

<400> 1117
Gly Tyr Thr Phe Ser Arg Tyr Trp
 1   5

<210> 1118
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A VH CDR2 determined by IMGT

<400> 1118
Ile Leu Pro Gly Ser Gly Ser Thr
 1   5

<210> 1119
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A VH CDR3 determined by IMGT

<400> 1119
Ala Gly Glu Glu Val Tyr Asp Gly Tyr Pro Trp Phe Gly Tyr
 1   5   10

<210> 1120
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A VL CDR1 determined by IMGT

<400> 1120
Ser Ser Leu Ser Tyr
 1   5

<210> 1121
<211> 3
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A VL CDR2 determined by IMGT

<400> 1121
Ala Thr Ser
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<210> 1122
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A VH CDR1 determined by Kabat

<400> 1122
Arg Tyr Trp Ile Glu
 1   5

<210> 1123

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

<220>
<223> humanized antibody 141A VH CDR1 determined by Chothia

<400> 1123
Gly Tyr Thr Phe Ser Arg Tyr
 1   5

<210> 1124
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A VH CDR2 determined by Chothia

<400> 1124
Pro Gly Ser Gly
 1

<210> 1125
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A VH CDR3 determined by Chothia

<400> 1125
Glu Val Tyr Asp Gly Tyr Pro Trp Phe Gly
 1   5   10

<210> 1126
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A VL CDR1 determined by Chothia

<400> 1126
Ser Ser Ser Leu Ser Tyr
 1   5

<210> 1127
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A VL CDR3 determined by Chothia

<400> 1127
Trp Ser Ser Asn Pro Tyr
 1   5

<210> 1128
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A VH CDR1 determined by Contact

<400> 1128
Ser Arg Tyr Trp Ile Glu
 1   5

<210> 1129
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A VH CDR2 determined by Contact

<400> 1129
Trp Ile Gly Glu Ile Leu Pro Gly Ser Gly Ser Thr Asn
 1   5   10

<210> 1130
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A VH CDR3 determined by Contact

<400> 1130
Ala Gly Glu Glu Val Tyr Asp Gly Tyr Pro Trp Phe Gly
 1   5   10

<210> 1131
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A VL CDR1 determined by Contact

<400> 1131
Ser Tyr Met His Trp Tyr
 1   5

<210> 1132
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A VL CDR2 determined by Contact

<400> 1132
Pro Trp Ile Tyr Ala Thr Ser Asn Leu Ala
 1   5   10

<210> 1133
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A VL CDR3 determined by Contact

<400> 1133
Gln Gln Trp Ser Ser Asn Pro Tyr
 1   5

<210> 1134
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody 141A VH CDR2 determined by Contact

<400> 1134
Glu Ile Leu Pro Gly Ser Gly Ser Thr Asn
 1   5   10

<210> 1135
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> VH of humanized antibody hu76E1

<400> 1135
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 Ser Phe Thr Gly Tyr
            20   25   30
Asn Met Asn Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Ile
        35   40   45
Gly Asn Ile Asp Pro Tyr Tyr Asp Tyr Thr Ser Tyr Asn Leu Lys Phe
    50   55   60
Lys Asp Arg Val Thr Met Thr Val Asp Lys Ser Thr Ser Thr Ala Tyr
65   70   75   80
Met Glu Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys
                85   90   95
Ala Thr Ser Thr Met Ile Thr Pro Phe Asp Tyr Trp Gly Gln Gly Thr
            100   105   110
Leu Val Thr Val Ser Ser
        115

<210> 1136
<211> 121
<212> PRT
<213> Artificial Sequence

<220>
<223> VH of humanized antibody hu141A

<400> 1136
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 Ser Arg Tyr
            20   25   30
Trp Ile Glu Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Ile
        35   40   45
Gly Glu Ile Leu Pro Gly Ser Gly Ser Thr Asn Tyr Asn Glu Lys Phe
    50   55   60
Lys Gly Arg Val Thr Met Thr Ala Asp Thr Ser Thr Ser Thr Ala Tyr
65   70   75   80
Met Glu Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys
                85   90   95
Ala Gly Glu Glu Val Tyr Asp Gly Tyr Pro Trp Phe Gly Tyr Trp Gly

