SEQUENCE LISTING

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<120> ANTI-CD40 ANTIBODIES AND METHODS OF USE

<130> APEX-013/02WO 315697-2028

<160> 194

<170> PatentIn version 3.5

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<400> 1

Met Glu Thr Gly Leu Arg Gly Leu Leu Leu Val Ala Val Leu Lys Gly
1 5 10 15

Val Gln Cys Gln Ser Leu Glu Glu Ser Gly Gly Asp Leu Val Lys Pro
20 25 30

Gly Ala Ser Leu Thr Leu Thr Cys Thr Ala Ser Gly Phe Ser Phe Ser
35 40 45

Ser Thr Tyr Val Cys Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu
50 55 60

Trp Ile Ala Cys Ile Tyr Thr Gly Asp Gly Thr Asn Tyr Ser Ala Ser
65 70 75 80

Trp Ala Lys Gly Arg Phe Thr Ile Ser Lys Pro Ser Ser Thr Thr Val
85 90 95

Thr Leu Gln Met Thr Ser Leu Thr Pro Ala Asp Thr Ala Thr Tyr Phe
100 105 110

Cys Ala Arg Pro Asp Ile Thr Tyr Gly Phe Ala Ile Asn Phe Trp Gly
115 120 125

Pro Gly Thr Leu Val Thr Val Ser Ser
130 135

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<213> Oryctolagus cuniculus

<400> 2

Met Asp Thr Arg Ala Pro Thr Gln Leu Leu Gly Leu Leu Leu Leu Trp
1 5 10 15

Leu Pro Gly Ala Arg Ser Ala Asp Ile Val Met Thr Gln Thr Pro Ser
20 25 30

Ser Ala Ser Glu Pro Val Gly Gly Thr Val Thr Ile Lys Cys Gln Ala
35 40 45

Ser Gln Ser Ile Ser Ser Arg Leu Ala Trp Tyr Gln Gln Lys Pro Gly
50 55 60

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

Val Pro Ser Arg Phe Lys Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu
85 90 95

Thr Ile Ser Asp Leu Glu Cys Ala Asp Ala Ala Thr Tyr Tyr Cys Gln
100 105 110

Cys Thr Gly Tyr Gly Ile Ser Trp Pro Ile Gly Gly Gly Thr Glu Val
115 120 125

Val Val Lys
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<400> 3

Gly Phe Ser Phe Ser Ser Thr Tyr Val Cys
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<210> 4
<211> 17
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<213> Oryctolagus cuniculus

<400> 4

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

Gly

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<400> 5

Pro Asp Ile Thr Tyr Gly Phe Ala Ile Asn Phe
1 5 10

<210> 6
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Gln Ala Ser Gln Ser Ile Ser Ser Arg Leu Ala
1 5 10

<210> 7
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<400> 7

Arg Ala Ser Thr Leu Ala Ser
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<210> 8
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<213> Oryctolagus cuniculus

<400> 8

Gln Cys Thr Gly Tyr Gly Ile Ser Trp Pro
1 5 10

<210> 9
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<213> Artificial Sequence

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<223> VH region of APX005, the humanized version of the R-8 rabbit anti-CD40 antibody

<400> 9

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

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

Tyr Val Cys Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Ile
35 40 45

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

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

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

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

Gly Thr Leu Val Thr Val Ser Ser
115 120

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<213> Artificial Sequence

<220>
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<400> 10

Met Asp Met Arg Val Pro Ala Gln Leu Leu Gly Leu Leu Leu Leu Trp
1 5 10 15

Leu Arg Gly Ala Arg Cys Asp Ile Gln Met Thr Gln Ser Pro Ser Ser
20 25 30

Leu Ser Ala Ser Val Gly Asp Arg Val Thr Ile Lys Cys Gln Ala Ser
35 40 45

Gln Ser Ile Ser Ser Arg Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys
50 55 60

Pro Pro Lys Leu Leu Ile Tyr Arg Ala Ser Thr Leu Ala Ser Gly Val
65 70 75 80

Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr
85 90 95

Ile Ser Ser Leu Gln Pro Glu Asp Val Ala Thr Tyr Tyr Cys Gln Cys
100 105 110

Thr Gly Tyr Gly Ile Ser Trp Pro Ile Gly Gly Gly Thr Lys Val Glu
115 120 125

Ile Lys
130

<210> 11
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<213> Oryctolagus cuniculus

<400> 11

Met Glu Thr Gly Leu Arg Trp Leu Leu Leu Val Ala Val Leu Lys Gly
1 5 10 15

Val Gln Cys Gln Ser Leu Glu Glu Ser Gly Gly Asp Leu Val Lys Pro

20 25 30

Gly Ala Ser Leu Thr Leu Thr Cys Thr Ala Ser Gly Phe Ser Phe Ser
35 40 45

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

Glu Trp Ile Gly Cys Ile His Ala Leu Ser Ser Gly Ser Thr Tyr Tyr
65 70 75 80

Ala Asn Trp Ala Arg Gly Arg Phe Thr Ile Ser Lys Thr Ser Ser Thr
85 90 95

Thr Val Thr Leu Gln Met Asn Ser Leu Thr Ala Ala Asp Thr Ala Thr
100 105 110

Tyr Phe Cys Ala Arg Ser Tyr Ala Gly Tyr Ala Asp Tyr Asn Val Ala
115 120 125

Thr Gly Leu Asn Leu Trp Gly Pro Gly Thr Leu Val Thr Val Ser Ser
130 135 140

<210> 12
<211> 143
<212> PRT
<213> Oryctolagus cuniculus

<400> 12

Met Glu Thr Gly Leu Arg Trp Leu Leu Leu Val Ala Val Leu Lys Gly
1 5 10 15

Val Gln Cys Gln Glu Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln
20 25 30

Pro Gly Gly Ser Leu Thr Leu Thr Gly Thr Ala Ser Gly Phe Ser Phe
35 40 45

Ser Ser Ser Tyr Ser Met Cys Trp Val Arg Gln Ala Pro Gly Lys Gly
50 55 60

Leu Glu Trp Ile Gly Cys Ile Asp Thr Gly Arg Gly Tyr Thr Tyr His
65 70 75 80

Ala Ser Gly Ala Lys Gly Arg Phe Thr Phe Ser Lys Thr Ser Ser Thr
85 90 95

Thr Val Thr Leu Gln Met Thr Ser Leu Thr Ala Ala Asp Thr Ala Thr
100 105 110

Tyr Phe Cys Ala Arg Ser Ser Tyr Val Arg Tyr Asp Asn Arg Asn Tyr
115 120 125

Gly Phe Asn Leu Trp Gly Pro Gly Thr Leu Val Thr Val Ser Ser
130 135 140

<210> 13
<211> 138
<212> PRT
<213> Oryctolagus cuniculus

<400> 13

Met Glu Thr Gly Leu Arg Trp Leu Leu Leu Val Ala Val Leu Lys Gly
1 5 10 15

Val Gln Cys Gln Ser Leu Glu Glu Ser Gly Gly Asp Leu Val Lys Pro
20 25 30

Gly Ala Ser Leu Thr Leu Thr Cys Thr Ala Ser Arg Phe Ser Phe Ser
35 40 45

Ser Thr Tyr Met Cys Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu
50 55 60

Trp Ile Ala Cys Thr Tyr Thr Gly Ser Ser Gly Gly Thr Tyr Tyr Ala
65 70 75 80

Ser Trp Ala Lys Gly Arg Phe Thr Ile Ser Gln Thr Ser Ser Thr Thr
85 90 95

Val Thr Leu Gln Leu Thr Gly Leu Thr Pro Ala Asp Thr Ala Thr Tyr
100 105 110

Phe Cys Ala Arg Pro Asp Val Gly Phe Asp Phe Ala Ile Asn Phe Trp
115 120 125

Gly Pro Gly Thr Leu Val Thr Val Ser Ser
130 135

<210> 14
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<212> PRT
<213> Oryctolagus cuniculus

