SEQUENCE LISTING

<110> Alder Biopharmaceuticals Inc.
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<120> ANTI-PCSK9 COMPOSITIONS AND USE THEREOF

<130> 67858.791000

<160> 963

<170> PatentIn version 3.5

<210> 1
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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 Thr Val Ser Gly Phe Ser Leu Ser Ser Tyr Trp
20 25 30

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

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

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

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

Ser Ala Phe Ser Ser Gly Leu Glu Phe Asn Ile Trp Gly Pro Gly Thr

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            100                 105                 110

Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro
        115                 120                 125

Leu Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly
    130                 135                 140

Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Asn
145                 150                 155                 160

Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala Val Leu Gln
                165                 170                 175

Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser
            180                 185                 190

Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His Lys Pro Ser
        195                 200                 205

Asn Thr Lys Val Asp Lys Arg Val Glu Pro Lys Ser Cys Asp Lys Thr
    210                 215                 220

His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser
225                 230                 235                 240

Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg
                245                 250                 255

Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His Glu Asp Pro
            260                 265                 270

Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala
        275                 280                 285

Lys Thr Lys Pro Arg Glu Glu Gln Tyr Ala Ser Thr Tyr Arg Val Val
    290                 295                 300

Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr
305                 310                 315                 320

Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr
                325                 330                 335

Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu
            340                 345                 350
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Pro Pro Ser Arg Glu Glu Met Thr Lys Asn Gln Val Ser Leu Thr Cys
        355                 360                 365

Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser
    370                 375                 380

Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp
385                 390                 395                 400

Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser
                405                 410                 415

Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala
            420                 425                 430

Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
        435                 440                 445
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<210> 2
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<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 2

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1               5                   10                  15

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

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

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

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

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

Ser Ala Phe Ser Ser Gly Leu Glu Phe Asn Ile Trp Gly Pro Gly Thr
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100 105 110

Leu Val Thr Val Ser Ser
115

<210> 3
<211> 29
<212> PRT
<213> Oryctolagus cuniculus

<400> 3

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 Thr Val Ser Gly Phe Ser Leu Ser
20 25

<210> 4
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<212> PRT
<213> Oryctolagus cuniculus

<400> 4

Ser Tyr Trp Met Thr
1 5

<210> 5
<211> 14
<212> PRT
<213> Oryctolagus cuniculus

<400> 5

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

<210> 6
<211> 16
<212> PRT
<213> Oryctolagus cuniculus

<400> 6

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

<210> 7
<211> 31
<212> PRT
<213> Oryctolagus cuniculus

<400> 7

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Arg Phe Thr Ile Ser Lys Thr Ser Ser Thr Thr Val Asp Leu Glu Ile
1               5                   10                  15


Thr Ser Pro Thr Thr Glu Asp Thr Ala Thr Tyr Phe Cys Ala Arg
            20                  25                  30


<210>  8
<211>  12
<212>  PRT
<213>  Oryctolagus cuniculus

<400>  8

Asp Ser Ala Phe Ser Ser Gly Leu Glu Phe Asn Ile
1               5                   10


<210>  9
<211>  11
<212>  PRT
<213>  Artificial

<220>
<223>  Humanized Antibody Sequence

<400>  9

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


<210>  10
<211>  330
<212>  PRT
<213>  Artificial

<220>
<223>  Humanized Antibody Sequence

<400>  10

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


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


Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser
        35                  40                  45


Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser
    50                  55                  60


Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr
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```
65                  70                  75                  80

Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys
                85                  90                  95

Arg Val Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys
            100                 105                 110

Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro
        115                 120                 125

Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys
    130                 135                 140

Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp
145                 150                 155                 160

Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu
                165                 170                 175

Glu Gln Tyr Ala Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu
            180                 185                 190

His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn
        195                 200                 205

Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly
    210                 215                 220

Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu
225                 230                 235                 240

Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr
                245                 250                 255

Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn
            260                 265                 270

Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe
        275                 280                 285

Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn
    290                 295                 300

Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr
305                 310                 315                 320
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Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
325 330

<210> 11
<211> 1344
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

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cagtcggtgg aggagtccgg gggtcgcctg gtcacgcctg ggacacccct gacactcacc 60

tgcacagtct ctggattctc cctcagtagc tactggatga cttgggtccg ccaggctcca 120

gggaaggggc tggaatacat cggaatcatt agtagtagtg gtagcacata ctacgcgacc 180

tgggcgaaag gccgattcac catctccaaa acctcgtcga ccacggtgga tctggaaatc 240

accagtccga caaccgagga cacggccacc tatttctgtg ccagagactc tgcttttagt 300

tctggtttgg aattcaacat ctggggcccg ggcaccctcg tcaccgtctc gagcgcctcc 360

accaagggcc catcggtctt ccccctggca ccctcctcca agagcacctc tgggggcaca 420

gcggccctgg gctgcctggt caaggactac ttccccgaac cggtgacggt gtcgtggaac 480

tcaggcgccc tgaccagcgg cgtgcacacc ttcccggctg tcctacagtc ctcaggactc 540

tactccctca gcagcgtggt gaccgtgccc tccagcagct tgggcaccca gacctacatc 600

tgcaacgtga atcacaagcc cagcaacacc aaggtggaca agagagttga gcccaaatct 660

tgtgacaaaa ctcacacatg cccaccgtgc ccagcacctg aactcctggg gggaccgtca 720

gtcttcctct tccccccaaa acccaaggac accctcatga tctcccggac ccctgaggtc 780

acatgcgtgg tggtggacgt gagccacgaa gaccctgagg tcaagttcaa ctggtacgtg 840

gacggcgtgg aggtgcataa tgccaagaca aagccgcggg aggagcagta cgccagcacg 900

taccgtgtgg tcagcgtcct caccgtcctg caccaggact ggctgaatgg caaggagtac 960

aagtgcaagg tctccaacaa agccctccca gcccccatcg agaaaaccat ctccaaagcc 1020

aaagggcagc cccgagaacc acaggtgtac accctgcccc catcccggga ggagatgacc 1080

aagaaccagg tcagcctgac ctgcctggtc aaaggcttct atcccagcga catcgccgtg 1140

gagtgggaga gcaatgggca gccggagaac aactacaaga ccacgcctcc cgtgctggac 1200

tccgacggct ccttcttcct ctacagcaag ctcaccgtgg acaagagcag gtggcagcag 1260

gggaacgtct tctcatgctc cgtgatgcat gaggctctgc acaaccacta cacgcagaag 1320

agcctctccc tgtctccggg taaa 1344

<210> 12
<211> 354
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

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cagtcggtgg aggagtccgg gggtcgcctg gtcacgcctg ggacacccct gacactcacc 60

tgcacagtct ctggattctc cctcagtagc tactggatga cttgggtccg ccaggctcca 120

gggaaggggc tggaatacat cggaatcatt agtagtagtg gtagcacata ctacgcgacc 180

tgggcgaaag gccgattcac catctccaaa acctcgtcga ccacggtgga tctggaaatc 240

accagtccga caaccgagga cacggccacc tatttctgtg ccagagactc tgcttttagt 300

tctggtttgg aattcaacat ctggggcccg ggcaccctcg tcaccgtctc gagc 354

<210> 13
<211> 87
<212> DNA
<213> Oryctolagus cuniculus

<400> 13
cagtcggtgg aggagtccgg gggtcgcctg gtcacgcctg ggacacccct gacactcacc 60

tgcacagtct ctggattctc cctcagt 87

<210> 14
<211> 15
<212> DNA
<213> Oryctolagus cuniculus

<400> 14
agctactgga tgact 15

<210> 15
<211> 42
<212> DNA
<213> Oryctolagus cuniculus

<400> 15
tgggtccgcc aggctccagg gaaggggctg gaatacatcg ga 42

<210> 16
<211> 48
<212> DNA
<213> Oryctolagus cuniculus

<400> 16
atcattagta gtagtggtag cacatactac gcgacctggg cgaaaggc 48

<210> 17
<211> 93
<212> DNA
<213> Oryctolagus cuniculus

<400> 17
cgattcacca tctccaaaac ctcgtcgacc acggtggatc tggaaatcac cagtccgaca 60

accgaggaca cggccaccta tttctgtgcc aga 93

<210> 18
<211> 36
<212> DNA
<213> Oryctolagus cuniculus

<400> 18
gactctgctt ttagttctgg tttggaattc aacatc 36

<210> 19
<211> 33
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 19
tggggcccgg gcaccctcgt caccgtctcg agc 33

<210> 20
<211> 990
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 20
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ggcacagcgg ccctgggctg cctggtcaag gactacttcc ccgaaccggt gacggtgtcg 120

tggaactcag gcgccctgac cagcggcgtg cacaccttcc cggctgtcct acagtcctca 180

ggactctact ccctcagcag cgtggtgacc gtgccctcca gcagcttggg cacccagacc 240

tacatctgca acgtgaatca caagcccagc aacaccaagg tggacaagag agttgagccc 300

aaatcttgtg acaaaactca cacatgccca ccgtgcccag cacctgaact cctgggggga 360

ccgtcagtct tcctcttccc cccaaaaccc aaggacaccc tcatgatctc ccggacccct 420

gaggtcacat gcgtggtggt ggacgtgagc cacgaagacc ctgaggtcaa gttcaactgg 480

tacgtggacg gcgtggaggt gcataatgcc aagacaaagc cgcgggagga gcagtacgcc 540

agcacgtacc gtgtggtcag cgtcctcacc gtcctgcacc aggactggct gaatggcaag 600

gagtacaagt gcaaggtctc caacaaagcc ctcccagccc ccatcgagaa aaccatctcc 660

aaagccaaag ggcagccccg agaaccacag gtgtacaccc tgcccccatc ccgggaggag 720

atgaccaaga accaggtcag cctgacctgc ctggtcaaag gcttctatcc cagcgacatc 780

gccgtggagt gggagagcaa tgggcagccg gagaacaact acaagaccac gcctcccgtg 840

ctggactccg acggctcctt cttcctctac agcaagctca ccgtggacaa gagcaggtgg 900

cagcagggga acgtcttctc atgctccgtg atgcatgagg ctctgcacaa ccactacacg 960

cagaagagcc tctccctgtc tccgggtaaa 990

<210> 21
<211> 218
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 21

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

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

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

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

Gly Ser Gly Ser Gly Thr Gln Phe Thr Leu Thr Ile Ser Gly Val Gln
65 70 75 80

Cys Asp Asp Ala Ala Thr Tyr Tyr Cys Gln Gln Gly Gln Ser Ser Ser
85 90 95

Asp Ile Asp Asn Thr Phe Gly Gly Gly Thr Glu Val Val Val Lys Arg
100 105 110

Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln
115 120 125

Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr
130 135 140

```
Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser
145                 150                 155                 160

Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr
                165                 170                 175

Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys
            180                 185                 190

His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro
        195                 200                 205

Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
    210                 215
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<210> 22
<211> 111
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 22

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1               5                   10                  15

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

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

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

Gly Ser Gly Ser Gly Thr Gln Phe Thr Leu Thr Ile Ser Gly Val Gln
65                  70                  75                  80

Cys Asp Asp Ala Ala Thr Tyr Tyr Cys Gln Gln Gly Gln Ser Ser Ser
                85                  90                  95

Asp Ile Asp Asn Thr Phe Gly Gly Gly Thr Glu Val Val Val Lys
            100                 105                 110
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<210> 23
<211> 23
<212> PRT

<213> Oryctolagus cuniculus

<400> 23

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

Gly Thr Val Thr Ile Lys Cys
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<210> 24
<211> 12
<212> PRT
<213> Oryctolagus cuniculus

<400> 24

Gln Ala Ser Gln Ser Val Tyr Ser Asn Trp Leu Ser
1 5 10

<210> 25
<211> 15
<212> PRT
<213> Oryctolagus cuniculus

<400> 25

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

<210> 26
<211> 7
<212> PRT
<213> Oryctolagus cuniculus

<400> 26

Asp Ala Ser Asp Leu Ala Ser
1 5

<210> 27
<211> 32
<212> PRT
<213> Oryctolagus cuniculus

<400> 27

Gly Val Pro Ser Arg Phe Lys Gly Ser Gly Ser Gly Thr Gln Phe Thr
1 5 10 15

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

<210> 28

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

<400> 28

Gln Gln Gly Gln Ser Ser Ser Asp Ile Asp Asn Thr
1 5 10

<210> 29
<211> 10
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 29

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

<210> 30
<211> 107
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 30

Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu
1 5 10 15

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

Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln
35 40 45

Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser
50 55 60

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

Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser
85 90 95

Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
100 105

<210> 31
<211> 654
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 31
gcctatgatc tgacccagac tccagcctct gtggaggtag ctgtgggagg cacagtcacc 60

atcaagtgcc aggccagtca gagtgtttat agtaactggt tatcctggta tcagcagaaa 120

ccagggcagc ctcccaagct cctgatctat gatgcatccg atctggcatc tggggtccca 180

tcgcggttca aaggcagtgg atctgggaca cagttcactc tcaccatcag cggcgtgcag 240

tgtgacgatg ctgccactta ctactgtcag caggggcaga gtagtagtga tattgataat 300

actttcggcg gagggaccga ggtggtggtc aaacgtacgg tagcggcccc atctgtcttc 360

atcttcccgc catctgatga gcagttgaaa tctggaactg cctctgttgt gtgcctgctg 420

aataacttct atcccagaga ggccaaagta cagtggaagg tggataacgc cctccaatcg 480

ggtaactccc aggagagtgt cacagagcag gacagcaagg acagcaccta cagcctcagc 540

agcaccctga cgctgagcaa agcagactac gagaaacaca aagtctacgc ctgcgaagtc 600

acccatcagg gcctgagctc gcccgtcaca aagagcttca acaggggaga gtgt 654

<210> 32
<211> 333
<212> DNA
<213> Artificial

<220>
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<400> 32
gcctatgatc tgacccagac tccagcctct gtggaggtag ctgtgggagg cacagtcacc 60

atcaagtgcc aggccagtca gagtgtttat agtaactggt tatcctggta tcagcagaaa 120

ccagggcagc ctcccaagct cctgatctat gatgcatccg atctggcatc tggggtccca 180

tcgcggttca aaggcagtgg atctgggaca cagttcactc tcaccatcag cggcgtgcag 240

tgtgacgatg ctgccactta ctactgtcag caggggcaga gtagtagtga tattgataat 300

actttcggcg gagggaccga ggtggtggtc aaa 333

<210> 33
<211> 69
<212> DNA
<213> Oryctolagus cuniculus

<400> 33

gcctatgatc tgacccagac tccagcctct gtggaggtag ctgtgggagg cacagtcacc 60

atcaagtgc 69

<210> 34
<211> 36
<212> DNA
<213> Oryctolagus cuniculus

<400> 34
caggccagtc agagtgttta tagtaactgg ttatcc 36

<210> 35
<211> 45
<212> DNA
<213> Oryctolagus cuniculus

<400> 35
tggtatcagc agaaaccagg gcagcctccc aagctcctga tctat 45

<210> 36
<211> 21
<212> DNA
<213> Oryctolagus cuniculus

<400> 36
gatgcatccg atctggcatc t 21

<210> 37
<211> 96
<212> DNA
<213> Oryctolagus cuniculus

<400> 37
ggggtcccat cgcggttcaa aggcagtgga tctgggacac agttcactct caccatcagc 60

ggcgtgcagt gtgacgatgc tgccacttac tactgt 96

<210> 38
<211> 36
<212> DNA
<213> Oryctolagus cuniculus

<400> 38
cagcaggggc agagtagtag tgatattgat aatact 36

<210> 39
<211> 30
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 39

ttcggcggag ggaccgaggt ggtggtcaaa 30

<210> 40
<211> 321
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 40
cgtacggtag cggccccatc tgtcttcatc ttcccgccat ctgatgagca gttgaaatct 60

ggaactgcct ctgttgtgtg cctgctgaat aacttctatc ccagagaggc caaagtacag 120

tggaaggtgg ataacgccct ccaatcgggt aactcccagg agagtgtcac agagcaggac 180

agcaaggaca gcacctacag cctcagcagc accctgacgc tgagcaaagc agactacgag 240

aaacacaaag tctacgcctg cgaagtcacc catcagggcc tgagctcgcc cgtcacaaag 300

agcttcaaca ggggagagtg t 321

<210> 41
<211> 449
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 41

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

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

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

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

Ser Leu Thr Thr Gly Asp Thr Ala Thr Tyr Phe Cys Ala Arg Ala Ser
85 90 95

Ile Leu Gly Tyr Ser Ile Ala Thr Gly Phe Asn Ile Trp Gly Pro Gly
100 105 110

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Thr Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe
        115                 120                 125

Pro Leu Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala Ala Leu
    130                 135                 140

Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp
145                 150                 155                 160

Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala Val Leu
                165                 170                 175

Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro Ser
            180                 185                 190

Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His Lys Pro
        195                 200                 205

Ser Asn Thr Lys Val Asp Lys Arg Val Glu Pro Lys Ser Cys Asp Lys
    210                 215                 220

Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro
225                 230                 235                 240

Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser
                245                 250                 255

Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His Glu Asp
            260                 265                 270

Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn
        275                 280                 285

Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Ala Ser Thr Tyr Arg Val
    290                 295                 300

Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu
305                 310                 315                 320

Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys
                325                 330                 335

Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr
            340                 345                 350
```

Leu Pro Pro Ser Arg Glu Glu Met Thr Lys Asn Gln Val Ser Leu Thr
355 360 365

Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu
370 375 380

Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu
385 390 395 400

Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys
405 410 415

Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu
420 425 430

Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly
435 440 445

Lys

<210> 42
<211> 119
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 42

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

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

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

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

Ser Leu Thr Thr Gly Asp Thr Ala Thr Tyr Phe Cys Ala Arg Ala Ser
85 90 95

```
Ile Leu Gly Tyr Ser Ile Ala Thr Gly Phe Asn Ile Trp Gly Pro Gly
            100                 105                 110


Thr Leu Val Thr Val Ser Ser
        115


<210>  43
<211>  29
<212>  PRT
<213>  Oryctolagus cuniculus

<400>  43

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 Thr Val Ser Gly Phe Ser Leu Ser
            20                  25


<210>  44
<211>  5
<212>  PRT
<213>  Oryctolagus cuniculus

<400>  44

Ser Tyr Ala Met Ser
1               5


<210>  45
<211>  14
<212>  PRT
<213>  Oryctolagus cuniculus

<400>  45

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


<210>  46
<211>  16
<212>  PRT
<213>  Oryctolagus cuniculus

<400>  46

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


<210>  47
<211>  30
<212>  PRT
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<213> Oryctolagus cuniculus

<400> 47

Arg Phe Thr Ile Ser Lys Thr Ser Thr Thr Val Asp Leu Lys Met Thr
1 5 10 15

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

<210> 48
<211> 14
<212> PRT
<213> Oryctolagus cuniculus

<400> 48

Ala Ser Ile Leu Gly Tyr Ser Ile Ala Thr Gly Phe Asn Ile
1 5 10

<210> 49
<211> 11
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 49

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

<210> 50
<211> 330
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 50

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

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

Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser
35 40 45

Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser
50 55 60

```
Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr
65                  70                  75                  80

Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys
                85                  90                  95

Arg Val Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys
            100                 105                 110

Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro
        115                 120                 125

Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys
    130                 135                 140

Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp
145                 150                 155                 160

Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu
                165                 170                 175

Glu Gln Tyr Ala Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu
            180                 185                 190

His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn
        195                 200                 205

Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly
    210                 215                 220

Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu
225                 230                 235                 240

Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr
                245                 250                 255

Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn
            260                 265                 270

Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe
        275                 280                 285

Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn
    290                 295                 300
```

```
Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr
305                 310                 315                 320


Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
                325                 330


<210>  51
<211>  1347
<212>  DNA
<213>  Artificial

<220>
<223>  Humanized Antibody Sequence

<400>  51
cagtcggtgg aggagtccgg gggtcgcctg gtcacgcctg ggacacccct gacactcacc       60

tgcacagtct ctggattctc cctcagtagc tatgcaatga gctgggtccg ccaggctcca      120

gggaaggggc tggaatggat cggaatcatt gatgctattg ataacacata ctacgcgagc      180

tgggcgaaag gccgattcac catctccaaa acctcgacca cggtggatct gaaaatgacc      240

agtctgacaa ccggggacac ggccacctat ttctgtgcca gagcctctat tcttggttat      300

agtattgcta cgggctttaa catctggggc ccagggaccc tcgtcaccgt ctcgagcgcc      360

tccaccaagg gcccatcggt cttccccctg gcaccctcct ccaagagcac ctctgggggc      420

acagcggccc tgggctgcct ggtcaaggac tacttccccg aaccggtgac ggtgtcgtgg      480

aactcaggcg ccctgaccag cggcgtgcac accttcccgg ctgtcctaca gtcctcagga      540

ctctactccc tcagcagcgt ggtgaccgtg ccctccagca gcttgggcac ccagacctac      600

atctgcaacg tgaatcacaa gcccagcaac accaaggtgg acaagagagt tgagcccaaa      660

tcttgtgaca aaactcacac atgcccaccg tgcccagcac ctgaactcct gggggggaccg      720

tcagtcttcc tcttcccccc aaaacccaag gacaccctca tgatctcccg gacccctgag      780

gtcacatgcg tggtggtgga cgtgagccac gaagaccctg aggtcaagtt caactggtac      840

gtggacggcg tggaggtgca taatgccaag acaaagccgc gggaggagca gtacgccagc      900

acgtaccgtg tggtcagcgt cctcaccgtc ctgcaccagg actggctgaa tggcaaggag      960

tacaagtgca aggtctccaa caaagccctc ccagccccca tcgagaaaac catctccaaa     1020

gccaaagggc agccccgaga accacaggtg tacaccctgc ccccatcccg ggaggagatg     1080

accaagaacc aggtcagcct gacctgcctg gtcaaaggct tctatcccag cgacatcgcc     1140

gtggagtggg agagcaatgg gcagccggag aacaactaca agaccacgcc tcccgtgctg     1200

gactccgacg gctccttctt cctctacagc aagctcaccg tggacaagag caggtggcag     1260

caggggaacg tcttctcatg ctccgtgatg catgaggctc tgcacaacca ctacacgcag     1320
```

aagagcctct ccctgtctcc gggtaaa 1347

<210> 52
<211> 357
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 52
cagtcggtgg aggagtccgg gggtcgcctg gtcacgcctg ggacacccct gacactcacc 60

tgcacagtct ctggattctc cctcagtagc tatgcaatga gctgggtccg ccaggctcca 120

gggaaggggc tggaatggat cggaatcatt gatgctattg ataacacata ctacgcgagc 180

tgggcgaaag gccgattcac catctccaaa acctcgacca cggtggatct gaaaatgacc 240

agtctgacaa ccggggacac ggccacctat ttctgtgcca gagcctctat tcttggttat 300

agtattgcta cgggctttaa catctggggc ccagggaccc tcgtcaccgt ctcgagc 357

<210> 53
<211> 87
<212> DNA
<213> Oryctolagus cuniculus

<400> 53
cagtcggtgg aggagtccgg gggtcgcctg gtcacgcctg ggacacccct gacactcacc 60

tgcacagtct ctggattctc cctcagt 87

<210> 54
<211> 15
<212> DNA
<213> Oryctolagus cuniculus

<400> 54
agctatgcaa tgagc 15

<210> 55
<211> 42
<212> DNA
<213> Oryctolagus cuniculus

<400> 55
tgggtccgcc aggctccagg gaaggggctg gaatggatcg ga 42

<210> 56
<211> 48
<212> DNA
<213> Oryctolagus cuniculus

<400> 56

atcattgatg ctattgataa cacatactac gcgagctggg cgaaaggc 48

<210> 57
<211> 90
<212> DNA
<213> Oryctolagus cuniculus

<400> 57
cgattcacca tctccaaaac ctcgaccacg gtggatctga aaatgaccag tctgacaacc 60

ggggacacgg ccacctattt ctgtgccaga 90

<210> 58
<211> 42
<212> DNA
<213> Oryctolagus cuniculus

<400> 58
gcctctattc ttggttatag tattgctacg ggctttaaca tc 42

<210> 59
<211> 33
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 59
tggggcccag ggaccctcgt caccgtctcg agc 33

<210> 60
<211> 990
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 60
gcctccacca agggcccatc ggtcttcccc ctggcaccct cctccaagag cacctctggg 60

ggcacagcgg ccctgggctg cctggtcaag gactacttcc ccgaaccggt gacggtgtcg 120

tggaactcag gcgccctgac cagcggcgtg cacaccttcc cggctgtcct acagtcctca 180

ggactctact ccctcagcag cgtggtgacc gtgccctcca gcagcttggg cacccagacc 240

tacatctgca acgtgaatca caagcccagc aacaccaagg tggacaagag agttgagccc 300

aaatcttgtg acaaaactca cacatgccca ccgtgcccag cacctgaact cctgggggga 360

ccgtcagtct tcctcttccc cccaaaaccc aaggacaccc tcatgatctc ccggaccccct 420

gaggtcacat gcgtggtggt ggacgtgagc cacgaagacc ctgaggtcaa gttcaactgg 480

tacgtggacg gcgtggaggt gcataatgcc aagacaaagc cgcgggagga gcagtacgcc 540

agcacgtacc gtgtggtcag cgtcctcacc gtcctgcacc aggactggct gaatggcaag 600

gagtacaagt gcaaggtctc caacaaagcc ctcccagccc ccatcgagaa aaccatctcc 660

aaagccaaag ggcagccccg agaaccacag gtgtacaccc tgcccccatc ccgggaggag 720

atgaccaaga accaggtcag cctgacctgc ctggtcaaag gcttctatcc cagcgacatc 780

gccgtggagt gggagagcaa tgggcagccg gagaacaact acaagaccac gcctcccgtg 840

ctggactccg acggctcctt cttcctctac agcaagctca ccgtggacaa gagcaggtgg 900

cagcagggga acgtcttctc atgctccgtg atgcatgagg ctctgcacaa ccactacacg 960

cagaagagcc tctccctgtc tccgggtaaa 990

<210> 61
<211> 217
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 61

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

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

Leu Ala Trp Tyr Gln Gln Lys Ser Gly Gln Pro Pro Lys Leu Leu Ile
35 40 45

Tyr Arg Ala Ser Thr Leu Glu Ser Gly Val Ser Ser Arg Phe Lys Gly
50 55 60

Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Asp Leu Glu Cys
65 70 75 80

Ala Asp Ala Ala Thr Tyr Tyr Cys Gln Gln Gly Tyr Gly Val Ser Asp
85 90 95

Val Asp Asn Gly Phe Gly Gly Gly Thr Glu Val Val Val Lys Arg Thr
100 105 110

Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu
115 120 125

Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro

```
    130                 135                 140

Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly
145                 150                 155                 160

Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr
                165                 170                 175

Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys His
            180                 185                 190

Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro Val
        195                 200                 205

Thr Lys Ser Phe Asn Arg Gly Glu Cys
    210                 215


<210>  62
<211>  110
<212>  PRT
<213>  Artificial

<220>
<223>  Humanized Antibody Sequence

<400>  62

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

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

Leu Ala Trp Tyr Gln Gln Lys Ser Gly Gln Pro Pro Lys Leu Leu Ile
        35                  40                  45

Tyr Arg Ala Ser Thr Leu Glu Ser Gly Val Ser Ser Arg Phe Lys Gly
    50                  55                  60

Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Asp Leu Glu Cys
65                  70                  75                  80

Ala Asp Ala Ala Thr Tyr Tyr Cys Gln Gln Gly Tyr Gly Val Ser Asp
                85                  90                  95

Val Asp Asn Gly Phe Gly Gly Gly Thr Glu Val Val Val Lys
            100                 105                 110
```

<210> 63
<211> 23
<212> PRT
<213> Oryctolagus cuniculus

<400> 63

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

Gly Thr Val Thr Ile Lys Cys
20

<210> 64
<211> 11
<212> PRT
<213> Oryctolagus cuniculus

<400> 64

Gln Ala Ser Gln Ser Ile Ser Ser His Leu Ala
1 5 10

<210> 65
<211> 15
<212> PRT
<213> Oryctolagus cuniculus

<400> 65

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

<210> 66
<211> 7
<212> PRT
<213> Oryctolagus cuniculus

<400> 66

Arg Ala Ser Thr Leu Glu Ser
1 5

<210> 67
<211> 32
<212> PRT
<213> Oryctolagus cuniculus

<400> 67

Gly Val Ser Ser Arg Phe Lys Gly Ser Gly Ser Gly Thr Glu Phe Thr
1 5 10 15

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

<210> 68
<211> 12
<212> PRT
<213> Oryctolagus cuniculus

<400> 68

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

<210> 69
<211> 10
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 69

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

<210> 70
<211> 107
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 70

Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu
1 5 10 15

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

Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln
35 40 45

Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser
50 55 60

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

Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser
85 90 95

Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
100 105

<210> 71
<211> 651
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 71
gcctatgata tgacccagac tccagcctct gtggaggtag ctgtgggagg cacagtcacc 60

atcaagtgcc aggccagtca gagcattagt agccacttag cctggtatca gcagaaatca 120

gggcagcctc ccaagctcct gatctacagg gcatccactc tggaatctgg ggtctcatca 180

aggttcaaag gcagtggatc tgggacagag ttcactctca ccatcagcga cctggagtgt 240

gccgatgctg ccacttacta ctgtcaacag ggttatggtg ttagtgatgt tgataatggt 300

ttcggcggag ggaccgaggt ggtggtcaaa cgtacggtag cggccccatc tgtcttcatc 360

ttcccgccat ctgatgagca gttgaaatct ggaactgcct ctgttgtgtg cctgctgaat 420

aacttctatc ccagagaggc caaagtacag tggaaggtgg ataacgccct ccaatcgggt 480

aactcccagg agagtgtcac agagcaggac agcaaggaca gcacctacag cctcagcagc 540

accctgacgc tgagcaaagc agactacgag aaacacaaag tctacgcctg cgaagtcacc 600

catcagggcc tgagctcgcc cgtcacaaag agcttcaaca ggggagagtg t 651

<210> 72
<211> 330
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 72
gcctatgata tgacccagac tccagcctct gtggaggtag ctgtgggagg cacagtcacc 60

atcaagtgcc aggccagtca gagcattagt agccacttag cctggtatca gcagaaatca 120

gggcagcctc ccaagctcct gatctacagg gcatccactc tggaatctgg ggtctcatca 180

aggttcaaag gcagtggatc tgggacagag ttcactctca ccatcagcga cctggagtgt 240

gccgatgctg ccacttacta ctgtcaacag ggttatggtg ttagtgatgt tgataatggt 300

ttcggcggag ggaccgaggt ggtggtcaaa 330

<210> 73
<211> 69
<212> DNA

<213> Oryctolagus cuniculus

<400> 73
gcctatgata tgacccagac tccagcctct gtggaggtag ctgtgggagg cacagtcacc 60

atcaagtgc 69

<210> 74
<211> 33
<212> DNA
<213> Oryctolagus cuniculus

<400> 74
caggccagtc agagcattag tagccactta gcc 33

<210> 75
<211> 45
<212> DNA
<213> Oryctolagus cuniculus

<400> 75
tggtatcagc agaaatcagg gcagcctccc aagctcctga tctac 45

<210> 76
<211> 21
<212> DNA
<213> Oryctolagus cuniculus

<400> 76
agggcatcca ctctggaatc t 21

<210> 77
<211> 96
<212> DNA
<213> Oryctolagus cuniculus

<400> 77
ggggtctcat caaggttcaa aggcagtgga tctgggacag agttcactct caccatcagc 60

gacctggagt gtgccgatgc tgccacttac tactgt 96

<210> 78
<211> 36
<212> DNA
<213> Oryctolagus cuniculus

<400> 78
caacagggtt atggtgttag tgatgttgat aatggt 36

<210> 79
<211> 30
<212> DNA
<213> Artificial

<220>

<223> Humanized Antibody Sequence

<400> 79
ttcggcggag ggaccgaggt ggtggtcaaa 30

<210> 80
<211> 321
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 80
cgtacggtag cggccccatc tgtcttcatc ttcccgccat ctgatgagca gttgaaatct 60

ggaactgcct ctgttgtgtg cctgctgaat aacttctatc ccagagaggc caaagtacag 120

tggaaggtgg ataacgccct ccaatcgggt aactcccagg agagtgtcac agagcaggac 180

agcaaggaca gcacctacag cctcagcagc accctgacgc tgagcaaagc agactacgag 240

aaacacaaag tctacgcctg cgaagtcacc catcagggcc tgagctcgcc cgtcacaaag 300

agcttcaaca ggggagagtg t 321

<210> 81
<211> 444
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 81

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

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

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

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

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

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

```
Ala Tyr Ala Thr Leu Asn Leu Trp Gly Pro Gly Thr Leu Val Thr Val
            100                 105                 110

Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser
        115                 120                 125

Ser Lys Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys
    130                 135                 140

Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu
145                 150                 155                 160

Thr Ser Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu
                165                 170                 175

Tyr Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr
            180                 185                 190

Gln Thr Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val
        195                 200                 205

Asp Lys Arg Val Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro
    210                 215                 220

Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe
225                 230                 235                 240

Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val
                245                 250                 255

Thr Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe
            260                 265                 270

Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro
        275                 280                 285

Arg Glu Glu Gln Tyr Ala Ser Thr Tyr Arg Val Val Ser Val Leu Thr
    290                 295                 300

Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val
305                 310                 315                 320

Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala
                325                 330                 335
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Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg
            340                 345                 350

Glu Glu Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly
        355                 360                 365

Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro
    370                 375                 380

Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser
385                 390                 395                 400

Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln
                405                 410                 415

Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His
            420                 425                 430

Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
        435                 440
```

<210> 82
<211> 114
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 82

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

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

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

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

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

Ser Pro Thr Val Glu Asp Thr Ala Thr Tyr Phe Cys Ala Arg Gly Gly
                85                  90                  95
```

```
Ala Tyr Ala Thr Leu Asn Leu Trp Gly Pro Gly Thr Leu Val Thr Val
            100                 105                 110


Ser Ser



<210>  83
<211>  29
<212>  PRT
<213>  Oryctolagus cuniculus

<400>  83

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


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


<210>  84
<211>  5
<212>  PRT
<213>  Oryctolagus cuniculus

<400>  84

Ser Tyr Tyr Met Ser
1               5


<210>  85
<211>  14
<212>  PRT
<213>  Oryctolagus cuniculus

<400>  85

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


<210>  86
<211>  16
<212>  PRT
<213>  Oryctolagus cuniculus

<400>  86

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


<210>  87
<211>  30
<212>  PRT
<213>  Oryctolagus cuniculus
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<400> 87

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

Ser Pro Thr Val Glu Asp Thr Ala Thr Tyr Phe Cys Ala Arg
20 25 30

<210> 88
<211> 9
<212> PRT
<213> Oryctolagus cuniculus

<400> 88

Gly Gly Ala Tyr Ala Thr Leu Asn Leu
1 5

<210> 89
<211> 11
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 89

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

<210> 90
<211> 330
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 90

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

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

Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser
35 40 45

Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser
50 55 60

```
Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr
65                  70                  75                  80

Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys
                85                  90                  95

Arg Val Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys
            100                 105                 110

Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro
        115                 120                 125

Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys
    130                 135                 140

Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp
145                 150                 155                 160

Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu
                165                 170                 175

Glu Gln Tyr Ala Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu
            180                 185                 190

His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn
        195                 200                 205

Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly
    210                 215                 220

Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu
225                 230                 235                 240

Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr
                245                 250                 255

Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn
            260                 265                 270

Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe
        275                 280                 285

Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn
    290                 295                 300
```

Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr
305 310 315 320

Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
325 330

<210> 91
<211> 1332
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 91
cagtcggtgg aggagtccgg gggtcgcctg gtcacgcctg gaggatccct gacactcacc 60

tgcacagcct ctggattctc cctcagtagc tactacatga gctgggtccg ccaggctcca 120

gggaaggggc tggaatggat cggaatcatt tatcctagtg gtagcacata ctacgcgagc 180

tgggcgaaag gccgattcac catctccaaa acctcgacca cggtggatct gaaaatcacc 240

agtccgacag tcgaggacac ggccacctat ttctgtgcca gaggaggtgc ttatgctact 300

cttaacttgt ggggcccggg caccctcgtc accgtctcga gcgcctccac caagggccca 360

tcggtcttcc ccctggcacc ctcctccaag agcacctctg ggggcacagc ggccctgggc 420

tgcctggtca aggactactt ccccgaaccg gtgacggtgt cgtggaactc aggcgccctg 480

accagcggcg tgcacacctt cccggctgtc ctacagtcct caggactcta ctccctcagc 540

agcgtggtga ccgtgccctc cagcagcttg ggcacccaga cctacatctg caacgtgaat 600

cacaagccca gcaacaccaa ggtggacaag agagttgagc ccaaatcttg tgacaaaact 660

cacacatgcc caccgtgccc agcacctgaa ctcctggggg gaccgtcagt cttcctcttc 720

cccccaaaac ccaaggacac cctcatgatc tcccggaccc ctgaggtcac atgcgtggtg 780

gtggacgtga gccacgaaga ccctgaggtc aagttcaact ggtacgtgga cggcgtggag 840

gtgcataatg ccaagacaaa gccgcgggag gagcagtacg ccagcacgta ccgtgtggtc 900

agcgtcctca ccgtcctgca ccaggactgg ctgaatggca aggagtacaa gtgcaaggtc 960

tccaacaaag ccctcccagc ccccatcgag aaaaccatct ccaaagccaa agggcagccc 1020

cgagaaccac aggtgtacac cctgccccca tcccgggagg agatgaccaa gaaccaggtc 1080

agcctgacct gcctggtcaa aggcttctat cccagcgaca tcgccgtgga gtgggagagc 1140

aatgggcagc cggagaacaa ctacaagacc acgcctcccg tgctggactc cgacggctcc 1200

ttcttcctct acagcaagct caccgtggac aagagcaggt ggcagcaggg gaacgtcttc 1260

tcatgctccg tgatgcatga ggctctgcac aaccactaca cgcagaagag cctctccctg 1320

tctccgggta aa 1332

<210> 92
<211> 342
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 92
cagtcggtgg aggagtccgg gggtcgcctg gtcacgcctg gaggatccct gacactcacc 60

tgcacagcct ctggattctc cctcagtagc tactacatga gctgggtccg ccaggctcca 120

gggaaggggc tggaatggat cggaatcatt tatcctagtg gtagcacata ctacgcgagc 180

tgggcgaaag gccgattcac catctccaaa acctcgacca cggtggatct gaaaatcacc 240

agtccgacag tcgaggacac ggccacctat ttctgtgcca gaggaggtgc ttatgctact 300

cttaacttgt ggggcccggg caccctcgtc accgtctcga gc 342

<210> 93
<211> 87
<212> DNA
<213> Oryctolagus cuniculus

<400> 93
cagtcggtgg aggagtccgg gggtcgcctg gtcacgcctg gaggatccct gacactcacc 60

tgcacagcct ctggattctc cctcagt 87

<210> 94
<211> 15
<212> DNA
<213> Oryctolagus cuniculus

<400> 94
agctactaca tgagc 15

<210> 95
<211> 42
<212> DNA
<213> Oryctolagus cuniculus

<400> 95
tgggtccgcc aggctccagg gaaggggctg gaatggatcg ga 42

<210> 96
<211> 48
<212> DNA
<213> Oryctolagus cuniculus

<400> 96
atcatttatc ctagtggtag cacatactac gcgagctggg cgaaaggc 48

<210> 97
<211> 90
<212> DNA
<213> Oryctolagus cuniculus

<400> 97
cgattcacca tctccaaaac ctcgaccacg gtggatctga aaatcaccag tccgacagtc 60

gaggacacgg ccacctattt ctgtgccaga 90

<210> 98
<211> 27
<212> DNA
<213> Oryctolagus cuniculus

<400> 98
ggaggtgctt atgctactct taacttg 27

<210> 99
<211> 33
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 99
tggggcccgg gcaccctcgt caccgtctcg agc 33

<210> 100
<211> 990
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 100
gcctccacca agggcccatc ggtcttcccc ctggcaccct cctccaagag cacctctggg 60

ggcacagcgg ccctgggctg cctggtcaag gactacttcc ccgaaccggt gacggtgtcg 120

tggaactcag gcgccctgac cagcggcgtg cacaccttcc cggctgtcct acagtcctca 180

ggactctact ccctcagcag cgtggtgacc gtgccctcca gcagcttggg cacccagacc 240

tacatctgca acgtgaatca caagcccagc aacaccaagg tggacaagag agttgagccc 300

aaatcttgtg acaaaactca cacatgccca ccgtgcccag cacctgaact cctgggggga 360

ccgtcagtct tcctcttccc cccaaaaccc aaggacaccc tcatgatctc ccggacccct 420

gaggtcacat gcgtggtggt ggacgtgagc cacgaagacc ctgaggtcaa gttcaactgg 480

tacgtggacg gcgtggaggt gcataatgcc aagacaaagc cgcgggagga gcagtacgcc 540

agcacgtacc gtgtggtcag cgtcctcacc gtcctgcacc aggactggct gaatggcaag 600

gagtacaagt gcaaggtctc caacaaagcc ctcccagccc ccatcgagaa aaccatctcc 660

aaagccaaag ggcagccccg agaaccacag gtgtacaccc tgcccccatc ccgggaggag 720

atgaccaaga accaggtcag cctgacctgc ctggtcaaag gcttctatcc cagcgacatc 780

gccgtggagt gggagagcaa tgggcagccg gagaacaact acaagaccac gcctcccgtg 840

ctggactccg acggctcctt cttcctctac agcaagctca ccgtggacaa gagcaggtgg 900

cagcagggga acgtcttctc atgctccgtg atgcatgagg ctctgcacaa ccactacacg 960

cagaagagcc tctccctgtc tccgggtaaa 990

<210> 101
<211> 217
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 101

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

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

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

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

Gly Ser Gly Ser Gly Thr Gln Phe Thr Leu Thr Ile Ser Gly Val Gln
65 70 75 80

Cys Asp Asp Ala Ala Thr Tyr Tyr Cys Leu Gly Gly Tyr Asp Asp Asp
85 90 95

Ala Asp Asn Gly Phe Gly Gly Gly Thr Glu Val Val Val Lys Arg Thr
100 105 110

Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu
115 120 125

Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro
130 135 140

```
Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly
145                 150                 155                 160

Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr
                165                 170                 175

Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys His
            180                 185                 190

Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro Val
        195                 200                 205

Thr Lys Ser Phe Asn Arg Gly Glu Cys
    210                 215
```

<210> 102
<211> 110
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 102

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

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

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

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

Gly Ser Gly Ser Gly Thr Gln Phe Thr Leu Thr Ile Ser Gly Val Gln
65                  70                  75                  80

Cys Asp Asp Ala Ala Thr Tyr Tyr Cys Leu Gly Gly Tyr Asp Asp Asp
                85                  90                  95

Ala Asp Asn Gly Phe Gly Gly Gly Thr Glu Val Val Val Lys
            100                 105                 110
```

<210> 103

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

<400> 103

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

Thr Val Thr Ile Ser Cys
20

<210> 104
<211> 13
<212> PRT
<213> Oryctolagus cuniculus

<400> 104

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

<210> 105
<211> 15
<212> PRT
<213> Oryctolagus cuniculus

<400> 105

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

<210> 106
<211> 7
<212> PRT
<213> Oryctolagus cuniculus

<400> 106

Asp Ala Ser Lys Leu Thr Ser
1 5

<210> 107
<211> 32
<212> PRT
<213> Oryctolagus cuniculus

<400> 107

Gly Val Ser Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Gln Phe Thr
1 5 10 15

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

<210> 108
<211> 11
<212> PRT
<213> Oryctolagus cuniculus

<400> 108

Leu Gly Gly Tyr Asp Asp Asp Ala Asp Asn Gly
1 5 10

<210> 109
<211> 10
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 109

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

<210> 110
<211> 107
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 110

Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu
1 5 10 15

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

Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln
35 40 45

Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser
50 55 60

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

Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser
85 90 95

Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys

100 105

<210> 111
<211> 651
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 111
gccgtgctga cccagacacc atcacccgtg tctgcagctg tgggaggcac agtcaccatc 60

agttgccagt ccagtcagag tgtttatcat aacaacctct tatcctggta tcagcagaaa 120

ccaggtcagc ctcccaagct cttgatctac gatgcatcca aactgacatc tggggtctca 180

tcgcggttca gcggcagtgg atctgggaca cagttcactc tcaccataag cggcgtgcag 240

tgtgacgatg ctgccactta ctactgtcta ggcggttatg atgatgatgc tgataatggt 300

ttcggcggag ggaccgaggt ggtggtcaaa cgtacggtag cggccccatc tgtcttcatc 360

ttcccgccat ctgatgagca gttgaaatct ggaactgcct ctgttgtgtg cctgctgaat 420

aacttctatc ccagagaggc caaagtacag tggaaggtgg ataacgccct ccaatcgggt 480

aactcccagg agagtgtcac agagcaggac agcaaggaca gcacctacag cctcagcagc 540

accctgacgc tgagcaaagc agactacgag aaacacaaag tctacgcctg cgaagtcacc 600

catcagggcc tgagctcgcc cgtcacaaag agcttcaaca ggggagagtg t 651

<210> 112
<211> 330
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 112
gccgtgctga cccagacacc atcacccgtg tctgcagctg tgggaggcac agtcaccatc 60

agttgccagt ccagtcagag tgtttatcat aacaacctct tatcctggta tcagcagaaa 120

ccaggtcagc ctcccaagct cttgatctac gatgcatcca aactgacatc tggggtctca 180

tcgcggttca gcggcagtgg atctgggaca cagttcactc tcaccataag cggcgtgcag 240

tgtgacgatg ctgccactta ctactgtcta ggcggttatg atgatgatgc tgataatggt 300

ttcggcggag ggaccgaggt ggtggtcaaa 330

<210> 113
<211> 66
<212> DNA
<213> Oryctolagus cuniculus

<400> 113
gccgtgctga cccagacacc atcacccgtg tctgcagctg tgggaggcac agtcaccatc 60

agttgc 66

<210> 114
<211> 39
<212> DNA
<213> Oryctolagus cuniculus

<400> 114
cagtccagtc agagtgttta tcataacaac ctcttatcc 39

<210> 115
<211> 45
<212> DNA
<213> Oryctolagus cuniculus

<400> 115
tggtatcagc agaaaccagg tcagcctccc aagctcttga tctac 45

<210> 116
<211> 21
<212> DNA
<213> Oryctolagus cuniculus

<400> 116
gatgcatcca aactgacatc t 21

<210> 117
<211> 96
<212> DNA
<213> Oryctolagus cuniculus

<400> 117
ggggtctcat cgcggttcag cggcagtgga tctgggacac agttcactct caccataagc 60

ggcgtgcagt gtgacgatgc tgccacttac tactgt 96

<210> 118
<211> 33
<212> DNA
<213> Oryctolagus cuniculus

<400> 118
ctaggcggtt atgatgatga tgctgataat ggt 33

<210> 119
<211> 30
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 119
ttcggcggag ggaccgaggt ggtggtcaaa 30

<210> 120
<211> 321
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 120
cgtacggtag cggccccatc tgtcttcatc ttcccgccat ctgatgagca gttgaaatct 60

ggaactgcct ctgttgtgtg cctgctgaat aacttctatc ccagagaggc caaagtacag 120

tggaaggtgg ataacgccct ccaatcgggt aactcccagg agagtgtcac agagcaggac 180

agcaaggaca gcacctacag cctcagcagc accctgacgc tgagcaaagc agactacgag 240

aaacacaaag tctacgcctg cgaagtcacc catcagggcc tgagctcgcc cgtcacaaag 300

agcttcaaca ggggagagtg t 321

<210> 121
<211> 445
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 121

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 Thr Val Ser Gly Ile Asp Leu Ser Ser Tyr Ala
20 25 30

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

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

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

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

```
Gly Thr Ser Gly Tyr Asn Thr Ile Trp Gly Pro Gly Thr Leu Val Thr
            100                 105                 110

Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro
        115                 120                 125

Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys Leu Val
    130                 135                 140

Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala
145                 150                 155                 160

Leu Thr Ser Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly
                165                 170                 175

Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly
            180                 185                 190

Thr Gln Thr Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys
        195                 200                 205

Val Asp Lys Arg Val Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys
    210                 215                 220

Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu
225                 230                 235                 240

Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu
                245                 250                 255

Val Thr Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys
            260                 265                 270

Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys
        275                 280                 285

Pro Arg Glu Glu Gln Tyr Ala Ser Thr Tyr Arg Val Val Ser Val Leu
    290                 295                 300

Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys
305                 310                 315                 320

Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys
                325                 330                 335

Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser
```

```
            340                 345                 350

Arg Glu Glu Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys
        355                 360                 365

Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln
    370                 375                 380

Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly
385                 390                 395                 400

Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln
                405                 410                 415

Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn
            420                 425                 430

His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
        435                 440                 445
```

<210> 122
<211> 115
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 122

```
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 Thr Val Ser Gly Ile Asp Leu Ser Ser Tyr Ala
            20                  25                  30

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

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

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

Ser Pro Thr Thr Glu Asp Thr Ala Thr Tyr Phe Cys Gly Arg Trp Ser
                85                  90                  95
```

Gly Thr Ser Gly Tyr Asn Thr Ile Trp Gly Pro Gly Thr Leu Val Thr
100 105 110

Val Ser Ser
115

<210> 123
<211> 29
<212> PRT
<213> Oryctolagus cuniculus

<400> 123

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 Thr Val Ser Gly Ile Asp Leu Ser
20 25

<210> 124
<211> 5
<212> PRT
<213> Oryctolagus cuniculus

<400> 124

Ser Tyr Ala Met Ile
1 5

<210> 125
<211> 14
<212> PRT
<213> Oryctolagus cuniculus

<400> 125

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

<210> 126
<211> 16
<212> PRT
<213> Oryctolagus cuniculus

<400> 126

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

<210> 127
<211> 30
<212> PRT
<213> Oryctolagus cuniculus

<400> 127

Arg Phe Thr Ile Ser Lys Thr Ser Thr Thr Val Asp Leu Lys Met Thr
1 5 10 15

Ser Pro Thr Thr Glu Asp Thr Ala Thr Tyr Phe Cys Gly Arg
20 25 30

<210> 128
<211> 10
<212> PRT
<213> Oryctolagus cuniculus

<400> 128

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

<210> 129
<211> 11
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 129

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

<210> 130
<211> 330
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 130

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

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

Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser
35 40 45

Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser
50 55 60

```
Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr
65                  70                  75                  80

Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys
                85                  90                  95

Arg Val Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys
            100                 105                 110

Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro
        115                 120                 125

Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys
    130                 135                 140

Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp
145                 150                 155                 160

Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu
                165                 170                 175

Glu Gln Tyr Ala Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu
            180                 185                 190

His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn
        195                 200                 205

Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly
    210                 215                 220

Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu
225                 230                 235                 240

Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr
                245                 250                 255

Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn
            260                 265                 270

Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe
        275                 280                 285

Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn
    290                 295                 300

Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr
```

305 310 315 320

Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
325 330

<210> 131
<211> 1335
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 131
cagtcggtgg aggagtccgg gggtcgcctg gtcacgcctg ggacacccct gacactcacc 60

tgcacagtct ctggaatcga cctcagtagc tatgcaatga tctgggtccg tcaggctcca 120

gaaaaggggc tggaatacat cggatatatt ggtggtattg atagcacata ctacgcgagc 180

tgggcgaaag gccgattcac catctccaaa acctcgacca cggtggatct gaaaatgacc 240

agtccgacaa ccgaggacac ggccacctat ttctgtggca gatggtccgg tactagtggt 300

tataatacca tctggggccc gggcaccctc gtcaccgtct cgagcgcctc caccaagggc 360

ccatcggtct tccccctggc accctcctcc aagagcacct ctgggggcac agcggccctg 420

ggctgcctgg tcaaggacta cttccccgaa ccggtgacgg tgtcgtggaa ctcaggcgcc 480

ctgaccagcg gcgtgcacac cttcccggct gtcctacagt cctcaggact ctactccctc 540

agcagcgtgg tgaccgtgcc ctccagcagc ttgggcaccc agacctacat ctgcaacgtg 600

aatcacaagc ccagcaacac caaggtggac aagagagttg agcccaaatc ttgtgacaaa 660

actcacacat gcccaccgtg cccagcacct gaactcctgg ggggaccgtc agtcttcctc 720

ttccccccaa aacccaagga caccctcatg atctcccgga cccctgaggt cacatgcgtg 780

gtggtggacg tgagccacga agaccctgag gtcaagttca actggtacgt ggacggcgtg 840

gaggtgcata atgccaagac aaagccgcgg gaggagcagt acgccagcac gtaccgtgtg 900

gtcagcgtcc tcaccgtcct gcaccaggac tggctgaatg gcaaggagta caagtgcaag 960

gtctccaaca aagccctccc agcccccatc gagaaaacca tctccaaagc caaagggcag 1020

ccccgagaac cacaggtgta caccctgccc ccatcccggg aggagatgac caagaaccag 1080

gtcagcctga cctgcctggt caaaggcttc tatcccagcg acatcgccgt ggagtgggag 1140

agcaatgggc agccggagaa caactacaag accacgcctc ccgtgctgga ctccgacggc 1200

tccttcttcc tctacagcaa gctcaccgtg gacaagagca ggtggcagca ggggaacgtc 1260

ttctcatgct ccgtgatgca tgaggctctg cacaaccact acacgcagaa gagcctctcc 1320

ctgtctccgg gtaaa 1335

<210> 132
<211> 345
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 132
cagtcggtgg aggagtccgg gggtcgcctg gtcacgcctg ggacacccct gacactcacc 60

tgcacagtct ctggaatcga cctcagtagc tatgcaatga tctgggtccg tcaggctcca 120

gaaaaggggc tggaatacat cggatatatt ggtggtattg atagcacata ctacgcgagc 180

tgggcgaaag gccgattcac catctccaaa acctcgacca cggtggatct gaaaatgacc 240

agtccgacaa ccgaggacac ggccacctat ttctgtggca gatggtccgg tactagtggt 300

tataatacca tctggggccc gggcaccctc gtcaccgtct cgagc 345

<210> 133
<211> 87
<212> DNA
<213> Oryctolagus cuniculus

<400> 133
cagtcggtgg aggagtccgg gggtcgcctg gtcacgcctg ggacacccct gacactcacc 60

tgcacagtct ctggaatcga cctcagt 87

<210> 134
<211> 15
<212> DNA
<213> Oryctolagus cuniculus

<400> 134
agctatgcaa tgatc 15

<210> 135
<211> 42
<212> DNA
<213> Oryctolagus cuniculus

<400> 135
tgggtccgtc aggctccaga aaaggggctg gaatacatcg ga 42

<210> 136
<211> 48
<212> DNA
<213> Oryctolagus cuniculus

<400> 136
tatattggtg gtattgatag cacatactac gcgagctggg cgaaaggc 48

<210> 137
<211> 90
<212> DNA
<213> Oryctolagus cuniculus

<400> 137
cgattcacca tctccaaaac ctcgaccacg gtggatctga aaatgaccag tccgacaacc 60

gaggacacgg ccacctattt ctgtggcaga 90

<210> 138
<211> 30
<212> DNA
<213> Oryctolagus cuniculus

<400> 138
tggtccggta ctagtggtta taataccatc 30

<210> 139
<211> 33
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 139
tggggcccgg gcaccctcgt caccgtctcg agc 33

<210> 140
<211> 990
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 140
gcctccacca agggcccatc ggtcttcccc ctggcaccct cctccaagag cacctctggg 60

ggcacagcgg ccctgggctg cctggtcaag gactacttcc ccgaaccggt gacggtgtcg 120

tggaactcag gcgccctgac cagcggcgtg cacaccttcc cggctgtcct acagtcctca 180

ggactctact ccctcagcag cgtggtgacc gtgccctcca gcagcttggg cacccagacc 240

tacatctgca acgtgaatca caagcccagc aacaccaagg tggacaagag agttgagccc 300

aaatcttgtg acaaaactca cacatgccca ccgtgcccag cacctgaact cctgggggga 360

ccgtcagtct tcctcttccc cccaaaaccc aaggacaccc tcatgatctc ccggacccct 420

gaggtcacat gcgtggtggt ggacgtgagc cacgaagacc ctgaggtcaa gttcaactgg 480

tacgtggacg gcgtggaggt gcataatgcc aagacaaagc cgcgggagga gcagtacgcc 540

agcacgtacc gtgtggtcag cgtcctcacc gtcctgcacc aggactggct gaatggcaag 600

gagtacaagt gcaaggtctc caacaaagcc ctcccagccc ccatcgagaa aaccatctcc 660

aaagccaaag ggcagccccg agaaccacag gtgtacaccc tgcccccatc ccgggaggag 720

atgaccaaga accaggtcag cctgacctgc ctggtcaaag gcttctatcc cagcgacatc 780

gccgtggagt gggagagcaa tgggcagccg gagaacaact acaagaccac gcctcccgtg 840

ctggactccg acggctcctt cttcctctac agcaagctca ccgtggacaa gagcaggtgg 900

cagcagggga acgtcttctc atgctccgtg atgcatgagg ctctgcacaa ccactacacg 960

cagaagagcc tctccctgtc tccgggtaaa 990

<210> 141
<211> 216
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 141

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

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

Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Pro Pro Lys Leu Leu Ile
35 40 45

Tyr Gly Ala Ser Asn Leu Ala Ser Gly Val Ser Ser Arg Phe Lys Gly
50 55 60

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

Ala Asp Ala Ala Thr Tyr Tyr Cys Gln Cys Thr Gly Gly Gly Asp Ser
85 90 95

Gly Asn Thr Phe Gly Gly Gly Thr Glu Val Val Val Lys Arg Thr Val
100 105 110

Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu Lys
115 120 125

Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro Arg
130 135 140

```
Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly Asn
145                 150                 155                 160

Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr Ser
                165                 170                 175

Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys His Lys
            180                 185                 190

Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro Val Thr
        195                 200                 205

Lys Ser Phe Asn Arg Gly Glu Cys
    210                 215


<210>  142
<211>  109
<212>  PRT
<213>  Artificial

<220>
<223>  Humanized Antibody Sequence

<400>  142

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

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

Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Pro Pro Lys Leu Leu Ile
        35                  40                  45

Tyr Gly Ala Ser Asn Leu Ala Ser Gly Val Ser Ser Arg Phe Lys Gly
    50                  55                  60

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

Ala Asp Ala Ala Thr Tyr Tyr Cys Gln Cys Thr Gly Gly Gly Asp Ser
                85                  90                  95

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


<210>  143
<211>  23
```

<212> PRT
<213> Oryctolagus cuniculus

<400> 143

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

Gly Thr Val Thr Ile Lys Cys
20

<210> 144
<211> 11
<212> PRT
<213> Oryctolagus cuniculus

<400> 144

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

<210> 145
<211> 15
<212> PRT
<213> Oryctolagus cuniculus

<400> 145

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

<210> 146
<211> 7
<212> PRT
<213> Oryctolagus cuniculus

<400> 146

Gly Ala Ser Asn Leu Ala Ser
1 5

<210> 147
<211> 32
<212> PRT
<213> Oryctolagus cuniculus

<400> 147

Gly Val Ser Ser Arg Phe Lys Gly Ser Arg Ser Gly Thr Glu Tyr Thr
1 5 10 15

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

<210> 148
<211> 11
<212> PRT
<213> Oryctolagus cuniculus

<400> 148

Gln Cys Thr Gly Gly Gly Asp Ser Gly Asn Thr
1 5 10

<210> 149
<211> 10
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 149

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

<210> 150
<211> 107
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 150

Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu
1 5 10 15

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

Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln
35 40 45

Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser
50 55 60

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

Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser
85 90 95

Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
100 105

<210> 151
<211> 648
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 151
gatgttgtga tgacccagac tccagcctcc gtggaggcag ctgtgggagg cacagtcacc 60

atcaagtgcc aggccagtca gagcatttat agcaatttag cctggtatca gcagaaacca 120

gggcagcctc ccaagctcct gatctatggt gcatccaatc tggcatctgg ggtctcatcg 180

cggttcaaag gcagtcgatc tgggacagag tacactctca ccatcagtga cctggagtgt 240

gccgatgctg ccacctacta ctgtcagtgc actggtggtg gtgatagcgg taatactttc 300

ggcggaggga ccgaggtggt ggtcaaacgt acggtagcgg ccccatctgt cttcatcttc 360

ccgccatctg atgagcagtt gaaatctgga actgcctctg ttgtgtgcct gctgaataac 420

ttctatccca gagaggccaa agtacagtgg aaggtggata acgccctcca atcgggtaac 480

tcccaggaga gtgtcacaga gcaggacagc aaggacagca cctacagcct cagcagcacc 540

ctgacgctga gcaaagcaga ctacgagaaa cacaaagtct acgcctgcga agtcacccat 600

cagggcctga gctcgcccgt cacaaagagc ttcaacaggg gagagtgt 648

<210> 152
<211> 327
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 152
gatgttgtga tgacccagac tccagcctcc gtggaggcag ctgtgggagg cacagtcacc 60

atcaagtgcc aggccagtca gagcatttat agcaatttag cctggtatca gcagaaacca 120

gggcagcctc ccaagctcct gatctatggt gcatccaatc tggcatctgg ggtctcatcg 180

cggttcaaag gcagtcgatc tgggacagag tacactctca ccatcagtga cctggagtgt 240

gccgatgctg ccacctacta ctgtcagtgc actggtggtg gtgatagcgg taatactttc 300

ggcggaggga ccgaggtggt ggtcaaa 327

<210> 153
<211> 69
<212> DNA
<213> Oryctolagus cuniculus

<400> 153
gatgttgtga tgacccagac tccagcctcc gtggaggcag ctgtgggagg cacagtcacc 60

atcaagtgc 69

<210> 154
<211> 33
<212> DNA
<213> Oryctolagus cuniculus

<400> 154
caggccagtc agagcattta tagcaattta gcc 33

<210> 155
<211> 45
<212> DNA
<213> Oryctolagus cuniculus

<400> 155
tggtatcagc agaaaccagg gcagcctccc aagctcctga tctat 45

<210> 156
<211> 21
<212> DNA
<213> Oryctolagus cuniculus

<400> 156
ggtgcatcca atctggcatc t 21

<210> 157
<211> 96
<212> DNA
<213> Oryctolagus cuniculus

<400> 157
ggggtctcat cgcggttcaa aggcagtcga tctgggacag agtacactct caccatcagt 60

gacctggagt gtgccgatgc tgccacctac tactgt 96

<210> 158
<211> 33
<212> DNA
<213> Oryctolagus cuniculus

<400> 158
cagtgcactg gtggtggtga tagcggtaat act 33

<210> 159
<211> 30
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 159
ttcggcggag ggaccgaggt ggtggtcaaa 30

<210> 160
<211> 321
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 160
cgtacggtag cggccccatc tgtcttcatc ttcccgccat ctgatgagca gttgaaatct 60

ggaactgcct ctgttgtgtg cctgctgaat aacttctatc ccagagaggc caaagtacag 120

tggaaggtgg ataacgccct ccaatcgggt aactcccagg agagtgtcac agagcaggac 180

agcaaggaca gcacctacag cctcagcagc accctgacgc tgagcaaagc agactacgag 240

aaacacaaag tctacgcctg cgaagtcacc catcagggcc tgagctcgcc cgtcacaaag 300

agcttcaaca ggggagagtg t 321

<210> 161
<211> 446
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 161

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

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

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

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

Ser Pro Thr Thr Glu Asp Thr Ala Thr Tyr Phe Cys Ala Arg Gly Ile
85 90 95

Tyr Trp Tyr Trp Arg Val Phe Asn Leu Trp Gly Pro Gly Thr Leu Val

```
            100                 105                 110

Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala
        115                 120                 125

Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys Leu
    130                 135                 140

Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly
145                 150                 155                 160

Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser
                165                 170                 175

Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu
            180                 185                 190

Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr
        195                 200                 205

Lys Val Asp Lys Arg Val Glu Pro Lys Ser Cys Asp Lys Thr His Thr
    210                 215                 220

Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe
225                 230                 235                 240

Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro
                245                 250                 255

Glu Val Thr Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu Val
            260                 265                 270

Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr
        275                 280                 285

Lys Pro Arg Glu Glu Gln Tyr Ala Ser Thr Tyr Arg Val Val Ser Val
    290                 295                 300

Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys
305                 310                 315                 320

Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser
                325                 330                 335

Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro
            340                 345                 350
```

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Ser Arg Glu Glu Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val
        355                 360                 365

Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly
    370                 375                 380

Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp
385                 390                 395                 400

Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp
                405                 410                 415

Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His
            420                 425                 430

Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
        435                 440                 445
```

<210> 162
<211> 116
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 162

```
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 Thr Val Ser Gly Phe Ser Leu Ser Ser Tyr Ala
            20                  25                  30

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

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

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

Ser Pro Thr Thr Glu Asp Thr Ala Thr Tyr Phe Cys Ala Arg Gly Ile
                85                  90                  95

Tyr Trp Tyr Trp Arg Val Phe Asn Leu Trp Gly Pro Gly Thr Leu Val
```

100 105 110

Thr Val Ser Ser
115

<210> 163
<211> 29
<212> PRT
<213> Oryctolagus cuniculus

<400> 163

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 Thr Val Ser Gly Phe Ser Leu Ser
20 25

<210> 164
<211> 5
<212> PRT
<213> Oryctolagus cuniculus

<400> 164

Ser Tyr Ala Met Ser
1 5

<210> 165
<211> 14
<212> PRT
<213> Oryctolagus cuniculus

<400> 165

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

<210> 166
<211> 16
<212> PRT
<213> Oryctolagus cuniculus

<400> 166

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

<210> 167
<211> 30
<212> PRT
<213> Oryctolagus cuniculus

<400> 167

```
Arg Phe Thr Ile Ser Lys Thr Ser Thr Thr Val Asp Leu Lys Ile Thr
1               5                   10                  15


Ser Pro Thr Thr Glu Asp Thr Ala Thr Tyr Phe Cys Ala Arg
            20                  25                  30


<210>  168
<211>  11
<212>  PRT
<213>  Oryctolagus cuniculus

<400>  168

Gly Ile Tyr Trp Tyr Trp Arg Val Phe Asn Leu
1               5                   10


<210>  169
<211>  11
<212>  PRT
<213>  Artificial

<220>
<223>  Humanized Antibody Sequence

<400>  169

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


<210>  170
<211>  330
<212>  PRT
<213>  Artificial

<220>
<223>  Humanized Antibody Sequence

<400>  170

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


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


Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser
        35                  40                  45


Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser
    50                  55                  60


Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr
```

```
65                  70                  75                  80

Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys
                85                  90                  95

Arg Val Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys
            100                 105                 110

Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro
        115                 120                 125

Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys
    130                 135                 140

Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp
145                 150                 155                 160

Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu
                165                 170                 175

Glu Gln Tyr Ala Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu
            180                 185                 190

His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn
        195                 200                 205

Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly
    210                 215                 220

Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu
225                 230                 235                 240

Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr
                245                 250                 255

Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn
            260                 265                 270

Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe
        275                 280                 285

Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn
    290                 295                 300

Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr
305                 310                 315                 320
```

Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
325 330

<210> 171
<211> 1338
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 171
cagtcggtgg aggagtccgg gggtcgcctg gtcacgcctg ggacacccct gacactcacc 60

tgcacagtct ctggattctc cctcagtagc tatgcaatga gctgggtccg ccaggctcca 120

gggaaggggc tggaatggat cggaatcatt agtaatagtg gtaccacata ctacgcgagc 180

tgggcgaaag gccgattcac catctccaaa acctcgacca cggtggatct gaaaatcacc 240

agtccgacaa ccgaggacac ggccacctat ttctgtgcca gaggaatata ttggtactgg 300

agagttttta acttgtgggg cccggggacc ctcgtcaccg tctcgagcgc ctccaccaag 360

ggcccatcgg tcttcccccct ggcaccctcc tccaagagca cctctggggg cacagcggcc 420

ctgggctgcc tggtcaagga ctacttcccc gaaccggtga cggtgtcgtg gaactcaggc 480

gccctgacca gcggcgtgca caccttcccg gctgtcctac agtcctcagg actctactcc 540

ctcagcagcg tggtgaccgt gccctccagc agcttgggca cccagaccta catctgcaac 600

gtgaatcaca agcccagcaa caccaaggtg gacaagagag ttgagcccaa atcttgtgac 660

aaaactcaca catgcccacc gtgcccagca cctgaactcc tgggggggacc gtcagtcttc 720

ctcttccccc caaaacccaa ggacaccctc atgatctccc ggacccctga ggtcacatgc 780

gtggtggtgg acgtgagcca cgaagaccct gaggtcaagt tcaactggta cgtggacggc 840

gtggaggtgc ataatgccaa gacaaagccg cgggaggagc agtacgccag cacgtaccgt 900

gtggtcagcg tcctcaccgt cctgcaccag gactggctga atggcaagga gtacaagtgc 960

aaggtctcca acaaagccct cccagccccc atcgagaaaa ccatctccaa agccaaaggg 1020

cagccccgag aaccacaggt gtacaccctg cccccatccc gggaggagat gaccaagaac 1080

caggtcagcc tgacctgcct ggtcaaaggc ttctatccca gcgacatcgc cgtggagtgg 1140

gagagcaatg ggcagccgga gaacaactac aagaccacgc ctcccgtgct ggactccgac 1200

ggctccttct tcctctacag caagctcacc gtggacaaga gcaggtggca gcaggggaac 1260

gtcttctcat gctccgtgat gcatgaggct ctgcacaacc actacacgca gaagagcctc 1320

tccctgtctc cgggtaaa 1338

<210> 172
<211> 348
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 172
cagtcggtgg aggagtccgg gggtcgcctg gtcacgcctg ggacacccct gacactcacc 60

tgcacagtct ctggattctc cctcagtagc tatgcaatga gctgggtccg ccaggctcca 120

gggaaggggc tggaatggat cggaatcatt agtaatagtg gtaccacata ctacgcgagc 180

tgggcgaaag gccgattcac catctccaaa acctcgacca cggtggatct gaaaatcacc 240

agtccgacaa ccgaggacac ggccacctat ttctgtgcca gaggaatata ttggtactgg 300

agagttttta acttgtgggg cccggggacc ctcgtcaccg tctcgagc 348

<210> 173
<211> 87
<212> DNA
<213> Oryctolagus cuniculus

<400> 173
cagtcggtgg aggagtccgg gggtcgcctg gtcacgcctg ggacacccct gacactcacc 60

tgcacagtct ctggattctc cctcagt 87

<210> 174
<211> 15
<212> DNA
<213> Oryctolagus cuniculus

<400> 174
agctatgcaa tgagc 15

<210> 175
<211> 42
<212> DNA
<213> Oryctolagus cuniculus

<400> 175
tgggtccgcc aggctccagg gaaggggctg gaatggatcg ga 42

<210> 176
<211> 48
<212> DNA
<213> Oryctolagus cuniculus

<400> 176
atcattagta atagtggtac cacatactac gcgagctggg cgaaaggc 48

<210> 177
<211> 90
<212> DNA
<213> Oryctolagus cuniculus

<400> 177
cgattcacca tctccaaaac ctcgaccacg gtggatctga aaatcaccag tccgacaacc 60

gaggacacgg ccacctattt ctgtgccaga 90

<210> 178
<211> 33
<212> DNA
<213> Oryctolagus cuniculus

<400> 178
ggaatatatt ggtactggag agtttttaac ttg 33

<210> 179
<211> 33
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 179
tggggcccgg ggaccctcgt caccgtctcg agc 33

<210> 180
<211> 990
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 180
gcctccacca agggcccatc ggtcttcccc ctggcaccct cctccaagag cacctctggg 60

ggcacagcgg ccctgggctg cctggtcaag gactacttcc ccgaaccggt gacggtgtcg 120

tggaactcag gcgccctgac cagcggcgtg cacaccttcc cggctgtcct acagtcctca 180

ggactctact ccctcagcag cgtggtgacc gtgccctcca gcagcttggg cacccagacc 240

tacatctgca acgtgaatca caagcccagc aacaccaagg tggacaagag agttgagccc 300

aaatcttgtg acaaaactca cacatgccca ccgtgcccag cacctgaact cctgggggga 360

ccgtcagtct tcctcttccc cccaaaaccc aaggacaccc tcatgatctc ccggacccct 420

gaggtcacat gcgtggtggt ggacgtgagc cacgaagacc ctgaggtcaa gttcaactgg 480

tacgtggacg gcgtggaggt gcataatgcc aagacaaagc cgcgggagga gcagtacgcc 540

agcacgtacc gtgtggtcag cgtcctcacc gtcctgcacc aggactggct gaatggcaag 600

gagtacaagt gcaaggtctc caacaaagcc ctcccagccc ccatcgagaa aaccatctcc 660

aaagccaaag ggcagccccg agaaccacag gtgtacaccc tgcccccatc ccgggaggag 720

atgaccaaga accaggtcag cctgacctgc ctggtcaaag gcttctatcc cagcgacatc 780

gccgtggagt gggagagcaa tgggcagccg gagaacaact acaagaccac gcctcccgtg 840

ctggactccg acggctcctt cttcctctac agcaagctca ccgtggacaa gagcaggtgg 900

cagcagggga acgtcttctc atgctccgtg atgcatgagg ctctgcacaa ccactacacg 960

cagaagagcc tctccctgtc tccgggtaaa 990

<210> 181
<211> 216
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 181

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

Thr Val Thr Ile Asn Cys Gln Ala Ser Gln Ser Val Tyr Asn Asn Leu
20 25 30

Leu Ser Trp Tyr Gln Gln Lys Pro Gly Gln Pro Pro Lys Leu Leu Ile
35 40 45

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

Ser Gly Ser Gly Thr Gln Phe Thr Leu Thr Ile Ser Gly Val Gln Cys
65 70 75 80

Asp Asp Ala Ala Thr Tyr Tyr Cys Leu Gly Gly Tyr Asp Asp Asp Ala
85 90 95

Asp Asn Ala Phe Gly Gly Gly Thr Glu Val Val Val Lys Arg Thr Val
100 105 110

Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu Lys
115 120 125

Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro Arg
130 135 140

```
Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly Asn
145                 150                 155                 160

Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr Ser
                165                 170                 175

Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys His Lys
            180                 185                 190

Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro Val Thr
        195                 200                 205

Lys Ser Phe Asn Arg Gly Glu Cys
    210                 215
```

<210> 182
<211> 109
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 182

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

Thr Val Thr Ile Asn Cys Gln Ala Ser Gln Ser Val Tyr Asn Asn Leu
            20                  25                  30

Leu Ser Trp Tyr Gln Gln Lys Pro Gly Gln Pro Pro Lys Leu Leu Ile
        35                  40                  45

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

Ser Gly Ser Gly Thr Gln Phe Thr Leu Thr Ile Ser Gly Val Gln Cys
65                  70                  75                  80

Asp Asp Ala Ala Thr Tyr Tyr Cys Leu Gly Gly Tyr Asp Asp Asp Ala
                85                  90                  95

Asp Asn Ala Phe Gly Gly Gly Thr Glu Val Val Val Lys
            100                 105
```

<210> 183
<211> 22
<212> PRT

<213> Oryctolagus cuniculus

<400> 183

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

Thr Val Thr Ile Asn Cys
20

<210> 184
<211> 12
<212> PRT
<213> Oryctolagus cuniculus

<400> 184

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

<210> 185
<211> 15
<212> PRT
<213> Oryctolagus cuniculus

<400> 185

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

<210> 186
<211> 7
<212> PRT
<213> Oryctolagus cuniculus

<400> 186

Asp Ala Ser Asn Leu Ala Ser
1 5

<210> 187
<211> 32
<212> PRT
<213> Oryctolagus cuniculus

<400> 187

Gly Val Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Gln Phe Thr
1 5 10 15

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

<210> 188

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

<400> 188

Leu Gly Gly Tyr Asp Asp Asp Ala Asp Asn Ala
1 5 10

<210> 189
<211> 10
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 189

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

<210> 190
<211> 107
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 190

Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu
1 5 10 15

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

Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln
35 40 45

Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser
50 55 60

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

Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser
85 90 95

Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
100 105

<210> 191
<211> 648
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 191
gccgtgctga cccagacacc atcgcctgtg tctgcagctg tgggaggcac agtcaccatc 60

aattgccagg ccagtcagag tgtttataac aacctcttat cctggtatca gcagaaacca 120

gggcagcctc ccaagctcct gatctatgat gcatccaatc tggcatctgg ggtcccagat 180

aggttcagcg gcagtggatc tgggacacag ttcactctca ccatcagcgg cgtgcagtgt 240

gacgatgctg ccacttacta ctgtctaggc ggttatgatg atgatgctga taatgctttc 300

ggcggaggga ccgaggtggt ggtcaaacgt acggtagcgg ccccatctgt cttcatcttc 360

ccgccatctg atgagcagtt gaaatctgga actgcctctg ttgtgtgcct gctgaataac 420

ttctatccca gagaggccaa agtacagtgg aaggtggata acgccctcca atcgggtaac 480

tcccaggaga gtgtcacaga gcaggacagc aaggacagca cctacagcct cagcagcacc 540

ctgacgctga gcaaagcaga ctacgagaaa cacaaagtct acgcctgcga agtcacccat 600

cagggcctga gctcgcccgt cacaaagagc ttcaacaggg gagagtgt 648

<210> 192
<211> 327
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 192
gccgtgctga cccagacacc atcgcctgtg tctgcagctg tgggaggcac agtcaccatc 60

aattgccagg ccagtcagag tgtttataac aacctcttat cctggtatca gcagaaacca 120

gggcagcctc ccaagctcct gatctatgat gcatccaatc tggcatctgg ggtcccagat 180

aggttcagcg gcagtggatc tgggacacag ttcactctca ccatcagcgg cgtgcagtgt 240

gacgatgctg ccacttacta ctgtctaggc ggttatgatg atgatgctga taatgctttc 300

ggcggaggga ccgaggtggt ggtcaaa 327

<210> 193
<211> 66
<212> DNA
<213> Oryctolagus cuniculus

<400> 193

gccgtgctga cccagacacc atcgcctgtg tctgcagctg tgggaggcac agtcaccatc 60

aattgc 66

<210> 194
<211> 36
<212> DNA
<213> Oryctolagus cuniculus

<400> 194
caggccagtc agagtgttta taacaacctc ttatcc 36

<210> 195
<211> 45
<212> DNA
<213> Oryctolagus cuniculus

<400> 195
tggtatcagc agaaaccagg gcagcctccc aagctcctga tctat 45

<210> 196
<211> 21
<212> DNA
<213> Oryctolagus cuniculus

<400> 196
gatgcatcca atctggcatc t 21

<210> 197
<211> 96
<212> DNA
<213> Oryctolagus cuniculus

<400> 197
ggggtcccag ataggttcag cggcagtgga tctgggacac agttcactct caccatcagc 60

ggcgtgcagt gtgacgatgc tgccacttac tactgt 96

<210> 198
<211> 33
<212> DNA
<213> Oryctolagus cuniculus

<400> 198
ctaggcggtt atgatgatga tgctgataat gct 33

<210> 199
<211> 30
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 199

ttcggcggag ggaccgaggt ggtggtcaaa 30

<210> 200
<211> 321
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 200
cgtacggtag cggccccatc tgtcttcatc ttcccgccat ctgatgagca gttgaaatct 60

ggaactgcct ctgttgtgtg cctgctgaat aacttctatc ccagagaggc caaagtacag 120

tggaaggtgg ataacgccct ccaatcgggt aactcccagg agagtgtcac agagcaggac 180

agcaaggaca gcacctacag cctcagcagc accctgacgc tgagcaaagc agactacgag 240

aaacacaaag tctacgcctg cgaagtcacc catcagggcc tgagctcgcc cgtcacaaag 300

agcttcaaca ggggagagtg t 321

<210> 201
<211> 450
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 201

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

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

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

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

Lys Gly Arg Leu Thr Ile Ser Met Thr Ser Ser Thr Thr Val Thr Leu
65 70 75 80

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

Ser Asp Ile Asn Asp Gly Trp Leu Gly Gln Phe Asn Leu Trp Gly Pro
100 105 110

```
Gly Thr Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val
        115                 120                 125

Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala Ala
    130                 135                 140

Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser
145                 150                 155                 160

Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala Val
                165                 170                 175

Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro
            180                 185                 190

Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His Lys
        195                 200                 205

Pro Ser Asn Thr Lys Val Asp Lys Arg Val Glu Pro Lys Ser Cys Asp
    210                 215                 220

Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly
225                 230                 235                 240

Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile
                245                 250                 255

Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His Glu
            260                 265                 270

Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His
        275                 280                 285

Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Ala Ser Thr Tyr Arg
    290                 295                 300

Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys
305                 310                 315                 320

Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu
                325                 330                 335

Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr
            340                 345                 350
```

```
Thr Leu Pro Pro Ser Arg Glu Glu Met Thr Lys Asn Gln Val Ser Leu
        355                 360                 365

Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp
    370                 375                 380

Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val
385                 390                 395                 400

Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp
                405                 410                 415

Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His
            420                 425                 430

Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro
        435                 440                 445

Gly Lys
    450
```

<210> 202
<211> 120
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 202

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

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

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

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

Lys Gly Arg Leu Thr Ile Ser Met Thr Ser Ser Thr Thr Val Thr Leu
65                  70                  75                  80

Gln Leu Asn Ser Leu Thr Ala Ala Asp Thr Ala Thr Tyr Phe Cys Ala
                85                  90                  95
```

```
Ser Asp Ile Asn Asp Gly Trp Leu Gly Gln Phe Asn Leu Trp Gly Pro
            100                 105                 110


Gly Thr Leu Val Thr Val Ser Ser
        115                 120


<210>  203
<211>  30
<212>  PRT
<213>  Oryctolagus cuniculus

<400>  203

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


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


<210>  204
<211>  6
<212>  PRT
<213>  Oryctolagus cuniculus

<400>  204

Ser Asn Tyr Trp Ile Cys
1               5


<210>  205
<211>  14
<212>  PRT
<213>  Oryctolagus cuniculus

<400>  205

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


<210>  206
<211>  16
<212>  PRT
<213>  Oryctolagus cuniculus

<400>  206

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


<210>  207
<211>  31
<212>  PRT
```

<213> Oryctolagus cuniculus

<400> 207

Arg Leu Thr Ile Ser Met Thr Ser Ser Thr Thr Val Thr Leu Gln Leu
1 5 10 15

Asn Ser Leu Thr Ala Ala Asp Thr Ala Thr Tyr Phe Cys Ala Ser
20 25 30

<210> 208
<211> 12
<212> PRT
<213> Oryctolagus cuniculus

<400> 208

Asp Ile Asn Asp Gly Trp Leu Gly Gln Phe Asn Leu
1 5 10

<210> 209
<211> 11
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 209

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

<210> 210
<211> 330
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 210

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

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

Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser
35 40 45

Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser
50 55 60

```
Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr
65                  70                  75                  80

Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys
                85                  90                  95

Arg Val Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys
            100                 105                 110

Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro
        115                 120                 125

Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys
    130                 135                 140

Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp
145                 150                 155                 160

Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu
                165                 170                 175

Glu Gln Tyr Ala Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu
            180                 185                 190

His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn
        195                 200                 205

Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly
    210                 215                 220

Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu
225                 230                 235                 240

Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr
                245                 250                 255

Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn
            260                 265                 270

Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe
        275                 280                 285

Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn
    290                 295                 300
```

```
Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr
305                 310                 315                 320


Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
                325                 330


<210>  211
<211>  1350
<212>  DNA
<213>  Artificial

<220>
<223>  Humanized Antibody Sequence

<400>  211
caggagcagc tggaggagtc cgggggagac ctggtcaagc ctgagggatc cctgacactc       60

acctgcacag cctctggatt ctccttcagt agcaactact ggatatgctg ggtccgccag      120

gctccaggga agggactgga gtggatcgga tgcattcgtg atggtggtgg cacttactac      180

gcgagctggg cgaaaggccg actcaccatc tccatgacct cgtcgaccac ggtgactctg      240

caactgaaca gtctgacagc cgcggacacg gccacctatt tttgtgcgag cgatattaat      300

gatgggtggc ttggccaatt caacttgtgg ggcccaggca ccctcgtcac cgtctcgagc      360

gcctccacca agggcccatc ggtcttcccc ctggcaccct cctccaagag cacctctggg      420

ggcacagcgg ccctgggctg cctggtcaag gactacttcc ccgaaccggt gacggtgtcg      480

tggaactcag gcgccctgac cagcggcgtg cacaccttcc cggctgtcct acagtcctca      540

ggactctact ccctcagcag cgtggtgacc gtgccctcca gcagcttggg cacccagacc      600

tacatctgca acgtgaatca caagcccagc aacaccaagg tggacaagag agttgagccc      660

aaatcttgtg acaaaactca cacatgccca ccgtgcccag cacctgaact cctgggggga      720

ccgtcagtct tcctcttccc cccaaaaccc aaggacaccc tcatgatctc ccggacccct      780

gaggtcacat gcgtggtggt ggacgtgagc cacgaagacc ctgaggtcaa gttcaactgg      840

tacgtggacg gcgtggaggt gcataatgcc aagacaaagc cgcgggagga gcagtacgcc      900

agcacgtacc gtgtggtcag cgtcctcacc gtcctgcacc aggactggct gaatggcaag      960

gagtacaagt gcaaggtctc caacaaagcc ctcccagccc ccatcgagaa aaccatctcc     1020

aaagccaaag ggcagccccg agaaccacag gtgtacaccc tgcccccatc ccgggaggag     1080

atgaccaaga accaggtcag cctgacctgc ctggtcaaag gcttctatcc cagcgacatc     1140

gccgtggagt gggagagcaa tgggcagccg gagaacaact acaagaccac gcctcccgtg     1200

ctggactccg acggctcctt cttcctctac agcaagctca ccgtggacaa gagcaggtgg     1260

cagcagggga acgtcttctc atgctccgtg atgcatgagg ctctgcacaa ccactacacg     1320
```

cagaagagcc tctccctgtc tccgggtaaa 1350

<210> 212
<211> 360
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 212
caggagcagc tggaggagtc cgggggagac ctggtcaagc ctgagggatc cctgacactc 60

acctgcacag cctctggatt ctccttcagt agcaactact ggatatgctg ggtccgccag 120

gctccaggga agggactgga gtggatcgga tgcattcgtg atggtggtgg cacttactac 180

gcgagctggg cgaaaggccg actcaccatc tccatgacct cgtcgaccac ggtgactctg 240

caactgaaca gtctgacagc cgcggacacg gccacctatt tttgtgcgag cgatattaat 300

gatgggtggc ttggccaatt caacttgtgg ggcccaggca ccctcgtcac cgtctcgagc 360

<210> 213
<211> 90
<212> DNA
<213> Oryctolagus cuniculus

<400> 213
caggagcagc tggaggagtc cgggggagac ctggtcaagc ctgagggatc cctgacactc 60

acctgcacag cctctggatt ctccttcagt 90

<210> 214
<211> 18
<212> DNA
<213> Oryctolagus cuniculus

<400> 214
agcaactact ggatatgc 18

<210> 215
<211> 42
<212> DNA
<213> Oryctolagus cuniculus

<400> 215
tgggtccgcc aggctccagg gaagggactg gagtggatcg ga 42

<210> 216
<211> 48
<212> DNA
<213> Oryctolagus cuniculus

<400> 216

tgcattcgtg atggtggtgg cacttactac gcgagctggg cgaaaggc 48

<210> 217
<211> 93
<212> DNA
<213> Oryctolagus cuniculus

<400> 217
cgactcacca tctccatgac ctcgtcgacc acggtgactc tgcaactgaa cagtctgaca 60

gccgcggaca cggccaccta tttttgtgcg agc 93

<210> 218
<211> 36
<212> DNA
<213> Oryctolagus cuniculus

<400> 218
gatattaatg atgggtggct tggccaattc aacttg 36

<210> 219
<211> 33
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 219
tggggcccag gcaccctcgt caccgtctcg agc 33

<210> 220
<211> 990
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 220
gcctccacca agggcccatc ggtcttcccc ctggcaccct cctccaagag cacctctggg 60

ggcacagcgg ccctgggctg cctggtcaag gactacttcc ccgaaccggt gacggtgtcg 120

tggaactcag gcgccctgac cagcggcgtg cacaccttcc cggctgtcct acagtcctca 180

ggactctact ccctcagcag cgtggtgacc gtgccctcca gcagcttggg cacccagacc 240

tacatctgca acgtgaatca caagcccagc aacaccaagg tggacaagag agttgagccc 300

aaatcttgtg acaaaactca cacatgccca ccgtgcccag cacctgaact cctgggggga 360

ccgtcagtct tcctcttccc cccaaaaccc aaggacaccc tcatgatctc ccggacccct 420

gaggtcacat gcgtggtggt ggacgtgagc cacgaagacc ctgaggtcaa gttcaactgg 480

tacgtggacg gcgtggaggt gcataatgcc aagacaaagc cgcgggagga gcagtacgcc 540

agcacgtacc gtgtggtcag cgtcctcacc gtcctgcacc aggactggct gaatggcaag 600

gagtacaagt gcaaggtctc caacaaagcc ctcccagccc ccatcgagaa aaccatctcc 660

aaagccaaag ggcagccccg agaaccacag gtgtacaccc tgcccccatc ccgggaggag 720

atgaccaaga accaggtcag cctgacctgc ctggtcaaag gcttctatcc cagcgacatc 780

gccgtggagt gggagagcaa tgggcagccg gagaacaact acaagaccac gcctcccgtg 840

ctggactccg acggctcctt cttcctctac agcaagctca ccgtggacaa gagcaggtgg 900

cagcagggga acgtcttctc atgctccgtg atgcatgagg ctctgcacaa ccactacacg 960

cagaagagcc tctccctgtc tccgggtaaa 990

<210> 221
<211> 220
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 221

Ala Asp Ile Val Met Thr Gln Thr Pro Ala Ser Val Glu Val Ala Val
1 5 10 15

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

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

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

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

Cys Ala Asp Ala Ala Thr Tyr Tyr Cys Gln Ser Tyr Tyr Ser Val Thr
85 90 95

Thr Asn Thr Tyr Gly Asn Thr Phe Gly Gly Gly Thr Glu Val Val Val
100 105 110

Lys Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp
115 120 125

Glu Gln Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn

```
    130                 135                 140

Phe Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu
145                 150                 155                 160

Gln Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp
                165                 170                 175

Ser Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr
            180                 185                 190

Glu Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser
        195                 200                 205

Ser Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
    210                 215                 220


<210>  222
<211>  113
<212>  PRT
<213>  Artificial

<220>
<223>  Humanized Antibody Sequence

<400>  222

Ala Asp Ile Val Met Thr Gln Thr Pro Ala Ser Val Glu Val Ala Val
1               5                   10                  15

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

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

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

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

Cys Ala Asp Ala Ala Thr Tyr Tyr Cys Gln Ser Tyr Tyr Ser Val Thr
                85                  90                  95

Thr Asn Thr Tyr Gly Asn Thr Phe Gly Gly Gly Thr Glu Val Val Val
            100                 105                 110
```

Lys

<210> 223
<211> 24
<212> PRT
<213> Oryctolagus cuniculus

<400> 223

Ala Asp Ile Val Met Thr Gln Thr Pro Ala Ser Val Glu Val Ala Val
1 5 10 15

Gly Gly Thr Val Thr Ile Lys Cys
20

<210> 224
<211> 11
<212> PRT
<213> Oryctolagus cuniculus

<400> 224

Gln Ala Ser Gln Ser Ile Ser Ala Tyr Leu Ala
1 5 10

<210> 225
<211> 15
<212> PRT
<213> Oryctolagus cuniculus

<400> 225

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

<210> 226
<211> 7
<212> PRT
<213> Oryctolagus cuniculus

<400> 226

Arg Ala Tyr Thr Leu Ala Ser
1 5

<210> 227
<211> 32
<212> PRT
<213> Oryctolagus cuniculus

<400> 227

Gly Val Pro Ser Arg Phe Lys Gly Ser Gly Ser Gly Thr Gln Phe Thr
1 5 10 15

```
Leu Thr Ile Ser Asp Leu Glu Cys Ala Asp Ala Ala Thr Tyr Tyr Cys
            20                  25                  30


<210>  228
<211>  14
<212>  PRT
<213>  Oryctolagus cuniculus

<400>  228

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


<210>  229
<211>  10
<212>  PRT
<213>  Artificial

<220>
<223>  Humanized Antibody Sequence

<400>  229

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


<210>  230
<211>  107
<212>  PRT
<213>  Artificial

<220>
<223>  Humanized Antibody Sequence

<400>  230

Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu
1               5                   10                  15


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


Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln
        35                  40                  45


Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser
    50                  55                  60


Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu
65                  70                  75                  80
```

Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser
85 90 95

Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
100 105

<210> 231
<211> 660
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 231
gctgacattg tgatgaccca gactccagcc tctgtggagg tagctgtggg aggcacagtc 60

accatcaagt gccaggccag tcagagcatt agtgcgtact tagcctggta tcagcagaaa 120

ccagggcagc ctcccaagct cctgatctac agggcataca ctctggcatc tggggtccca 180

tcgcggttca aaggcagtgg atctgggaca cagttcactc tcaccatcag cgacctggag 240

tgtgccgatg ctgccactta ctactgtcaa agctattatt ccgttactac taatacttat 300

ggaaatactt tcggcggagg gaccgaggtg gtggtcaaac gtacggtagc ggccccatct 360

gtcttcatct tcccgccatc tgatgagcag ttgaaatctg gaactgcctc tgttgtgtgc 420

ctgctgaata acttctatcc cagagaggcc aaagtacagt ggaaggtgga taacgccctc 480

caatcgggta actcccagga gagtgtcaca gagcaggaca gcaaggacag cacctacagc 540

ctcagcagca ccctgacgct gagcaaagca gactacgaga aacacaaagt ctacgcctgc 600

gaagtcaccc atcagggcct gagctcgccc gtcacaaaga gcttcaacag gggagagtgt 660

<210> 232
<211> 339
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 232
gctgacattg tgatgaccca gactccagcc tctgtggagg tagctgtggg aggcacagtc 60

accatcaagt gccaggccag tcagagcatt agtgcgtact tagcctggta tcagcagaaa 120

ccagggcagc ctcccaagct cctgatctac agggcataca ctctggcatc tggggtccca 180

tcgcggttca aaggcagtgg atctgggaca cagttcactc tcaccatcag cgacctggag 240

tgtgccgatg ctgccactta ctactgtcaa agctattatt ccgttactac taatacttat 300

ggaaatactt tcggcggagg gaccgaggtg gtggtcaaa 339

<210> 233
<211> 72
<212> DNA
<213> Oryctolagus cuniculus

<400> 233
gctgacattg tgatgaccca gactccagcc tctgtggagg tagctgtggg aggcacagtc 60

accatcaagt gc 72

<210> 234
<211> 33
<212> DNA
<213> Oryctolagus cuniculus

<400> 234
caggccagtc agagcattag tgcgtactta gcc 33

<210> 235
<211> 45
<212> DNA
<213> Oryctolagus cuniculus

<400> 235
tggtatcagc agaaaccagg gcagcctccc aagctcctga tctac 45

<210> 236
<211> 21
<212> DNA
<213> Oryctolagus cuniculus

<400> 236
agggcataca ctctggcatc t 21

<210> 237
<211> 96
<212> DNA
<213> Oryctolagus cuniculus

<400> 237
ggggtcccat cgcggttcaa aggcagtgga tctgggacac agttcactct caccatcagc 60

gacctggagt gtgccgatgc tgccacttac tactgt 96

<210> 238
<211> 42
<212> DNA
<213> Oryctolagus cuniculus

<400> 238
caaagctatt attccgttac tactaatact tatggaaata ct 42

<210> 239
<211> 30

<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 239
ttcggcggag ggaccgaggt ggtggtcaaa 30

<210> 240
<211> 321
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 240
cgtacggtag cggccccatc tgtcttcatc ttcccgccat ctgatgagca gttgaaatct 60

ggaactgcct ctgttgtgtg cctgctgaat aacttctatc ccagagaggc caaagtacag 120

tggaaggtgg ataacgccct ccaatcgggt aactcccagg agagtgtcac agagcaggac 180

agcaaggaca gcacctacag cctcagcagc accctgacgc tgagcaaagc agactacgag 240

aaacacaaag tctacgcctg cgaagtcacc catcagggcc tgagctcgcc cgtcacaaag 300

agcttcaaca ggggagagtg t 321

<210> 241
<211> 451
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 241

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 Val Ser Ser Asn
20 25 30

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

Ile Gly Cys Ile Arg Asp Gly Gly Gly Thr Tyr Tyr Ala Ser Ser Ala
50 55 60

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

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

Ala Ser Asp Ile Asn Asp Gly Trp Leu Gly Gln Phe Asn Leu Trp Gly
            100                 105                 110

Gln Gly Thr Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser
        115                 120                 125

Val Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala
    130                 135                 140

Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val
145                 150                 155                 160

Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala
                165                 170                 175

Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val
            180                 185                 190

Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His
        195                 200                 205

Lys Pro Ser Asn Thr Lys Val Asp Lys Arg Val Glu Pro Lys Ser Cys
    210                 215                 220

Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly
225                 230                 235                 240

Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met
                245                 250                 255

Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His
            260                 265                 270

Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val
        275                 280                 285

His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Ala Ser Thr Tyr
    290                 295                 300

Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly
305                 310                 315                 320
```

```
Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile
                325                 330                 335

Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val
            340                 345                 350

Tyr Thr Leu Pro Pro Ser Arg Glu Glu Met Thr Lys Asn Gln Val Ser
        355                 360                 365

Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu
    370                 375                 380

Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro
385                 390                 395                 400

Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val
                405                 410                 415

Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met
            420                 425                 430

His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser
        435                 440                 445

Pro Gly Lys
    450
```

<210> 242
<211> 121
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 242

```
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 Val Ser Ser Asn
            20                  25                  30

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

Ile Gly Cys Ile Arg Asp Gly Gly Gly Thr Tyr Tyr Ala Ser Ser Ala
    50                  55                  60
```

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


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


Ala Ser Asp Ile Asn Asp Gly Trp Leu Gly Gln Phe Asn Leu Trp Gly
            100                 105                 110


Gln Gly Thr Leu Val Thr Val Ser Ser
        115                 120


<210>  243
<211>  30
<212>  PRT
<213>  Artificial

<220>
<223>  Humanized Antibody Sequence

<400>  243

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 Val Ser
            20                  25                  30


<210>  244
<211>  6
<212>  PRT
<213>  Oryctolagus cuniculus

<400>  244

Ser Asn Tyr Trp Ile Cys
1               5


<210>  245
<211>  14
<212>  PRT
<213>  Artificial

<220>
<223>  Humanized Antibody Sequence

<400>  245

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


<210>  246
```

<211> 16
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 246

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

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

<220>
<223> Humanized Antibody Sequence

<400> 247

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

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

<210> 248
<211> 12
<212> PRT
<213> Oryctolagus cuniculus

<400> 248

Asp Ile Asn Asp Gly Trp Leu Gly Gln Phe Asn Leu
1 5 10

<210> 249
<211> 11
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 249

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

<210> 250
<211> 330
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 250

```
Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser Lys
1               5                  10                  15

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

Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser
        35                  40                  45

Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser
    50                  55                  60

Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr
65                  70                  75                  80

Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys
                85                  90                  95

Arg Val Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys
            100                 105                 110

Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro
        115                 120                 125

Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys
    130                 135                 140

Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp
145                 150                 155                 160

Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu
                165                 170                 175

Glu Gln Tyr Ala Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu
            180                 185                 190

His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn
        195                 200                 205

Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly
    210                 215                 220
```

```
Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu
225                 230                 235                 240

Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr
                245                 250                 255

Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn
            260                 265                 270

Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe
        275                 280                 285

Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn
    290                 295                 300

Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr
305                 310                 315                 320

Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
                325                 330
```

<210> 251
<211> 1353
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 251
gaggtgcagc ttgtggagtc tgggggaggc ttggtccagc ctgggggtc cctgagactc 60

tcctgtgcag cctctggatt caccgtcagt agcaactact ggatatgctg ggtccgtcag 120

gctccaggga aggggctgga gtggatcgga tgcattcgtg atggtggtgg cacttactac 180

gctagctctg ctaaaggccg attcaccatc tccagagaca attccaagaa caccctgtat 240

cttcaaatga acagcctgag agctgaggac actgctgtgt attactgtgc tagcgatatc 300

aatgatgggt ggcttggcca attcaacttg tggggccaag ggaccctcgt caccgtctcg 360

agcgcctcca ccaagggccc atcggtcttc cccctggcac cctcctccaa gagcacctct 420

gggggcacag cggccctggg ctgcctggtc aaggactact tccccgaacc ggtgacggtg 480

tcgtggaact caggcgccct gaccagcggc gtgcacacct tcccggctgt cctacagtcc 540

tcaggactct actccctcag cagcgtggtg accgtgccct ccagcagctt gggcacccag 600

acctacatct gcaacgtgaa tcacaagccc agcaacacca aggtggacaa gagagttgag 660

cccaaatctt gtgacaaaac tcacacatgc ccaccgtgcc cagcacctga actcctgggg 720

ggaccgtcag tcttcctctt ccccccaaaa cccaaggaca ccctcatgat ctcccggacc 780

cctgaggtca catgcgtggt ggtggacgtg agccacgaag accctgaggt caagttcaac 840

tggtacgtgg acggcgtgga ggtgcataat gccaagacaa agccgcggga ggagcagtac 900

gccagcacgt accgtgtggt cagcgtcctc accgtcctgc accaggactg gctgaatggc 960

aaggagtaca agtgcaaggt ctccaacaaa gccctcccag cccccatcga gaaaaccatc 1020

tccaaagcca aagggcagcc ccgagaacca caggtgtaca ccctgccccc atcccgggag 1080

gagatgacca agaaccaggt cagcctgacc tgcctggtca aaggcttcta tcccagcgac 1140

atcgccgtgg agtgggagag caatgggcag ccggagaaca actacaagac cacgcctccc 1200

gtgctggact ccgacggctc cttcttcctc tacagcaagc tcaccgtgga caagagcagg 1260

tggcagcagg ggaacgtctt ctcatgctcc gtgatgcatg aggctctgca caaccactac 1320

acgcagaaga gcctctccct gtctccgggt aaa 1353

<210> 252
<211> 363
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 252
gaggtgcagc ttgtggagtc tgggggaggc ttggtccagc ctgggggggtc cctgagactc 60

tcctgtgcag cctctggatt caccgtcagt agcaactact ggatatgctg ggtccgtcag 120

gctccaggga aggggctgga gtggatcgga tgcattcgtg atggtggtgg cacttactac 180

gctagctctg ctaaaggccg attcaccatc tccagagaca attccaagaa caccctgtat 240

cttcaaatga acagcctgag agctgaggac actgctgtgt attactgtgc tagcgatatc 300

aatgatgggt ggcttggcca attcaacttg tggggccaag ggaccctcgt caccgtctcg 360

agc 363

<210> 253
<211> 90
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 253
gaggtgcagc ttgtggagtc tgggggaggc ttggtccagc ctgggggggtc cctgagactc 60

tcctgtgcag cctctggatt caccgtcagt 90

<210> 254
<211> 18
<212> DNA
<213> Oryctolagus cuniculus

<400> 254
agcaactact ggatatgc 18

<210> 255
<211> 42
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 255
tgggtccgtc aggctccagg gaaggggctg gagtggatcg ga 42

<210> 256
<211> 48
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 256
tgcattcgtg atggtggtgg cacttactac gctagctctg ctaaaggc 48

<210> 257
<211> 96
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 257
cgattcacca tctccagaga caattccaag aacaccctgt atcttcaaat gaacagcctg 60

agagctgagg acactgctgt gtattactgt gctagc 96

<210> 258
<211> 36
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 258
gatatcaatg atgggtggct tggccaattc aacttg 36

<210> 259
<211> 33

<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 259
tggggccaag ggaccctcgt caccgtctcg agc 33

<210> 260
<211> 990
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 260
gcctccacca agggcccatc ggtcttcccc ctggcaccct cctccaagag cacctctggg 60

ggcacagcgg ccctgggctg cctggtcaag gactacttcc ccgaaccggt gacggtgtcg 120

tggaactcag gcgccctgac cagcggcgtg cacaccttcc cggctgtcct acagtcctca 180

ggactctact ccctcagcag cgtggtgacc gtgccctcca gcagcttggg cacccagacc 240

tacatctgca acgtgaatca caagcccagc aacaccaagg tggacaagag agttgagccc 300

aaatcttgtg acaaaactca cacatgccca ccgtgcccag cacctgaact cctgggggga 360

ccgtcagtct tcctcttccc cccaaaaccc aaggacaccc tcatgatctc ccggacccct 420

gaggtcacat gcgtggtggt ggacgtgagc cacgaagacc ctgaggtcaa gttcaactgg 480

tacgtggacg gcgtggaggt gcataatgcc aagacaaagc cgcgggagga gcagtacgcc 540

agcacgtacc gtgtggtcag cgtcctcacc gtcctgcacc aggactggct gaatggcaag 600

gagtacaagt gcaaggtctc caacaaagcc ctcccagccc ccatcgagaa aaccatctcc 660

aaagccaaag ggcagccccg agaaccacag gtgtacaccc tgcccccatc ccgggaggag 720

atgaccaaga accaggtcag cctgacctgc ctggtcaaag gcttctatcc cagcgacatc 780

gccgtggagt gggagagcaa tgggcagccg gagaacaact acaagaccac gcctcccgtg 840

ctggactccg acggctcctt cttcctctac agcaagctca ccgtggacaa gagcaggtgg 900

cagcagggga acgtcttctc atgctccgtg atgcatgagg ctctgcacaa ccactacacg 960

cagaagagcc tctccctgtc tccgggtaaa 990

<210> 261
<211> 220
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 261

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

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

Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Val Pro Lys Leu Leu
        35                  40                  45

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

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

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

Thr Asn Thr Tyr Gly Asn Thr Phe Gly Gly Gly Thr Lys Val Glu Ile
            100                 105                 110

Lys Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp
        115                 120                 125

Glu Gln Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn
    130                 135                 140

Phe Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu
145                 150                 155                 160

Gln Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp
                165                 170                 175

Ser Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr
            180                 185                 190

Glu Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser
        195                 200                 205

Ser Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
    210                 215                 220
```

<210> 262
<211> 113

<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 262

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

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

Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Val Pro Lys Leu Leu
35 40 45

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

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

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

Thr Asn Thr Tyr Gly Asn Thr Phe Gly Gly Gly Thr Lys Val Glu Ile
100 105 110

Lys

<210> 263
<211> 24
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 263

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

Gly Asp Arg Val Thr Ile Lys Cys
20

<210> 264
<211> 11
<212> PRT

<213> Oryctolagus cuniculus

<400> 264

Gln Ala Ser Gln Ser Ile Ser Ala Tyr Leu Ala
1 5 10

<210> 265
<211> 15
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 265

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

<210> 266
<211> 7
<212> PRT
<213> Oryctolagus cuniculus

<400> 266

Arg Ala Tyr Thr Leu Ala Ser
1 5

<210> 267
<211> 32
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 267

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 Val Ala Thr Tyr Tyr Cys
20 25 30

<210> 268
<211> 14
<212> PRT
<213> Oryctolagus cuniculus

<400> 268

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

<210> 269
<211> 10
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 269

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

<210> 270
<211> 107
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 270

Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu
1 5 10 15

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

Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln
35 40 45

Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser
50 55 60

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

Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser
85 90 95

Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
100 105

<210> 271
<211> 660
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 271
gctgacattg tgatgaccca gtctccatcc tccctgtctg catctgtagg agacagagtc 60

accatcaagt gccaggccag tcagagcatt agtgcttact tagcctggta tcagcagaaa 120

ccagggaaag tccctaagct cctgatctat agggcataca ctctggcatc tggggtccca 180

tctcgtttca gtggcagtgg atctgggaca gatttcactc tcaccatcag cagcctgcag 240

cctgaagatg ttgcaactta ttactgtcaa agctactatt ccgttactac taatacttat 300

ggaaatactt tcggcggagg aaccaaggtg gaaatcaaac gtacggtggc tgcaccatct 360

gtcttcatct tcccgccatc tgatgagcag ttgaaatctg gaactgcctc tgttgtgtgc 420

ctgctgaata acttctatcc cagagaggcc aaagtacagt ggaaggtgga taacgccctc 480

caatcgggta actcccagga gagtgtcaca gagcaggaca gcaaggacag cacctacagc 540

ctcagcagca ccctgacgct gagcaaagca gactacgaga aacacaaagt ctacgcctgc 600

gaagtcaccc atcagggcct gagctcgccc gtcacaaaga gcttcaacag gggagagtgt 660

<210> 272
<211> 339
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 272
gctgacattg tgatgaccca gtctccatcc tccctgtctg catctgtagg agacagagtc 60

accatcaagt gccaggccag tcagagcatt agtgcttact tagcctggta tcagcagaaa 120

ccagggaaag tccctaagct cctgatctat agggcataca ctctggcatc tggggtccca 180

tctcgtttca gtggcagtgg atctgggaca gatttcactc tcaccatcag cagcctgcag 240

cctgaagatg ttgcaactta ttactgtcaa agctactatt ccgttactac taatacttat 300

ggaaatactt tcggcggagg aaccaaggtg gaaatcaaa 339

<210> 273
<211> 72
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 273
gctgacattg tgatgaccca gtctccatcc tccctgtctg catctgtagg agacagagtc 60

accatcaagt gc 72

<210> 274

<211> 33
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 274
caggccagtc agagcattag tgcttactta gcc 33

<210> 275
<211> 45
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 275
tggtatcagc agaaaccagg gaaagtccct aagctcctga tctat 45

<210> 276
<211> 21
<212> DNA
<213> Oryctolagus cuniculus

<400> 276
agggcataca ctctggcatc t 21

<210> 277
<211> 96
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 277
ggggtcccat ctcgtttcag tggcagtgga tctgggacag atttcactct caccatcagc 60

agcctgcagc ctgaagatgt tgcaacttat tactgt 96

<210> 278
<211> 42
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 278
caaagctact attccgttac tactaatact tatggaaata ct 42

<210> 279
<211> 30
<212> DNA

<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 279
ttcggcggag gaaccaaggt ggaaatcaaa 30

<210> 280
<211> 321
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 280
cgtacggtgg ctgcaccatc tgtcttcatc ttcccgccat ctgatgagca gttgaaatct 60

ggaactgcct ctgttgtgtg cctgctgaat aacttctatc ccagagaggc caaagtacag 120

tggaaggtgg ataacgccct ccaatcgggt aactcccagg agagtgtcac agagcaggac 180

agcaaggaca gcacctacag cctcagcagc accctgacgc tgagcaaagc agactacgag 240

aaacacaaag tctacgcctg cgaagtcacc catcagggcc tgagctcgcc cgtcacaaag 300

agcttcaaca ggggagagtg t 321

<210> 281
<211> 456
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 281

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

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

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

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

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

```
Leu Gln Met Thr Arg Leu Thr Ala Ala Asp Thr Ala Thr Tyr Phe Cys
                85                  90                  95

Ala Arg Asp Arg Tyr Tyr Ser Tyr Ala Tyr Gly Ala Tyr Val Tyr Ala
            100                 105                 110

Ser Asp Leu Trp Gly Pro Gly Thr Leu Val Thr Val Ser Ser Ala Ser
        115                 120                 125

Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr
    130                 135                 140

Ser Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro
145                 150                 155                 160

Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val
                165                 170                 175

His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser
            180                 185                 190

Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile
        195                 200                 205

Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys Arg Val
    210                 215                 220

Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala
225                 230                 235                 240

Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro
                245                 250                 255

Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val
            260                 265                 270

Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val
        275                 280                 285

Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln
    290                 295                 300

Tyr Ala Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln
305                 310                 315                 320

Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala
```

325 330 335

Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro
340 345 350

Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu Met Thr
355 360 365

Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser
370 375 380

Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr
385 390 395 400

Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr
405 410 415

Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe
420 425 430

Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys
435 440 445

Ser Leu Ser Leu Ser Pro Gly Lys
450 455

<210> 282
<211> 126
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 282

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

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

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

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

```
Ala Lys Gly Arg Phe Thr Ile Ser Lys Pro Ser Ser Thr Thr Val Thr
65                  70                  75                  80


Leu Gln Met Thr Arg Leu Thr Ala Ala Asp Thr Ala Thr Tyr Phe Cys
                85                  90                  95


Ala Arg Asp Arg Tyr Tyr Ser Tyr Ala Tyr Gly Ala Tyr Val Tyr Ala
            100                 105                 110


Ser Asp Leu Trp Gly Pro Gly Thr Leu Val Thr Val Ser Ser
        115                 120                 125


<210>  283
<211>  30
<212>  PRT
<213>  Oryctolagus cuniculus

<400>  283

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


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


<210>  284
<211>  6
<212>  PRT
<213>  Oryctolagus cuniculus

<400>  284

Ser Asp Tyr Tyr Met Cys
1               5


<210>  285
<211>  14
<212>  PRT
<213>  Oryctolagus cuniculus

<400>  285

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


<210>  286
<211>  17
<212>  PRT
<213>  Oryctolagus cuniculus

<400>  286

Cys Ile Ser Thr Gly Asp Gly Ser Thr Tyr Tyr Ala Ser Trp Ala Lys
```

1 5 10 15

Gly

<210> 287
<211> 31
<212> PRT
<213> Oryctolagus cuniculus

<400> 287

Arg Phe Thr Ile Ser Lys Pro Ser Ser Thr Thr Val Thr Leu Gln Met
1 5 10 15

Thr Arg Leu Thr Ala Ala Asp Thr Ala Thr Tyr Phe Cys Ala Arg
20 25 30

<210> 288
<211> 17
<212> PRT
<213> Oryctolagus cuniculus

<400> 288

Asp Arg Tyr Tyr Ser Tyr Ala Tyr Gly Ala Tyr Val Tyr Ala Ser Asp
1 5 10 15

Leu

<210> 289
<211> 11
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 289

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

<210> 290
<211> 330
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 290

```
Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser Lys
1               5                  10                  15

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

Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser
        35                  40                  45

Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser
    50                  55                  60

Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr
65                  70                  75                  80

Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys
                85                  90                  95

Arg Val Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys
            100                 105                 110

Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro
        115                 120                 125

Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys
    130                 135                 140

Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp
145                 150                 155                 160

Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu
                165                 170                 175

Glu Gln Tyr Ala Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu
            180                 185                 190

His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn
        195                 200                 205

Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly
    210                 215                 220

Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu
225                 230                 235                 240

Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr
```

245 250 255

Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn
260 265 270

Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe
275 280 285

Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn
290 295 300

Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr
305 310 315 320

Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
325 330

<210> 291
<211> 1368
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 291
caggagcagc tggtggagtc cgggggaggc ctggtccagc ctgagggatc cctgacactc 60

acctgcacag cttctggatt ctccttcact agcgactatt acatgtgctg ggtccgccag 120

gctccaggga aggggctgga gtggatcgga tgcatttcta ctggtgatgg cagcacatac 180

tacgcgagct gggcgaaagg ccgattcacc atctccaaac cctcgtcgac cacggtgact 240

ctgcaaatga ccaggctgac agccgcggac acggccacct atttctgtgc gagagatcga 300

tactatagtt atgcttatgg tgcttatgtt tatgctagcg acttgtgggg cccaggcacc 360

ctcgtcaccg tctcgagcgc ctccaccaag ggcccatcgg tcttcccccct ggcaccctcc 420

tccaagagca cctctggggg cacagcggcc ctgggctgcc tggtcaagga ctacttcccc 480

gaaccggtga cggtgtcgtg gaactcaggc gccctgacca gcggcgtgca caccttcccg 540

gctgtcctac agtcctcagg actctactcc ctcagcagcg tggtgaccgt gccctccagc 600

agcttgggca cccagaccta catctgcaac gtgaatcaca agcccagcaa caccaaggtg 660

gacaagagag ttgagcccaa atcttgtgac aaaactcaca catgcccacc gtgcccagca 720

cctgaactcc tgggggggacc gtcagtcttc ctcttccccc caaaacccaa ggacaccctc 780

atgatctccc ggacccctga ggtcacatgc gtggtggtgg acgtgagcca cgaagaccct 840

gaggtcaagt tcaactggta cgtggacggc gtggaggtgc ataatgccaa gacaaagccg 900

cgggaggagc agtacgccag cacgtaccgt gtggtcagcg tcctcaccgt cctgcaccag 960

gactggctga atggcaagga gtacaagtgc aaggtctcca acaaagccct cccagccccc 1020

atcgagaaaa ccatctccaa agccaaaggg cagccccgag aaccacaggt gtacaccctg 1080

cccccatccc gggaggagat gaccaagaac caggtcagcc tgacctgcct ggtcaaaggc 1140

ttctatccca gcgacatcgc cgtggagtgg gagagcaatg ggcagccgga gaacaactac 1200

aagaccacgc ctcccgtgct ggactccgac ggctccttct tcctctacag caagctcacc 1260

gtggacaaga gcaggtggca gcaggggaac gtcttctcat gctccgtgat gcatgaggct 1320

ctgcacaacc actacacgca gaagagcctc tccctgtctc cgggtaaa 1368

<210> 292
<211> 378
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 292
caggagcagc tggtggagtc cgggggaggc ctggtccagc ctgagggatc cctgacactc 60

acctgcacag cttctggatt ctccttcact agcgactatt acatgtgctg ggtccgccag 120

gctccaggga aggggctgga gtggatcgga tgcatttcta ctggtgatgg cagcacatac 180

tacgcgagct gggcgaaagg ccgattcacc atctccaaac cctcgtcgac cacggtgact 240

ctgcaaatga ccaggctgac agccgcggac acggccacct atttctgtgc gagagatcga 300

tactatagtt atgcttatgg tgcttatgtt tatgctagcg acttgtgggg cccaggcacc 360

ctcgtcaccg tctcgagc 378

<210> 293
<211> 90
<212> DNA
<213> Oryctolagus cuniculus

<400> 293
caggagcagc tggtggagtc cgggggaggc ctggtccagc ctgagggatc cctgacactc 60

acctgcacag cttctggatt ctccttcact 90

<210> 294
<211> 18
<212> DNA
<213> Oryctolagus cuniculus

<400> 294
agcgactatt acatgtgc 18

<210> 295
<211> 42
<212> DNA
<213> Oryctolagus cuniculus

<400> 295
tgggtccgcc aggctccagg gaaggggctg gagtggatcg ga 42

<210> 296
<211> 51
<212> DNA
<213> Oryctolagus cuniculus

<400> 296
tgcatttcta ctggtgatgg cagcacatac tacgcgagct gggcgaaagg c 51

<210> 297
<211> 93
<212> DNA
<213> Oryctolagus cuniculus

<400> 297
cgattcacca tctccaaacc ctcgtcgacc acggtgactc tgcaaatgac caggctgaca 60

gccgcggaca cggccaccta tttctgtgcg aga 93

<210> 298
<211> 51
<212> DNA
<213> Oryctolagus cuniculus

<400> 298
gatcgatact atagttatgc ttatggtgct tatgtttatg ctagcgactt g 51

<210> 299
<211> 33
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 299
tggggcccag gcaccctcgt caccgtctcg agc 33

<210> 300
<211> 990
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 300
gcctccacca agggcccatc ggtcttcccc ctggcaccct cctccaagag cacctctggg 60

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ggcacagcgg ccctgggctg cctggtcaag gactacttcc ccgaaccggt gacggtgtcg      120

tggaactcag gcgccctgac cagcggcgtg cacaccttcc cggctgtcct acagtcctca      180

ggactctact ccctcagcag cgtggtgacc gtgccctcca gcagcttggg cacccagacc      240

tacatctgca acgtgaatca caagcccagc aacaccaagg tggacaagag agttgagccc      300

aaatcttgtg acaaaactca cacatgccca ccgtgcccag cacctgaact cctgggggga      360

ccgtcagtct tcctcttccc cccaaaaccc aaggacaccc tcatgatctc ccggacccct      420

gaggtcacat gcgtggtggt ggacgtgagc cacgaagacc ctgaggtcaa gttcaactgg      480

tacgtggacg gcgtggaggt gcataatgcc aagacaaagc cgcgggagga gcagtacgcc      540

agcacgtacc gtgtggtcag cgtcctcacc gtcctgcacc aggactggct gaatggcaag      600

gagtacaagt gcaaggtctc caacaaagcc ctcccagccc ccatcgagaa aaccatctcc      660

aaagccaaag ggcagccccg agaaccacag gtgtacaccc tgcccccatc ccgggaggag      720

atgaccaaga accaggtcag cctgacctgc ctggtcaaag gcttctatcc cagcgacatc      780

gccgtggagt gggagagcaa tgggcagccg gagaacaact acaagaccac gcctcccgtg      840

ctggactccg acggctcctt cttcctctac agcaagctca ccgtggacaa gagcaggtgg      900

cagcagggga acgtcttctc atgctccgtg atgcatgagg ctctgcacaa ccactacacg      960

cagaagagcc tctccctgtc tccgggtaaa                                       990
```

<210> 301
<211> 220
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 301

```
Ala Asp Ile Val Met Thr Gln Thr Pro Ala Ser Val Ser Glu Pro Val
1               5                  10                  15

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

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

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

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Asp Leu Glu
```

```
65                  70                  75                  80

Cys Ala Asp Ala Ala Thr Tyr Tyr Cys Gln Ser Asn Tyr Gly Ile Ser
                85                  90                  95

Ser Arg Ser Tyr Val Asn Gly Phe Gly Gly Gly Thr Glu Val Val Val
            100                 105                 110

Lys Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp
        115                 120                 125

Glu Gln Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn
    130                 135                 140

Phe Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu
145                 150                 155                 160

Gln Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp
                165                 170                 175

Ser Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr
            180                 185                 190

Glu Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser
        195                 200                 205

Ser Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
    210                 215                 220


<210>  302
<211>  113
<212>  PRT
<213>  Artificial

<220>
<223>  Humanized Antibody Sequence

<400>  302

Ala Asp Ile Val Met Thr Gln Thr Pro Ala Ser Val Ser Glu Pro Val
1               5                   10                  15

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

Tyr Leu Ser Trp Tyr Gln Gln Lys Pro Gly Gln Arg Pro Lys Leu Leu
        35                  40                  45
```

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

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Asp Leu Glu
65                  70                  75                  80

Cys Ala Asp Ala Ala Thr Tyr Tyr Cys Gln Ser Asn Tyr Gly Ile Ser
                85                  90                  95

Ser Arg Ser Tyr Val Asn Gly Phe Gly Gly Gly Thr Glu Val Val Val
            100                 105                 110

Lys
```

<210> 303
<211> 24
<212> PRT
<213> Oryctolagus cuniculus

<400> 303

```
Ala Asp Ile Val Met Thr Gln Thr Pro Ala Ser Val Ser Glu Pro Val
1               5                   10                  15

Gly Gly Thr Val Thr Ile Asn Cys
            20
```

<210> 304
<211> 11
<212> PRT
<213> Oryctolagus cuniculus

<400> 304

```
Gln Ala Ser Glu Ser Ile Arg Asn Tyr Leu Ser
1               5                   10
```

<210> 305
<211> 15
<212> PRT
<213> Oryctolagus cuniculus

<400> 305

```
Trp Tyr Gln Gln Lys Pro Gly Gln Arg Pro Lys Leu Leu Ile Tyr
1               5                   10                  15
```

<210> 306
<211> 7
<212> PRT
<213> Oryctolagus cuniculus

<400> 306

Gly Ala Ser Thr Leu Ala Ser
1 5

<210> 307
<211> 32
<212> PRT
<213> Oryctolagus cuniculus

<400> 307

Gly Val Pro Ser Arg Phe Lys Gly Ser Gly Ser Gly Thr Asp Phe Thr
1 5 10 15

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

<210> 308
<211> 14
<212> PRT
<213> Oryctolagus cuniculus

<400> 308

Gln Ser Asn Tyr Gly Ile Ser Ser Arg Ser Tyr Val Asn Gly
1 5 10

<210> 309
<211> 10
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 309

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

<210> 310
<211> 107
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 310

Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu
1 5 10 15

```
Gln Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe
            20                  25                  30

Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln
        35                  40                  45

Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser
    50                  55                  60

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

Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser
                85                  90                  95

Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
            100                 105
```

<210> 311
<211> 660
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 311
gctgacattg tgatgaccca gactccagcc tccgtgtctg aacctgtggg aggcacagtc 60

accatcaatt gccaggccag tgaaagcatt aggaactact tatcctggta tcaacagaaa 120

ccagggcagc gtcccaagct cctgatctat ggtgcatcca ctctggcatc tggggtccca 180

tcgcggttca aaggcagtgg atctgggaca gatttcactc tcaccatcag cgacctggag 240

tgtgccgatg ctgccactta ctactgtcaa agcaattatg gtattagtag tcgtagttat 300

gttaatggtt tcggcggagg gaccgaggtg gtggtcaaac gtacggtagc ggccccatct 360

gtcttcatct tcccgccatc tgatgagcag ttgaaatctg gaactgcctc tgttgtgtgc 420

ctgctgaata acttctatcc cagagaggcc aaagtacagt ggaaggtgga taacgccctc 480

caatcgggta actcccagga gagtgtcaca gagcaggaca gcaaggacag cacctacagc 540

ctcagcagca ccctgacgct gagcaaagca gactacgaga aacacaaagt ctacgcctgc 600

gaagtcaccc atcagggcct gagctcgccc gtcacaaaga gcttcaacag gggagagtgt 660

<210> 312
<211> 339
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 312
gctgacattg tgatgaccca gactccagcc tccgtgtctg aacctgtggg aggcacagtc 60

accatcaatt gccaggccag tgaaagcatt aggaactact tatcctggta tcaacagaaa 120

ccagggcagc gtcccaagct cctgatctat ggtgcatcca ctctggcatc tggggtccca 180

tcgcggttca aaggcagtgg atctgggaca gatttcactc tcaccatcag cgacctggag 240

tgtgccgatg ctgccactta ctactgtcaa agcaattatg gtattagtag tcgtagttat 300

gttaatggtt tcggcggagg gaccgaggtg gtggtcaaa 339

<210> 313
<211> 72
<212> DNA
<213> Oryctolagus cuniculus

<400> 313
gctgacattg tgatgaccca gactccagcc tccgtgtctg aacctgtggg aggcacagtc 60

accatcaatt gc 72

<210> 314
<211> 33
<212> DNA
<213> Oryctolagus cuniculus

<400> 314
caggccagtg aaagcattag gaactactta tcc 33

<210> 315
<211> 45
<212> DNA
<213> Oryctolagus cuniculus

<400> 315
tggtatcaac agaaaccagg gcagcgtccc aagctcctga tctat 45

<210> 316
<211> 21
<212> DNA
<213> Oryctolagus cuniculus

<400> 316
ggtgcatcca ctctggcatc t 21

<210> 317
<211> 96
<212> DNA
<213> Oryctolagus cuniculus

<400> 317

ggggtcccat cgcggttcaa aggcagtgga tctgggacag atttcactct caccatcagc 60

gacctggagt gtgccgatgc tgccacttac tactgt 96

<210> 318
<211> 42
<212> DNA
<213> Oryctolagus cuniculus

<400> 318
caaagcaatt atggtattag tagtcgtagt tatgttaatg gt 42

<210> 319
<211> 30
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 319
ttcggcggag ggaccgaggt ggtggtcaaa 30

<210> 320
<211> 321
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 320
cgtacggtag cggccccatc tgtcttcatc ttcccgccat ctgatgagca gttgaaatct 60

ggaactgcct ctgttgtgtg cctgctgaat aacttctatc ccagagaggc caaagtacag 120

tggaaggtgg ataacgccct ccaatcgggt aactcccagg agagtgtcac agagcaggac 180

agcaaggaca gcacctacag cctcagcagc accctgacgc tgagcaaagc agactacgag 240

aaacacaaag tctacgcctg cgaagtcacc catcagggcc tgagctcgcc cgtcacaaag 300

agcttcaaca ggggagagtg t 321

<210> 321
<211> 450
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 321

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 Thr Val Ser Gly Ile Asp Leu Ser Ser Tyr Ala
            20                  25                  30

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

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

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

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

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

Gly Thr Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val
        115                 120                 125

Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala Ala
    130                 135                 140

Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser
145                 150                 155                 160

Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala Val
                165                 170                 175

Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro
            180                 185                 190

Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His Lys
        195                 200                 205

Pro Ser Asn Thr Lys Val Asp Lys Arg Val Glu Pro Lys Ser Cys Asp
    210                 215                 220

Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly
225                 230                 235                 240

Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile
                245                 250                 255
```

```
Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His Glu
            260                 265                 270

Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His
        275                 280                 285

Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Ala Ser Thr Tyr Arg
    290                 295                 300

Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys
305                 310                 315                 320

Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu
                325                 330                 335

Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr
            340                 345                 350

Thr Leu Pro Pro Ser Arg Glu Glu Met Thr Lys Asn Gln Val Ser Leu
        355                 360                 365

Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp
    370                 375                 380

Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val
385                 390                 395                 400

Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp
                405                 410                 415

Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His
            420                 425                 430

Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro
        435                 440                 445

Gly Lys
    450
```

<210> 322
<211> 120
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 322

```
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 Thr Val Ser Gly Ile Asp Leu Ser Ser Tyr Ala
            20                  25                  30

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

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

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

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

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

Gly Thr Leu Val Thr Val Ser Ser
        115                 120
```

<210> 323
<211> 29
<212> PRT
<213> Oryctolagus cuniculus

<400> 323

```
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 Thr Val Ser Gly Ile Asp Leu Ser
            20                  25
```

<210> 324
<211> 5
<212> PRT
<213> Oryctolagus cuniculus

<400> 324

```
Ser Tyr Ala Met Gly
1               5
```

<210> 325
<211> 14

<212> PRT
<213> Oryctolagus cuniculus

<400> 325

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

<210> 326
<211> 16
<212> PRT
<213> Oryctolagus cuniculus

<400> 326

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

<210> 327
<211> 30
<212> PRT
<213> Oryctolagus cuniculus

<400> 327

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

Ser Pro Thr Ala Glu Asp Thr Ala Thr Tyr Phe Cys Ala Arg
20 25 30

<210> 328
<211> 15
<212> PRT
<213> Oryctolagus cuniculus

<400> 328

Asp Leu Asp Ala Asn Ser Ser Gly Tyr Tyr Gly Cys Phe Asn Ile
1 5 10 15

<210> 329
<211> 11
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 329

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

<210> 330

<211> 330
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 330

```
Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser Lys
1               5                  10                  15

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

Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser
        35                  40                  45

Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser
    50                  55                  60

Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr
65                  70                  75                  80

Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys
                85                  90                  95

Arg Val Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys
            100                 105                 110

Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro
        115                 120                 125

Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys
    130                 135                 140

Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp
145                 150                 155                 160

Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu
                165                 170                 175

Glu Gln Tyr Ala Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu
            180                 185                 190

His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn
        195                 200                 205
```

```
Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly
    210                 215                 220

Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu
225                 230                 235                 240

Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr
                245                 250                 255

Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn
            260                 265                 270

Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe
        275                 280                 285

Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn
    290                 295                 300

Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr
305                 310                 315                 320

Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
                325                 330
```

<210> 331
<211> 1350
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 331
cagtcggtgg aggagtccgg gggtcgcctg gtaacgcctg ggacacccct gacactcacc 60

tgcacagtct ctggaatcga cctcagtagc tatgcaatgg gctgggtccg ccaggctcca 120

gggaaggggc tggaatacat cggaatcatt gttagttatg ggcccacata ctacgcgagc 180

tgggcgaaag gccgattcac catctccaaa acctcgacca cggtggatct gaaaatcacc 240

agtccgacgg ccgaggacac ggccacctat ttctgtgcca gagatctgga tgctaatagt 300

agtggttatt atggatgctt taacatctgg ggccagggga ccctcgtcac cgtctcgagc 360

gcctccacca agggcccatc ggtcttcccc ctggcaccct cctccaagag cacctctggg 420

ggcacagcgg ccctgggctg cctggtcaag gactacttcc ccgaaccggt gacggtgtcg 480

tggaactcag gcgccctgac cagcggcgtg cacaccttcc cggctgtcct acagtcctca 540

ggactctact ccctcagcag cgtggtgacc gtgccctcca gcagcttggg cacccagacc 600

tacatctgca acgtgaatca caagcccagc aacaccaagg tggacaagag agttgagccc 660

aaatcttgtg acaaaactca cacatgccca ccgtgcccag cacctgaact cctgggggga 720

ccgtcagtct tcctcttccc cccaaaaccc aaggacaccc tcatgatctc ccggacccct 780

gaggtcacat gcgtggtggt ggacgtgagc cacgaagacc ctgaggtcaa gttcaactgg 840

tacgtggacg gcgtggaggt gcataatgcc aagacaaagc cgcgggagga gcagtacgcc 900

agcacgtacc gtgtggtcag cgtcctcacc gtcctgcacc aggactggct gaatggcaag 960

gagtacaagt gcaaggtctc caacaaagcc ctcccagccc ccatcgagaa aaccatctcc 1020

aaagccaaag ggcagccccg agaaccacag gtgtacaccc tgcccccatc ccgggaggag 1080

atgaccaaga accaggtcag cctgacctgc ctggtcaaag gcttctatcc cagcgacatc 1140

gccgtggagt gggagagcaa tgggcagccg gagaacaact acaagaccac gcctcccgtg 1200

ctggactccg acggctcctt cttcctctac agcaagctca ccgtggacaa gagcaggtgg 1260

cagcagggga acgtcttctc atgctccgtg atgcatgagg ctctgcacaa ccactacacg 1320

cagaagagcc tctccctgtc tccgggtaaa 1350

<210> 332
<211> 360
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 332
cagtcggtgg aggagtccgg gggtcgcctg gtaacgcctg ggacacccct gacactcacc 60

tgcacagtct ctggaatcga cctcagtagc tatgcaatgg gctgggtccg ccaggctcca 120

gggaaggggc tggaatacat cggaatcatt gttagttatg ggcccacata ctacgcgagc 180

tgggcgaaag gccgattcac catctccaaa acctcgacca cggtggatct gaaaatcacc 240

agtccgacgg ccgaggacac ggccacctat ttctgtgcca gagatctgga tgctaatagt 300

agtggttatt atggatgctt taacatctgg ggccagggga ccctcgtcac cgtctcgagc 360

<210> 333
<211> 87
<212> DNA
<213> Oryctolagus cuniculus

<400> 333
cagtcggtgg aggagtccgg gggtcgcctg gtaacgcctg ggacacccct gacactcacc 60

tgcacagtct ctggaatcga cctcagt 87

<210> 334

<211> 15
<212> DNA
<213> Oryctolagus cuniculus

<400> 334
agctatgcaa tgggc 15

<210> 335
<211> 42
<212> DNA
<213> Oryctolagus cuniculus

<400> 335
tgggtccgcc aggctccagg gaaggggctg gaatacatcg ga 42

<210> 336
<211> 48
<212> DNA
<213> Oryctolagus cuniculus

<400> 336
atcattgtta gttatgggcc cacatactac gcgagctggg cgaaaggc 48

<210> 337
<211> 90
<212> DNA
<213> Oryctolagus cuniculus

<400> 337
cgattcacca tctccaaaac ctcgaccacg gtggatctga aaatcaccag tccgacggcc 60

gaggacacgg ccacctattt ctgtgccaga 90

<210> 338
<211> 45
<212> DNA
<213> Oryctolagus cuniculus

<400> 338
gatctggatg ctaatagtag tggttattat ggatgcttta acatc 45

<210> 339
<211> 33
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 339
tggggccagg ggaccctcgt caccgtctcg agc 33

<210> 340
<211> 990
<212> DNA

<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 340
gcctccacca agggcccatc ggtcttcccc ctggcaccct cctccaagag cacctctggg 60

ggcacagcgg ccctgggctg cctggtcaag gactacttcc ccgaaccggt gacggtgtcg 120

tggaactcag gcgccctgac cagcggcgtg cacaccttcc cggctgtcct acagtcctca 180

ggactctact ccctcagcag cgtggtgacc gtgccctcca gcagcttggg cacccagacc 240

tacatctgca acgtgaatca caagcccagc aacaccaagg tggacaagag agttgagccc 300

aaatcttgtg acaaaactca cacatgccca ccgtgcccag cacctgaact cctgggggga 360

ccgtcagtct tcctcttccc cccaaaaccc aaggacaccc tcatgatctc ccggacccct 420

gaggtcacat gcgtggtggt ggacgtgagc cacgaagacc ctgaggtcaa gttcaactgg 480

tacgtggacg gcgtggaggt gcataatgcc aagacaaagc cgcgggagga gcagtacgcc 540

agcacgtacc gtgtggtcag cgtcctcacc gtcctgcacc aggactggct gaatggcaag 600

gagtacaagt gcaaggtctc caacaaagcc ctcccagccc ccatcgagaa aaccatctcc 660

aaagccaaag ggcagccccg agaaccacag gtgtacaccc tgcccccatc ccgggaggag 720

atgaccaaga accaggtcag cctgacctgc ctggtcaaag gcttctatcc cagcgacatc 780

gccgtggagt gggagagcaa tgggcagccg gagaacaact acaagaccac gcctcccgtg 840

ctggactccg acggctcctt cttcctctac agcaagctca ccgtggacaa gagcaggtgg 900

cagcagggga acgtcttctc atgctccgtg atgcatgagg ctctgcacaa ccactacacg 960

cagaagagcc tctccctgtc tccgggtaaa 990

<210> 341
<211> 215
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 341

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

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

Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Pro Pro Lys Leu Leu Ile
35 40 45

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

Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Asp Leu Glu Cys
65                  70                  75                  80

Ala Asp Ala Ala Thr Tyr Tyr Cys Gln Ser Tyr Tyr Gly Ser Ser Asn
                85                  90                  95

Ile Ala Phe Gly Gly Gly Thr Glu Leu Glu Ile Leu Arg Thr Val Ala
            100                 105                 110

Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu Lys Ser
        115                 120                 125

Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro Arg Glu
    130                 135                 140

Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly Asn Ser
145                 150                 155                 160

Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr Ser Leu
                165                 170                 175

Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys His Lys Val
            180                 185                 190

Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro Val Thr Lys
        195                 200                 205

Ser Phe Asn Arg Gly Glu Cys
    210                 215


<210>  342
<211>  108
<212>  PRT
<213>  Artificial

<220>
<223>  Humanized Antibody Sequence

<400>  342

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

Gly Thr Val Thr Ile Lys Cys Gln Ala Ser Gln Ser Ile Ser Thr Ala
```

```
            20                  25                  30

Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Pro Pro Lys Leu Leu Ile
        35                  40                  45

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

Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Asp Leu Glu Cys
65                  70                  75                  80

Ala Asp Ala Ala Thr Tyr Tyr Cys Gln Ser Tyr Tyr Gly Ser Ser Asn
                85                  90                  95

Ile Ala Phe Gly Gly Gly Thr Glu Leu Glu Ile Leu
            100                 105


<210>  343
<211>  23
<212>  PRT
<213>  Oryctolagus cuniculus

<400>  343

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

Gly Thr Val Thr Ile Lys Cys
            20


<210>  344
<211>  11
<212>  PRT
<213>  Oryctolagus cuniculus

<400>  344

Gln Ala Ser Gln Ser Ile Ser Thr Ala Leu Ala
1               5                   10


<210>  345
<211>  15
<212>  PRT
<213>  Oryctolagus cuniculus

<400>  345

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


<210>  346
```

<211> 7
<212> PRT
<213> Oryctolagus cuniculus

<400> 346

Ala Ala Ser Pro Leu Ala Ser
1 5

<210> 347
<211> 32
<212> PRT
<213> Oryctolagus cuniculus

<400> 347

Gly Val Ser Ser Arg Phe Lys Ser Ser Gly Ser Gly Thr Glu Phe Thr
1 5 10 15

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

<210> 348
<211> 10
<212> PRT
<213> Oryctolagus cuniculus

<400> 348

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

<210> 349
<211> 10
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 349

Phe Gly Gly Gly Thr Glu Leu Glu Ile Leu
1 5 10

<210> 350
<211> 107
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 350

Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu

```
1               5                   10                  15

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

Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln
        35                  40                  45

Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser
    50                  55                  60

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

Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser
                85                  90                  95

Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
            100                 105
```

<210> 351
<211> 645
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 351
```
gccgtcgtgc tgacccagac tccagcctcc gtgtctgcag ctgtgggtgg cacagtcacc       60

atcaagtgcc aggccagtca gagcattagc actgcattag cctggtatca gcagaaacca      120

gggcagcctc ccaagctcct gatctatgct gcatcccctc tggcatctgg ggtctcatcg      180

cggttcaaga gcagtggatc tgggacagag ttcactctca ccatcagcga cctggagtgt      240

gccgatgctg ccacttatta ctgtcaaagc tattatggta gtagcaatat tgctttcggc      300

ggagggaccg agctggagat cctacgtacg gtagcggccc catctgtctt catcttcccg      360

ccatctgatg agcagttgaa atctggaact gcctctgttg tgtgcctgct gaataacttc      420

tatcccagag aggccaaagt acagtggaag gtggataacg ccctccaatc gggtaactcc      480

caggagagtg tcacagagca ggacagcaag gacagcacct acagcctcag cagcaccctg      540

acgctgagca aagcagacta cgagaaacac aaagtctacg cctgcgaagt cacccatcag      600

ggcctgagct cgcccgtcac aaagagcttc aacaggggag agtgt                      645
```

<210> 352
<211> 324

<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 352
gccgtcgtgc tgacccagac tccagcctcc gtgtctgcag ctgtgggtgg cacagtcacc 60

atcaagtgcc aggccagtca gagcattagc actgcattag cctggtatca gcagaaacca 120

gggcagcctc ccaagctcct gatctatgct gcatcccctc tggcatctgg ggtctcatcg 180

cggttcaaga gcagtggatc tgggacagag ttcactctca ccatcagcga cctggagtgt 240

gccgatgctg ccacttatta ctgtcaaagc tattatggta gtagcaatat tgctttcggc 300

ggagggaccg agctggagat ccta 324

<210> 353
<211> 69
<212> DNA
<213> Oryctolagus cuniculus

<400> 353
gccgtcgtgc tgacccagac tccagcctcc gtgtctgcag ctgtgggtgg cacagtcacc 60

atcaagtgc 69

<210> 354
<211> 33
<212> DNA
<213> Oryctolagus cuniculus

<400> 354
caggccagtc agagcattag cactgcatta gcc 33

<210> 355
<211> 45
<212> DNA
<213> Oryctolagus cuniculus

<400> 355
tggtatcagc agaaaccagg gcagcctccc aagctcctga tctat 45

<210> 356
<211> 21
<212> DNA
<213> Oryctolagus cuniculus

<400> 356
gctgcatccc ctctggcatc t 21

<210> 357
<211> 96
<212> DNA

<213> Oryctolagus cuniculus

<400> 357
ggggtctcat cgcggttcaa gagcagtgga tctgggacag agttcactct caccatcagc 60

gacctggagt gtgccgatgc tgccacttat tactgt 96

<210> 358
<211> 30
<212> DNA
<213> Oryctolagus cuniculus

<400> 358
caaagctatt atggtagtag caatattgct 30

<210> 359
<211> 30
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 359
ttcggcggag ggaccgagct ggagatccta 30

<210> 360
<211> 321
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 360
cgtacggtag cggccccatc tgtcttcatc ttcccgccat ctgatgagca gttgaaatct 60

ggaactgcct ctgttgtgtg cctgctgaat aacttctatc ccagagaggc caaagtacag 120

tggaaggtgg ataacgccct ccaatcgggt aactcccagg agagtgtcac agagcaggac 180

agcaaggaca gcacctacag cctcagcagc accctgacgc tgagcaaagc agactacgag 240

aaacacaaag tctacgcctg cgaagtcacc catcagggcc tgagctcgcc cgtcacaaag 300

agcttcaaca ggggagagtg t 321

<210> 361
<211> 450
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 361

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

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

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

Ile Ala Cys Ile Arg Ala Gly Gly Gly Asn Tyr Tyr Ala Asn Trp Ala
    50                  55                  60

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

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

Ser Asp Ile Asn Asp Gly Trp Leu Gly Gln Phe Asn Leu Trp Gly Pro
            100                 105                 110

Gly Thr Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val
        115                 120                 125

Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala Ala
    130                 135                 140

Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser
145                 150                 155                 160

Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala Val
                165                 170                 175

Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro
            180                 185                 190

Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His Lys
        195                 200                 205

Pro Ser Asn Thr Lys Val Asp Lys Arg Val Glu Pro Lys Ser Cys Asp
    210                 215                 220

Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly
225                 230                 235                 240

Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile
```

245 250 255

Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His Glu
260 265 270

Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His
275 280 285

Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Ala Ser Thr Tyr Arg
290 295 300

Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys
305 310 315 320

Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu
325 330 335

Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr
340 345 350

Thr Leu Pro Pro Ser Arg Glu Glu Met Thr Lys Asn Gln Val Ser Leu
355 360 365

Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp
370 375 380

Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val
385 390 395 400

Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp
405 410 415

Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His
420 425 430

Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro
435 440 445

Gly Lys
450

<210> 362
<211> 120
<212> PRT
<213> Artificial

<220>

<223> Humanized Antibody Sequence

<400> 362

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


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


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


Ile Ala Cys Ile Arg Ala Gly Gly Gly Asn Tyr Tyr Ala Asn Trp Ala
    50                  55                  60


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


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


Ser Asp Ile Asn Asp Gly Trp Leu Gly Gln Phe Asn Leu Trp Gly Pro
            100                 105                 110


Gly Thr Leu Val Thr Val Ser Ser
        115                 120
```

<210> 363
<211> 30
<212> PRT
<213> Oryctolagus cuniculus

<400> 363

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


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

<210> 364
<211> 6
<212> PRT
<213> Oryctolagus cuniculus

<400> 364

```
Ser Ser Tyr Trp Ile Cys
1               5
```

<210> 365
<211> 14
<212> PRT
<213> Oryctolagus cuniculus

<400> 365

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

<210> 366
<211> 16
<212> PRT
<213> Oryctolagus cuniculus

<400> 366

Cys Ile Arg Ala Gly Gly Gly Asn Tyr Tyr Ala Asn Trp Ala Lys Gly
1 5 10 15

<210> 367
<211> 31
<212> PRT
<213> Oryctolagus cuniculus

<400> 367

Arg Phe Thr Ile Ser Arg Thr Ser Ser Thr Thr Val Thr Leu Gln Met
1 5 10 15

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

<210> 368
<211> 12
<212> PRT
<213> Oryctolagus cuniculus

<400> 368

Asp Ile Asn Asp Gly Trp Leu Gly Gln Phe Asn Leu
1 5 10

<210> 369
<211> 11
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 369

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

<210> 370
<211> 330
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 370

```
Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser Lys
1               5                   10                  15

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

Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser
        35                  40                  45

Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser
    50                  55                  60

Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr
65                  70                  75                  80

Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys
                85                  90                  95

Arg Val Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys
            100                 105                 110

Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro
        115                 120                 125

Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys
    130                 135                 140

Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp
145                 150                 155                 160

Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu
                165                 170                 175

Glu Gln Tyr Ala Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu
            180                 185                 190

His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn
```

```
        195                 200                 205

Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly
    210                 215                 220

Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu
225                 230                 235                 240

Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr
                245                 250                 255

Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn
            260                 265                 270

Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe
        275                 280                 285

Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn
    290                 295                 300

Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr
305                 310                 315                 320

Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
                325                 330
```

<210> 371
<211> 1350
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 371

```
caggagcagc tggaggagtc cgggggagac ctggtcaagc ctgagggatc cctgacactc       60

acctgcacag cctctggatt ctccttcagt agcagttact ggatatgctg ggtccgccag      120

gctccaggga aggggctgga gtggatcgca tgcattcgtg ctggtggtgg gaattactac      180

gcgaactggg cgaaaggccg attcaccatc tccagaacct cgtcgaccac ggtgactctg      240

caaatgacca gtctgacagc cgcggacacg gccacctatt tttgtgcgag cgatattaat      300

gatgggtggc ttggccaatt caacttgtgg ggcccgggca ccctggtcac cgtctcgagc      360

gcctccacca agggcccatc ggtcttcccc ctggcaccct cctccaagag cacctctggg      420

ggcacagcgg ccctgggctg cctggtcaag gactacttcc ccgaaccggt gacggtgtcg      480

tggaactcag gcgccctgac cagcggcgtg cacaccttcc cggctgtcct acagtcctca      540
```

ggactctact ccctcagcag cgtggtgacc gtgccctcca gcagcttggg cacccagacc 600

tacatctgca acgtgaatca caagcccagc aacaccaagg tggacaagag agttgagccc 660

aaatcttgtg acaaaactca cacatgccca ccgtgcccag cacctgaact cctgggggga 720

ccgtcagtct tcctcttccc cccaaaaccc aaggacaccc tcatgatctc ccggacccct 780

gaggtcacat gcgtggtggt ggacgtgagc cacgaagacc ctgaggtcaa gttcaactgg 840

tacgtggacg gcgtggaggt gcataatgcc aagacaaagc cgcgggagga gcagtacgcc 900

agcacgtacc gtgtggtcag cgtcctcacc gtcctgcacc aggactggct gaatggcaag 960

gagtacaagt gcaaggtctc caacaaagcc ctcccagccc ccatcgagaa aaccatctcc 1020

aaagccaaag ggcagccccg agaaccacag gtgtacaccc tgcccccatc ccgggaggag 1080

atgaccaaga accaggtcag cctgacctgc ctggtcaaag gcttctatcc cagcgacatc 1140

gccgtggagt gggagagcaa tgggcagccg gagaacaact acaagaccac gcctcccgtg 1200

ctggactccg acggctcctt cttcctctac agcaagctca ccgtggacaa gagcaggtgg 1260

cagcagggga acgtcttctc atgctccgtg atgcatgagg ctctgcacaa ccactacacg 1320

cagaagagcc tctccctgtc tccgggtaaa 1350

<210> 372
<211> 360
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 372
caggagcagc tggaggagtc cgggggagac ctggtcaagc ctgagggatc cctgacactc 60

acctgcacag cctctggatt ctccttcagt agcagttact ggatatgctg ggtccgccag 120

gctccaggga aggggctgga gtggatcgca tgcattcgtg ctggtggtgg gaattactac 180

gcgaactggg cgaaaggccg attcaccatc tccagaacct cgtcgaccac ggtgactctg 240

caaatgacca gtctgacagc cgcggacacg gccacctatt tttgtgcgag cgatattaat 300

gatgggtggc ttggccaatt caacttgtgg ggcccgggca ccctggtcac cgtctcgagc 360

<210> 373
<211> 90
<212> DNA
<213> Oryctolagus cuniculus

<400> 373
caggagcagc tggaggagtc cgggggagac ctggtcaagc ctgagggatc cctgacactc 60

acctgcacag cctctggatt ctccttcagt 90

<210> 374
<211> 18
<212> DNA
<213> Oryctolagus cuniculus

<400> 374
agcagttact ggatatgc 18

<210> 375
<211> 42
<212> DNA
<213> Oryctolagus cuniculus

<400> 375
tgggtccgcc aggctccagg gaaggggctg gagtggatcg ca 42

<210> 376
<211> 48
<212> DNA
<213> Oryctolagus cuniculus

<400> 376
tgcattcgtg ctggtggtgg gaattactac gcgaactggg cgaaaggc 48

<210> 377
<211> 93
<212> DNA
<213> Oryctolagus cuniculus

<400> 377
cgattcacca tctccagaac ctcgtcgacc acggtgactc tgcaaatgac cagtctgaca 60

gccgcggaca cggccaccta tttttgtgcg agc 93

<210> 378
<211> 36
<212> DNA
<213> Oryctolagus cuniculus

<400> 378
gatattaatg atgggtggct tggccaattc aacttg 36

<210> 379
<211> 33
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 379
tggggcccgg gcaccctggt caccgtctcg agc 33

<210> 380
<211> 990
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 380
gcctccacca agggcccatc ggtcttcccc ctggcaccct cctccaagag cacctctggg 60

ggcacagcgg ccctgggctg cctggtcaag gactacttcc ccgaaccggt gacggtgtcg 120

tggaactcag gcgccctgac cagcggcgtg cacaccttcc cggctgtcct acagtcctca 180

ggactctact ccctcagcag cgtggtgacc gtgccctcca gcagcttggg cacccagacc 240

tacatctgca acgtgaatca caagcccagc aacaccaagg tggacaagag agttgagccc 300

aaatcttgtg acaaaactca cacatgccca ccgtgcccag cacctgaact cctgggggga 360

ccgtcagtct tcctcttccc cccaaaaccc aaggacaccc tcatgatctc ccggaccccct 420

gaggtcacat gcgtggtggt ggacgtgagc cacgaagacc ctgaggtcaa gttcaactgg 480

tacgtggacg gcgtggaggt gcataatgcc aagacaaagc cgcgggagga gcagtacgcc 540

agcacgtacc gtgtggtcag cgtcctcacc gtcctgcacc aggactggct gaatggcaag 600

gagtacaagt gcaaggtctc caacaaagcc ctcccagccc ccatcgagaa aaccatctcc 660

aaagccaaag ggcagccccg agaaccacag gtgtacaccc tgcccccatc ccgggaggag 720

atgaccaaga accaggtcag cctgacctgc ctggtcaaag gcttctatcc cagcgacatc 780

gccgtggagt gggagagcaa tgggcagccg gagaacaact acaagaccac gcctcccgtg 840

ctggactccg acggctcctt cttcctctac agcaagctca ccgtggacaa gagcaggtgg 900

cagcagggga acgtcttctc atgctccgtg atgcatgagg ctctgcacaa ccactacacg 960

cagaagagcc tctccctgtc tccgggtaaa 990

<210> 381
<211> 220
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 381

Ala Asn Ile Val Met Thr Gln Thr Pro Ala Ser Val Glu Ala Ala Val
1 5 10 15

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

```
Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Pro Pro Lys Leu Leu
        35                  40                  45

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

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

Cys Ala Asp Ala Ala Thr Tyr Tyr Cys Gln Ser Tyr Tyr Ser Val Thr
                85                  90                  95

Thr Val Ala Tyr Gly Asn Thr Phe Gly Gly Gly Thr Glu Val Val Val
            100                 105                 110

Lys Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp
        115                 120                 125

Glu Gln Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn
    130                 135                 140

Phe Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu
145                 150                 155                 160

Gln Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp
                165                 170                 175

Ser Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr
            180                 185                 190

Glu Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser
        195                 200                 205

Ser Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
    210                 215                 220
```

<210> 382
<211> 113
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 382

```
Ala Asn Ile Val Met Thr Gln Thr Pro Ala Ser Val Glu Ala Ala Val
1               5                   10                  15
```

```
Gly Gly Thr Val Thr Ile Lys Cys Gln Ala Ser Gln Ser Ile Ser Asn
            20                  25                  30

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

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

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

Cys Ala Asp Ala Ala Thr Tyr Tyr Cys Gln Ser Tyr Tyr Ser Val Thr
                85                  90                  95

Thr Val Ala Tyr Gly Asn Thr Phe Gly Gly Gly Thr Glu Val Val Val
            100                 105                 110

Lys
```

<210> 383
<211> 24
<212> PRT
<213> Oryctolagus cuniculus

<400> 383

```
Ala Asn Ile Val Met Thr Gln Thr Pro Ala Ser Val Glu Ala Ala Val
1               5                   10                  15

Gly Gly Thr Val Thr Ile Lys Cys
            20
```

<210> 384
<211> 11
<212> PRT
<213> Oryctolagus cuniculus

<400> 384

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

<210> 385
<211> 15
<212> PRT
<213> Oryctolagus cuniculus

<400> 385

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

<210> 386
<211> 7
<212> PRT
<213> Oryctolagus cuniculus

<400> 386

Arg Thr Ser Thr Leu Ala Ser
1 5

<210> 387
<211> 32
<212> PRT
<213> Oryctolagus cuniculus

<400> 387

Gly Val Pro Ser Arg Phe Lys Gly Ser Gly Ser Gly Thr Gln Phe Thr
1 5 10 15

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

<210> 388
<211> 14
<212> PRT
<213> Oryctolagus cuniculus

<400> 388

Gln Ser Tyr Tyr Ser Val Thr Thr Val Ala Tyr Gly Asn Thr
1 5 10

<210> 389
<211> 10
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 389

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

<210> 390
<211> 107
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 390

Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu
1   5   10   15

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

Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln
        35   40   45

Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser
    50   55   60

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

Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser
                85   90   95

Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
            100   105

<210> 391
<211> 660
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 391
gccaacattg tgatgaccca gactccagcc tccgtggagg cagctgtggg aggcacagtc   60

accatcaagt gccaggccag tcagagcatt agtaattact tagcctggta tcagcagaaa   120

ccagggcagc ctcccaagct cctgatctac aggacatcca ctctggcatc tggggtccca   180

tcgcggttca aaggcagtgg atccgggaca cagttcactc tcaccatcag cgacctggag   240

tgtgccgatg ctgccactta ctactgtcaa agctattatt ccgttactac tgttgcttat   300

ggaaatactt tcggcggagg gaccgaggtg gtggtcaaac gtacggtagc ggccccatct   360

gtcttcatct tcccgccatc tgatgagcag ttgaaatctg gaactgcctc tgttgtgtgc   420

ctgctgaata acttctatcc cagagaggcc aaagtacagt ggaaggtgga taacgccctc   480

caatcgggta actcccagga gagtgtcaca gagcaggaca gcaaggacag cacctacagc   540

ctcagcagca ccctgacgct gagcaaagca gactacgaga aacacaaagt ctacgcctgc 600

gaagtcaccc atcagggcct gagctcgccc gtcacaaaga gcttcaacag gggagagtgt 660

<210> 392
<211> 339
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 392
gccaacattg tgatgaccca gactccagcc tccgtggagg cagctgtggg aggcacagtc 60

accatcaagt gccaggccag tcagagcatt agtaattact tagcctggta tcagcagaaa 120

ccagggcagc ctcccaagct cctgatctac aggacatcca ctctggcatc tggggtccca 180

tcgcggttca aaggcagtgg atccgggaca cagttcactc tcaccatcag cgacctggag 240

tgtgccgatg ctgccactta ctactgtcaa agctattatt ccgttactac tgttgcttat 300

ggaaatactt tcggcggagg gaccgaggtg gtggtcaaa 339

<210> 393
<211> 72
<212> DNA
<213> Oryctolagus cuniculus

<400> 393
gccaacattg tgatgaccca gactccagcc tccgtggagg cagctgtggg aggcacagtc 60

accatcaagt gc 72

<210> 394
<211> 33
<212> DNA
<213> Oryctolagus cuniculus

<400> 394
caggccagtc agagcattag taattactta gcc 33

<210> 395
<211> 45
<212> DNA
<213> Oryctolagus cuniculus

<400> 395
tggtatcagc agaaaccagg gcagcctccc aagctcctga tctac 45

<210> 396
<211> 21
<212> DNA
<213> Oryctolagus cuniculus

<400> 396
aggacatcca ctctggcatc t 21

<210> 397
<211> 96
<212> DNA
<213> Oryctolagus cuniculus

<400> 397
ggggtcccat cgcggttcaa aggcagtgga tccgggacac agttcactct caccatcagc 60

gacctggagt gtgccgatgc tgccacttac tactgt 96

<210> 398
<211> 42
<212> DNA
<213> Oryctolagus cuniculus

<400> 398
caaagctatt attccgttac tactgttgct tatggaaata ct 42

<210> 399
<211> 30
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 399
ttcggcggag ggaccgaggt ggtggtcaaa 30

<210> 400
<211> 321
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 400
cgtacggtag cggccccatc tgtcttcatc ttcccgccat ctgatgagca gttgaaatct 60

ggaactgcct ctgttgtgtg cctgctgaat aacttctatc ccagagaggc caaagtacag 120

tggaaggtgg ataacgccct ccaatcgggt aactcccagg agagtgtcac agagcaggac 180

agcaaggaca gcacctacag cctcagcagc accctgacgc tgagcaaagc agactacgag 240

aaacacaaag tctacgcctg cgaagtcacc catcagggcc tgagctcgcc cgtcacaaag 300

agcttcaaca ggggagagtg t 321

<210> 401
<211> 451
<212> PRT

<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 401

```
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 Val Ser Ser Ser
            20                  25                  30


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


Ile Ala Cys Ile Arg Ala Gly Gly Gly Asn Tyr Tyr Ala Asn Ser Ala
    50                  55                  60


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


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


Ala Ser Asp Ile Asn Asp Gly Trp Leu Gly Gln Phe Asn Leu Trp Gly
            100                 105                 110


Gln Gly Thr Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser
        115                 120                 125


Val Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala
    130                 135                 140


Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val
145                 150                 155                 160


Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala
                165                 170                 175


Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val
            180                 185                 190


Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His
        195                 200                 205


Lys Pro Ser Asn Thr Lys Val Asp Lys Arg Val Glu Pro Lys Ser Cys
    210                 215                 220
```

```
Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly
225                 230                 235                 240

Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met
                245                 250                 255

Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His
            260                 265                 270

Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val
        275                 280                 285

His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Ala Ser Thr Tyr
    290                 295                 300

Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly
305                 310                 315                 320

Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile
                325                 330                 335

Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val
            340                 345                 350

Tyr Thr Leu Pro Pro Ser Arg Glu Glu Met Thr Lys Asn Gln Val Ser
        355                 360                 365

Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu
    370                 375                 380

Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro
385                 390                 395                 400

Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val
                405                 410                 415

Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met
            420                 425                 430

His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser
        435                 440                 445

Pro Gly Lys
    450
```

<210> 402
<211> 121
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 402

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 Val Ser Ser Ser
20 25 30

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

Ile Ala Cys Ile Arg Ala Gly Gly Gly Asn Tyr Tyr Ala Asn Ser Ala
50 55 60

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

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

Ala Ser Asp Ile Asn Asp Gly Trp Leu Gly Gln Phe Asn Leu Trp Gly
100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 403
<211> 30
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 403

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 Val Ser
20 25 30

<210> 404
<211> 6
<212> PRT
<213> Oryctolagus cuniculus

<400> 404

Ser Ser Tyr Trp Ile Cys
1 5

<210> 405
<211> 14
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 405

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

<210> 406
<211> 16
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 406

Cys Ile Arg Ala Gly Gly Gly Asn Tyr Tyr Ala Asn Ser Ala Lys Gly
1 5 10 15

<210> 407
<211> 32
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 407

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

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

<210> 408
<211> 12
<212> PRT
<213> Oryctolagus cuniculus

<400> 408

Asp Ile Asn Asp Gly Trp Leu Gly Gln Phe Asn Leu
1 5 10

<210> 409
<211> 11
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 409

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

<210> 410
<211> 330
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 410

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

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

Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser
35 40 45

Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser
50 55 60

Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr
65 70 75 80

Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys
85 90 95

Arg Val Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys
100 105 110

Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro
115 120 125

```
Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys
    130                 135                 140

Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp
145                 150                 155                 160

Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu
                165                 170                 175

Glu Gln Tyr Ala Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu
            180                 185                 190

His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn
        195                 200                 205

Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly
    210                 215                 220

Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu
225                 230                 235                 240

Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr
                245                 250                 255

Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn
            260                 265                 270

Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe
        275                 280                 285

Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn
    290                 295                 300

Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr
305                 310                 315                 320

Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
                325                 330
```

<210> 411
<211> 1353
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 411
gaggtgcagc ttgtggagtc tgggggaggc ttggtccagc ctgggggtc cctgagactc 60

tcctgtgcag cctctggatt caccgtcagt agcagttact ggatatgctg ggtccgtcag 120

gctccaggga aggggctgga gtggatcgca tgcattcgtg ctggtggtgg gaattactac 180

gctaactctg ctaaaggccg attcaccatc tccagagaca attccaagaa caccctgtat 240

cttcaaatga acagcctgag agctgaggac actgctgtgt attactgtgc tagcgatatc 300

aatgatgggt ggcttggcca attcaacttg tggggccaag ggaccctcgt caccgtctcg 360

agcgcctcca ccaagggccc atcggtcttc cccctggcac cctcctccaa gagcacctct 420

gggggcacag cggccctggg ctgcctggtc aaggactact tccccgaacc ggtgacggtg 480

tcgtggaact caggcgccct gaccagcggc gtgcacacct tcccggctgt cctacagtcc 540

tcaggactct actccctcag cagcgtggtg accgtgccct ccagcagctt gggcacccag 600

acctacatct gcaacgtgaa tcacaagccc agcaacacca aggtggacaa gagagttgag 660

cccaaatctt gtgacaaaac tcacacatgc ccaccgtgcc cagcacctga actcctgggg 720

ggaccgtcag tcttcctctt ccccccaaaa cccaaggaca ccctcatgat ctcccggacc 780

cctgaggtca catgcgtggt ggtggacgtg agccacgaag accctgaggt caagttcaac 840

tggtacgtgg acggcgtgga ggtgcataat gccaagacaa agccgcggga ggagcagtac 900

gccagcacgt accgtgtggt cagcgtcctc accgtcctgc accaggactg gctgaatggc 960

aaggagtaca agtgcaaggt ctccaacaaa gccctcccag cccccatcga gaaaaccatc 1020

tccaaagcca aagggcagcc ccgagaacca caggtgtaca ccctgccccc atcccgggag 1080

gagatgacca agaaccaggt cagcctgacc tgcctggtca aaggcttcta tcccagcgac 1140

atcgccgtgg agtgggagag caatgggcag ccggagaaca actacaagac cacgcctccc 1200

gtgctggact ccgacggctc cttcttcctc tacagcaagc tcaccgtgga caagagcagg 1260

tggcagcagg ggaacgtctt ctcatgctcc gtgatgcatg aggctctgca caaccactac 1320

acgcagaaga gcctctccct gtctccgggt aaa 1353

<210> 412
<211> 363
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 412
gaggtgcagc ttgtggagtc tgggggaggc ttggtccagc ctgggggtc cctgagactc 60

tcctgtgcag cctctggatt caccgtcagt agcagttact ggatatgctg ggtccgtcag 120

gctccaggga aggggctgga gtggatcgca tgcattcgtg ctggtggtgg gaattactac 180

gctaactctg ctaaaggccg attcaccatc tccagagaca attccaagaa caccctgtat 240

cttcaaatga acagcctgag agctgaggac actgctgtgt attactgtgc tagcgatatc 300

aatgatgggt ggcttggcca attcaacttg tggggccaag ggaccctcgt caccgtctcg 360

agc 363

<210> 413
<211> 90
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 413
gaggtgcagc ttgtggagtc tgggggaggc ttggtccagc ctgggggggtc cctgagactc 60

tcctgtgcag cctctggatt caccgtcagt 90

<210> 414
<211> 18
<212> DNA
<213> Oryctolagus cuniculus

<400> 414
agcagttact ggatatgc 18

<210> 415
<211> 42
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 415
tgggtccgtc aggctccagg gaaggggctg gagtggatcg ca 42

<210> 416
<211> 48
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 416
tgcattcgtg ctggtggtgg gaattactac gctaactctg ctaaaggc 48

<210> 417
<211> 96

<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 417
cgattcacca tctccagaga caattccaag aacaccctgt atcttcaaat gaacagcctg 60

agagctgagg acactgctgt gtattactgt gctagc 96

<210> 418
<211> 36
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 418
gatatcaatg atgggtggct tggccaattc aacttg 36

<210> 419
<211> 33
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 419
tggggccaag ggaccctcgt caccgtctcg agc 33

<210> 420
<211> 990
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 420
gcctccacca agggcccatc ggtcttcccc ctggcaccct cctccaagag cacctctggg 60

ggcacagcgg ccctgggctg cctggtcaag gactacttcc ccgaaccggt gacggtgtcg 120

tggaactcag gcgccctgac cagcggcgtg cacaccttcc cggctgtcct acagtcctca 180

ggactctact ccctcagcag cgtggtgacc gtgccctcca gcagcttggg cacccagacc 240

tacatctgca acgtgaatca caagcccagc aacaccaagg tggacaagag agttgagccc 300

aaatcttgtg acaaaactca cacatgccca ccgtgcccag cacctgaact cctgggggga 360

ccgtcagtct tcctcttccc cccaaaaccc aaggacaccc tcatgatctc ccggacccct 420

gaggtcacat gcgtggtggt ggacgtgagc cacgaagacc ctgaggtcaa gttcaactgg 480

```
tacgtggacg gcgtggaggt gcataatgcc aagacaaagc cgcgggagga gcagtacgcc      540

agcacgtacc gtgtggtcag cgtcctcacc gtcctgcacc aggactggct gaatggcaag      600

gagtacaagt gcaaggtctc caacaaagcc ctcccagccc ccatcgagaa aaccatctcc      660

aaagccaaag ggcagccccg agaaccacag gtgtacaccc tgcccccatc ccgggaggag      720

atgaccaaga accaggtcag cctgacctgc ctggtcaaag gcttctatcc cagcgacatc      780

gccgtggagt gggagagcaa tgggcagccg gagaacaact acaagaccac gcctcccgtg      840

ctggactccg acggctcctt cttcctctac agcaagctca ccgtggacaa gagcaggtgg      900

cagcagggga acgtcttctc atgctccgtg atgcatgagg ctctgcacaa ccactacacg      960

cagaagagcc tctccctgtc tccgggtaaa                                       990
```