100 105 110
Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 1137
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> VH of humanized antibody hu175A

<400> 1137
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 Ser Thr His
20 25 30
Trp Ile Glu Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Ile
35 40 45
Gly Glu Ile Leu Pro Gly Ser Gly Ser Thr Ser Tyr Asn Glu Lys Phe
50 55 60
Lys Gly Arg Val Thr Met Thr Ala Asp Thr Ser Thr Ser Thr Ala Tyr
65 70 75 80
Met Glu Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys
85 90 95
Ala Arg Trp Leu Leu Tyr Tyr Tyr Ala Met Asp Tyr Trp Gly Gln Gly
100 105 110
Thr Leu Val Thr Val Ser Ser
115

<210> 1138
<211> 121
<212> PRT
<213> Artificial Sequence

<220>
<223> consensus sequences of VH of humanized antibodies
between hu76E1 and hu175A

<220>
<221> VARIANT
<222> 31
<223> Xaa = Arg or Thr

<220>
<221> VARIANT
<222> 32
<223> Xaa = Tyr or His

<220>
<221> VARIANT
<222> 59
<223> Xaa = Asn or Ser

<220>
<221> VARIANT
<222> 99, 100, 101, 102, 103, 104, 105, 106, 107
<223> Xaa = Any Amino Acid

<220>
<221> VARIANT
<222> 108
<223> Xaa = Met or Phe

<220>
<221> VARIANT

<222> 109
<223> Xaa = Gly or Asp

<400> 1138
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 Ser Xaa Xaa
            20   25   30
Trp Ile Glu Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Ile
        35   40   45
Gly Glu Ile Leu Pro Gly Ser Gly Ser Thr Xaa Tyr Asn Glu Lys Phe
    50   55   60
Lys Gly Arg Val Thr Met Thr Ala Asp Thr Ser Thr Ser Thr Ala Tyr
65   70   75   80
Met Glu Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys
                85   90   95
Ala Arg Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Tyr Trp Gly
            100   105   110
Gln Gly Thr Leu Val Thr Val Ser Ser
        115   120

<210> 1139
<211> 106
<212> PRT
<213> Artificial Sequence

<220>
<223> VL of humanized antibody hu76E1

<400> 1139
Glu Ile Val Leu Thr Gln Ser Pro Gly Thr Leu Ser Leu Ser Pro Gly
 1   5   10   15
Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Ser Ser Leu Ser Tyr Met
            20   25   30
His Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Pro Trp Ile Tyr
        35   40   45
Ala Thr Ser Asn Leu Ala Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser
    50   55   60
Gly Ser Gly Thr Asp Tyr Thr Leu Thr Ile Ser Arg Leu Glu Pro Glu
65   70   75   80
Asp Phe Ala Val Tyr Tyr Cys Gln Gln Trp Ser Ser Asn Pro Tyr Thr
                85   90   95
Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
            100   105

<210> 1140
<211> 112
<212> PRT
<213> Artificial Sequence

<220>
<223> VL of humanized antibody hu141A

<400> 1140
Asp Ile Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro Gly
 1   5   10   15
Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Ile Val His Ser
            20   25   30
Asn Gly Asn Thr Tyr Leu Glu Trp Tyr Leu Gln Lys Pro Gly Gln Ser
        35   40   45
Pro Gln Leu Leu Ile Tyr Lys Val Ser Asn Arg Phe Ser Gly Val Pro
    50   55   60
Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile
65   70   75   80
Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Phe Gln Gly
                85   90   95

Ser His Val Pro Trp Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
100 105 110

<210> 1141
<211> 112
<212> PRT
<213> Artificial Sequence

<220>
<223> VL of humanized antibody hu175A

<400> 1141
Asp Ile Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro Gly
1 5 10 15
Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Ile Val His Ser
20 25 30
Asn Gly Asn Thr Tyr Leu Glu Trp Tyr Leu Gln Lys Pro Gly Gln Ser
35 40 45
Pro Gln Leu Leu Ile Tyr Lys Leu Ser Asn Arg Phe Ser Gly Val Pro
50 55 60
Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile
65 70 75 80
Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Phe Gln Gly
85 90 95
Ser His Phe Pro Tyr Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
100 105 110