<400> 14

Met Glu Thr Gly Leu Arg Trp Leu Leu Leu Val Ala Val Leu Lys Gly
1 5 10 15

Val Gln Cys Gln Ser Leu Glu Glu Ser Gly Gly Gly Leu Val Lys Pro
20 25 30

Gly Gly Thr Leu Thr Leu Thr Cys Lys Ala Ser Gly Phe Ser Leu Asn
35 40 45

Tyr Tyr Trp Pro Cys Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu
50 55 60

Trp Val Ala Cys Leu Asn Gly Gly Asp Ser Asp Thr Thr Val Tyr Ala
65 70 75 80

Arg Trp Ala Lys Gly Arg Phe Thr Ile Ser Lys Ala Ser Ser Thr Thr
85 90 95

Val Thr Leu Gln Met Thr Ser Leu Thr Ala Ala Asp Thr Ala Thr Tyr
100 105 110

Phe Cys Ala Arg Tyr Ile Ile Pro Gly Tyr His Phe Asn Leu Trp Gly
115 120 125

Pro Gly Thr Leu Val Thr Val Ser Ser
130 135

<210> 15
<211> 138
<212> PRT
<213> Oryctolagus cuniculus

<400> 15

Met Glu Thr Gly Leu Arg Trp Leu Leu Leu Val Ala Val Leu Lys Gly
1 5 10 15

Val Gln Cys Gln Ser Leu Glu Glu Ser Gly Gly Asp Leu Val Lys Pro
20 25 30

Gly Ala Ser Leu Thr Leu Thr Cys Thr Ala Ser Gly Ile Asp Phe Ser
35 40 45

Ser Tyr Tyr Tyr Met Cys Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
50 55 60

Glu Trp Ile Gly Cys Ile Tyr Ala Gly Ser Gly Ser Thr Tyr Tyr Ala
65 70 75 80

Ser Trp Ala Lys Gly Arg Phe Thr Ile Ser Lys Thr Ser Ser Thr Thr
85 90 95

Val Thr Leu Gln Met Thr Ser Leu Thr Ala Ala Asp Thr Ala Thr Tyr
100 105 110

Phe Cys Ala Arg Ser Gly Tyr Asn Asp Gly Ser Tyr Tyr Asn Leu Trp
115 120 125

Gly Pro Gly Thr Leu Val Thr Val Ser Ser
130 135

<210> 16

<211> 141
<212> PRT
<213> Oryctolagus cuniculus

<400> 16

Met Glu Thr Gly Leu Arg Trp Leu Leu Leu Val Ala Val Leu Lys Gly
1 5 10 15

Val Gln Cys Gln Ser Leu Glu Glu Ser Gly Gly Asp Leu Val Lys Pro
20 25 30

Gly Ala Ser Leu Thr Leu Thr Cys Thr Ala Ser Gly Phe Ser Phe Ser
35 40 45

Arg Gly Tyr Tyr Ile Cys Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
50 55 60

Glu Trp Ile Ala Cys Ile Gly Ala Gly Ser Gly Gly Thr Tyr Phe Ala
65 70 75 80

Ser Trp Ala Lys Gly Arg Phe Ser Ile Ser Arg Thr Ser Ser Thr Thr
85 90 95

Val Thr Leu Gln Met Thr Ser Leu Thr Ala Ala Asp Thr Ala Thr Tyr
100 105 110

Phe Cys Ala Arg Glu Asp Ala Gly Asn Asp Asp Tyr Gly Tyr Ala Arg
115 120 125

Asn Leu Trp Gly Pro Gly Thr Leu Val Thr Val Ser Ser
130 135 140

<210> 17
<211> 138
<212> PRT
<213> Oryctolagus cuniculus

<400> 17

Met Glu Thr Gly Leu Arg Trp Leu Leu Leu Val Ala Val Leu Lys Gly
1 5 10 15

Val Gln Cys Gln Ser Leu Glu Glu Ser Gly Gly Asp Leu Val Lys Pro
20 25 30

Gly Ala Ser Leu Thr Leu Thr Cys Thr Ala Ser Gly Phe Ser Phe Ser
35 40 45

Ser Ser Tyr Trp Ile Cys Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
50 55 60

Glu Trp Ile Ala Cys Ile Asn Thr Gly Ser Ser Val Thr Thr Val Tyr
65 70 75 80

Ala Arg Trp Ala Lys Gly Arg Phe Thr Ile Ser Lys Ala Ser Ser Thr
85 90 95

Thr Val Thr Leu Gln Met Thr Ser Leu Thr Ala Ala Asp Thr Ala Thr
100 105 110

Tyr Phe Cys Ala Arg Tyr Ile Ile Pro Gly Tyr Asn Phe Asn Leu Trp
115 120 125

Gly Pro Gly Thr Leu Val Thr Val Ser Ser
130 135

<210> 18
<211> 139
<212> PRT
<213> Oryctolagus cuniculus

<400> 18

Met Glu Thr Gly Leu Arg Trp Leu Leu Leu Val Ala Val Leu Lys Gly
1 5 10 15

Val Gln Cys Gln Gln Gln Leu Val Glu Ser Gly Gly Gly Leu Val Lys
20 25 30

Pro Gly Ala Ser Leu Thr Leu Thr Cys Lys Ala Ser Gly Phe Ser Phe
35 40 45

Ser Ser Thr Tyr Trp Ile Cys Trp Val Arg Gln Ala Pro Gly Lys Gly
50 55 60

Leu Glu Trp Ile Gly Cys Ile Asn Ser Asp Asp Ser Gly Thr Asn Val
65 70 75 80

Tyr Ala Asn Trp Ala Lys Gly Arg Phe Thr Ile Ser Lys Ala Ser Ser
85 90 95

Thr Thr Val Thr Leu Gln Met Thr Ser Leu Thr Ala Ala Asp Thr Ala
100 105 110

Thr Tyr Phe Cys Ala Arg Tyr Pro Ile Pro Gly Tyr His Phe Asn Leu
115 120 125

Trp Gly Pro Gly Thr Leu Val Thr Val Ser Ser
130 135

<210> 19
<211> 131
<212> PRT
<213> Oryctolagus cuniculus

<400> 19

Met Glu Thr Gly Leu Arg Trp Leu Leu Leu Val Ala Val Leu Lys Gly

1 5 10 15

Val Gln Cys Gln Ser Leu Glu Glu Ser Gly Gly Arg Leu Val Thr Pro
20 25 30

Gly Thr Pro Leu Thr Leu Thr Cys Thr Val Ser Gly Phe Asp Leu Ser
35 40 45

Ser Asn Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu
50 55 60

Trp Ile Gly Tyr Ile Thr Ile Ser Gly Ser Ala Gly Tyr Ala Ser Trp
65 70 75 80

Ala Lys Gly Arg Phe Thr Ile Ser Lys Thr Ser Thr Thr Val Asp Leu
85 90 95

Lys Ile Ser Ser Pro Thr Thr Glu Asp Thr Ala Thr Tyr Phe Cys Ala
100 105 110

Arg Gly Tyr Asn Thr Met Ala Ile Trp Gly Pro Gly Thr Leu Val Thr
115 120 125

Val Ser Ser
130

<210> 20
<211> 136
<212> PRT
<213> Oryctolagus cuniculus

<400> 20

Met Glu Thr Gly Leu Arg Trp Leu Leu Leu Val Ala Val Leu Lys Gly
1 5 10 15

Val Gln Cys Gln Ser Val Glu Glu Ser Gly Gly Arg Leu Val Thr Pro
20 25 30

Gly Thr Pro Leu Thr Leu Asn Cys Thr Val Ser Gly Phe Ser Leu Ser
35 40 45

Ser Tyr Asp Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu
50 55 60

Trp Ile Gly Val Ile Trp Asn Asn Gly Glu Ile Phe Tyr Ala Ser Trp
65 70 75 80

Ala Lys Gly Arg Phe Thr Ile Ser Lys Thr Ser Thr Thr Val Asp Leu
85 90 95

Lys Ile Thr Ser Pro Ser Thr Glu Asp Thr Ala Thr Tyr Phe Cys Ala
100 105 110

Gly Asp Ala Asp Gly Gly Val Val Ser Tyr Phe His Val Trp Gly Pro
115 120 125

Gly Thr Leu Val Thr Val Ser Ser
130 135

<210> 21
<211> 136
<212> PRT
<213> Oryctolagus cuniculus

<400> 21

Met Glu Thr Gly Leu Arg Trp Leu Leu Leu Val Ala Val Leu Lys Gly
1 5 10 15

Val Gln Cys Gln Ser Val Glu Glu Ser Gly Gly Arg Leu Val Thr Pro
20 25 30

Gly Thr Pro Leu Thr Leu Thr Cys Thr Val Ser Gly Phe Ser Leu Ser
35 40 45

Asp Tyr Val Met Arg Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu
50 55 60