<210> 421
<211> 220
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 421

```
Ala Asn Ile Val Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val
1               5                  10                  15

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

Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Val Pro Lys Leu Leu
        35                  40                  45

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

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

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

Thr Val Ala Tyr Gly Asn Thr Phe Gly Gly Gly Thr Lys Val Glu Ile
            100                 105                 110

Lys Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp
        115                 120                 125
```

```
Glu Gln Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn
    130                 135                 140

Phe Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu
145                 150                 155                 160

Gln Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp
                165                 170                 175

Ser Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr
            180                 185                 190

Glu Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser
        195                 200                 205

Ser Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
    210                 215                 220
```

<210> 422
<211> 113
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 422

```
Ala Asn Ile Val Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val
1               5                   10                  15

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

Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Val Pro Lys Leu Leu
        35                  40                  45

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

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

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

Thr Val Ala Tyr Gly Asn Thr Phe Gly Gly Gly Thr Lys Val Glu Ile
            100                 105                 110
```

Lys

<210> 423
<211> 24
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 423

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

Gly Asp Arg Val Thr Ile Thr Cys
20

<210> 424
<211> 11
<212> PRT
<213> Oryctolagus cuniculus

<400> 424

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

<210> 425
<211> 15
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 425

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

<210> 426
<211> 7
<212> PRT
<213> Oryctolagus cuniculus

<400> 426

Arg Thr Ser Thr Leu Ala Ser
1 5

<210> 427
<211> 32

<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 427

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 Val Ala Thr Tyr Tyr Cys
20 25 30

<210> 428
<211> 14
<212> PRT
<213> Oryctolagus cuniculus

<400> 428

Gln Ser Tyr Tyr Ser Val Thr Thr Val Ala Tyr Gly Asn Thr
1 5 10

<210> 429
<211> 10
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 429

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

<210> 430
<211> 107
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 430

Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu
1 5 10 15

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

Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln
35 40 45

```
Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser
    50                  55                  60

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

Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser
                85                  90                  95

Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
            100                 105
```

<210> 431
<211> 660
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 431
gccaacattg tgatgaccca gtctccatcc tccctgtctg catctgtagg agacagagtc 60

accatcactt gccaggccag tcagagcatt agtaattact tagcctggta tcagcagaaa 120

ccagggaaag tccctaagct cctgatctat aggacatcca ctctggcatc tggggtccca 180

tctcgtttca gtggcagtgg atctgggaca gatttcactc tcaccatcag cagcctgcag 240

cctgaagatg ttgcaactta ttactgtcaa agctactatt ccgttactac tgttgcttat 300

ggaaatactt tcggcggagg aaccaaggtg gaaatcaaac gtacggtggc tgcaccatct 360

gtcttcatct tcccgccatc tgatgagcag ttgaaatctg gaactgcctc tgttgtgtgc 420

ctgctgaata acttctatcc cagagaggcc aaagtacagt ggaaggtgga taacgccctc 480

caatcgggta actcccagga gagtgtcaca gagcaggaca gcaaggacag cacctacagc 540

ctcagcagca ccctgacgct gagcaaagca gactacgaga aacacaaagt ctacgcctgc 600

gaagtcaccc atcagggcct gagctcgccc gtcacaaaga gcttcaacag gggagagtgt 660

<210> 432
<211> 339
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 432
gccaacattg tgatgaccca gtctccatcc tccctgtctg catctgtagg agacagagtc 60

accatcactt gccaggccag tcagagcatt agtaattact tagcctggta tcagcagaaa 120

ccagggaaag tccctaagct cctgatctat aggacatcca ctctggcatc tggggtccca 180

tctcgtttca gtggcagtgg atctgggaca gatttcactc tcaccatcag cagcctgcag 240

cctgaagatg ttgcaactta ttactgtcaa agctactatt ccgttactac tgttgcttat 300

ggaaatactt tcggcggagg aaccaaggtg gaaatcaaa 339

<210> 433
<211> 72
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 433
gccaacattg tgatgaccca gtctccatcc tccctgtctg catctgtagg agacagagtc 60

accatcactt gc 72

<210> 434
<211> 33
<212> DNA
<213> Oryctolagus cuniculus

<400> 434
caggccagtc agagcattag taattactta gcc 33

<210> 435
<211> 45
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 435
tggtatcagc agaaaccagg gaaagtccct aagctcctga tctat 45

<210> 436
<211> 21
<212> DNA
<213> Oryctolagus cuniculus

<400> 436
aggacatcca ctctggcatc t 21

<210> 437
<211> 96
<212> DNA
<213> Artificial

<220>

<223> Humanized Antibody Sequence

<400> 437
ggggtcccat ctcgtttcag tggcagtgga tctgggacag atttcactct caccatcagc 60

agcctgcagc ctgaagatgt tgcaacttat tactgt 96

<210> 438
<211> 42
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 438
caaagctact attccgttac tactgttgct tatggaaata ct 42

<210> 439
<211> 30
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 439
ttcggcggag gaaccaaggt ggaaatcaaa 30

<210> 440
<211> 321
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 440
cgtacggtgg ctgcaccatc tgtcttcatc ttcccgccat ctgatgagca gttgaaatct 60

ggaactgcct ctgttgtgtg cctgctgaat aacttctatc ccagagaggc caaagtacag 120

tggaaggtgg ataacgccct ccaatcgggt aactcccagg agagtgtcac agagcaggac 180

agcaaggaca gcacctacag cctcagcagc accctgacgc tgagcaaagc agactacgag 240

aaacacaaag tctacgcctg cgaagtcacc catcagggcc tgagctcgcc cgtcacaaag 300

agcttcaaca ggggagagtg t 321

<210> 441
<211> 451
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 441

```
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 Val Ser Ser Ser
            20                  25                  30

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

Ile Ala Cys Ile Arg Ala Gly Gly Gly Asn Tyr Tyr Ala Asn Ser Ala
    50                  55                  60

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

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

Ala Ser Asp Ile Asn Asp Gly Trp Leu Gly Gln Phe Asn Leu Trp Gly
            100                 105                 110

Gln Gly Thr Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser
        115                 120                 125

Val Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala
    130                 135                 140

Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val
145                 150                 155                 160

Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala
                165                 170                 175

Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val
            180                 185                 190

Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His
        195                 200                 205

Lys Pro Ser Asn Thr Lys Val Asp Lys Arg Val Glu Pro Lys Ser Cys
    210                 215                 220

Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly
225                 230                 235                 240
```

```
Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met
                245                 250                 255

Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His
            260                 265                 270

Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val
        275                 280                 285

His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Ala Ser Thr Tyr
    290                 295                 300

Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly
305                 310                 315                 320

Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile
                325                 330                 335

Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val
            340                 345                 350

Tyr Thr Leu Pro Pro Ser Arg Glu Glu Met Thr Lys Asn Gln Val Ser
        355                 360                 365

Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu
    370                 375                 380

Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro
385                 390                 395                 400

Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val
                405                 410                 415

Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met
            420                 425                 430

His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser
        435                 440                 445

Pro Gly Lys
    450

<210>  442
<211>  121
<212>  PRT
```

<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 442

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 Val Ser Ser Ser
20 25 30

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

Ile Ala Cys Ile Arg Ala Gly Gly Gly Asn Tyr Tyr Ala Asn Ser Ala
50 55 60

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

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

Ala Ser Asp Ile Asn Asp Gly Trp Leu Gly Gln Phe Asn Leu Trp Gly
100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 443
<211> 30
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 443

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 Val Ser
20 25 30

<210> 444
<211> 6
<212> PRT
<213> Oryctolagus cuniculus

<400> 444

Ser Ser Tyr Trp Ile Cys
1 5

<210> 445
<211> 14
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 445

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

<210> 446
<211> 16
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 446

Cys Ile Arg Ala Gly Gly Gly Asn Tyr Tyr Ala Asn Ser Ala Lys Gly
1 5 10 15

<210> 447
<211> 32
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 447

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

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

<210> 448
<211> 12
<212> PRT
<213> Oryctolagus cuniculus

<400> 448

Asp Ile Asn Asp Gly Trp Leu Gly Gln Phe Asn Leu

1 5 10

<210> 449
<211> 11
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 449

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

<210> 450
<211> 330
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 450

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

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

Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser
35 40 45

Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser
50 55 60

Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr
65 70 75 80

Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys
85 90 95

Arg Val Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys
100 105 110

Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro
115 120 125

Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys
130 135 140

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Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp
145                 150                 155                 160

Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu
                165                 170                 175

Glu Gln Tyr Ala Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu
            180                 185                 190

His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn
        195                 200                 205

Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly
    210                 215                 220

Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu
225                 230                 235                 240

Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr
                245                 250                 255

Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn
            260                 265                 270

Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe
        275                 280                 285

Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn
    290                 295                 300

Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr
305                 310                 315                 320

Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
                325                 330
```

<210> 451
<211> 1353
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 451
gaggtgcagc ttgtggagtc tgggggaggc ttggtccagc ctgggggtc cctgagactc 60

tcctgtgcag cctctggatt caccgtcagt agcagttact ggatatgctg ggtccgtcag 120

gctccaggga aggggctgga gtggatcgca tgcattcgtg ctggtggtgg gaattactac 180

gctaactctg ctaaaggccg attcaccatc tccagagaca attccaagaa caccctgtat 240

cttcaaatga acagcctgag agctgaggac actgctgtgt attactgtgc tagcgatatc 300

aatgatgggt ggcttggcca attcaacttg tggggccaag ggaccctcgt caccgtctcg 360

agcgcctcca ccaagggccc atcggtcttc cccctggcac cctcctccaa gagcacctct 420

gggggcacag cggccctggg ctgcctggtc aaggactact tccccgaacc ggtgacggtg 480

tcgtggaact caggcgccct gaccagcggc gtgcacacct tcccggctgt cctacagtcc 540

tcaggactct actccctcag cagcgtggtg accgtgccct ccagcagctt gggcacccag 600

acctacatct gcaacgtgaa tcacaagccc agcaacacca aggtggacaa gagagttgag 660

cccaaatctt gtgacaaaac tcacacatgc ccaccgtgcc cagcacctga actcctgggg 720

ggaccgtcag tcttcctctt ccccccaaaa cccaaggaca ccctcatgat ctcccggacc 780

cctgaggtca catgcgtggt ggtggacgtg agccacgaag accctgaggt caagttcaac 840

tggtacgtgg acggcgtgga ggtgcataat gccaagacaa agccgcggga ggagcagtac 900

gccagcacgt accgtgtggt cagcgtcctc accgtcctgc accaggactg gctgaatggc 960

aaggagtaca agtgcaaggt ctccaacaaa gccctcccag cccccatcga gaaaaccatc 1020

tccaaagcca aagggcagcc ccgagaacca caggtgtaca ccctgccccc atcccgggag 1080

gagatgacca agaaccaggt cagcctgacc tgcctggtca aaggcttcta tcccagcgac 1140

atcgccgtgg agtgggagag caatgggcag ccggagaaca actacaagac cacgcctccc 1200

gtgctggact ccgacggctc cttcttcctc tacagcaagc tcaccgtgga caagagcagg 1260

tggcagcagg ggaacgtctt ctcatgctcc gtgatgcatg aggctctgca caaccactac 1320

acgcagaaga gcctctccct gtctccgggt aaa 1353

<210> 452
<211> 363
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 452
gaggtgcagc ttgtggagtc tgggggaggc ttggtccagc ctgggggggtc cctgagactc 60

tcctgtgcag cctctggatt caccgtcagt agcagttact ggatatgctg ggtccgtcag 120

gctccaggga aggggctgga gtggatcgca tgcattcgtg ctggtggtgg gaattactac 180

gctaactctg ctaaaggccg attcaccatc tccagagaca attccaagaa caccctgtat 240

cttcaaatga acagcctgag agctgaggac actgctgtgt attactgtgc tagcgatatc 300

aatgatgggt ggcttggcca attcaacttg tggggccaag ggaccctcgt caccgtctcg 360

agc 363

<210> 453
<211> 90
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 453
gaggtgcagc ttgtggagtc tgggggaggc ttggtccagc ctgggggggtc cctgagactc 60

tcctgtgcag cctctggatt caccgtcagt 90

<210> 454
<211> 18
<212> DNA
<213> Oryctolagus cuniculus

<400> 454
agcagttact ggatatgc 18

<210> 455
<211> 42
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 455
tgggtccgtc aggctccagg gaaggggctg gagtggatcg ca 42

<210> 456
<211> 48
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 456
tgcattcgtg ctggtggtgg gaattactac gctaactctg ctaaaggc 48

<210> 457
<211> 96
<212> DNA
<213> Artificial

<220>

<223> Humanized Antibody Sequence

<400> 457
cgattcacca tctccagaga caattccaag aacaccctgt atcttcaaat gaacagcctg 60

agagctgagg acactgctgt gtattactgt gctagc 96

<210> 458
<211> 36
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 458
gatatcaatg atgggtggct tggccaattc aacttg 36

<210> 459
<211> 33
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 459
tggggccaag ggaccctcgt caccgtctcg agc 33

<210> 460
<211> 990
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 460
gcctccacca agggcccatc ggtcttcccc ctggcaccct cctccaagag cacctctggg 60

ggcacagcgg ccctgggctg cctggtcaag gactacttcc ccgaaccggt gacggtgtcg 120

tggaactcag gcgccctgac cagcggcgtg cacaccttcc cggctgtcct acagtcctca 180

ggactctact ccctcagcag cgtggtgacc gtgccctcca gcagcttggg cacccagacc 240

tacatctgca acgtgaatca caagcccagc aacaccaagg tggacaagag agttgagccc 300

aaatcttgtg acaaaactca cacatgccca ccgtgcccag cacctgaact cctgggggga 360

ccgtcagtct tcctcttccc cccaaaaccc aaggacaccc tcatgatctc ccggacccct 420

gaggtcacat gcgtggtggt ggacgtgagc cacgaagacc ctgaggtcaa gttcaactgg 480

tacgtggacg gcgtggaggt gcataatgcc aagacaaagc cgcgggagga gcagtacgcc 540

agcacgtacc gtgtggtcag cgtcctcacc gtcctgcacc aggactggct gaatggcaag 600

gagtacaagt gcaaggtctc caacaaagcc ctcccagccc ccatcgagaa aaccatctcc 660

aaagccaaag ggcagccccg agaaccacag gtgtacaccc tgcccccatc ccgggaggag 720

atgaccaaga accaggtcag cctgacctgc ctggtcaaag gcttctatcc cagcgacatc 780

gccgtggagt gggagagcaa tgggcagccg gagaacaact acaagaccac gcctcccgtg 840

ctggactccg acggctcctt cttcctctac agcaagctca ccgtggacaa gagcaggtgg 900

cagcagggga acgtcttctc atgctccgtg atgcatgagg ctctgcacaa ccactacacg 960

cagaagagcc tctccctgtc tccgggtaaa 990

<210> 461
<211> 220
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 461

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

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

Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Val Pro Lys Leu Leu
35 40 45

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

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

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

Thr Val Ala Tyr Gly Asn Thr Phe Gly Gly Gly Thr Lys Val Glu Ile
100 105 110

Lys Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp
115 120 125

Glu Gln Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn
130 135 140

```
Phe Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu
145                 150                 155                 160

Gln Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp
                165                 170                 175

Ser Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr
            180                 185                 190

Glu Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser
        195                 200                 205

Ser Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
    210                 215                 220


<210>  462
<211>  113
<212>  PRT
<213>  Artificial

<220>
<223>  Humanized Antibody Sequence

<400>  462

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

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

Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Val Pro Lys Leu Leu
        35                  40                  45

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

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

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

Thr Val Ala Tyr Gly Asn Thr Phe Gly Gly Gly Thr Lys Val Glu Ile
            100                 105                 110

Lys
```

<210> 463
<211> 24
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 463

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

Gly Asp Arg Val Thr Ile Lys Cys
20

<210> 464
<211> 11
<212> PRT
<213> Oryctolagus cuniculus

<400> 464

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

<210> 465
<211> 15
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 465

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

<210> 466
<211> 7
<212> PRT
<213> Oryctolagus cuniculus

<400> 466

Arg Thr Ser Thr Leu Ala Ser
1 5

<210> 467
<211> 32
<212> PRT
<213> Artificial

<220>

<223> Humanized Antibody Sequence

<400> 467

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 Val Ala Thr Tyr Tyr Cys
            20   25   30

<210> 468
<211> 14
<212> PRT
<213> Oryctolagus cuniculus

<400> 468

Gln Ser Tyr Tyr Ser Val Thr Thr Val Ala Tyr Gly Asn Thr
1   5   10

<210> 469
<211> 10
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 469

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

<210> 470
<211> 107
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 470

Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu
1   5   10   15

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

Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln
        35   40   45

Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser
    50   55   60

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

Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser
85 90 95

Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
100 105

<210> 471
<211> 660
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 471
gccaacattg tgatgaccca gtctccatcc tccctgtctg catctgtagg agacagagtc 60

accatcaagt gccaggccag tcagagcatt agtaattact tagcctggta tcagcagaaa 120

ccagggaaag tccctaagct cctgatctat aggacatcca ctctggcatc tggggtccca 180

tctcgtttca gtggcagtgg atctgggaca gatttcactc tcaccatcag cagcctgcag 240

cctgaagatg ttgcaactta ttactgtcaa agctactatt ccgttactac tgttgcttat 300

ggaaatactt tcggcggagg aaccaaggtg gaaatcaaac gtacggtggc tgcaccatct 360

gtcttcatct tcccgccatc tgatgagcag ttgaaatctg gaactgcctc tgttgtgtgc 420

ctgctgaata acttctatcc cagagaggcc aaagtacagt ggaaggtgga taacgccctc 480

caatcgggta actcccagga gagtgtcaca gagcaggaca gcaaggacag cacctacagc 540

ctcagcagca ccctgacgct gagcaaagca gactacgaga aacacaaagt ctacgcctgc 600

gaagtcaccc atcagggcct gagctcgccc gtcacaaaga gcttcaacag gggagagtgt 660

<210> 472
<211> 339
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 472
gccaacattg tgatgaccca gtctccatcc tccctgtctg catctgtagg agacagagtc 60

accatcaagt gccaggccag tcagagcatt agtaattact tagcctggta tcagcagaaa 120

ccagggaaag tccctaagct cctgatctat aggacatcca ctctggcatc tggggtccca 180

tctcgtttca gtggcagtgg atctgggaca gatttcactc tcaccatcag cagcctgcag 240

cctgaagatg ttgcaactta ttactgtcaa agctactatt ccgttactac tgttgcttat 300

ggaaatactt tcggcggagg aaccaaggtg gaaatcaaa 339

<210> 473
<211> 72
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 473
gccaacattg tgatgaccca gtctccatcc tccctgtctg catctgtagg agacagagtc 60

accatcaagt gc 72

<210> 474
<211> 33
<212> DNA
<213> Oryctolagus cuniculus

<400> 474
caggccagtc agagcattag taattactta gcc 33

<210> 475
<211> 45
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 475
tggtatcagc agaaaccagg gaaagtccct aagctcctga tctat 45

<210> 476
<211> 21
<212> DNA
<213> Oryctolagus cuniculus

<400> 476
aggacatcca ctctggcatc t 21

<210> 477
<211> 96
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 477
ggggtcccat ctcgtttcag tggcagtgga tctgggacag atttcactct caccatcagc 60

agcctgcagc ctgaagatgt tgcaacttat tactgt 96

<210> 478
<211> 42
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 478
caaagctact attccgttac tactgttgct tatggaaata ct 42

<210> 479
<211> 30
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 479
ttcggcggag gaaccaaggt ggaaatcaaa 30

<210> 480
<211> 321
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 480
cgtacggtgg ctgcaccatc tgtcttcatc ttcccgccat ctgatgagca gttgaaatct 60

ggaactgcct ctgttgtgtg cctgctgaat aacttctatc ccagagaggc caaagtacag 120

tggaaggtgg ataacgccct ccaatcgggt aactcccagg agagtgtcac agagcaggac 180

agcaaggaca gcacctacag cctcagcagc accctgacgc tgagcaaagc agactacgag 240

aaacacaaag tctacgcctg cgaagtcacc catcagggcc tgagctcgcc cgtcacaaag 300

agcttcaaca ggggagagtg t 321

<210> 481
<211> 450
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 481

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 Thr Val Ser Gly Ile Asp Leu Ser Thr Tyr Gly
            20                  25                  30

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

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

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

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

Trp Ser Ser Thr Thr Gly Tyr Tyr Gly Tyr Phe Asn Met Trp Gly Pro
            100                 105                 110

Gly Thr Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val
        115                 120                 125

Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala Ala
    130                 135                 140

Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser
145                 150                 155                 160

Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala Val
                165                 170                 175

Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro
            180                 185                 190

Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His Lys
        195                 200                 205

Pro Ser Asn Thr Lys Val Asp Lys Arg Val Glu Pro Lys Ser Cys Asp
    210                 215                 220

Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly
225                 230                 235                 240

Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile
                245                 250                 255
```

```
Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His Glu
            260                 265                 270

Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His
        275                 280                 285

Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Ala Ser Thr Tyr Arg
    290                 295                 300

Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys
305                 310                 315                 320

Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu
                325                 330                 335

Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr
            340                 345                 350

Thr Leu Pro Pro Ser Arg Glu Glu Met Thr Lys Asn Gln Val Ser Leu
        355                 360                 365

Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp
    370                 375                 380

Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val
385                 390                 395                 400

Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp
                405                 410                 415

Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His
            420                 425                 430

Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro
        435                 440                 445

Gly Lys
    450
```

<210> 482
<211> 120
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 482

```
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 Thr Val Ser Gly Ile Asp Leu Ser Thr Tyr Gly
            20                  25                  30

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

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

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

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

Trp Ser Ser Thr Thr Gly Tyr Tyr Gly Tyr Phe Asn Met Trp Gly Pro
            100                 105                 110

Gly Thr Leu Val Thr Val Ser Ser
        115                 120
```

<210> 483
<211> 29
<212> PRT
<213> Oryctolagus cuniculus

<400> 483

```
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 Thr Val Ser Gly Ile Asp Leu Ser
            20                  25
```

<210> 484
<211> 5
<212> PRT
<213> Oryctolagus cuniculus

<400> 484

```
Thr Tyr Gly Val Gly
1               5
```

<210> 485
<211> 14
<212> PRT
<213> Oryctolagus cuniculus

<400> 485

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

<210> 486
<211> 16
<212> PRT
<213> Oryctolagus cuniculus

<400> 486

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

<210> 487
<211> 31
<212> PRT
<213> Oryctolagus cuniculus

<400> 487

Arg Phe Thr Ile Ser Lys Thr Ser Ser Thr Thr Val Asp Leu Lys Met
1 5 10 15

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

<210> 488
<211> 14
<212> PRT
<213> Oryctolagus cuniculus

<400> 488

Asp Trp Ser Ser Thr Thr Gly Tyr Tyr Gly Tyr Phe Asn Met
1 5 10

<210> 489
<211> 11
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 489

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

<210> 490
<211> 330
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 490

```
Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser Lys
1               5                  10                  15

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

Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser
        35                  40                  45

Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser
    50                  55                  60

Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr
65                  70                  75                  80

Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys
                85                  90                  95

Arg Val Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys
            100                 105                 110

Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro
        115                 120                 125

Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys
    130                 135                 140

Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp
145                 150                 155                 160

Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu
                165                 170                 175

Glu Gln Tyr Ala Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu
            180                 185                 190

His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn
        195                 200                 205
```

```
Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly
    210                 215                 220

Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu
225                 230                 235                 240

Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr
                245                 250                 255

Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn
            260                 265                 270

Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe
        275                 280                 285

Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn
    290                 295                 300

Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr
305                 310                 315                 320

Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
                325                 330
```

<210> 491
<211> 1350
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 491

```
cagtcggtgg aggagtccgg gggtcgcctg gtcacgcctg ggacacccct gacactcacc       60

tgcacagtct ctggaatcga cctcagtacc tatggagtgg gctgggtccg ccaggctcca      120

gggaaggggc tggaatacat cggaatcatt agtagtagtg gtagcacata ctacgcgagc      180

tgggcgaaag gccgattcac catctccaaa acctcgtcga ccacggtgga tctgaaaatg      240

accagtctga caaccgagga cacggccacc tatttctgtg ccagagattg gtctagtact      300

actggttatt atgggtattt taatatgtgg ggcccgggca ccctcgtcac cgtctcgagc      360

gcctccacca agggcccatc ggtcttcccc ctggcaccct cctccaagag cacctctggg      420

ggcacagcgg ccctgggctg cctggtcaag gactacttcc ccgaaccggt gacggtgtcg      480

tggaactcag gcgccctgac cagcggcgtg cacaccttcc cggctgtcct acagtcctca      540
```

ggactctact ccctcagcag cgtggtgacc gtgccctcca gcagcttggg cacccagacc 600

tacatctgca acgtgaatca caagcccagc aacaccaagg tggacaagag agttgagccc 660

aaatcttgtg acaaaactca cacatgccca ccgtgcccag cacctgaact cctgggggga 720

ccgtcagtct tcctcttccc cccaaaaccc aaggacaccc tcatgatctc ccggacccct 780

gaggtcacat gcgtggtggt ggacgtgagc cacgaagacc ctgaggtcaa gttcaactgg 840

tacgtggacg gcgtggaggt gcataatgcc aagacaaagc cgcgggagga gcagtacgcc 900

agcacgtacc gtgtggtcag cgtcctcacc gtcctgcacc aggactggct gaatggcaag 960

gagtacaagt gcaaggtctc caacaaagcc ctcccagccc ccatcgagaa aaccatctcc 1020

aaagccaaag ggcagccccg agaaccacag gtgtacaccc tgcccccatc ccgggaggag 1080

atgaccaaga accaggtcag cctgacctgc ctggtcaaag gcttctatcc cagcgacatc 1140

gccgtggagt gggagagcaa tgggcagccg gagaacaact acaagaccac gcctcccgtg 1200

ctggactccg acggctcctt cttcctctac agcaagctca ccgtggacaa gagcaggtgg 1260

cagcagggga acgtcttctc atgctccgtg atgcatgagg ctctgcacaa ccactacacg 1320

cagaagagcc tctccctgtc tccgggtaaa 1350

<210> 492
<211> 360
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 492
cagtcggtgg aggagtccgg gggtcgcctg gtcacgcctg ggacacccct gacactcacc 60

tgcacagtct ctggaatcga cctcagtacc tatggagtgg gctgggtccg ccaggctcca 120

gggaaggggc tggaatacat cggaatcatt agtagtagtg gtagcacata ctacgcgagc 180

tgggcgaaag gccgattcac catctccaaa acctcgtcga ccacggtgga tctgaaaatg 240

accagtctga caaccgagga cacggccacc tatttctgtg ccagagattg gtctagtact 300

actggttatt atgggtattt taatatgtgg ggcccgggca ccctcgtcac cgtctcgagc 360

<210> 493
<211> 87
<212> DNA
<213> Oryctolagus cuniculus

<400> 493
cagtcggtgg aggagtccgg gggtcgcctg gtcacgcctg ggacacccct gacactcacc 60

tgcacagtct ctggaatcga cctcagt 87

<210> 494
<211> 15
<212> DNA
<213> Oryctolagus cuniculus

<400> 494
acctatggag tgggc 15

<210> 495
<211> 42
<212> DNA
<213> Oryctolagus cuniculus

<400> 495
tgggtccgcc aggctccagg gaaggggctg gaatacatcg ga 42

<210> 496
<211> 48
<212> DNA
<213> Oryctolagus cuniculus

<400> 496
atcattagta gtagtggtag cacatactac gcgagctggg cgaaaggc 48

<210> 497
<211> 93
<212> DNA
<213> Oryctolagus cuniculus

<400> 497
cgattcacca tctccaaaac ctcgtcgacc acggtggatc tgaaaatgac cagtctgaca 60

accgaggaca cggccaccta tttctgtgcc aga 93

<210> 498
<211> 42
<212> DNA
<213> Oryctolagus cuniculus

<400> 498
gattggtcta gtactactgg ttattatggg tattttaata tg 42

<210> 499
<211> 33
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 499
tggggcccgg gcaccctcgt caccgtctcg agc 33

<210> 500

<211> 990
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 500
gcctccacca agggcccatc ggtcttcccc ctggcaccct cctccaagag cacctctggg 60

ggcacagcgg ccctgggctg cctggtcaag gactacttcc ccgaaccggt gacggtgtcg 120

tggaactcag gcgccctgac cagcggcgtg cacaccttcc cggctgtcct acagtcctca 180

ggactctact ccctcagcag cgtggtgacc gtgccctcca gcagcttggg cacccagacc 240

tacatctgca acgtgaatca caagcccagc aacaccaagg tggacaagag agttgagccc 300

aaatcttgtg acaaaactca cacatgccca ccgtgcccag cacctgaact cctgggggga 360

ccgtcagtct tcctcttccc cccaaaaccc aaggacaccc tcatgatctc ccggaccccct 420

gaggtcacat gcgtggtggt ggacgtgagc cacgaagacc ctgaggtcaa gttcaactgg 480

tacgtggacg gcgtggaggt gcataatgcc aagacaaagc cgcgggagga gcagtacgcc 540

agcacgtacc gtgtggtcag cgtcctcacc gtcctgcacc aggactggct gaatggcaag 600

gagtacaagt gcaaggtctc caacaaagcc ctcccagccc ccatcgagaa aaccatctcc 660

aaagccaaag ggcagccccg agaaccacag gtgtacaccc tgcccccatc ccgggaggag 720

atgaccaaga accaggtcag cctgacctgc ctggtcaaag gcttctatcc cagcgacatc 780

gccgtggagt gggagagcaa tgggcagccg gagaacaact acaagaccac gcctcccgtg 840

ctggactccg acggctcctt cttcctctac agcaagctca ccgtggacaa gagcaggtgg 900

cagcagggga acgtcttctc atgctccgtg atgcatgagg ctctgcacaa ccactacacg 960

cagaagagcc tctccctgtc tccgggtaaa 990

<210> 501
<211> 215
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 501

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

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

```
Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Pro Pro Lys Leu Leu Ile
        35                  40                  45

Tyr Gly Ala Ser Asn Leu Glu Ser Gly Val Pro Ser Arg Phe Ser Gly
    50                  55                  60

Ser Gly Ser Gly Thr Gln Phe Thr Leu Thr Ile Ser Asp Leu Glu Cys
65                  70                  75                  80

Ala Asp Ala Ala Ile Tyr Tyr Cys Gln Ser Ser Tyr Gly Ser Ser Thr
                85                  90                  95

Leu Ala Phe Gly Gly Gly Thr Glu Val Val Val Lys Arg Thr Val Ala
            100                 105                 110

Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu Lys Ser
        115                 120                 125

Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro Arg Glu
    130                 135                 140

Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly Asn Ser
145                 150                 155                 160

Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr Ser Leu
                165                 170                 175

Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys His Lys Val
            180                 185                 190

Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro Val Thr Lys
        195                 200                 205

Ser Phe Asn Arg Gly Glu Cys
    210                 215


<210>  502
<211>  108
<212>  PRT
<213>  Artificial

<220>
<223>  Humanized Antibody Sequence

<400>  502

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

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

Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Pro Pro Lys Leu Leu Ile
        35                  40                  45

Tyr Gly Ala Ser Asn Leu Glu Ser Gly Val Pro Ser Arg Phe Ser Gly
    50                  55                  60

Ser Gly Ser Gly Thr Gln Phe Thr Leu Thr Ile Ser Asp Leu Glu Cys
65                  70                  75                  80

Ala Asp Ala Ala Ile Tyr Tyr Cys Gln Ser Ser Tyr Gly Ser Ser Thr
                85                  90                  95

Leu Ala Phe Gly Gly Gly Thr Glu Val Val Val Lys
            100                 105
```

<210> 503
<211> 23
<212> PRT
<213> Oryctolagus cuniculus

<400> 503

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

Gly Thr Val Thr Ile Lys Cys
            20
```

<210> 504
<211> 11
<212> PRT
<213> Oryctolagus cuniculus

<400> 504

```
Gln Ala Ser Gln Ser Ile Ser Thr Ala Leu Ala
1               5                   10
```

<210> 505
<211> 15
<212> PRT
<213> Oryctolagus cuniculus

<400> 505

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

<210> 506
<211> 7
<212> PRT
<213> Oryctolagus cuniculus

<400> 506

Gly Ala Ser Asn Leu Glu Ser
1 5

<210> 507
<211> 32
<212> PRT
<213> Oryctolagus cuniculus

<400> 507

Gly Val Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Gln Phe Thr
1 5 10 15

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

<210> 508
<211> 10
<212> PRT
<213> Oryctolagus cuniculus

<400> 508

Gln Ser Ser Tyr Gly Ser Ser Thr Leu Ala
1 5 10

<210> 509
<211> 10
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 509

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

<210> 510
<211> 107
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 510

```
Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu
1               5                  10                  15

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

Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln
        35                  40                  45

Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser
    50                  55                  60

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

Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser
                85                  90                  95

Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
            100                 105
```

<210> 511
<211> 645
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 511

