SEQUENCE LISTING

<110> GENENTECH, INC.

<120> ANTI-Ly6E ANTIBODIES METHODS OF USE

<130> GENE-33455/WO-1/ORD

<150> US 61/893,553
<151> 2013-10-21

<160> 53

<170> PatentIn version 3.5

<210> 1
<211> 131
<212> PRT
<213> Homo sapiens

<400> 1

Met Lys Ile Phe Leu Pro Val Leu Leu Ala Ala Leu Leu Gly Val Glu
1 5 10 15

Arg Ala Ser Ser Leu Met Cys Phe Ser Cys Leu Asn Gln Lys Ser Asn
20 25 30

Leu Tyr Cys Leu Lys Pro Thr Ile Cys Ser Asp Gln Asp Asn Tyr Cys
35 40 45

Val Thr Val Ser Ala Ser Ala Gly Ile Gly Asn Leu Val Thr Phe Gly
50 55 60

His Ser Leu Ser Lys Thr Cys Ser Pro Ala Cys Pro Ile Pro Glu Gly
65 70 75 80

Val Asn Val Gly Val Ala Ser Met Gly Ile Ser Cys Cys Gln Ser Phe
85 90 95

Leu Cys Asn Phe Ser Ala Ala Asp Gly Gly Leu Arg Ala Ser Val Thr
100 105 110

Leu Leu Gly Ala Gly Leu Leu Leu Ser Leu Leu Pro Ala Leu Leu Arg
115 120 125

Phe Gly Pro
130

<210> 2
<211> 131
<212> PRT
<213> Macaca fascicularis

<400> 2

Met Lys Ile Phe Leu Pro Val Leu Leu Ala Ala Leu Leu Gly Val Glu
1 5 10 15

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Arg Ala Ser Ser Leu Met Cys Phe Ser Cys Leu Asn Gln Lys Ser Asn
            20                  25                  30

Leu Tyr Cys Leu Lys Pro Thr Ile Cys Ser Asp Gln Asp Asn Tyr Cys
        35                  40                  45

Val Thr Val Ser Thr Ser Ala Gly Ile Gly Asn Leu Val Thr Phe Gly
    50                  55                  60

His Ser Leu Ser Lys Thr Cys Ser Pro Ala Cys Pro Leu Pro Glu Gly
65                  70                  75                  80

Ile Asn Val Gly Val Ala Ser Met Gly Ile Ser Cys Cys Gln Ser Phe
                85                  90                  95

Leu Cys Asn Phe Ser Ala Ala Asp Gly Gly Leu Arg Ala Ser Ala Thr
            100                 105                 110

Leu Leu Gly Ala Gly Leu Leu Leu Ser Leu Leu Pro Ala Leu Leu Arg
        115                 120                 125

Phe Gly Pro
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<210> 3
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<220>
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<400> 3

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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 Ser Ala Ser Gln Gly Ile Ser Asn Tyr
            20                  25                  30

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

Tyr Tyr Thr Ser Asn Leu His Ser Gly Val Pro Ser Arg Phe Ser Gly
    50                  55                  60

Ser Gly Ser Gly Thr Asp Tyr Thr Leu Thr Ile Ser Ser Leu Gln Pro
65                  70                  75                  80

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

Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
            100                 105
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<211> 107
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<213> Artificial sequence

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<400> 4

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

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

Tyr Tyr Thr Ser Asn Leu His Ser Gly Val Pro Ser Arg Phe Ser Gly
50 55 60

Ser Gly Ser Gly Thr Asp Tyr Ser Leu Thr Ile Ser Asn Leu Glu Pro
65 70 75 80

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

Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
100 105

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<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic

<400> 5

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

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

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

Gly Met Ile Trp Gly Asp Gly Ser Thr Asp Tyr Asn Ser Ala Leu Lys
50 55 60

Ser Arg Leu Thr Ile Ser Lys Asp Thr Ser Lys Asn Gln Val Val Leu
65 70 75 80

```
Thr Met Thr Asn Met Asp Pro Val Asp Thr Ala Thr Tyr Tyr Cys Ala
                85                  90                  95

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

Gly Thr Leu Val Thr Val Ser Ser
        115                 120
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<220>
<223> Synthetic

<400> 6

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

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

Gly Met Ile Trp Gly Asp Gly Ser Thr Asp Tyr Asn Ser Ala Leu Lys
    50                  55                  60

Ser Arg Leu Thr Ile Ser Lys Asp Asn Ser Lys Ser Gln Val Phe Leu
65                  70                  75                  80

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

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

Gly Thr Leu Val Thr Val Ser Ala
        115                 120
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<213> Artificial sequence

<220>
<223> Synthetic

<400> 7

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Ser Ala Ser Gln Gly Ile Ser Asn Tyr Leu Asn
1               5                   10
```

<210> 8

<211> 7
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic

<400> 8

Tyr Thr Ser Asn Leu His Ser
1 5

<210> 9
<211> 9
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic

<400> 9

Gln Gln Tyr Ser Glu Leu Pro Trp Thr
1 5

<210> 10
<211> 10
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic

<400> 10

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

<210> 11
<211> 16
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<213> Artificial sequence

<220>
<223> Synthetic

<400> 11

Met Ile Trp Gly Asp Gly Ser Thr Asp Tyr Asn Ser Ala Leu Lys Ser
1 5 10 15

<210> 12
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<213> Artificial sequence

<220>
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<400> 12

Asp Tyr Tyr Val Asn Tyr Ala Ser Trp Phe Ala Tyr
1 5 10

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<213> Artificial sequence

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<400> 13
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<220>
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<400> 14
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<213> Artificial sequence

<220>
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<400> 17
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<400> 18
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<211> 23
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic

<400> 19

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> 20
<211> 15
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic

<400> 20

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

<210> 21
<211> 32
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic

<400> 21

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> 22
<211> 10
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic

<400> 22

Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
1 5 10

<210> 23
<211> 25
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic

<400> 23

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

Thr Leu Thr Leu Thr Cys Thr Val Ser
20 25

<210> 24
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<213> Artificial sequence

<220>
<223> Synthetic

<400> 24

Trp Ile Arg Gln Pro Pro Gly Lys Ala Leu Glu Trp Leu Gly
1 5 10

<210> 25
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<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic

<400> 25

Arg Leu Thr Ile Ser Lys Asp Thr Ser Lys Asn Gln Val Val Leu Thr
1 5 10 15

Met Thr Asn Met Asp Pro Val Asp Thr Ala Thr Tyr Tyr Cys Ala Arg
20 25 30

<210> 26
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<213> Artificial sequence