Trp Ile Gly Val Ile Ser Ser Ala Gly Asn Thr Tyr Tyr Ala Thr Trp
65 70 75 80

Ala Lys Asp Arg Phe Thr Ile Ser Lys Thr Ser Thr Thr Val Asp Leu
85 90 95

Arg Ile Ala Ser Pro Thr Thr Glu Asp Thr Ala Thr Tyr Phe Cys Ala
100 105 110

Arg Ile Trp Arg Pro Asp Asp Pro Thr Asn Ser Asp Ile Trp Gly Pro
115 120 125

Gly Thr Leu Val Thr Val Ser Ser
130 135

<210> 22
<211> 130
<212> PRT
<213> Oryctolagus cuniculus

<400> 22

Met Asp Thr Arg Ala Pro Thr Gln Leu Leu Gly Leu Leu Leu Leu Trp
1 5 10 15

Leu Pro Gly Ala Arg Cys Asp Val Val Met Thr Gln Thr Pro Ser Ser
20 25 30

```
Ala Ser Ala Ala Val Gly Gly Thr Val Thr Thr Lys Cys Gln Ala Ser
        35                  40                  45

Gln Ser Ile Gly Ser Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln
    50                  55                  60

Arg Pro Lys Leu Leu Ile Tyr Ala Ala Ser Asn Leu Ala Ser Gly Val
65                  70                  75                  80

Pro Ser Arg Phe Lys Gly Ser Arg Ser Gly Thr Glu Tyr Thr Leu Thr
                85                  90                  95

Ile Ser Gly Val Gln Arg Glu Asp Ala Ala Thr Tyr Tyr Cys Leu Gly
            100                 105                 110

Ser Phe Thr Gly Ser Asp Thr Thr Phe Gly Gly Gly Thr Glu Leu Glu
        115                 120                 125

Ile Leu
    130
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<210> 23
<211> 134
<212> PRT
<213> Oryctolagus cuniculus

<400> 23

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Met Asp Thr Arg Ala Pro Thr Gln Leu Leu Gly Leu Leu Leu Leu Trp
1               5                   10                  15

Leu Pro Gly Ala Arg Cys Ala Asp Ile Val Met Thr Gln Thr Pro Ala
            20                  25                  30

Ser Val Glu Ala Ala Val Gly Gly Thr Ile Thr Ile Asn Cys Gln Ala
        35                  40                  45

Ser Glu Ser Ile Ser Ser Trp Leu Ser Trp Tyr Gln Gln Lys Pro Gly
    50                  55                  60

Gln Arg Pro Lys Leu Leu Ile Tyr Tyr Thr Ser Asn Leu Ala Ser Gly
65                  70                  75                  80

Val Pro Ser Arg Phe Lys Gly Ser Gly Ala Gly Thr Asp Phe Thr Leu
                85                  90                  95

Thr Ile Ser Asp Leu Glu Cys Ala Asp Ala Ala Thr Tyr Tyr Cys Gln
            100                 105                 110

Ser Asn Tyr Gly Ser Ser Ser Ser Thr Tyr Tyr Gly Phe Gly Gly Gly
        115                 120                 125

Thr Glu Val Val Val Lys
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130

<210> 24
<211> 131
<212> PRT
<213> Oryctolagus cuniculus

<400> 24

Met Asp Thr Arg Ala Pro Thr Gln Leu Leu Gly Leu Leu Leu Leu Trp
1 5 10 15

Leu Pro Gly Ala Arg Cys Ala Asp Ile Val Met Thr Gln Thr Pro Ser
20 25 30

Ser Ala Ser Glu Pro Val Gly Gly Thr Val Thr Ile Lys Cys Gln Ala
35 40 45

Ser Gln Ser Ile Ser Ser Arg Leu Ala Trp Tyr Gln Gln Lys Pro Gly
50 55 60

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

Val Ser Ser Arg Phe Lys Gly Ser Gly Ser Gly Thr Gln Phe Thr Leu
85 90 95

Thr Ile Ser Asp Leu Glu Cys Ala Asp Ala Ala Thr Tyr Tyr Cys Gln
100 105 110

Cys Thr Gly Tyr Thr Ile Ser Trp Pro Phe Gly Gly Gly Thr Glu Val
115 120 125

Val Val Lys
130

<210> 25
<211> 132
<212> PRT
<213> Oryctolagus cuniculus

<400> 25

Met Asp Thr Arg Ala Pro Thr Gln Leu Leu Gly Leu Leu Leu Leu Trp
1 5 10 15

Leu Pro Gly Ala Arg Cys Ala Tyr Asp Met Thr Gln Thr Pro Ala Ser
20 25 30

Val Ser Ala Ala Val Gly Asp Thr Val Thr Ile Lys Cys Gln Ala Ser
35 40 45

Gln Ser Ile Ser Ser Tyr Leu Tyr Trp Tyr Gln Gln Lys Pro Gly Gln
50 55 60

```
Pro Pro Lys Leu Leu Ile Tyr Gln Ala Ser Lys Leu Ala Ser Gly Val
65                  70                  75                  80

Pro Ser Arg Phe Lys Gly Ser Gly Ser Gly Thr Glu Tyr Thr Leu Thr
                85                  90                  95

Ile Ser Asp Leu Glu Cys Ala Asp Val Ala Thr Tyr Tyr Cys Gln Gln
            100                 105                 110

Gly Tyr Ser His Ile Asn Val Asp Asn Ile Phe Gly Gly Gly Phe Gln
        115                 120                 125