<210> 1142
<211> 112
<212> PRT
<213> Artificial Sequence

<220>
<223> consensus sequences of VL of humanized antibodies
between hu76E1 and hu175A

<220>
<221> VARIANT
<222> 56
<223> Xaa = Val or Leu

<220>
<221> VARIANT
<222> 99
<223> Xaa = Val or Phe

<220>
<221> VARIANT
<222> 101
<223> Xaa = Trp or Tyr

<400> 1142
Asp Ile Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro Gly
1 5 10 15
Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Ile Val His Ser
20 25 30
Asn Gly Asn Thr Tyr Leu Glu Trp Tyr Leu Gln Lys Pro Gly Gln Ser
35 40 45
Pro Gln Leu Leu Ile Tyr Lys Xaa Ser Asn Arg Phe Ser Gly Val Pro
50 55 60
Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile
65 70 75 80
Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Phe Gln Gly
85 90 95
Ser His Xaa Pro Xaa Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
100 105 110

<210> 1143
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> pseudo-sequences of VH domains of murine antibodies 76E1

<400> 1143
Glu Val Gln Leu Leu Gln Ser Gly Pro Glu Leu Glu Lys Pro Gly Ala
 1   5   10   15
Ser Val Lys Ile Ser Cys Lys Ala Ser Gly Tyr Ser Phe Ala Ala Ala
            20   25   30
Ala Ala Ala Trp Val Lys Gln Ser Asn Gly Lys Ser Leu Glu Trp Ile
        35   40   45
Gly Ala Ile Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala
    50   55   60
Ala Ala Lys Ala Thr Leu Thr Val Asp Lys Ser Ser Ser Thr Ala Tyr
65   70   75   80
Met Gln Leu Lys Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr Tyr Cys
                85   90   95
Ala Thr Ala Ala Ala Ala Ala Ala Phe Asp Tyr Trp Gly Gln Gly Thr
            100   105   110
Thr Leu Thr Val Ser Ser
        115

<210> 1144
<211> 121
<212> PRT
<213> Artificial Sequence

<220>
<223> pseudo-sequences of VH domains of murine antibodies 141A

<400> 1144
Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Leu Met Lys Pro Gly Ala
 1   5   10   15
Ser Val Lys Ile Ser Cys Lys Ala Thr Gly Tyr Thr Phe Ala Ala Ala
            20   25   30
Ala Ala Ala Trp Val Lys Gln Arg Pro Gly His Gly Leu Glu Trp Ile
        35   40   45
Gly Ala Ile Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala
    50   55   60
Ala Ala Lys Ala Thr Phe Thr Ala Asp Thr Ser Ser Asn Thr Ala Tyr
65   70   75   80
Met Gln Leu Ser Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr Tyr Cys
                85   90   95
Ala Gly Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Trp Gly
            100   105   110
Gln Gly Thr Leu Val Thr Val Ser Ala
        115   120

<210> 1145
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> pseudo-sequences of VH domains of murine antibodies 175A

<400> 1145
Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Leu Met Lys Pro Gly Ala
 1   5   10   15
Ser Val Lys Ile Ser Cys Lys Ala Thr Gly Tyr Thr Phe Ala Ala Ala

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

<210> 1146
<211> 112
<212> PRT
<213> Artificial Sequence

<220>
<223> pseudo-sequences of VL domains of murine antibodies 76E1

<400> 1146
Asp Val Leu Met Thr Gln Thr Pro Leu Ser Leu Pro Val Ser Leu Gly
 1   5   10   15
Asp Gln Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Ala Ala Ala Ala
            20   25   30
Ala Ala Ala Ala Ala Ala Ala Trp Tyr Leu Gln Lys Pro Gly Gln Ser
        35   40   45
Pro Lys Leu Leu Ile Tyr Ala Ala Ala Ala Ala Ala Ala Gly Val Pro
    50   55   60
Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile
65   70   75   80
Asn Arg Val Glu Ala Glu Asp Leu Gly Val Tyr Tyr Cys Ala Gln Ala
                85   90   95
Ala Ala Ala Pro Ala Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
            100   105   110