```
gcattcgaat tgacccagac tccatccccc gtgtctgcag ctgtgggagg cacagtcacc       60

atcaagtgcc aggccagtca gagcattagc actgcattag cctggtatca gcagaaacca      120

gggcagcctc ccaagctcct gatctatggt gcatccaatc tggaatctgg ggtcccatcg      180

cggttcagcg gcagtggatc tgggacacag ttcactctca ccatcagcga cctggagtgt      240

gccgatgctg ccatttacta ctgtcaaagc tcttatggta gtagtacttt ggctttcggc      300

ggagggaccg aggtggtggt caaacgtacg gtagcggccc catctgtctt catcttcccg      360

ccatctgatg agcagttgaa atctggaact gcctctgttg tgtgcctgct gaataacttc      420

tatcccagag aggccaaagt acagtggaag gtggataacg ccctccaatc gggtaactcc      480

caggagagtg tcacagagca ggacagcaag gacagcacct acagcctcag cagcaccctg      540

acgctgagca aagcagacta cgagaaacac aaagtctacg cctgcgaagt cacccatcag      600

ggcctgagct cgcccgtcac aaagagcttc aacaggggag agtgt                      645
```

<210> 512
<211> 324
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 512
gcattcgaat tgacccagac tccatccccc gtgtctgcag ctgtgggagg cacagtcacc 60

atcaagtgcc aggccagtca gagcattagc actgcattag cctggtatca gcagaaacca 120

gggcagcctc ccaagctcct gatctatggt gcatccaatc tggaatctgg ggtcccatcg 180

cggttcagcg gcagtggatc tgggacacag ttcactctca ccatcagcga cctggagtgt 240

gccgatgctg ccatttacta ctgtcaaagc tcttatggta gtagtacttt ggctttcggc 300

ggagggaccg aggtggtggt caaa 324

<210> 513
<211> 69
<212> DNA
<213> Oryctolagus cuniculus

<400> 513
gcattcgaat tgacccagac tccatccccc gtgtctgcag ctgtgggagg cacagtcacc 60

atcaagtgc 69

<210> 514
<211> 33
<212> DNA
<213> Oryctolagus cuniculus

<400> 514
caggccagtc agagcattag cactgcatta gcc 33

<210> 515
<211> 45
<212> DNA
<213> Oryctolagus cuniculus

<400> 515
tggtatcagc agaaaccagg gcagcctccc aagctcctga tctat 45

<210> 516
<211> 21
<212> DNA
<213> Oryctolagus cuniculus

<400> 516
ggtgcatcca atctggaatc t 21

<210> 517

<211> 96
<212> DNA
<213> Oryctolagus cuniculus

<400> 517
ggggtcccat cgcggttcag cggcagtgga tctgggacac agttcactct caccatcagc 60

gacctggagt gtgccgatgc tgccatttac tactgt 96

<210> 518
<211> 30
<212> DNA
<213> Oryctolagus cuniculus

<400> 518
caaagctctt atggtagtag tactttggct 30

<210> 519
<211> 30
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 519
ttcggcggag ggaccgaggt ggtggtcaaa 30

<210> 520
<211> 321
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 520
cgtacggtag cggccccatc tgtcttcatc ttcccgccat ctgatgagca gttgaaatct 60

ggaactgcct ctgttgtgtg cctgctgaat aacttctatc ccagagaggc caaagtacag 120

tggaaggtgg ataacgccct ccaatcgggt aactcccagg agagtgtcac agagcaggac 180

agcaaggaca gcacctacag cctcagcagc accctgacgc tgagcaaagc agactacgag 240

aaacacaaag tctacgcctg cgaagtcacc catcagggcc tgagctcgcc cgtcacaaag 300

agcttcaaca ggggagagtg t 321

<210> 521
<211> 451
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 521

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

Ser Leu Thr Leu Thr Cys Thr Gly Ser Gly Phe Ser Phe Ser Ser Ile
            20                  25                  30

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

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

Ala Lys Gly Arg Phe Thr Ile Ser Lys Ser Ser Ser Thr Thr Val Thr
65                  70                  75                  80

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

Ala Ser Asp Thr Asn Asn Gly Trp Leu Gly Gln Phe Asn Leu Trp Gly
            100                 105                 110

Gln Gly Thr Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser
        115                 120                 125

Val Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala
    130                 135                 140

Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val
145                 150                 155                 160

Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala
                165                 170                 175

Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val
            180                 185                 190

Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His
        195                 200                 205

Lys Pro Ser Asn Thr Lys Val Asp Lys Arg Val Glu Pro Lys Ser Cys
    210                 215                 220

Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly
225                 230                 235                 240
```

```
Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met
                245                 250                 255

Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His
            260                 265                 270

Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val
        275                 280                 285

His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Ala Ser Thr Tyr
    290                 295                 300

Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly
305                 310                 315                 320

Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile
                325                 330                 335

Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val
            340                 345                 350

Tyr Thr Leu Pro Pro Ser Arg Glu Glu Met Thr Lys Asn Gln Val Ser
        355                 360                 365

Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu
    370                 375                 380

Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro
385                 390                 395                 400

Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val
                405                 410                 415

Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met
            420                 425                 430

His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser
        435                 440                 445

Pro Gly Lys
    450
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<210> 522
<211> 121
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 522

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

Ser Leu Thr Leu Thr Cys Thr Gly Ser Gly Phe Ser Phe Ser Ser Ile
20 25 30

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

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

Ala Lys Gly Arg Phe Thr Ile Ser Lys Ser Ser Ser Thr Thr Val Thr
65 70 75 80

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

Ala Ser Asp Thr Asn Asn Gly Trp Leu Gly Gln Phe Asn Leu Trp Gly
100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 523
<211> 30
<212> PRT
<213> Oryctolagus cuniculus

<400> 523

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

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

<210> 524
<211> 6
<212> PRT
<213> Oryctolagus cuniculus

<400> 524

Ser Ile Ala Tyr Met Cys

1 5

<210> 525
<211> 14
<212> PRT
<213> Oryctolagus cuniculus

<400> 525

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

<210> 526
<211> 17
<212> PRT
<213> Oryctolagus cuniculus

<400> 526

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

Gly

<210> 527
<211> 31
<212> PRT
<213> Oryctolagus cuniculus

<400> 527

Arg Phe Thr Ile Ser Lys Ser Ser Ser Thr Thr Val Thr Leu Gln Met
1 5 10 15

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

<210> 528
<211> 12
<212> PRT
<213> Oryctolagus cuniculus

<400> 528

Asp Thr Asn Asn Gly Trp Leu Gly Gln Phe Asn Leu
1 5 10

<210> 529
<211> 11
<212> PRT
<213> Artificial

<220>

<223> Humanized Antibody Sequence

<400> 529

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

<210> 530
<211> 330
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 530

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

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

Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser
35 40 45

Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser
50 55 60

Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr
65 70 75 80

Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys
85 90 95

Arg Val Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys
100 105 110

Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro
115 120 125

Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys
130 135 140

Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp
145 150 155 160

Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu
165 170 175

```
Glu Gln Tyr Ala Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu
            180                 185                 190

His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn
        195                 200                 205

Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly
    210                 215                 220

Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu
225                 230                 235                 240

Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr
                245                 250                 255

Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn
            260                 265                 270

Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe
        275                 280                 285

Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn
    290                 295                 300

Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr
305                 310                 315                 320

Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
                325                 330
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<210> 531
<211> 1353
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 531
caggagcagc tggaggagtc cgggggagac ctggtcaagc ctgagggatc cctgacactc 60

acctgcacag gttctggatt ctccttcagt agcatcgcct acatgtgctg gatccgccag 120

gctccaggga aggggctgga gtggatcgga tgcattggtt ctggtagtgg gaacacttac 180

tacgcgaact gggcgaaagg ccgattcacc atctccaaaa gctcgtcgac cacggtgact 240

ctgcaaatga ccagtctgac agccgcggac acggccactt atttctgtgc gagcgatact 300

aataatgggt ggcttggcca attcaacttg tggggccagg gcaccctcgt caccgtctcg 360

agcgcctcca ccaagggccc atcggtcttc cccctggcac cctcctccaa gagcacctct 420

gggggcacag cggccctggg ctgcctggtc aaggactact tccccgaacc ggtgacggtg 480

tcgtggaact caggcgccct gaccagcggc gtgcacacct tccccggctgt cctacagtcc 540

tcaggactct actccctcag cagcgtggtg accgtgccct ccagcagctt gggcacccag 600

acctacatct gcaacgtgaa tcacaagccc agcaacacca aggtggacaa gagagttgag 660

cccaaatctt gtgacaaaac tcacacatgc ccaccgtgcc cagcacctga actcctgggg 720

ggaccgtcag tcttcctctt cccccccaaaa cccaaggaca ccctcatgat ctcccggacc 780

cctgaggtca catgcgtggt ggtggacgtg agccacgaag accctgaggt caagttcaac 840

tggtacgtgg acggcgtgga ggtgcataat gccaagacaa agccgcggga ggagcagtac 900

gccagcacgt accgtgtggt cagcgtcctc accgtcctgc accaggactg gctgaatggc 960

aaggagtaca agtgcaaggt ctccaacaaa gccctcccag cccccatcga gaaaaccatc 1020

tccaaagcca aagggcagcc ccgagaacca caggtgtaca ccctgccccc atcccgggag 1080

gagatgacca agaaccaggt cagcctgacc tgcctggtca aaggcttcta tcccagcgac 1140

atcgccgtgg agtgggagag caatgggcag ccggagaaca actacaagac cacgcctccc 1200

gtgctggact ccgacggctc cttcttcctc tacagcaagc tcaccgtgga caagagcagg 1260

tggcagcagg ggaacgtctt ctcatgctcc gtgatgcatg aggctctgca caaccactac 1320

acgcagaaga gcctctccct gtctccgggt aaa 1353

<210> 532
<211> 363
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 532
caggagcagc tggaggagtc cgggggagac ctggtcaagc ctgagggatc cctgacactc 60

acctgcacag gttctggatt ctccttcagt agcatcgcct acatgtgctg gatccgccag 120

gctccaggga aggggctgga gtggatcgga tgcattggtt ctggtagtgg gaacacttac 180

tacgcgaact gggcgaaagg ccgattcacc atctccaaaa gctcgtcgac cacggtgact 240

ctgcaaatga ccagtctgac agccgcggac acggccactt atttctgtgc gagcgatact 300

aataatgggt ggcttggcca attcaacttg tggggccagg gcaccctcgt caccgtctcg 360

agc 363

<210> 533

<211> 90
<212> DNA
<213> Oryctolagus cuniculus

<400> 533
caggagcagc tggaggagtc cgggggagac ctggtcaagc ctgagggatc cctgacactc 60

acctgcacag gttctggatt ctccttcagt 90

<210> 534
<211> 18
<212> DNA
<213> Oryctolagus cuniculus

<400> 534
agcatcgcct acatgtgc 18

<210> 535
<211> 42
<212> DNA
<213> Oryctolagus cuniculus

<400> 535
tggatccgcc aggctccagg gaaggggctg gagtggatcg ga 42

<210> 536
<211> 51
<212> DNA
<213> Oryctolagus cuniculus

<400> 536
tgcattggtt ctggtagtgg gaacacttac tacgcgaact gggcgaaagg c 51

<210> 537
<211> 93
<212> DNA
<213> Oryctolagus cuniculus

<400> 537
cgattcacca tctccaaaag ctcgtcgacc acggtgactc tgcaaatgac cagtctgaca 60

gccgcggaca cggccactta tttctgtgcg agc 93

<210> 538
<211> 36
<212> DNA
<213> Oryctolagus cuniculus

<400> 538
gatactaata atgggtggct tggccaattc aacttg 36

<210> 539
<211> 33
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 539
tggggccagg gcaccctcgt caccgtctcg agc 33

<210> 540
<211> 990
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 540
gcctccacca agggcccatc ggtcttcccc ctggcaccct cctccaagag cacctctggg 60

ggcacagcgg ccctgggctg cctggtcaag gactacttcc ccgaaccggt gacggtgtcg 120

tggaactcag gcgccctgac cagcggcgtg cacaccttcc cggctgtcct acagtcctca 180

ggactctact ccctcagcag cgtggtgacc gtgccctcca gcagcttggg cacccagacc 240

tacatctgca acgtgaatca caagcccagc aacaccaagg tggacaagag agttgagccc 300

aaatcttgtg acaaaactca cacatgccca ccgtgcccag cacctgaact cctgggggga 360

ccgtcagtct tcctcttccc cccaaaaccc aaggacaccc tcatgatctc ccggacccct 420

gaggtcacat gcgtggtggt ggacgtgagc cacgaagacc ctgaggtcaa gttcaactgg 480

tacgtggacg gcgtggaggt gcataatgcc aagacaaagc cgcgggagga gcagtacgcc 540

agcacgtacc gtgtggtcag cgtcctcacc gtcctgcacc aggactggct gaatggcaag 600

gagtacaagt gcaaggtctc caacaaagcc ctcccagccc ccatcgagaa aaccatctcc 660

aaagccaaag ggcagccccg agaaccacag gtgtacaccc tgcccccatc ccgggaggag 720

atgaccaaga accaggtcag cctgacctgc ctggtcaaag gcttctatcc cagcgacatc 780

gccgtggagt gggagagcaa tgggcagccg gagaacaact acaagaccac gcctcccgtg 840

ctggactccg acggctcctt cttcctctac agcaagctca ccgtggacaa gagcaggtgg 900

cagcagggga acgtcttctc atgctccgtg atgcatgagg ctctgcacaa ccactacacg 960

cagaagagcc tctccctgtc tccgggtaaa 990

<210> 541
<211> 220
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 541

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Ala Asp Ile Val Met Thr Gln Thr Pro Ala Ser Val Ser Ala Ala Val
1               5                  10                  15

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

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

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

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

Cys Ala Asp Ala Ala Thr Tyr Tyr Cys Gln Gly Tyr Tyr Ser Val Thr
                85                  90                  95

Thr Asn Thr Tyr Gly Asn Thr Phe Gly Gly Gly Thr Glu Val Val Val
            100                 105                 110

Lys Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp
        115                 120                 125

Glu Gln Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn
    130                 135                 140

Phe Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu
145                 150                 155                 160

Gln Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp
                165                 170                 175

Ser Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr
            180                 185                 190

Glu Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser
        195                 200                 205

Ser Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
    210                 215                 220
```

<210> 542
<211> 113
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 542

Ala Asp Ile Val Met Thr Gln Thr Pro Ala Ser Val Ser Ala Ala Val
1 5 10 15

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

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

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

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

Cys Ala Asp Ala Ala Thr Tyr Tyr Cys Gln Gly Tyr Tyr Ser Val Thr
85 90 95

Thr Asn Thr Tyr Gly Asn Thr Phe Gly Gly Gly Thr Glu Val Val Val
100 105 110

Lys

<210> 543
<211> 24
<212> PRT
<213> Oryctolagus cuniculus

<400> 543

Ala Asp Ile Val Met Thr Gln Thr Pro Ala Ser Val Ser Ala Ala Val
1 5 10 15

Gly Gly Thr Val Thr Ile Asn Cys
20

<210> 544
<211> 11
<212> PRT
<213> Oryctolagus cuniculus

<400> 544

Gln Ala Ser Gln Ser Ile Ser Ser Tyr Leu Ala

1 5 10

<210> 545
<211> 15
<212> PRT
<213> Oryctolagus cuniculus

<400> 545

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

<210> 546
<211> 7
<212> PRT
<213> Oryctolagus cuniculus

<400> 546

Arg Ala Ser Thr Leu Ala Ser
1 5

<210> 547
<211> 32
<212> PRT
<213> Oryctolagus cuniculus

<400> 547

Gly Val Pro Ser Arg Phe Lys Gly Ser Gly Ser Gly Thr Gln Phe Thr
1 5 10 15

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

<210> 548
<211> 14
<212> PRT
<213> Oryctolagus cuniculus

<400> 548

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

<210> 549
<211> 10
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 549

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

<210> 550
<211> 107
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 550

Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu
1 5 10 15

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

Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln
35 40 45

Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser
50 55 60

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

Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser
85 90 95

Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
100 105

<210> 551
<211> 660
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 551
gctgacattg tgatgaccca gactccagcc tcggtgtctg cagctgtggg aggcacagtc 60

accatcaatt gccaggccag tcagagcatt agtagctact tagcctggta tcagcagaaa 120

ccagggcagc ctcccaagct cctgatctac agggcatcca ctctggcatc tggggtccca 180

tcgcggttca aaggcagtgg atctgggaca cagttcactc tcaccatcag cgacctggag 240

tgtgccgatg ctgccactta ctactgtcaa ggctattatt ccgttactac taatacttat 300

ggaaatactt tcggcggagg gaccgaggtg gtggtcaaac gtacggtagc ggccccatct 360

gtcttcatct tcccgccatc tgatgagcag ttgaaatctg gaactgcctc tgttgtgtgc 420

ctgctgaata acttctatcc cagagaggcc aaagtacagt ggaaggtgga taacgccctc 480

caatcgggta actcccagga gagtgtcaca gagcaggaca gcaaggacag cacctacagc 540

ctcagcagca ccctgacgct gagcaaagca gactacgaga aacacaaagt ctacgcctgc 600

gaagtcaccc atcagggcct gagctcgccc gtcacaaaga gcttcaacag gggagagtgt 660

<210> 552
<211> 339
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 552
gctgacattg tgatgaccca gactccagcc tcggtgtctg cagctgtggg aggcacagtc 60

accatcaatt gccaggccag tcagagcatt agtagctact tagcctggta tcagcagaaa 120

ccagggcagc ctcccaagct cctgatctac agggcatcca ctctggcatc tggggtccca 180

tcgcggttca aaggcagtgg atctgggaca cagttcactc tcaccatcag cgacctggag 240

tgtgccgatg ctgccactta ctactgtcaa ggctattatt ccgttactac taatacttat 300

ggaaatactt tcggcggagg gaccgaggtg gtggtcaaa 339

<210> 553
<211> 72
<212> DNA
<213> Oryctolagus cuniculus

<400> 553
gctgacattg tgatgaccca gactccagcc tcggtgtctg cagctgtggg aggcacagtc 60

accatcaatt gc 72

<210> 554
<211> 33
<212> DNA
<213> Oryctolagus cuniculus

<400> 554
caggccagtc agagcattag tagctactta gcc 33

<210> 555
<211> 45
<212> DNA
<213> Oryctolagus cuniculus

<400> 555

tggtatcagc agaaaccagg gcagcctccc aagctcctga tctac 45

<210> 556
<211> 21
<212> DNA
<213> Oryctolagus cuniculus

<400> 556
agggcatcca ctctggcatc t 21

<210> 557
<211> 96
<212> DNA
<213> Oryctolagus cuniculus

<400> 557
ggggtcccat cgcggttcaa aggcagtgga tctgggacac agttcactct caccatcagc 60

gacctggagt gtgccgatgc tgccacttac tactgt 96

<210> 558
<211> 42
<212> DNA
<213> Oryctolagus cuniculus

<400> 558
caaggctatt attccgttac tactaatact tatggaaata ct 42

<210> 559
<211> 30
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 559
ttcggcggag ggaccgaggt ggtggtcaaa 30

<210> 560
<211> 321
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 560
cgtacggtag cggccccatc tgtcttcatc ttcccgccat ctgatgagca gttgaaatct 60

ggaactgcct ctgttgtgtg cctgctgaat aacttctatc ccagagaggc caaagtacag 120

tggaaggtgg ataacgccct ccaatcgggt aactcccagg agagtgtcac agagcaggac 180

agcaaggaca gcacctacag cctcagcagc accctgacgc tgagcaaagc agactacgag 240

aaacacaaag tctacgcctg cgaagtcacc catcagggcc tgagctcgcc cgtcacaaag 300

agcttcaaca ggggagagtg t 321

<210> 561
<211> 452
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 561

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

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

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

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

Trp Ala Lys Gly Arg Phe Thr Ile Ser Lys Ala Ser Ser Thr Thr Val
65 70 75 80

Thr Leu Gln Met Thr Ser Leu Thr Ala Ala Asp Thr Ala Thr Tyr Phe
85 90 95

Cys Ala Ser Asp Leu Asn Asp Gly Trp Leu Gly Gln Phe Asn Leu Trp
100 105 110

Gly Pro Gly Thr Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro
115 120 125

Ser Val Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr
130 135 140

Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr
145 150 155 160

Val Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro
165 170 175

Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr
180 185 190

```
Val Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn
        195                 200                 205

His Lys Pro Ser Asn Thr Lys Val Asp Lys Arg Val Glu Pro Lys Ser
    210                 215                 220

Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu
225                 230                 235                 240

Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu
                245                 250                 255

Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser
            260                 265                 270

His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu
        275                 280                 285

Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Ala Ser Thr
    290                 295                 300

Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn
305                 310                 315                 320

Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro
                325                 330                 335

Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln
            340                 345                 350

Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu Met Thr Lys Asn Gln Val
        355                 360                 365

Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val
    370                 375                 380

Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro
385                 390                 395                 400

Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr
                405                 410                 415

Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val
            420                 425                 430
```

```
Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu
        435                 440                 445


Ser Pro Gly Lys
    450


<210>  562
<211>  122
<212>  PRT
<213>  Artificial

<220>
<223>  Humanized Antibody Sequence

<400>  562

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


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


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


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


Trp Ala Lys Gly Arg Phe Thr Ile Ser Lys Ala Ser Ser Thr Thr Val
65                  70                  75                  80


Thr Leu Gln Met Thr Ser Leu Thr Ala Ala Asp Thr Ala Thr Tyr Phe
                85                  90                  95


Cys Ala Ser Asp Leu Asn Asp Gly Trp Leu Gly Gln Phe Asn Leu Trp
            100                 105                 110


Gly Pro Gly Thr Leu Val Thr Val Ser Ser
        115                 120


<210>  563
<211>  30
<212>  PRT
<213>  Oryctolagus cuniculus

<400>  563

Gln Glu Gln Leu Glu Glu Ser Gly Gly Asp Leu Val Lys Pro Glu Gly
1               5                   10                  15
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Ser Leu Thr Leu Thr Cys Thr Ala Ser Gly Phe Ser Phe Ser
20 25 30

<210> 564
<211> 6
<212> PRT
<213> Oryctolagus cuniculus

<400> 564

Ser Ser Tyr Trp Ile Cys
1 5

<210> 565
<211> 14
<212> PRT
<213> Oryctolagus cuniculus

<400> 565

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

<210> 566
<211> 18
<212> PRT
<213> Oryctolagus cuniculus

<400> 566

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

Lys Gly

<210> 567
<211> 31
<212> PRT
<213> Oryctolagus cuniculus

<400> 567

Arg Phe Thr Ile Ser Lys Ala Ser Ser Thr Thr Val Thr Leu Gln Met
1 5 10 15

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

<210> 568
<211> 12
<212> PRT
<213> Oryctolagus cuniculus

<400> 568

Asp Leu Asn Asp Gly Trp Leu Gly Gln Phe Asn Leu
1 5 10

<210> 569
<211> 11
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 569

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

<210> 570
<211> 330
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 570

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

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

Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser
35 40 45

Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser
50 55 60

Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr
65 70 75 80

Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys
85 90 95

Arg Val Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys
100 105 110

Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro
115 120 125

```
Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys
    130                 135                 140

Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp
145                 150                 155                 160

Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu
                165                 170                 175

Glu Gln Tyr Ala Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu
            180                 185                 190

His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn
        195                 200                 205

Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly
    210                 215                 220

Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu
225                 230                 235                 240

Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr
                245                 250                 255

Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn
            260                 265                 270

Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe
        275                 280                 285

Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn
    290                 295                 300

Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr
305                 310                 315                 320

Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
                325                 330
```

<210> 571
<211> 1356
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 571
caggagcagc tggaggagtc cgggggagac ctggtcaagc ctgagggatc cctgacactc 60

acctgcacag cctctggatt ctccttcagt agcagctact ggatatgctg ggtccgccag 120

gctccaggga agggactgga gtggatcgca tgcattgatg ctggtaatag tggtagcact 180

tactacgcga gctgggcgaa aggccgattc accatctcca aggcctcgtc gaccacggtg 240

actctgcaaa tgaccagtct gacagccgcg gacacggcca cctatttttg tgcgagcgat 300

cttaatgatg ggtggcttgg ccaattcaac ttgtggggcc cgggcaccct cgtcaccgtc 360

tcgagcgcct ccaccaaggg cccatcggtc ttccccctgg caccctcctc caagagcacc 420

tctgggggca cagcggccct gggctgcctg gtcaaggact acttccccga accggtgacg 480

gtgtcgtgga actcaggcgc cctgaccagc ggcgtgcaca ccttcccggc tgtcctacag 540

tcctcaggac tctactccct cagcagcgtg gtgaccgtgc cctccagcag cttgggcacc 600

cagacctaca tctgcaacgt gaatcacaag cccagcaaca ccaaggtgga caagagagtt 660

gagcccaaat cttgtgacaa aactcacaca tgcccaccgt gcccagcacc tgaactcctg 720

gggggaccgt cagtcttcct cttccccccа aaacccaagg acaccctcat gatctcccgg 780

acccctgagg tcacatgcgt ggtggtggac gtgagccacg aagaccctga ggtcaagttc 840

aactggtacg tggacggcgt ggaggtgcat aatgccaaga caaagccgcg ggaggagcag 900

tacgccagca cgtaccgtgt ggtcagcgtc ctcaccgtcc tgcaccagga ctggctgaat 960

ggcaaggagt acaagtgcaa ggtctccaac aaagccctcc cagccccca cgagaaaacc 1020

atctccaaag ccaaagggca gccccgagaa ccacaggtgt acaccctgcc cccatcccgg 1080

gaggagatga ccaagaacca ggtcagcctg acctgcctgg tcaaaggctt ctatcccagc 1140

gacatcgccg tggagtggga gagcaatggg cagccggaga acaactacaa gaccacgcct 1200

cccgtgctgg actccgacgg ctccttcttc ctctacagca agctcaccgt ggacaagagc 1260

aggtggcagc aggggaacgt cttctcatgc tccgtgatgc atgaggctct gcacaaccac 1320

tacacgcaga agagcctctc cctgtctccg ggtaaa 1356

<210> 572
<211> 366
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 572
caggagcagc tggaggagtc cgggggagac ctggtcaagc ctgagggatc cctgacactc 60

acctgcacag cctctggatt ctccttcagt agcagctact ggatatgctg ggtccgccag 120

gctccaggga agggactgga gtggatcgca tgcattgatg ctggtaatag tggtagcact 180

tactacgcga gctgggcgaa aggccgattc accatctcca aggcctcgtc gaccacggtg 240

actctgcaaa tgaccagtct gacagccgcg gacacggcca cctatttttg tgcgagcgat 300

cttaatgatg ggtggcttgg ccaattcaac ttgtggggcc cgggcaccct cgtcaccgtc 360

tcgagc 366

<210> 573
<211> 90
<212> DNA
<213> Oryctolagus cuniculus

<400> 573
caggagcagc tggaggagtc cgggggagac ctggtcaagc ctgagggatc cctgacactc 60

acctgcacag cctctggatt ctccttcagt 90

<210> 574
<211> 18
<212> DNA
<213> Oryctolagus cuniculus

<400> 574
agcagctact ggatatgc 18

<210> 575
<211> 42
<212> DNA
<213> Oryctolagus cuniculus

<400> 575
tgggtccgcc aggctccagg gaagggactg gagtggatcg ca 42

<210> 576
<211> 54
<212> DNA
<213> Oryctolagus cuniculus

<400> 576
tgcattgatg ctggtaatag tggtagcact tactacgcga gctgggcgaa aggc 54

<210> 577
<211> 93
<212> DNA
<213> Oryctolagus cuniculus

<400> 577
cgattcacca tctccaaggc ctcgtcgacc acggtgactc tgcaaatgac cagtctgaca 60

gccgcggaca cggccaccta tttttgtgcg agc 93

<210> 578
<211> 36
<212> DNA
<213> Oryctolagus cuniculus

<400> 578
gatcttaatg atgggtggct tggccaattc aacttg 36

<210> 579
<211> 33
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 579
tggggcccgg gcaccctcgt caccgtctcg agc 33

<210> 580
<211> 990
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 580
gcctccacca agggcccatc ggtcttcccc ctggcaccct cctccaagag cacctctggg 60

ggcacagcgg ccctgggctg cctggtcaag gactacttcc ccgaaccggt gacggtgtcg 120

tggaactcag gcgccctgac cagcggcgtg cacaccttcc cggctgtcct acagtcctca 180

ggactctact ccctcagcag cgtggtgacc gtgccctcca gcagcttggg cacccagacc 240

tacatctgca acgtgaatca caagcccagc aacaccaagg tggacaagag agttgagccc 300

aaatcttgtg acaaaactca cacatgccca ccgtgcccag cacctgaact cctgggggga 360

ccgtcagtct tcctcttccc cccaaaaccc aaggacaccc tcatgatctc ccggacccct 420

gaggtcacat gcgtggtggt ggacgtgagc cacgaagacc ctgaggtcaa gttcaactgg 480

tacgtggacg gcgtggaggt gcataatgcc aagacaaagc cgcgggagga gcagtacgcc 540

agcacgtacc gtgtggtcag cgtcctcacc gtcctgcacc aggactggct gaatggcaag 600

gagtacaagt gcaaggtctc caacaaagcc ctcccagccc ccatcgagaa aaccatctcc 660

aaagccaaag ggcagccccg agaaccacag gtgtacaccc tgcccccatc ccgggaggag 720

atgaccaaga accaggtcag cctgacctgc ctggtcaaag gcttctatcc cagcgacatc 780

gccgtggagt gggagagcaa tgggcagccg gagaacaact acaagaccac gcctcccgtg 840

ctggactccg acggctcctt cttcctctac agcaagctca ccgtggacaa gagcaggtgg 900

cagcagggga acgtcttctc atgctccgtg atgcatgagg ctctgcacaa ccactacacg 960

cagaagagcc tctccctgtc tccgggtaaa 990

<210> 581
<211> 220
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 581

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

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

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

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

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

Cys Ala Asp Ala Ala Thr Tyr Tyr Cys Gln Ser Tyr Tyr Ser Val Thr
85 90 95

Thr Asn Thr Tyr Gly Asn Thr Phe Gly Gly Gly Thr Glu Val Val Val
100 105 110

Lys Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp
115 120 125

Glu Gln Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn
130 135 140

Phe Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu
145 150 155 160

Gln Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp
165 170 175

Ser Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr
180 185 190

```
Glu Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser
        195                 200                 205

Ser Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
    210                 215                 220
```

<210> 582
<211> 113
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 582

```
Ala Asn Ile Val Met Thr Gln Thr Pro Ser Pro Val Ser Gly Ala Val
1               5                   10                  15

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

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

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

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

Cys Ala Asp Ala Ala Thr Tyr Tyr Cys Gln Ser Tyr Tyr Ser Val Thr
                85                  90                  95

Thr Asn Thr Tyr Gly Asn Thr Phe Gly Gly Gly Thr Glu Val Val Val
            100                 105                 110

Lys
```

<210> 583
<211> 24
<212> PRT
<213> Oryctolagus cuniculus

<400> 583

```
Ala Asn Ile Val Met Thr Gln Thr Pro Ser Pro Val Ser Gly Ala Val
1               5                   10                  15
```

Gly Gly Thr Val Thr Ile Lys Cys
            20

<210> 584
<211> 11
<212> PRT
<213> Oryctolagus cuniculus

<400> 584

Gln Ala Ser Gln Ser Ile Ser Asp Tyr Leu Ala
1   5   10

<210> 585
<211> 15
<212> PRT
<213> Oryctolagus cuniculus

<400> 585

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

<210> 586
<211> 7
<212> PRT
<213> Oryctolagus cuniculus

<400> 586

Arg Ala Ser Thr Leu Ala Ser
1   5

<210> 587
<211> 32
<212> PRT
<213> Oryctolagus cuniculus

<400> 587

Gly Val Pro Ser Arg Phe Arg Gly Ser Gly Ser Gly Thr Glu Tyr Thr
1   5   10   15

Leu Thr Ile Thr Asp Leu Glu Cys Ala Asp Ala Ala Thr Tyr Tyr Cys
            20   25   30

<210> 588
<211> 14
<212> PRT
<213> Oryctolagus cuniculus

<400> 588

Gln Ser Tyr Tyr Ser Val Thr Thr Asn Thr Tyr Gly Asn Thr

1 5 10

<210> 589
<211> 10
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 589

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

<210> 590
<211> 107
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 590

Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu
1 5 10 15

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

Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln
35 40 45

Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser
50 55 60

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

Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser
85 90 95

Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
100 105

<210> 591
<211> 660
<212> DNA
<213> Artificial

<220>

<223> Humanized Antibody Sequence

<400> 591
gccaacatcg tgatgaccca gactccatcc cccgtgtctg gagctgtggg aggcacagtc 60

accatcaagt gccaggccag tcagagcatt agtgactact tagcctggta tcagcagaaa 120

ccagggcagc ctcccaaact cctgatctac agggcatcca ctctggcatc tggggtccca 180

tcgcggttca gaggcagtgg atctgggaca gagtacactc tcaccatcac cgacctggag 240

tgtgccgatg ctgccactta ctactgtcaa agctattatt ccgttactac taatacttat 300

ggaaatactt tcggcggagg gaccgaggtg gtggtcaaac gtacggtagc ggccccatct 360

gtcttcatct tcccgccatc tgatgagcag ttgaaatctg gaactgcctc tgttgtgtgc 420

ctgctgaata acttctatcc cagagaggcc aaagtacagt ggaaggtgga taacgccctc 480

caatcgggta actcccagga gagtgtcaca gagcaggaca gcaaggacag cacctacagc 540

ctcagcagca ccctgacgct gagcaaagca gactacgaga aacacaaagt ctacgcctgc 600

gaagtcaccc atcagggcct gagctcgccc gtcacaaaga gcttcaacag gggagagtgt 660

<210> 592
<211> 339
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 592
gccaacatcg tgatgaccca gactccatcc cccgtgtctg gagctgtggg aggcacagtc 60

accatcaagt gccaggccag tcagagcatt agtgactact tagcctggta tcagcagaaa 120

ccagggcagc ctcccaaact cctgatctac agggcatcca ctctggcatc tggggtccca 180

tcgcggttca gaggcagtgg atctgggaca gagtacactc tcaccatcac cgacctggag 240

tgtgccgatg ctgccactta ctactgtcaa agctattatt ccgttactac taatacttat 300

ggaaatactt tcggcggagg gaccgaggtg gtggtcaaa 339

<210> 593
<211> 72
<212> DNA
<213> Oryctolagus cuniculus

<400> 593
gccaacatcg tgatgaccca gactccatcc cccgtgtctg gagctgtggg aggcacagtc 60

accatcaagt gc 72

<210> 594
<211> 33

<212> DNA
<213> Oryctolagus cuniculus

<400> 594
caggccagtc agagcattag tgactactta gcc 33

<210> 595
<211> 45
<212> DNA
<213> Oryctolagus cuniculus

<400> 595
tggtatcagc agaaaccagg gcagcctccc aaactcctga tctac 45

<210> 596
<211> 21
<212> DNA
<213> Oryctolagus cuniculus

<400> 596
agggcatcca ctctggcatc t 21

<210> 597
<211> 96
<212> DNA
<213> Oryctolagus cuniculus

<400> 597
ggggtcccat cgcggttcag aggcagtgga tctgggacag agtacactct caccatcacc 60

gacctggagt gtgccgatgc tgccacttac tactgt 96

<210> 598
<211> 42
<212> DNA
<213> Oryctolagus cuniculus

<400> 598
caaagctatt attccgttac tactaatact tatggaaata ct 42

<210> 599
<211> 30
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 599
ttcggcggag ggaccgaggt ggtggtcaaa 30