Val Val Val Lys
    130
```

<210> 26
<211> 133
<212> PRT
<213> Oryctolagus cuniculus

<400> 26

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Met Asp Thr Arg Ala Pro Pro Gln Leu Leu Gly Leu Leu Leu Leu Trp
1               5                   10                  15

Leu Pro Gly Ala Arg Cys Ala Asp Ile Val Met Thr Gln Thr Pro Ser
            20                  25                  30

Ser Val Glu Ala Ala Val Gly Gly Thr Val Thr Ile Lys Cys Gln Ala
        35                  40                  45

Ser Gln Ser Ile Tyr Thr Trp Leu Ala Trp Tyr Gln Gln Lys Pro Gly
    50                  55                  60

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

Val Pro Ser Arg Phe Lys Gly Ser Gly Ser Gly Thr Asp Tyr Thr Leu
                85                  90                  95

Thr Ile Ser Asp Leu Glu Cys Asp Asp Ala Ala Thr Tyr Tyr Cys Gln
            100                 105                 110

Arg Tyr Ser Trp Asn Gly Ser Tyr Gly Val Ser Phe Gly Gly Gly Thr
        115                 120                 125

Glu Val Val Val Arg
    130
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<210> 27
<211> 135
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<213> Oryctolagus cuniculus

<400> 27

Met Asp Thr Arg Ala Pro Thr Gln Leu Leu Gly Leu Leu Leu Leu Trp
1 5 10 15

Leu Pro Gly Ala Arg Cys Ala Asp Ile Val Met Thr Gln Thr Pro Ala
20 25 30

Ser Val Ser Ala Ala Val Gly Gly Thr Val Thr Ile Asn Cys Gln Ala
35 40 45

Ser Glu Ser Ala Tyr Thr Leu Leu Ala Trp Tyr Gln Gln Lys Pro Gly
50 55 60

Gln Pro Pro Lys Leu Leu Ile Tyr Gly Ala Ser Ile Leu Glu Ser Gly
65 70 75 80

Val Pro Ser Arg Phe Lys Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu
85 90 95

Thr Ile Ser Asp Leu Glu Cys Ala Asp Ala Ala Thr Tyr Tyr Cys Gln
100 105 110

Ser His Tyr Phe Gly Ser Ser Ser Gly Tyr Ala Asn Thr Phe Gly Gly
115 120 125

Gly Thr Glu Val Val Val Lys
130 135

<210> 28
<211> 132
<212> PRT
<213> Oryctolagus cuniculus

<400> 28

Met Asp Thr Arg Ala Pro Thr Gln Leu Leu Gly Leu Leu Leu Leu Trp
1 5 10 15

Leu Pro Gly Ala Arg Cys Ala Tyr Asp Met Thr Gln Thr Pro Ala Ser
20 25 30

Val Glu Val Ala Val Gly Gly Thr Val Thr Ile Asn Cys Gln Ala Ser
35 40 45

Gln Ser Ile Ser Ser Tyr Leu Tyr Trp Tyr Gln Gln Lys Pro Gly Gln
50 55 60

Pro Pro Lys Leu Leu Ile Tyr Asp Ala Ser Lys Leu Ala Ser Gly Val
65 70 75 80

Pro Ser Arg Phe Lys Gly Ser Gly Ser Gly Thr Gln Phe Thr Leu Thr
85 90 95

Ile Thr Gly Val Glu Cys Ala Asp Ala Ala Thr Tyr Tyr Cys Gln Gln
100 105 110

Gly Tyr Ser His Ile Asn Val Asp Asn Ile Phe Gly Gly Gly Thr Glu
115 120 125

Val Val Val Lys
130

<210> 29
<211> 132
<212> PRT
<213> Oryctolagus cuniculus

<400> 29

Met Asp Thr Arg Ala Pro Thr Gln Leu Leu Gly Leu Leu Leu Leu Trp
1 5 10 15

Leu Pro Gly Ala Arg Cys Ala Tyr Asp Met Thr Gln Thr Pro Ala Ser
20 25 30

Val Glu Val Ala Val Gly Gly Thr Val Thr Ile Lys Cys Gln Ala Ser
35 40 45

Gln Asn Ile Tyr Gly Tyr Leu Phe Trp Tyr Gln Gln Lys Pro Gly Gln
50 55 60

Pro Pro Asn Leu Leu Ile Ala Glu Ala Ser Lys Leu Pro Ser Gly Val
65 70 75 80

Pro Ser Arg Phe Lys Gly Ser Gly Ser Gly Thr Glu Tyr Ser Leu Thr
85 90 95

Ile Ser Gly Val Glu Cys Ala Asp Ala Ala Thr Tyr Tyr Cys Gln Gln
100 105 110

Ser Tyr Ser His Ile Asn Val Asp Asn Ile Phe Gly Gly Gly Thr Glu
115 120 125

Val Val Val Lys
130

<210> 30
<211> 133
<212> PRT
<213> Oryctolagus cuniculus

<400> 30

Met Asp Thr Arg Ala Pro Thr Gln Leu Leu Gly Leu Leu Leu Leu Trp
1 5 10 15

```
Leu Pro Gly Ala Thr Phe Ala Gln Val Leu Thr Gln Thr Pro Ser Pro
            20                  25                  30

Val Ser Ala Pro Val Gly Gly Thr Val Thr Ile Asn Cys Gln Ser Ser
        35                  40                  45

Gln Asn Val Leu Ile Asn Asn Arg Leu Ala Trp Tyr Gln Gln Lys Pro
    50                  55                  60

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

Gly Val Pro Ser Arg Phe Lys Gly Ser Gly Ser Gly Thr Gln Phe Thr
                85                  90                  95

Leu Thr Ile Ser Gly Val Gln Cys Asp Asp Ala Ala Thr Tyr Tyr Cys
            100                 105                 110

Gln Ala Gly Tyr Ser Ser Gly Asp Gly Asn Ala Phe Gly Gly Gly Thr
        115                 120                 125

Glu Val Val Val Lys
    130
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<210> 31
<211> 132
<212> PRT
<213> Oryctolagus cuniculus

<400> 31

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Met Asp Thr Arg Ala Pro Thr Gln Leu Leu Gly Leu Leu Leu Leu Trp
1               5                   10                  15

Leu Pro Gly Ala Arg Cys Ala Tyr Asp Met Thr Gln Thr Pro Ala Ser
            20                  25                  30

Val Glu Val Ala Val Gly Gly Thr Val Thr Ile Lys Cys Gln Ala Ser
        35                  40                  45

Gln Thr Ile Tyr Thr Tyr Leu Ala Trp Tyr Leu Gln Lys Pro Gly Gln
    50                  55                  60

Pro Pro Lys Leu Leu Ile Tyr Glu Ala Ser Lys Leu Ala Ser Gly Val
65                  70                  75                  80

Ser Ser Arg Phe Glu Gly Ser Gly Ser Gly Thr Gln Phe Thr Leu Thr
                85                  90                  95

Ile Ser Gly Val Gln Cys Asp Asp Ala Ala Thr Tyr Tyr Cys Gln Gln
            100                 105                 110

Gly Tyr Asn Ser Arg His Val Asp Asn Val Phe Gly Gly Gly Thr Glu
```

115 120 125

Val Val Val Lys
130

<210> 32
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<213> Oryctolagus cuniculus

<400> 32

Met Asp Thr Arg Ala Pro Thr Gln Leu Leu Gly Leu Leu Leu Leu Trp
1 5 10 15

Leu Pro Gly Ala Arg Cys Asp Val Val Met Thr Gln Thr Pro Ser Ser
20 25 30

Thr Ser Ala Ala Val Gly Gly Thr Val Thr Ile Lys Cys Gln Ala Ser
35 40 45

Glu Ser Ile Ser Ser Ser Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln
50 55 60

Pro Pro Lys Leu Leu Ile Tyr Tyr Ala Ser Asp Leu Ala Ser Gly Val
65 70 75 80

Pro Ser Arg Phe Ser Gly Ser Arg Ser Gly Thr Glu Tyr Thr Leu Thr
85 90 95

Ile Ser Gly Val Gln Arg Glu Asp Ala Ala Thr Tyr Tyr Cys Leu Gly
100 105 110

Gly Tyr Ala Thr Ala Ala Tyr Arg Thr Ala Phe Gly Gly Gly Thr Glu
115 120 125

Leu Glu Ile Leu
130

<210> 33
<211> 138
<212> PRT
<213> Oryctolagus cuniculus

<400> 33

Met Glu Thr Gly Leu Arg Trp Leu Leu Leu Val Ala Val Leu Lys Gly
1 5 10 15

Val Gln Cys Gln Gln Gln Leu Glu Glu Ser Gly Gly Gly Leu Val Lys
20 25 30

Pro Glu Gly Ser Leu Thr Leu Thr Cys Lys Ala Asn Gly Phe Ser Phe
35 40 45

```
Ser Ala Asn Tyr Tyr Met Cys Trp Val Arg Gln Ala Pro Gly Lys Gly
    50                  55                  60

Leu Glu Leu Ile Ala Cys Ile Tyr Ala Ser Ser Gly Ser Thr Trp Tyr
65                  70                  75                  80

Ala Ser Trp Ala Lys Gly Arg Phe Thr Ile Ser Lys Ser Thr Ser Leu
                85                  90                  95

Asn Thr Val Thr Leu Gln Met Thr Ser Leu Thr Val Ala Asp Thr Ala
            100                 105                 110

Thr Tyr Phe Cys Ala Arg Ser Gly Gly Tyr Ala Ala Tyr Asp Leu Trp
        115                 120                 125

Gly Pro Gly Thr Leu Val Thr Val Ser Ser
    130                 135
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<210> 34
<211> 139
<212> PRT
<213> Oryctolagus cuniculus

<400> 34

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Met Glu Thr Gly Leu Arg Trp Leu Leu Leu Val Ala Val Leu Lys Gly
1               5                   10                  15

Val Gln Cys Gln Glu Gln Leu Glu Glu Ser Gly Gly Asp Leu Val Lys
            20                  25                  30

Pro Gly Ala Ser Leu Thr Leu Thr Cys Lys Ala Ser Gly Phe Asp Leu
        35                  40                  45