<210> 1147
<211> 106
<212> PRT
<213> Artificial Sequence

<220>
<223> pseudo-sequences of VL domains of murine antibodies 141A

<400> 1147
Gln Ile Val Leu Ser Gln Ser Pro Ala Ile Leu Ser Ala Ser Pro Gly
 1   5   10   15
Glu Lys Val Thr Met Thr Cys Arg Ala Ser Ala Ala Ala Ala Ala Ala
            20   25   30
Ala Trp Tyr Gln Gln Lys Pro Gly Ser Ser Pro Lys Pro Trp Ile Tyr
        35   40   45
Ala Ala Ala Asn Leu Ala Ser Gly Val Pro Ala Arg Phe Ser Gly Ser
    50   55   60
Gly Ser Gly Thr Ser Tyr Ser Leu Thr Ile Ser Arg Val Glu Ala Glu
65   70   75   80
Asp Ala Ala Thr Tyr Tyr Cys Gln Gln Ala Ala Ala Ala Pro Ala Thr
                85   90   95
Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
            100   105

<210> 1148
<211> 112
<212> PRT

<213> Artificial Sequence

<220>
<223> pseudo-sequences of VL domains of murine antibodies 175A

<400> 1148
Asp Val Leu Met Thr Gln Thr Pro Leu Ser Leu Pro Val Ser Leu Gly
 1   5   10   15
Asp Gln Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Ala Ala Ala Ala
            20   25   30
Ala Ala Ala Ala Ala Ala Ala Trp Tyr Leu Gln Lys Pro Gly Gln Ser
        35   40   45
Pro Lys Leu Leu Ile Tyr Ala Ala Ala Ala Ala Ala Ala Gly Val Pro
    50   55   60
Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile
65   70   75   80
Ser Arg Val Glu Ala Glu Asp Leu Gly Val Tyr Tyr Cys Ala Gln Ala
                85   90   95
Ala Ala Ala Pro Ala Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
            100   105   110

<210> 1149
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> VH CDR1 of a humanized anti-C10orf54 antibody

<220>
<221> VARIANT
<222> 6
<223> Xaa = Arg or Thr

<220>
<221> VARIANT
<222> 7
<223> Xaa = Tyr or His

<400> 1149
Gly Tyr Thr Phe Ser Xaa Xaa Trp Ile Glu
 1   5   10

<210> 1150
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> VH CDR2 of a humanized anti-C10orf54 antibody

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

<400> 1150
Glu Ile Leu Pro Gly Ser Gly Ser Thr Xaa Tyr Asn Glu Lys Phe Lys
 1   5   10   15
Gly

<210> 1151
<211> 12
<212> PRT

<213> Artificial Sequence

<220>
<223> VH CDR3 of a humanized anti-C10orf54 antibody

<220>
<221> VARIANT
<222> 1, 2, 3, 4, 5, 6, 7, 8, 9
<223> Xaa = Any Amino Acid

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

<220>
<221> VARIANT
<222> 11
<223> Xaa = Gly or Asp

<400> 1151
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Tyr
 1   5   10

<210> 1152
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> VL CDR2 of a humanized anti-C10orf54 antibody

<220>
<221> VARIANT
<222> 2
<223> Xaa = Val or Leu

<400> 1152
Lys Xaa Ser Asn Arg Phe Ser
 1   5

<210> 1153
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> VL CDR3 of a humanized anti-C10orf54 antibody

<220>
<221> VARIANT
<222> 6
<223> Xaa = Val or Phe

<220>
<221> VARIANT
<222> 8
<223> Xaa = Trp or Tyr

<400> 1153
Phe Gln Gly Ser His Xaa Pro Xaa Thr
 1   5