<220>
<223> Synthetic

<400> 26

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
1 5 10

<210> 27
<211> 110
<212> PRT
<213> Leporidae

<400> 27

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

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

Asn Tyr Leu Gly Trp Tyr Gln Gln Lys Pro Gly Gln Pro Pro Lys Leu
35 40 45

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

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

Glu Cys Asp Asp Ala Ala Thr Tyr Tyr Cys Val Gly Gly Tyr Pro Gly
85 90 95

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

<210> 28
<211> 113
<212> PRT
<213> Leporidae

<400> 28

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

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

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

Val Ile Tyr Thr Ser Gly Gly Ala Tyr Tyr Ala Asn Trp Ala Lys Gly
50 55 60

Arg Phe Thr Ile Ser Arg Thr Ser Thr Thr Val Asp Leu Arg Met Thr
65 70 75 80

Ser Pro Thr Thr Glu Asp Thr Ala Thr Tyr Phe Cys Val Arg Asn Trp
85 90 95

Ala His Gly Ser Asp Leu Trp Gly Gln Gly Thr Leu Val Thr Val Ser
100 105 110

Ser

<210> 29
<211> 13
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic

<400> 29

Gln Ser Ser Gln Ser Val Tyr Asn Asn Asn Tyr Leu Gly
1 5 10

<210> 30
<211> 7
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic

<400> 30

Asp Ala Ser Lys Leu Ala Ser
1 5

<210> 31
<211> 10
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic

<400> 31

Val Gly Gly Tyr Pro Gly Ser Leu Asn Val
1 5 10

<210> 32
<211> 5
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic

<400> 32

Ile Tyr Asp Met Thr
1 5

<210> 33
<211> 14
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic

<400> 33

Val Ile Tyr Thr Ser Gly Gly Ala Tyr Tyr Ala Asn Trp Ala
1 5 10

<210> 34
<211> 8
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic

<400> 34

Asn Trp Ala His Gly Ser Asp Leu
1 5

<210> 35
<211> 131
<212> PRT
<213> Macaca mulatta

<400> 35

Met Lys Ile Phe Leu Pro Val Leu Leu Ala Ala Leu Leu Gly Val Glu
1 5 10 15

Arg Ala Ser Ser Leu Met Cys Phe Ser Cys Leu Asn Gln Lys Ser Asn
20 25 30

Leu Tyr Cys Leu Lys Pro Thr Ile Cys Ser Asp Gln Asp Asn Tyr Cys
35 40 45

Val Thr Val Ser Thr Ser Ala Gly Ile Gly Asn Leu Val Thr Phe Gly
50 55 60

His Ser Leu Ser Lys Thr Cys Ser Pro Ala Cys Pro Leu Pro Glu Gly
65 70 75 80

Ile Asn Val Gly Val Ala Ser Met Gly Ile Ser Cys Cys Gln Ser Phe
85 90 95

Leu Cys Asn Phe Ser Ala Ala Asp Gly Gly Leu Arg Ala Ser Ala Thr
100 105 110

Leu Leu Gly Ala Gly Leu Leu Leu Ser Leu Leu Pro Ala Leu Leu Arg
115 120 125

Phe Gly Pro
130

<210> 36
<211> 136
<212> PRT
<213> Mus musculus

<400> 36

Met Ser Ala Thr Ser Asn Met Arg Val Phe Leu Pro Val Leu Leu Ala
1 5 10 15

Ala Leu Leu Gly Met Glu Gln Val His Ser Leu Met Cys Phe Ser Cys
20 25 30

Thr Asp Gln Lys Asn Asn Ile Asn Cys Leu Trp Pro Val Ser Cys Gln
35 40 45

Glu Lys Asp His Tyr Cys Ile Thr Leu Ser Ala Ala Ala Gly Phe Gly
50 55 60

Asn Val Asn Leu Gly Tyr Thr Leu Asn Lys Gly Cys Ser Pro Ile Cys
65 70 75 80

```
Pro Ser Glu Asn Val Asn Leu Asn Leu Gly Val Ala Ser Val Asn Ser
                85                  90                  95

Tyr Cys Cys Gln Ser Ser Phe Cys Asn Phe Ser Ala Ala Gly Leu Gly
            100                 105                 110

Leu Arg Ala Ser Ile Pro Leu Leu Gly Leu Gly Leu Leu Leu Ser Leu
        115                 120                 125

Leu Ala Leu Leu Gln Leu Ser Pro
    130                 135
```

<210> 37
<211> 136
<212> PRT
<213> Rat rattus

<400> 37

```
Met Ser Ala Ala Ser Ser Met Arg Val Phe Leu Pro Val Leu Leu Ala
1               5                   10                  15

Ala Leu Leu Gly Val Glu Gln Val His Ser Leu Met Cys Phe Ser Cys
            20                  25                  30

Thr Asp Gln Lys Asn Asn Ile Asn Cys Leu Trp Pro Val Ser Cys Ser
        35                  40                  45

Ser Thr Asp Asn Tyr Cys Ile Thr Leu Ser Ala Ala Ala Gly Phe Gly
    50                  55                  60

Asn Val Asn Leu Gly Tyr Thr Leu Asn Lys Gly Cys Ser Pro Thr Cys
65                  70                  75                  80

Pro Arg Glu Asn Ile Asn Ile Asn Leu Gly Val Ala Ser Val Asn Ser
                85                  90                  95

Tyr Cys Cys Gln Ser Ser Phe Cys Asn Phe Ser Thr Ala Gly Leu Gly
            100                 105                 110

Leu Arg Ala Ser Ile Pro Leu Leu Gly Leu Gly Leu Leu Leu Ser Leu
        115                 120                 125

Leu Ala Val Leu Arg Leu Ser Pro
    130                 135
```