Ser Ser Thr Tyr Tyr Met Cys Trp Val Arg Gln Ala Pro Gly Lys Gly
    50                  55                  60

Leu Glu Trp Ile Gly Cys Ile Tyr Ala Thr Gly Gly Thr Tyr Tyr Ala
65                  70                  75                  80

Ser Trp Ala Lys Gly Arg Phe Thr Ile Ser Lys Thr Ser Pro Thr Thr
                85                  90                  95

Val Thr Leu Gln Met Pro Ser Leu Thr Ala Ala Asp Thr Ala Thr Tyr
            100                 105                 110

Phe Cys Ala Arg Asp Ile Val Gly Asp Asn Ile Tyr Tyr Phe Asn Phe
        115                 120                 125

Trp Gly Pro Gly Thr Leu Val Thr Val Ser Ser
    130                 135
```

<210> 35
<211> 139
<212> PRT
<213> Oryctolagus cuniculus

<400> 35

Met Glu Thr Gly Leu Arg Trp Leu Leu Leu Val Ala Val Leu Lys Gly
1 5 10 15

Val Gln Cys Gln Glu Gln Leu Glu Glu Ser Gly Gly Asp Leu Val Lys
20 25 30

Pro Glu Gly Ser Leu Thr Leu Thr Cys Thr Ala Ser Gly Phe Ser Phe
35 40 45

Gly Ser Gly Tyr Tyr Met Cys Trp Val Arg Gln Ala Pro Gly Lys Gly
50 55 60

Leu Glu Trp Ile Gly Cys Ile Tyr Val Gly His Asp Ser Leu Tyr Tyr
65 70 75 80

Ala Gly Trp Ala Arg Gly Arg Phe Thr Ile Ser Lys Thr Ser Ser Thr
85 90 95

Thr Val Thr Leu Gln Met Thr Ser Leu Thr Ala Ala Asp Thr Ala Thr
100 105 110

Tyr Phe Cys Ala Arg Gly Ala Ser Ile Thr Asn Ser Tyr Phe Ser Leu
115 120 125

Trp Gly Pro Gly Thr Leu Val Thr Val Ser Ser
130 135

<210> 36
<211> 142
<212> PRT
<213> Oryctolagus cuniculus

<400> 36

Met Glu Thr Gly Leu Arg Trp Leu Leu Leu Val Ala Val Leu Lys Gly
1 5 10 15

Val Gln Cys Gln Glu Gln Leu Val Glu Ser Gly Gly Gly Leu Val Lys
20 25 30

Pro Gly Ala Ser Leu Ala Val Thr Cys Lys Ala Ser Gly Phe Ser Phe
35 40 45

Ser Arg Gly Tyr Tyr Met Cys Trp Val Arg Gln Ala Pro Gly Lys Gly
50 55 60

Leu Glu Trp Ile Ala Cys Ile Gly Ala Gly Ser Gly Asn Thr Tyr Tyr
65 70 75 80

```
Ala Thr Trp Thr Lys Gly Arg Ala Thr Ile Ser Lys Thr Ser Trp Thr
                85                  90                  95

Thr Val Ser Leu Glu Met Thr Ser Leu Thr Gly Ala Asp Thr Ala Thr
            100                 105                 110

Tyr Phe Cys Ala Arg Glu Asp Pro Gly Asn Asp Asp Tyr Gly Tyr Ala
        115                 120                 125

Asp Asn Leu Trp Gly Pro Gly Thr Leu Val Thr Val Ser Ser
    130                 135                 140
```

<210> 37
<211> 144
<212> PRT
<213> Oryctolagus cuniculus

<400> 37

```
Met Glu Thr Gly Leu Arg Trp Leu Leu Leu Val Ala Val Leu Lys Gly
1               5                   10                  15

Val Gln Cys Gln Ser Leu Glu Glu Ser Gly Gly Asp Leu Val Lys Pro
            20                  25                  30

Gly Ala Ser Leu Thr Leu Thr Cys Thr Ala Ser Gly Phe Ser Phe Ser
        35                  40                  45

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

Glu Trp Ile Gly Cys Ile His Ala Leu Ser Ser Gly Ser Thr Tyr Tyr
65                  70                  75                  80

Ala Asn Trp Ala Arg Gly Arg Phe Thr Ile Ser Lys Thr Ser Ser Thr
                85                  90                  95

Thr Val Thr Leu Gln Met Asn Ser Leu Thr Ala Ala Asp Thr Ala Thr
            100                 105                 110

Tyr Phe Cys Ala Arg Ser Tyr Ala Gly Tyr Ala Asp Tyr Asn Val Ala
        115                 120                 125

Thr Gly Leu Asn Leu Trp Gly Pro Gly Thr Leu Val Thr Val Ser Ser
    130                 135                 140
```

<210> 38
<211> 139
<212> PRT
<213> Oryctolagus cuniculus

<400> 38

```
Met Glu Thr Gly Leu Arg Trp Leu Leu Leu Val Ala Val Leu Lys Gly
1               5                  10                  15

Val Gln Cys Gln Glu Gln Leu Glu Glu Ser Gly Gly Asp Leu Val Lys
            20                  25                  30

Pro Glu Gly Ser Leu Thr Leu Thr Cys Thr Ala Ser Gly Phe Ser Phe
        35                  40                  45

Gly Ser Gly Tyr Tyr Met Cys Trp Val Arg Gln Ala Pro Gly Lys Gly
    50                  55                  60

Leu Glu Trp Ile Gly Cys Ile Tyr Val Gly His Asp Ser Leu Tyr Tyr
65                  70                  75                  80

Ala Gly Trp Ala Arg Gly Arg Phe Thr Ile Ser Lys Thr Ser Ser Thr
                85                  90                  95

Thr Val Thr Leu Gln Met Thr Ser Leu Thr Ala Ala Asp Thr Ala Thr
            100                 105                 110

Tyr Phe Cys Ala Arg Gly Ala Ser Ile Thr Asn Ser Tyr Phe Ser Leu
        115                 120                 125

Trp Gly Pro Gly Thr Leu Val Thr Val Ser Ser
    130                 135
```

<210> 39
<211> 139
<212> PRT
<213> Oryctolagus cuniculus

<400> 39

```
Met Glu Thr Gly Leu Arg Trp Leu Leu Leu Val Ala Val Leu Lys Gly
1               5                  10                  15

Val Gln Cys Gln Glu Gln Leu Val Glu Ser Gly Gly Asp Leu Val Gln
            20                  25                  30

Pro Glu Gly Ser Leu Thr Leu Thr Ser Thr Ala Ser Gly Phe Ser Leu
        35                  40                  45

Ser Ser Ser Tyr Phe Met Cys Trp Val Arg Gln Ala Pro Gly Lys Gly
    50                  55                  60

Leu Glu Trp Ile Ala Cys Ile Ser Ala Gly Ser Ser Gly His Thr Tyr
65                  70                  75                  80

Tyr Ala Ser Trp Ala Lys Gly Arg Phe Thr Val Ser Lys Thr Ser Ser
                85                  90                  95

Thr Thr Val Thr Leu Gln Met Thr Ser Leu Thr Ala Ala Asp Thr Ala
```

100 105 110

Thr Tyr Phe Cys Ala Arg Ala Ser Ala Asp Val Gly Asp Tyr Ser Leu
115 120 125

Trp Gly Pro Gly Thr Leu Val Thr Val Ser Ser
130 135

<210> 40
<211> 144
<212> PRT
<213> Oryctolagus cuniculus

<400> 40

Met Glu Thr Gly Leu Arg Trp Leu Leu Leu Val Ala Val Leu Lys Gly
1 5 10 15

Val Gln Cys Gln Ser Leu Glu Glu Ser Gly Gly Asp Leu Val Lys Pro
20 25 30

Gly Ala Ser Leu Thr Leu Thr Cys Thr Ala Ser Gly Phe Ser Phe Ser
35 40 45

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

Glu Trp Ile Gly Cys Ile His Ala Leu Ser Ser Gly Ser Thr Tyr Tyr
65 70 75 80

Ala Asn Trp Ala Arg Gly Arg Phe Thr Ile Ser Lys Thr Ser Ser Thr
85 90 95

Thr Val Thr Leu Gln Met Asn Ser Leu Thr Ala Ala Asp Thr Ala Thr
100 105 110

Tyr Phe Cys Ala Arg Ser Tyr Ala Gly Tyr Ala Asp Tyr Asn Val Ala
115 120 125

Thr Gly Leu Asn Leu Trp Gly Pro Gly Thr Leu Val Thr Val Ser Ser
130 135 140

<210> 41
<211> 144
<212> PRT
<213> Oryctolagus cuniculus

<400> 41

Met Glu Thr Gly Leu Arg Trp Leu Leu Leu Val Ala Val Leu Lys Gly
1 5 10 15

Val Gln Cys Gln Ser Leu Glu Glu Ser Gly Gly Asp Leu Val Lys Pro
20 25 30

```
Gly Ala Ser Leu Thr Leu Thr Cys Thr Ala Ser Gly Phe Ser Phe Ser
        35                  40                  45

Gly Thr Tyr Trp Ile Cys Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
    50                  55                  60

Glu Trp Ile Ala Cys Ile Tyr Ala Gly Ala Ser Gly Asn Ser Tyr Tyr
65                  70                  75                  80

Ala Asn Trp Ala Gln Gly Arg Phe Ile Ile Ser Lys Arg Ser Ser Thr
                85                  90                  95

Ala Val Thr Leu Gln Met Thr Ser Leu Thr Ala Ala Asp Thr Ala Thr
            100                 105                 110

Tyr Phe Cys Ala Arg Ser Tyr Thr Gly Tyr Ala Asp Tyr Asn Val Ala
        115                 120                 125

Thr Gly Leu Asn Leu Trp Gly Pro Gly Thr Leu Val Thr Val Ser Ser
    130                 135                 140
```

<210> 42
<211> 134
<212> PRT
<213> Oryctolagus cuniculus

<400> 42

```
Met Glu Thr Gly Leu Arg Trp Leu Leu Leu Val Ala Val Leu Lys Gly
1               5                   10                  15

Val Gln Cys Gln Ser Leu Glu Glu Ser Gly Gly Arg Leu Ile Thr Pro
            20                  25                  30

Gly Thr Pro Leu Thr Leu Thr Cys Thr Val Ser Gly Phe Ser Leu Ser
        35                  40                  45

Ser Tyr Ala Val Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu
    50                  55                  60

Tyr Ile Gly Leu Ile Ala Thr Gly Gly Gly Thr Phe Tyr Thr Asn Trp
65                  70                  75                  80

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

Lys Met Pro Ser Pro Gln Thr Glu Asp Thr Ala Thr Tyr Phe Cys Val
            100                 105                 110

Arg Gly Tyr Pro Gly Ser Ser Asp Phe Asn Ile Trp Gly Pro Gly Thr
        115                 120                 125
```

Leu Val Thr Val Ser Ser
130

<210> 43
<211> 135
<212> PRT
<213> Oryctolagus cuniculus

<400> 43

Met Glu Thr Gly Leu Arg Trp Leu Leu Leu Val Ala Val Leu Lys Gly
1 5 10 15

Val Gln Cys Gln Ser Leu Glu Glu Ser Gly Gly Arg Leu Val Thr Pro
20 25 30

Gly Thr Pro Leu Thr Leu Thr Cys Thr Val Ser Gly Phe Ser Leu Ser
35 40 45

Thr Tyr Asp Met Thr Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu
50 55 60

Trp Leu Gly Leu Ile Asn Thr Ile Gly Ser Ala Tyr Tyr Ala Ser Trp
65 70 75 80

Ala Ser Gly Arg Phe Thr Ile Ser Lys Thr Ser Thr Ser Val Thr Leu
85 90 95

Lys Met Thr Ser Pro Thr Thr Glu Asp Thr Ala Thr Tyr Phe Cys Val
100 105 110

Arg Gly Val Pro Gly Tyr Ser Ser Ser Phe Asn Ile Trp Gly Pro Gly
115 120 125

Thr Leu Val Thr Val Ser Ser
130 135

<210> 44
<211> 134
<212> PRT
<213> Oryctolagus cuniculus

<400> 44

Met Glu Thr Gly Leu Arg Trp Leu Leu Leu Val Ala Val Leu Lys Gly
1 5 10 15

Val Gln Ser Gln Ser Val Glu Glu Ser Gly Gly Arg Leu Ile Thr Pro
20 25 30

Gly Thr Pro Leu Thr Leu Thr Cys Thr Ile Ser Gly Phe Ser Leu Ser
35 40 45

Ser Tyr Ala Val Asp Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu
50 55 60

Tyr Ile Gly Ile Ile Ala Thr Gly Gly Gly Thr Tyr Tyr Thr Asn Trp
65 70 75 80

Ala Lys Gly Arg Phe Thr Ile Ser Lys Thr Ser Thr Thr Val Asp Leu
85 90 95

Lys Met Thr Ser Pro Gln Pro Glu Asp Thr Ala Thr Tyr Phe Cys Val
100 105 110

Arg Gly Tyr Pro Gly Ser Ser Asp Phe Asn Ile Trp Gly Pro Gly Thr
115 120 125

Leu Val Thr Val Ser Ser
130

<210> 45
<211> 134
<212> PRT
<213> Oryctolagus cuniculus

<400> 45

Met Asp Thr Arg Ala Pro Thr Gln Leu Leu Gly Leu Leu Leu Leu Trp
1 5 10 15

Leu Pro Gly Ala Thr Phe Ala Ala Val Leu Thr Gln Thr Pro Ser Pro
20 25 30

Val Ser Ala Ala Val Gly Gly Thr Val Ser Ile Ser Cys Gln Ser Ser
35 40 45

Lys Ser Val Tyr Asn Asn Asn Trp Leu Ser Trp Tyr Gln Gln Lys Pro
50 55 60

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

Gly Val Pro Ser Arg Phe Arg Gly Ser Gly Ser Gly Thr Glu Phe Thr
85 90 95

Leu Thr Ile Ser Asp Val Val Cys Asp Asp Ala Ala Thr Tyr Tyr Cys
100 105 110

Ala Gly Tyr Glu Ser Val Asn Thr Asp Gly His Ala Phe Gly Gly Gly
115 120 125

Thr Glu Val Val Val Lys
130

<210> 46
<211> 132
<212> PRT

<213> Oryctolagus cuniculus

<400> 46

```
Met Asp Thr Arg Ala Pro Thr Gln Leu Leu Gly Leu Leu Leu Leu Trp
1               5                   10                  15

Leu Pro Gly Ala Arg Cys Ala Leu Val Met Thr Gln Thr Pro Ser Ser
            20                  25                  30

Val Ser Ala Ala Val Gly Gly Thr Val Thr Ile Asn Cys Gln Ala Ser
        35                  40                  45

Gln Thr Ile Ser Asn Glu Leu Ser Trp Tyr Gln Gln Lys Pro Gly Gln
    50                  55                  60

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

Pro Ser Arg Phe Lys Gly Ser Gly Ser Gly Thr Gln Phe Thr Leu Thr
                85                  90                  95

Ile Ser Asp Leu Glu Cys Ala Asp Ala Ala Thr Tyr Tyr Cys Gln Gln
            100                 105                 110

Gly Tyr Thr Tyr Ser Ser Val Asp Asn Val Phe Gly Gly Gly Thr Glu
        115                 120                 125

Val Val Val Lys
    130
```

<210> 47
<211> 131
<212> PRT
<213> Oryctolagus cuniculus

<400> 47

```
Met Asp Thr Arg Ala Pro Thr Gln Leu Leu Gly Leu Leu Leu Leu Trp
1               5                   10                  15

Leu Pro Gly Val Thr Phe Ala Ile Glu Met Thr Gln Thr Pro Phe Ser
            20                  25                  30

Val Ser Glu Pro Val Gly Gly Thr Val Thr Ile Lys Cys Gln Ala Ser
        35                  40                  45

Glu Asp Ile Phe Ser Asn Leu Gly Trp Tyr Gln Gln Lys Pro Gly Gln
    50                  55                  60