<210> 38
<211> 111
<212> PRT
<213> Homo sapiens

<400> 38

```
Leu Met Cys Phe Ser Cys Leu Asn Gln Lys Ser Asn Leu Tyr Cys Leu
```

1 5 10 15

Lys Pro Thr Ile Cys Ser Asp Gln Asp Asn Tyr Cys Val Thr Val Ser
20 25 30

Ala Ser Ala Gly Ile Gly Asn Leu Val Thr Phe Gly His Ser Leu Ser
35 40 45

Lys Thr Cys Ser Pro Ala Cys Pro Ile Pro Glu Gly Val Asn Val Gly
50 55 60

Val Ala Ser Met Gly Ile Ser Cys Cys Gln Ser Phe Leu Cys Asn Phe
65 70 75 80

Ser Ala Ala Asp Gly Gly Leu Arg Ala Ser Val Thr Leu Leu Gly Ala
85 90 95

Gly Leu Leu Leu Ser Leu Leu Pro Ala Leu Leu Arg Phe Gly Pro
100 105 110

<210> 39
<211> 111
<212> PRT
<213> Macaca fascicularis

<400> 39

Leu Met Cys Phe Ser Cys Leu Asn Gln Lys Ser Asn Leu Tyr Cys Leu
1 5 10 15

Lys Pro Thr Ile Cys Ser Asp Gln Asp Asn Tyr Cys Val Thr Val Ser
20 25 30

Thr Ser Ala Gly Ile Gly Asn Leu Val Thr Phe Gly His Ser Leu Ser
35 40 45

Lys Thr Cys Ser Pro Ala Cys Pro Leu Pro Glu Gly Ile Asn Val Gly
50 55 60

Val Ala Ser Met Gly Ile Ser Cys Cys Gln Ser Phe Leu Cys Asn Phe
65 70 75 80

Ser Ala Ala Asp Gly Gly Leu Arg Ala Ser Ala Thr Leu Leu Gly Ala
85 90 95

Gly Leu Leu Leu Ser Leu Leu Pro Ala Leu Leu Arg Phe Gly Pro
100 105 110

<210> 40
<211> 111
<212> PRT
<213> Macaca mulatta

<400> 40

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Leu Met Cys Phe Ser Cys Leu Asn Gln Lys Ser Asn Leu Tyr Cys Leu
1               5                   10                  15

Lys Pro Thr Ile Cys Ser Asp Gln Asp Asn Tyr Cys Val Thr Val Ser
            20                  25                  30

Thr Ser Ala Gly Ile Gly Asn Leu Val Thr Phe Gly His Ser Leu Ser
        35                  40                  45

Lys Thr Cys Ser Pro Ala Cys Pro Leu Pro Glu Gly Ile Asn Val Gly
    50                  55                  60

Val Ala Ser Met Gly Ile Ser Cys Cys Gln Ser Phe Leu Cys Asn Phe
65                  70                  75                  80

Ser Ala Ala Asp Gly Gly Leu Arg Ala Ser Ala Thr Leu Leu Gly Ala
                85                  90                  95