Pro Pro Lys Leu Leu Ile Tyr Ala Ala Ser Asn Leu Glu Ser Gly Val
65                  70                  75                  80

Pro Ser Arg Phe Lys Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr
```

85 90 95

Ile Asn Asp Leu Glu Cys Asp Asp Ala Ala Thr Tyr Tyr Cys Gln Ser
100 105 110

Ala Tyr Tyr Ser Ser Ser Tyr Leu Ala Phe Gly Gly Gly Thr Glu Val
115 120 125

Val Val Lys
130

<210> 48
<211> 135
<212> PRT
<213> Oryctolagus cuniculus

<400> 48

Met Asp Thr Arg Ala Pro Thr Gln Leu Leu Gly Leu Leu Leu Leu Trp
1 5 10 15

Leu Pro Gly Ala Arg Cys Ala Asp Ile Val Met Thr Gln Thr Pro Ser
20 25 30

Ser Val Ser Ala Ala Val Gly Gly Thr Val Thr Ile Lys Cys Gln Ala
35 40 45

Ser Glu Thr Ile Tyr Thr Leu Leu Ala Trp Tyr Gln Gln Lys Pro Gly
50 55 60

Gln Pro Pro Lys Leu Leu Ile Tyr Arg Ala Ser Thr Leu Glu Ser Gly
65 70 75 80

Val Pro Ser Arg Phe Gln Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu
85 90 95

Thr Ile Ser Asp Leu Glu Cys Ala Asp Ala Ala Thr Tyr Tyr Cys Gln
100 105 110

Ser His Tyr Phe Asp Ser Ser Ser Gly Tyr Gly Asn Thr Phe Gly Gly
115 120 125

Gly Thr Glu Val Val Val Lys
130 135

<210> 49
<211> 130
<212> PRT
<213> Oryctolagus cuniculus

<400> 49

Met Asp Thr Arg Ala Pro Thr Gln Leu Leu Gly Leu Leu Leu Leu Trp
1 5 10 15

```
Leu Pro Gly Ala Arg Cys Asp Val Val Met Thr Gln Thr Pro Ser Ser
            20                  25                  30

Ala Ser Ala Ala Val Gly Gly Thr Val Thr Ile Lys Cys Gln Ala Ser
        35                  40                  45

Gln Ser Ile Gly Ser Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln
    50                  55                  60

Arg Pro Lys Leu Leu Ile Tyr Ala Ala Ser Asn Leu Ala Ser Gly Val
65                  70                  75                  80

Pro Ser Arg Phe Lys Gly Ser Arg Ser Gly Thr Glu Tyr Thr Leu Thr
                85                  90                  95

Ile Ser Gly Val Gln Arg Glu Asp Ala Ala Thr Tyr Tyr Cys Leu Gly
            100                 105                 110

Ser Phe Thr Gly Ser Asp Thr Thr Phe Gly Gly Gly Thr Glu Leu Glu
        115                 120                 125

Ile Leu
    130
```

<210> 50
<211> 131
<212> PRT
<213> Oryctolagus cuniculus

<400> 50

```
Met Asp Thr Arg Ala Pro Thr Gln Leu Leu Gly Leu Leu Leu Leu Trp
1               5                   10                  15

Leu Pro Gly Val Thr Phe Ala Ile Glu Met Thr Gln Thr Pro Phe Ser
            20                  25                  30

Val Ser Glu Pro Val Gly Gly Thr Val Thr Ile Lys Cys Gln Ala Ser
        35                  40                  45

Glu Asp Ile Phe Ser Asn Leu Gly Trp Tyr Gln Gln Lys Pro Gly Gln
    50                  55                  60

Pro Pro Lys Leu Leu Ile Tyr Ala Ala Ser Asn Leu Glu Ser Gly Val
65                  70                  75                  80

Pro Ser Arg Phe Lys Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr
                85                  90                  95

Ile Asn Asp Leu Glu Cys Asp Asp Ala Ala Thr Tyr Tyr Cys Gln Ser
            100                 105                 110
```

Ala Tyr Tyr Ser Ser Ser Tyr Leu Ala Phe Gly Gly Gly Thr Glu Val
115 120 125

Val Val Lys
130

<210> 51
<211> 130
<212> PRT
<213> Oryctolagus cuniculus

<400> 51

Met Asp Thr Arg Ala Pro Thr Gln Leu Leu Gly Leu Leu Leu Leu Trp
1 5 10 15

Leu Pro Gly Ala Arg Cys Asp Val Met Met Thr Gln Thr Pro Ala Ser
20 25 30

Val Ser Ala Pro Val Gly Gly Thr Val Thr Ile Lys Cys Gln Ala Ser
35 40 45

Gln Ser Ile Ser Thr Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln
50 55 60

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

Ser Ser Arg Phe Glu Gly Ser Arg Ser Val Thr Glu Tyr Thr Leu Thr
85 90 95

Ile Ser Asp Leu Glu Cys Ala Asp Ala Ala Thr Tyr Tyr Cys Gln Ser
100 105 110

Thr Tyr Tyr Gly Asn Gly His Pro Phe Gly Gly Gly Thr Glu Val Val
115 120 125

Val Lys
130

<210> 52
<211> 130
<212> PRT
<213> Oryctolagus cuniculus

<400> 52

Met Asp Thr Arg Ala Pro Thr Gln Leu Leu Gly Leu Leu Leu Leu Trp
1 5 10 15

Leu Pro Gly Ala Arg Cys Asp Val Val Met Thr Gln Thr Pro Ser Ser
20 25 30

Ala Ser Ala Ala Val Gly Gly Thr Val Thr Ile Lys Cys Gln Ala Ser
35 40 45

Gln Ser Ile Gly Ser Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln
50 55 60

Arg Pro Lys Leu Leu Ile Tyr Ala Ala Ser Asn Leu Ala Ser Gly Val
65 70 75 80

Pro Ser Arg Phe Lys Gly Ser Arg Ser Gly Thr Glu Tyr Thr Leu Thr
85 90 95

Ile Ser Gly Val Gln Arg Glu Asp Ala Ala Thr Tyr Tyr Cys Leu Gly
100 105 110

Ser Phe Thr Gly Ser Asp Thr Thr Phe Gly Gly Gly Thr Glu Leu Glu
115 120 125

Ile Leu
130

<210> 53
<211> 130
<212> PRT
<213> Oryctolagus cuniculus

<400> 53

Met Asp Thr Arg Ala Pro Thr Gln Leu Leu Gly Leu Leu Leu Leu Trp
1 5 10 15

Leu Pro Gly Ala Arg Cys Ala Leu Val Met Thr Gln Thr Pro Ser Ser
20 25 30

Thr Ser Ala Ala Val Gly Gly Thr Val Thr Ile Lys Cys Gln Ala Ser
35 40 45

Gln Ser Ile Gly Ser Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln
50 55 60

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

Pro Ser Arg Phe Ser Ala Ser Arg Ser Gly Thr Glu Tyr Thr Leu Thr
85 90 95

Ile Ser Gly Val Gln Arg Glu Asp Ala Ala Thr Tyr Tyr Cys Leu Gly
100 105 110

Ser Phe Thr Gly Ser Asp Thr Thr Phe Gly Gly Gly Thr Glu Leu Glu
115 120 125

Ile Leu
130

<210> 54
<211> 119
<212> PRT
<213> Oryctolagus cuniculus

<400> 54

Ala Leu Ala Pro Gly Ala Arg Cys Ala Val Val Leu Thr Gln Thr Pro
1 5 10 15

Ala Ser Val Ser Ala Ala Val Gly Gly Thr Val Ser Ile Ser Cys Gln
20 25 30

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

Lys Pro Gly Gln Pro Pro Lys Leu Leu Ile Tyr Tyr Ala Ser Thr Leu
50 55 60

Ala Ser Gly Val Pro Ser Arg Phe Arg Gly Ser Gly Ser Gly Thr Gln
65 70 75 80

Phe Thr Leu Thr Ile Ser Asp Val Gln Cys Asp Asp Ala Ala Thr Tyr
85 90 95

Tyr Cys Ala Gly Gly Tyr Pro Ser Asp Ser Asp Asn Thr Phe Gly Gly
100 105 110

Gly Thr Glu Val Val Val Glu
115

<210> 55
<211> 134
<212> PRT
<213> Oryctolagus cuniculus

<400> 55

Met Asp Thr Arg Ala Pro Thr Gln Leu Leu Gly Leu Leu Leu Leu Trp
1 5 10 15

Leu Pro Gly Ala Thr Phe Ala Ile Val Met Thr Gln Thr Pro Ser Ser
20 25 30

Lys Ser Val Ala Val Gly Asp Thr Val Thr Ile Asn Cys Gln Ala Ser
35 40 45

Glu Ser Val Asp Ser Asn Lys Arg Leu Ala Trp Tyr Gln Gln Lys Pro
50 55 60

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

Gly Val Pro Ser Arg Phe Lys Gly Ser Gly Ser Gly Thr Glu Phe Thr

85 90 95

Leu Thr Ile Ser Asp Val Val Cys Asp Asp Ala Ala Thr Tyr Tyr Cys
100 105 110

Ala Gly Tyr Lys Ala Thr Thr Thr Asp Ala Ser Ala Phe Gly Gly Gly
115 120 125

Thr Glu Val Val Val Lys
130

<210> 56
<211> 133
<212> PRT
<213> Oryctolagus cuniculus

<400> 56

Met Asp Thr Arg Ala Pro Thr Gln Leu Leu Gly Leu Leu Leu Leu Trp
1 5 10 15

Leu Pro Gly Ala Arg Cys Ala Val Val Leu Thr Gln Thr Pro Ala Ser
20 25 30

Val Ser Ala Ala Val Gly Gly Thr Val Ser Ile Ser Cys Gln Ser Ser
35 40 45

Lys Ser Val Tyr Asn Lys Asn His Leu Ala Trp Leu Gln Gln Lys Pro
50 55 60

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

Gly Val Pro Ser Arg Phe Arg Gly Ser Gly Ser Gly Thr Gln Leu Thr
85 90 95

Leu Thr Ile Ser Asp Val Gln Cys Asp Asp Ala Ala Thr Tyr Tyr Cys
100 105 110

Ala Gly Gly Tyr Asn Ser Asp Ser Asp Asn Thr Phe Gly Gly Gly Thr
115 120 125

Glu Val Val Val Glu
130

<210> 57
<211> 11
<212> PRT
<213> Oryctolagus cuniculus

<400> 57

Gly Phe Ser Phe Ser Ala Asn Tyr Tyr Met Cys
1 5 10

<210> 58
<211> 11
<212> PRT
<213> Oryctolagus cuniculus

<400> 58

Gly Phe Ser Phe Ser Asp Ser Phe Trp Ile Ala
1 5 10

<210> 59
<211> 11
<212> PRT
<213> Oryctolagus cuniculus

<400> 59

Gly Phe Asp Leu Ser Ser Thr Tyr Tyr Met Cys
1 5 10

<210> 60
<211> 11
<212> PRT
<213> Oryctolagus cuniculus

<400> 60

Gly Phe Ser Phe Ser Ser Ser Tyr Ser Met Cys
1 5 10

<210> 61
<211> 11
<212> PRT
<213> Oryctolagus cuniculus

<400> 61

Gly Phe Ser Phe Gly Ser Gly Tyr Tyr Met Cys
1 5 10

<210> 62
<211> 10
<212> PRT
<213> Oryctolagus cuniculus

<400> 62

Arg Phe Ser Phe Ser Ser Thr Tyr Met Cys
1 5 10

<210> 63
<211> 11
<212> PRT
<213> Oryctolagus cuniculus

<400> 63

Gly Phe Ser Phe Ser Arg Gly Tyr Tyr Met Cys
1 5 10

<210> 64

<211> 11
<212> PRT
<213> Oryctolagus cuniculus

<400> 64

Gly Phe Ser Phe Ser Asp Ser Phe Trp Ile Ala
1 5 10

<210> 65
<211> 10
<212> PRT
<213> Oryctolagus cuniculus

<400> 65

Gly Phe Ser Leu Asn Tyr Tyr Trp Pro Cys
1 5 10

<210> 66
<211> 11
<212> PRT
<213> Oryctolagus cuniculus

<400> 66

Gly Ile Asp Phe Ser Ser Tyr Tyr Tyr Met Cys
1 5 10

<210> 67
<211> 11
<212> PRT
<213> Oryctolagus cuniculus

<400> 67

Gly Phe Ser Phe Gly Ser Gly Tyr Tyr Met Cys
1 5 10

<210> 68
<211> 11
<212> PRT
<213> Oryctolagus cuniculus

<400> 68

Gly Phe Ser Phe Ser Arg Gly Tyr Tyr Ile Cys
1 5 10

<210> 69
<211> 11
<212> PRT
<213> Oryctolagus cuniculus

<400> 69

Gly Phe Ser Leu Ser Ser Ser Tyr Phe Met Cys
1 5 10

<210> 70
<211> 11
<212> PRT

<213> Oryctolagus cuniculus

<400> 70

Gly Phe Ser Phe Ser Asp Ser Phe Trp Ile Ala
1 5 10

<210> 71
<211> 11
<212> PRT
<213> Oryctolagus cuniculus

<400> 71

Gly Phe Ser Phe Ser Ser Ser Tyr Trp Ile Cys
1 5 10

<210> 72
<211> 11
<212> PRT
<213> Oryctolagus cuniculus

<400> 72

Gly Phe Ser Phe Ser Gly Thr Tyr Trp Ile Cys
1 5 10

<210> 73
<211> 11
<212> PRT
<213> Oryctolagus cuniculus

<400> 73

Gly Phe Ser Phe Ser Ser Thr Tyr Trp Ile Cys
1 5 10

<210> 74
<211> 10
<212> PRT
<213> Oryctolagus cuniculus

<400> 74

Gly Phe Asp Leu Ser Ser Asn Ala Met Asn
1 5 10

<210> 75
<211> 10
<212> PRT
<213> Oryctolagus cuniculus

<400> 75

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

<210> 76
<211> 10
<212> PRT
<213> Oryctolagus cuniculus

<400> 76

Gly Phe Ser Leu Ser Thr Tyr Asp Met Thr
1 5 10

<210> 77
<211> 10
<212> PRT
<213> Oryctolagus cuniculus

<400> 77

Gly Phe Ser Leu Ser Ser Tyr Asp Met Asn
1 5 10

<210> 78
<211> 10
<212> PRT
<213> Oryctolagus cuniculus

<400> 78

Gly Phe Ser Leu Ser Ser Tyr Ala Val Asp
1 5 10

<210> 79
<211> 10
<212> PRT
<213> Oryctolagus cuniculus

<400> 79

Gly Phe Ser Leu Ser Asp Tyr Val Met Arg
1 5 10

<210> 80
<211> 17
<212> PRT
<213> Oryctolagus cuniculus

<400> 80

Cys Ile Tyr Ala Ser Ser Gly Ser Thr Trp Tyr Ala Ser Trp Ala Lys
1 5 10 15

Gly

<210> 81
<211> 18
<212> PRT
<213> Oryctolagus cuniculus

<400> 81

Cys Ile His Ala Leu Ser Ser Gly Ser Thr Tyr Tyr Ala Asn Trp Ala
1 5 10 15

Arg Gly

<210> 82
<211> 16
<212> PRT
<213> Oryctolagus cuniculus

<400> 82

Cys Ile Tyr Ala Thr Gly Gly Thr Tyr Tyr Ala Ser Trp Ala Lys Gly
1 5 10 15

<210> 83
<211> 17
<212> PRT
<213> Oryctolagus cuniculus

<400> 83

Cys Ile Asp Thr Gly Arg Gly Tyr Thr Tyr His Ala Ser Gly Ala Lys
1 5 10 15

Gly

<210> 84
<211> 17
<212> PRT
<213> Oryctolagus cuniculus

<400> 84

Cys Ile Tyr Val Gly His Asp Ser Leu Tyr Tyr Ala Gly Trp Ala Arg
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Lys Gly

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