Gly Leu Leu Leu Ser Leu Leu Pro Ala Leu Leu Arg Phe Gly Pro
            100                 105                 110
```

<210> 41
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<212> PRT
<213> Mus musculus

<400> 41

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Leu Met Cys Phe Ser Cys Thr Asp Gln Lys Asn Asn Ile Asn Cys Leu
1               5                   10                  15

Trp Pro Val Ser Cys Gln Glu Lys Asp His Tyr Cys Ile Thr Leu Ser
            20                  25                  30

Ala Ala Ala Gly Phe Gly Asn Val Asn Leu Gly Tyr Thr Leu Asn Lys
        35                  40                  45

Gly Cys Ser Pro Ile Cys Pro Ser Glu Asn Val Asn Leu Asn Leu Gly
    50                  55                  60

Val Ala Ser Val Asn Ser Tyr Cys Cys Gln Ser Ser Phe Cys Asn Phe
65                  70                  75                  80

Ser Ala Ala Gly Leu Gly Leu Arg Ala Ser Ile Pro Leu Leu Gly Leu
                85                  90                  95

Gly Leu Leu Leu Ser Leu Leu Ala Leu Leu Gln Leu Ser Pro
            100                 105                 110
```

<210> 42
<211> 110
<212> PRT
<213> Rat rattus

<400> 42

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Leu Met Cys Phe Ser Cys Thr Asp Gln Lys Asn Asn Ile Asn Cys Leu
1               5                  10                  15

Trp Pro Val Ser Cys Ser Ser Thr Asp Asn Tyr Cys Ile Thr Leu Ser
            20                  25                  30

Ala Ala Ala Gly Phe Gly Asn Val Asn Leu Gly Tyr Thr Leu Asn Lys
        35                  40                  45

Gly Cys Ser Pro Thr Cys Pro Arg Glu Asn Ile Asn Ile Asn Leu Gly
    50                  55                  60

Val Ala Ser Val Asn Ser Tyr Cys Cys Gln Ser Ser Phe Cys Asn Phe
65                  70                  75                  80

Ser Thr Ala Gly Leu Gly Leu Arg Ala Ser Ile Pro Leu Leu Gly Leu
                85                  90                  95

Gly Leu Leu Leu Ser Leu Leu Ala Val Leu Arg Leu Ser Pro
            100                 105                 110
```

<210> 43
<211> 120
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic

<400> 43

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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 Ser Leu Thr Gly Tyr
            20                  25                  30

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

Gly Met Ile Trp Gly Asp Gly Ser Thr Asp Tyr Asn Ser Ala Leu Lys
    50                  55                  60

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

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

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

Gly Thr Leu Val Thr Val Ser Ser
        115                 120
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<210> 44
<211> 120
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<220>
<223> Synthetic

<400> 44

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

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

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

Gly Met Ile Trp Gly Asp Gly Ser Thr Asp Tyr Asn Ser Ala Leu Lys
50 55 60

Ser Arg Leu Thr Ile Ser Lys Asp Asn Ser Lys Ser Gln Val Phe Leu
65 70 75 80

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

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

Gly Thr Leu Val Thr Val Ser Ala
115 120

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<220>
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gtgcctgatc tgtgcccttg g 21

<210> 46
<211> 20
<212> DNA
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<220>
<223> Synthetic

<400> 46
cccggaagtg gcagaaaccc 20

<210> 47

<211> 423
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic

<400> 47
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ttccttgggg gactgcggaa gggacgaggg ttccctggag tcttacggtc caacatcaga 180

ccaagtccca tggacatgct gacagggtcc ccagggagac cgtgtcagta gggatgtgtg 240

cctggctgtg tacgtgggtg tgcagtgcac gtgagagcac gtggcggctt ctgggggcca 300

tgtttgggga gggaggtgtg ccagcagcct ggagagcctc agtccctgta gccccctgcc 360

ctggcacagc tgcatgcact tcaagggcag cctttggggg ttggggtttc tgccacttcc 420

ggg 423

<210> 48
<211> 19
<212> DNA
<213> Artificial sequence

<220>
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<400> 48
agcggattct catggaaca 19

<210> 49
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<212> DNA
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<400> 49
ctggtcagcc aggagctt 18

<210> 50
<211> 24
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<220>
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<400> 50
tccacaagct gaaggcagac aagg 24

<210> 51
<211> 19
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<220>
<223> Synthetic

<400> 51
agaaggcgtc aatgttggt 19

<210> 52
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<400> 52
cactgaaatt gcacagaaag c 21

<210> 53
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