<210> 600
<211> 321
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 600
cgtacggtag cggccccatc tgtcttcatc ttcccgccat ctgatgagca gttgaaatct 60

ggaactgcct ctgttgtgtg cctgctgaat aacttctatc ccagagaggc caaagtacag 120

tggaaggtgg ataacgccct ccaatcgggt aactcccagg agagtgtcac agagcaggac 180

agcaaggaca gcacctacag cctcagcagc accctgacgc tgagcaaagc agactacgag 240

aaacacaaag tctacgcctg cgaagtcacc catcagggcc tgagctcgcc cgtcacaaag 300

agcttcaaca ggggagagtg t 321

<210> 601
<211> 450
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 601

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

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

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

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

Lys Gly Arg Leu Thr Ile Ser Met Thr Ser Ser Thr Thr Val Gly Leu
65 70 75 80

Lys Met Thr Ser Leu Thr Ala Ala Asp Thr Ala Thr Tyr Phe Cys Ala
85 90 95

Ser Asp Ile Asn Asp Gly Trp Leu Gly Gln Phe Asn Leu Trp Gly Pro
100 105 110

Gly Thr Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val
115 120 125

Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala Ala

```
    130                 135                 140

Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser
145                 150                 155                 160

Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala Val
                165                 170                 175

Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro
            180                 185                 190

Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His Lys
        195                 200                 205

Pro Ser Asn Thr Lys Val Asp Lys Arg Val Glu Pro Lys Ser Cys Asp
    210                 215                 220

Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly
225                 230                 235                 240

Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile
                245                 250                 255

Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His Glu
            260                 265                 270

Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His
        275                 280                 285

Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Ala Ser Thr Tyr Arg
    290                 295                 300

Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys
305                 310                 315                 320

Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu
                325                 330                 335

Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr
            340                 345                 350

Thr Leu Pro Pro Ser Arg Glu Glu Met Thr Lys Asn Gln Val Ser Leu
        355                 360                 365

Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp
    370                 375                 380
```

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Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val
385                 390                 395                 400

Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp
                405                 410                 415

Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His
            420                 425                 430

Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro
        435                 440                 445

Gly Lys
    450
```

<210> 602
<211> 120
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 602

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

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

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

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

Lys Gly Arg Leu Thr Ile Ser Met Thr Ser Ser Thr Thr Val Gly Leu
65                  70                  75                  80

Lys Met Thr Ser Leu Thr Ala Ala Asp Thr Ala Thr Tyr Phe Cys Ala
                85                  90                  95

Ser Asp Ile Asn Asp Gly Trp Leu Gly Gln Phe Asn Leu Trp Gly Pro
            100                 105                 110

Gly Thr Leu Val Thr Val Ser Ser
```

115 120

<210> 603
<211> 30
<212> PRT
<213> Oryctolagus cuniculus

<400> 603

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

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

<210> 604
<211> 6
<212> PRT
<213> Oryctolagus cuniculus

<400> 604

Ser Asp Tyr Trp Ile Cys
1 5

<210> 605
<211> 14
<212> PRT
<213> Oryctolagus cuniculus

<400> 605

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

<210> 606
<211> 16
<212> PRT
<213> Oryctolagus cuniculus

<400> 606

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

<210> 607
<211> 31
<212> PRT
<213> Oryctolagus cuniculus

<400> 607

Arg Leu Thr Ile Ser Met Thr Ser Ser Thr Thr Val Gly Leu Lys Met
1 5 10 15

```
Thr Ser Leu Thr Ala Ala Asp Thr Ala Thr Tyr Phe Cys Ala Ser
            20                  25                  30


<210>  608
<211>  12
<212>  PRT
<213>  Oryctolagus cuniculus

<400>  608

Asp Ile Asn Asp Gly Trp Leu Gly Gln Phe Asn Leu
1               5                   10


<210>  609
<211>  11
<212>  PRT
<213>  Artificial

<220>
<223>  Humanized Antibody Sequence

<400>  609

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


<210>  610
<211>  330
<212>  PRT
<213>  Artificial

<220>
<223>  Humanized Antibody Sequence

<400>  610

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


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


Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser
        35                  40                  45


Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser
    50                  55                  60


Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr
65                  70                  75                  80


Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys
```

```
                85                  90                  95

Arg Val Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys
            100                 105                 110

Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro
        115                 120                 125

Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys
    130                 135                 140

Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp
145                 150                 155                 160

Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu
                165                 170                 175

Glu Gln Tyr Ala Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu
            180                 185                 190

His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn
        195                 200                 205

Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly
    210                 215                 220

Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu
225                 230                 235                 240

Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr
                245                 250                 255

Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn
            260                 265                 270

Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe
        275                 280                 285

Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn
    290                 295                 300

Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr
305                 310                 315                 320

Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
                325                 330
```

<210> 611
<211> 1350
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 611
caggagcagc tggtggagtc cgggggaggc ctggtccagc ctgagggatc cctgacactc 60

acctgcacag cctctggatt ctcctttagt agtgattact ggatatgctg ggtccgccag 120

gctccaggga agggcctgga gtggatcgga tgcattcgtg atggtggtgg gagttactac 180

gcgaactggg cgaaaggccg actcaccatc tccatgacct cgtcgaccac ggtgggtctg 240

aaaatgacca gtctgacagc cgcggacacg gccacgtatt tttgtgcgag cgatattaat 300

gatgggtggc ttggccaatt caacttgtgg ggcccaggga ccctcgtcac cgtctcgagc 360

gcctccacca agggcccatc ggtcttcccc ctggcaccct cctccaagag cacctctggg 420

ggcacagcgg ccctgggctg cctggtcaag gactacttcc ccgaaccggt gacggtgtcg 480

tggaactcag gcgccctgac cagcggcgtg cacaccttcc cggctgtcct acagtcctca 540

ggactctact ccctcagcag cgtggtgacc gtgccctcca gcagcttggg cacccagacc 600

tacatctgca acgtgaatca caagcccagc aacaccaagg tggacaagag agttgagccc 660

aaatcttgtg acaaaactca cacatgccca ccgtgcccag cacctgaact cctgggggga 720

ccgtcagtct tcctcttccc cccaaaaccc aaggacaccc tcatgatctc ccggacccct 780

gaggtcacat gcgtggtggt ggacgtgagc cacgaagacc ctgaggtcaa gttcaactgg 840

tacgtggacg gcgtggaggt gcataatgcc aagacaaagc cgcgggagga gcagtacgcc 900

agcacgtacc gtgtggtcag cgtcctcacc gtcctgcacc aggactggct gaatggcaag 960

gagtacaagt gcaaggtctc caacaaagcc ctcccagccc ccatcgagaa aaccatctcc 1020

aaagccaaag ggcagccccg agaaccacag gtgtacaccc tgccccatc ccgggaggag 1080

atgaccaaga accaggtcag cctgacctgc ctggtcaaag gcttctatcc cagcgacatc 1140

gccgtggagt gggagagcaa tgggcagccg gagaacaact acaagaccac gcctcccgtg 1200

ctggactccg acggctcctt cttcctctac agcaagctca ccgtggacaa gagcaggtgg 1260

cagcagggga acgtcttctc atgctccgtg atgcatgagg ctctgcacaa ccactacacg 1320

cagaagagcc tctccctgtc tccgggtaaa 1350

<210> 612
<211> 360
<212> DNA

<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 612
caggagcagc tggtggagtc cgggggaggc ctggtccagc ctgagggatc cctgacactc 60

acctgcacag cctctggatt ctcctttagt agtgattact ggatatgctg ggtccgccag 120

gctccaggga agggcctgga gtggatcgga tgcattcgtg atggtggtgg gagttactac 180

gcgaactggg cgaaaggccg actcaccatc tccatgacct cgtcgaccac ggtgggtctg 240

aaaatgacca gtctgacagc cgcggacacg gccacgtatt tttgtgcgag cgatattaat 300

gatgggtggc ttggccaatt caacttgtgg ggcccaggga ccctcgtcac cgtctcgagc 360

<210> 613
<211> 90
<212> DNA
<213> Oryctolagus cuniculus

<400> 613
caggagcagc tggtggagtc cgggggaggc ctggtccagc ctgagggatc cctgacactc 60

acctgcacag cctctggatt ctcctttagt 90

<210> 614
<211> 18
<212> DNA
<213> Oryctolagus cuniculus

<400> 614
agtgattact ggatatgc 18

<210> 615
<211> 42
<212> DNA
<213> Oryctolagus cuniculus

<400> 615
tgggtccgcc aggctccagg gaagggcctg gagtggatcg ga 42

<210> 616
<211> 48
<212> DNA
<213> Oryctolagus cuniculus

<400> 616
tgcattcgtg atggtggtgg gagttactac gcgaactggg cgaaaggc 48

<210> 617
<211> 93
<212> DNA
<213> Oryctolagus cuniculus

<400> 617
cgactcacca tctccatgac ctcgtcgacc acggtgggtc tgaaaatgac cagtctgaca 60

gccgcggaca cggccacgta tttttgtgcg agc 93

<210> 618
<211> 36
<212> DNA
<213> Oryctolagus cuniculus

<400> 618
gatattaatg atgggtggct tggccaattc aacttg 36

<210> 619
<211> 33
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 619
tggggcccag ggaccctcgt caccgtctcg agc 33

<210> 620
<211> 990
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 620
gcctccacca agggcccatc ggtcttcccc ctggcaccct cctccaagag cacctctggg 60

ggcacagcgg ccctgggctg cctggtcaag gactacttcc ccgaaccggt gacggtgtcg 120

tggaactcag gcgccctgac cagcggcgtg cacaccttcc cggctgtcct acagtcctca 180

ggactctact ccctcagcag cgtggtgacc gtgccctcca gcagcttggg cacccagacc 240

tacatctgca acgtgaatca caagcccagc aacaccaagg tggacaagag agttgagccc 300

aaatcttgtg acaaaactca cacatgccca ccgtgcccag cacctgaact cctgggggga 360

ccgtcagtct tcctcttccc cccaaaaccc aaggacaccc tcatgatctc ccggacccct 420

gaggtcacat gcgtggtggt ggacgtgagc cacgaagacc ctgaggtcaa gttcaactgg 480

tacgtggacg gcgtggaggt gcataatgcc aagacaaagc cgcgggagga gcagtacgcc 540

agcacgtacc gtgtggtcag cgtcctcacc gtcctgcacc aggactggct gaatggcaag 600

gagtacaagt gcaaggtctc caacaaagcc ctcccagccc ccatcgagaa aaccatctcc 660

aaagccaaag ggcagccccg agaaccacag gtgtacaccc tgcccccatc ccgggaggag 720

atgaccaaga accaggtcag cctgacctgc ctggtcaaag gcttctatcc cagcgacatc 780

gccgtggagt gggagagcaa tgggcagccg gagaacaact acaagaccac gcctcccgtg 840

ctggactccg acggctcctt cttcctctac agcaagctca ccgtggacaa gagcaggtgg 900

cagcagggga acgtcttctc atgctccgtg atgcatgagg ctctgcacaa ccactacacg 960

cagaagagcc tctccctgtc tccgggtaaa 990

<210> 621
<211> 220
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 621

Ala Asp Ile Val Met Thr Gln Thr Pro Ala Ser Val Glu Ala Ala Val
1 5 10 15

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

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

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

Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Asp Leu Glu
65 70 75 80

Cys Ala Asp Ala Ala Thr Tyr Tyr Cys Gln Ser Tyr Tyr Ser Val Thr
85 90 95

Thr Val Thr Tyr Gly Asn Thr Phe Gly Gly Gly Thr Glu Val Val Val
100 105 110

Lys Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp
115 120 125

Glu Gln Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn
130 135 140

Phe Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu
145 150 155 160

```
Gln Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp
                165                 170                 175

Ser Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr
            180                 185                 190

Glu Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser
        195                 200                 205

Ser Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
    210                 215                 220
```

<210> 622
<211> 113
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 622

```
Ala Asp Ile Val Met Thr Gln Thr Pro Ala Ser Val Glu Ala Ala Val
1               5                   10                  15

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

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

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

Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Asp Leu Glu
65                  70                  75                  80

Cys Ala Asp Ala Ala Thr Tyr Tyr Cys Gln Ser Tyr Tyr Ser Val Thr
                85                  90                  95

Thr Val Thr Tyr Gly Asn Thr Phe Gly Gly Gly Thr Glu Val Val Val
            100                 105                 110

Lys
```

<210> 623
<211> 24
<212> PRT

<213> Oryctolagus cuniculus

<400> 623

Ala Asp Ile Val Met Thr Gln Thr Pro Ala Ser Val Glu Ala Ala Val
1 5 10 15

Gly Gly Thr Val Thr Ile Lys Cys
20

<210> 624
<211> 11
<212> PRT
<213> Oryctolagus cuniculus

<400> 624

Gln Ala Ser Gln Ser Ile Ser Ser Tyr Leu Ala
1 5 10

<210> 625
<211> 15
<212> PRT
<213> Oryctolagus cuniculus

<400> 625

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

<210> 626
<211> 7
<212> PRT
<213> Oryctolagus cuniculus

<400> 626

Arg Ala Ser Thr Leu Ala Ser
1 5

<210> 627
<211> 32
<212> PRT
<213> Oryctolagus cuniculus

<400> 627

Gly Val Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Glu Phe Thr
1 5 10 15

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

<210> 628

<211> 14
<212> PRT
<213> Oryctolagus cuniculus

<400> 628

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

<210> 629
<211> 10
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 629

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

<210> 630
<211> 107
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 630

Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu
1 5 10 15

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

Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln
35 40 45

Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser
50 55 60

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

Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser
85 90 95

Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
100 105

<210> 631
<211> 660
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 631
gctgacattg tgatgaccca gactccagcc tccgtggagg cagctgtggg aggcacagtc 60

accatcaagt gccaggccag tcagagcatt agtagctact tagcctggta tcagcagaaa 120

ccagggcagc ctcccaagct cctgatctac agggcatcca ctctggcctc tggggtccca 180

tcgcggttca gcggcagtgg atctgggaca gagttcactc tcaccatcag cgacctggag 240

tgtgccgatg ctgccactta ctactgtcaa agctattatt ccgttactac tgttacttat 300

ggaaatactt tcggcggagg gaccgaggtg gtggtcaaac gtacggtagc ggccccatct 360

gtcttcatct tcccgccatc tgatgagcag ttgaaatctg gaactgcctc tgttgtgtgc 420

ctgctgaata acttctatcc cagagaggcc aaagtacagt ggaaggtgga taacgccctc 480

caatcgggta actcccagga gagtgtcaca gagcaggaca gcaaggacag cacctacagc 540

ctcagcagca ccctgacgct gagcaaagca gactacgaga aacacaaagt ctacgcctgc 600

gaagtcaccc atcagggcct gagctcgccc gtcacaaaga gcttcaacag gggagagtgt 660

<210> 632
<211> 339
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 632
gctgacattg tgatgaccca gactccagcc tccgtggagg cagctgtggg aggcacagtc 60

accatcaagt gccaggccag tcagagcatt agtagctact tagcctggta tcagcagaaa 120

ccagggcagc ctcccaagct cctgatctac agggcatcca ctctggcctc tggggtccca 180

tcgcggttca gcggcagtgg atctgggaca gagttcactc tcaccatcag cgacctggag 240

tgtgccgatg ctgccactta ctactgtcaa agctattatt ccgttactac tgttacttat 300

ggaaatactt tcggcggagg gaccgaggtg gtggtcaaa 339

<210> 633
<211> 72
<212> DNA
<213> Oryctolagus cuniculus

<400> 633

gctgacattg tgatgaccca gactccagcc tccgtggagg cagctgtggg aggcacagtc 60

accatcaagt gc 72

<210> 634
<211> 33
<212> DNA
<213> Oryctolagus cuniculus

<400> 634
caggccagtc agagcattag tagctactta gcc 33

<210> 635
<211> 45
<212> DNA
<213> Oryctolagus cuniculus

<400> 635
tggtatcagc agaaaccagg gcagcctccc aagctcctga tctac 45

<210> 636
<211> 21
<212> DNA
<213> Oryctolagus cuniculus

<400> 636
agggcatcca ctctggcctc t 21

<210> 637
<211> 96
<212> DNA
<213> Oryctolagus cuniculus

<400> 637
ggggtcccat cgcggttcag cggcagtgga tctgggacag agttcactct caccatcagc 60

gacctggagt gtgccgatgc tgccacttac tactgt 96

<210> 638
<211> 42
<212> DNA
<213> Oryctolagus cuniculus

<400> 638
caaagctatt attccgttac tactgttact tatggaaata ct 42

<210> 639
<211> 30
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 639

ttcggcggag ggaccgaggt ggtggtcaaa 30

<210> 640
<211> 321
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 640
cgtacggtag cggccccatc tgtcttcatc ttcccgccat ctgatgagca gttgaaatct 60

ggaactgcct ctgttgtgtg cctgctgaat aacttctatc ccagagaggc caaagtacag 120

tggaaggtgg ataacgccct ccaatcgggt aactcccagg agagtgtcac agagcaggac 180

agcaaggaca gcacctacag cctcagcagc accctgacgc tgagcaaagc agactacgag 240

aaacacaaag tctacgcctg cgaagtcacc catcagggcc tgagctcgcc cgtcacaaag 300

agcttcaaca ggggagagtg t 321

<210> 641
<211> 450
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 641

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

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

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

Ile Gly Cys Ile Arg Pro Gly Ser Ala Asp Tyr Tyr Ala Ser Trp Ala
50 55 60

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

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

Ser Asp Ile Asn Asp Gly Trp Leu Gly Gln Phe Asn Leu Trp Gly Pro
100 105 110

```
Gly Thr Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val
        115                 120                 125

Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala Ala
    130                 135                 140

Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser
145                 150                 155                 160

Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala Val
                165                 170                 175

Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro
            180                 185                 190

Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His Lys
        195                 200                 205

Pro Ser Asn Thr Lys Val Asp Lys Arg Val Glu Pro Lys Ser Cys Asp
    210                 215                 220

Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly
225                 230                 235                 240

Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile
                245                 250                 255

Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His Glu
            260                 265                 270

Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His
        275                 280                 285

Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Ala Ser Thr Tyr Arg
    290                 295                 300

Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys
305                 310                 315                 320

Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu
                325                 330                 335

Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr
            340                 345                 350
```

```
Thr Leu Pro Pro Ser Arg Glu Glu Met Thr Lys Asn Gln Val Ser Leu
        355                 360                 365

Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp
    370                 375                 380

Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val
385                 390                 395                 400

Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp
                405                 410                 415

Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His
            420                 425                 430

Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro
        435                 440                 445

Gly Lys
    450
```

<210> 642
<211> 120
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 642

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

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

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

Ile Gly Cys Ile Arg Pro Gly Ser Ala Asp Tyr Tyr Ala Ser Trp Ala
    50                  55                  60

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

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

```
Ser Asp Ile Asn Asp Gly Trp Leu Gly Gln Phe Asn Leu Trp Gly Pro
            100                 105                 110


Gly Thr Leu Val Thr Val Ser Ser
        115                 120


<210>  643
<211>  30
<212>  PRT
<213>  Oryctolagus cuniculus

<400>  643

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


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


<210>  644
<211>  6
<212>  PRT
<213>  Oryctolagus cuniculus

<400>  644

Ser Ser Tyr Trp Ile Cys
1               5


<210>  645
<211>  14
<212>  PRT
<213>  Oryctolagus cuniculus

<400>  645

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


<210>  646
<211>  16
<212>  PRT
<213>  Oryctolagus cuniculus

<400>  646

Cys Ile Arg Pro Gly Ser Ala Asp Tyr Tyr Ala Ser Trp Ala Lys Gly
1               5                   10                  15


<210>  647
<211>  31
<212>  PRT
```

<213> Oryctolagus cuniculus

<400> 647

Arg Phe Thr Ile Ser Arg Ala Ser Ser Ser Thr Val Thr Leu Gln Met
1 5 10 15

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

<210> 648
<211> 12
<212> PRT
<213> Oryctolagus cuniculus

<400> 648

Asp Ile Asn Asp Gly Trp Leu Gly Gln Phe Asn Leu
1 5 10

<210> 649
<211> 11
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 649

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

<210> 650
<211> 330
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 650

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

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

Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser
35 40 45

Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser
50 55 60

```
Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr
65                  70                  75                  80

Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys
                85                  90                  95

Arg Val Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys
            100                 105                 110

Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro
        115                 120                 125

Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys
    130                 135                 140

Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp
145                 150                 155                 160

Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu
                165                 170                 175

Glu Gln Tyr Ala Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu
            180                 185                 190

His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn
        195                 200                 205

Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly
    210                 215                 220

Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu
225                 230                 235                 240

Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr
                245                 250                 255

Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn
            260                 265                 270

Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe
        275                 280                 285

Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn
    290                 295                 300
```

```
Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr
305                 310                 315                 320


Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
                325                 330


<210>  651
<211>  1350
<212>  DNA
<213>  Artificial

<220>
<223>  Humanized Antibody Sequence

<400>  651
caggagcagc tggaggagtc cgggggagac ctggtcaagc ctgagggatc cctgacactc       60

acctgcacag cctctggatt ctccttcagt agcagctact ggatatgctg ggtccgccag      120

gctccaggga agggactgga gtggatcgga tgcattcgtc ctggtagtgc ggattactac      180

gcgagctggg cgaaaggccg attcaccatc tccagagcct cgtcgtccac ggtgactctg      240

caaatgacca gtctgacagc cgcggacacg gccacctatt tttgtgcgag cgatattaat      300

gatgggtggc ttggccaatt caacttgtgg ggcccaggca ccctggtcac cgtctcgagc      360

gcctccacca agggcccatc ggtcttcccc ctggcaccct cctccaagag cacctctggg      420

ggcacagcgg ccctgggctg cctggtcaag gactacttcc ccgaaccggt gacggtgtcg      480

tggaactcag gcgccctgac cagcggcgtg cacaccttcc cggctgtcct acagtcctca      540

ggactctact ccctcagcag cgtggtgacc gtgccctcca gcagcttggg cacccagacc      600

tacatctgca acgtgaatca caagcccagc aacaccaagg tggacaagag agttgagccc      660

aaatcttgtg acaaaactca cacatgccca ccgtgcccag cacctgaact cctgggggga      720

ccgtcagtct tcctcttccc cccaaaaccc aaggacaccc tcatgatctc ccggacccct      780

gaggtcacat gcgtggtggt ggacgtgagc cacgaagacc ctgaggtcaa gttcaactgg      840

tacgtggacg gcgtggaggt gcataatgcc aagacaaagc cgcgggagga gcagtacgcc      900

agcacgtacc gtgtggtcag cgtcctcacc gtcctgcacc aggactggct gaatggcaag      960

gagtacaagt gcaaggtctc caacaaagcc ctcccagccc ccatcgagaa aaccatctcc     1020

aaagccaaag ggcagccccg agaaccacag gtgtacaccc tgcccccatc ccgggaggag     1080

atgaccaaga accaggtcag cctgacctgc ctggtcaaag gcttctatcc cagcgacatc     1140

gccgtggagt gggagagcaa tgggcagccg gagaacaact acaagaccac gcctcccgtg     1200

ctggactccg acggctcctt cttcctctac agcaagctca ccgtggacaa gagcaggtgg     1260

cagcagggga acgtcttctc atgctccgtg atgcatgagg ctctgcacaa ccactacacg     1320
```

cagaagagcc tctccctgtc tccgggtaaa 1350

<210> 652
<211> 360
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 652
caggagcagc tggaggagtc cgggggagac ctggtcaagc ctgagggatc cctgacactc 60

acctgcacag cctctggatt ctccttcagt agcagctact ggatatgctg ggtccgccag 120

gctccaggga agggactgga gtggatcgga tgcattcgtc ctggtagtgc ggattactac 180

gcgagctggg cgaaaggccg attcaccatc tccagagcct cgtcgtccac ggtgactctg 240

caaatgacca gtctgacagc cgcggacacg gccacctatt tttgtgcgag cgatattaat 300

gatgggtggc ttggccaatt caacttgtgg ggcccaggca ccctggtcac cgtctcgagc 360

<210> 653
<211> 90
<212> DNA
<213> Oryctolagus cuniculus

<400> 653
caggagcagc tggaggagtc cgggggagac ctggtcaagc ctgagggatc cctgacactc 60

acctgcacag cctctggatt ctccttcagt 90

<210> 654
<211> 18
<212> DNA
<213> Oryctolagus cuniculus

<400> 654
agcagctact ggatatgc 18

<210> 655
<211> 42
<212> DNA
<213> Oryctolagus cuniculus

<400> 655
tgggtccgcc aggctccagg gaagggactg gagtggatcg ga 42

<210> 656
<211> 48
<212> DNA
<213> Oryctolagus cuniculus

<400> 656

tgcattcgtc ctggtagtgc ggattactac gcgagctggg cgaaaggc 48

<210> 657
<211> 93
<212> DNA
<213> Oryctolagus cuniculus

<400> 657
cgattcacca tctccagagc ctcgtcgtcc acggtgactc tgcaaatgac cagtctgaca 60

gccgcggaca cggccaccta tttttgtgcg agc 93

<210> 658
<211> 36
<212> DNA
<213> Oryctolagus cuniculus

<400> 658
gatattaatg atgggtggct tggccaattc aacttg 36

<210> 659
<211> 33
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 659
tggggcccag gcaccctggt caccgtctcg agc 33

<210> 660
<211> 990
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 660
gcctccacca agggcccatc ggtcttcccc ctggcaccct cctccaagag cacctctggg 60

ggcacagcgg ccctgggctg cctggtcaag gactacttcc ccgaaccggt gacggtgtcg 120

tggaactcag gcgccctgac cagcggcgtg cacaccttcc cggctgtcct acagtcctca 180

ggactctact ccctcagcag cgtggtgacc gtgccctcca gcagcttggg cacccagacc 240

tacatctgca acgtgaatca caagcccagc aacaccaagg tggacaagag agttgagccc 300

aaatcttgtg acaaaactca cacatgccca ccgtgcccag cacctgaact cctgggggga 360

ccgtcagtct tcctcttccc cccaaaaccc aaggacaccc tcatgatctc ccggacccct 420

gaggtcacat gcgtggtggt ggacgtgagc cacgaagacc ctgaggtcaa gttcaactgg 480

tacgtggacg gcgtggaggt gcataatgcc aagacaaagc cgcgggagga gcagtacgcc 540

agcacgtacc gtgtggtcag cgtcctcacc gtcctgcacc aggactggct gaatggcaag 600

gagtacaagt gcaaggtctc caacaaagcc ctcccagccc ccatcgagaa aaccatctcc 660

aaagccaaag ggcagccccg agaaccacag gtgtacaccc tgcccccatc ccgggaggag 720

atgaccaaga accaggtcag cctgacctgc ctggtcaaag gcttctatcc cagcgacatc 780

gccgtggagt gggagagcaa tgggcagccg gagaacaact acaagaccac gcctcccgtg 840

ctggactccg acggctcctt cttcctctac agcaagctca ccgtggacaa gagcaggtgg 900

cagcagggga acgtcttctc atgctccgtg atgcatgagg ctctgcacaa ccactacacg 960

cagaagagcc tctccctgtc tccgggtaaa 990

<210> 661
<211> 220
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 661

Ala Asp Val Val Met Thr Gln Thr Pro Ala Ser Val Glu Ala Ala Val
1 5 10 15

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

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

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

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

Cys Ala Asp Ala Ala Thr Tyr Tyr Cys Gln Ser Tyr Tyr Ser Val Thr
85 90 95

Thr Asn Thr Tyr Gly Asn Thr Phe Gly Gly Gly Thr Glu Val Val Val
100 105 110

Lys Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp
115 120 125

Glu Gln Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn

```
    130                 135                 140

Phe Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu
145                 150                 155                 160

Gln Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp
                165                 170                 175

Ser Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr
            180                 185                 190

Glu Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser
        195                 200                 205

Ser Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
    210                 215                 220


<210>  662
<211>  113
<212>  PRT
<213>  Artificial

<220>
<223>  Humanized Antibody Sequence

<400>  662

Ala Asp Val Val Met Thr Gln Thr Pro Ala Ser Val Glu Ala Ala Val
1               5                   10                  15

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

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

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

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

Cys Ala Asp Ala Ala Thr Tyr Tyr Cys Gln Ser Tyr Tyr Ser Val Thr
                85                  90                  95

Thr Asn Thr Tyr Gly Asn Thr Phe Gly Gly Gly Thr Glu Val Val Val
            100                 105                 110
```

Lys

<210> 663
<211> 24
<212> PRT
<213> Oryctolagus cuniculus

<400> 663

Ala Asp Val Val Met Thr Gln Thr Pro Ala Ser Val Glu Ala Ala Val
1 5 10 15

Gly Gly Thr Val Thr Ile Lys Cys
20

<210> 664
<211> 11
<212> PRT
<213> Oryctolagus cuniculus

<400> 664

Gln Ala Ser Leu Ser Ile Ala Asp Tyr Leu Ala
1 5 10

<210> 665
<211> 15
<212> PRT
<213> Oryctolagus cuniculus

<400> 665

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

<210> 666
<211> 7
<212> PRT
<213> Oryctolagus cuniculus

<400> 666

Arg Ala Ser Thr Leu Ala Ser
1 5

<210> 667
<211> 32
<212> PRT
<213> Oryctolagus cuniculus

<400> 667

Gly Val Pro Ser Arg Phe Lys Gly Ser Gly Ser Gly Thr Glu Tyr Thr
1 5 10 15

```
Leu Thr Ile Ser Asp Leu Glu Cys Ala Asp Ala Ala Thr Tyr Tyr Cys
            20                  25                  30


<210>  668
<211>  14
<212>  PRT
<213>  Oryctolagus cuniculus

<400>  668

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


<210>  669
<211>  10
<212>  PRT
<213>  Artificial

<220>
<223>  Humanized Antibody Sequence

<400>  669

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


<210>  670
<211>  107
<212>  PRT
<213>  Artificial

<220>
<223>  Humanized Antibody Sequence

<400>  670

Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu
1               5                   10                  15


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


Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln
        35                  40                  45


Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser
    50                  55                  60


Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu
65                  70                  75                  80
```

Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser
85 90 95

Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
100 105

<210> 671
<211> 660
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 671
gccgatgttg tgatgaccca gactccagcc tccgtggagg cagctgtggg aggcacagtc 60

accatcaagt gccaggccag tctgagcatt gctgactact tagcctggta tctccagaaa 120

ccagggcagc ctcccaagct cctgatctac agggcatcca ctctggcatc tggggtccca 180

tcgcggttca agggcagtgg atctgggaca gagtacactc tcaccatcag cgacctggag 240

tgtgccgatg ctgccactta ctactgtcaa agctattatt ccgttactac taatacttat 300

ggaaatactt tcggcggagg gaccgaggtg gtggtcaaac gtacggtagc ggccccatct 360

gtcttcatct tcccgccatc tgatgagcag ttgaaatctg gaactgcctc tgttgtgtgc 420

ctgctgaata acttctatcc cagagaggcc aaagtacagt ggaaggtgga taacgccctc 480

caatcgggta actcccagga gagtgtcaca gagcaggaca gcaaggacag cacctacagc 540

ctcagcagca ccctgacgct gagcaaagca gactacgaga aacacaaagt ctacgcctgc 600

gaagtcaccc atcagggcct gagctcgccc gtcacaaaga gcttcaacag gggagagtgt 660

<210> 672
<211> 339
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 672
gccgatgttg tgatgaccca gactccagcc tccgtggagg cagctgtggg aggcacagtc 60

accatcaagt gccaggccag tctgagcatt gctgactact tagcctggta tctccagaaa 120

ccagggcagc ctcccaagct cctgatctac agggcatcca ctctggcatc tggggtccca 180

tcgcggttca agggcagtgg atctgggaca gagtacactc tcaccatcag cgacctggag 240

tgtgccgatg ctgccactta ctactgtcaa agctattatt ccgttactac taatacttat 300

ggaaatactt tcggcggagg gaccgaggtg gtggtcaaa 339

<210> 673
<211> 72
<212> DNA
<213> Oryctolagus cuniculus

<400> 673
gccgatgttg tgatgaccca gactccagcc tccgtggagg cagctgtggg aggcacagtc 60

accatcaagt gc 72

<210> 674
<211> 33
<212> DNA
<213> Oryctolagus cuniculus

<400> 674
caggccagtc tgagcattgc tgactactta gcc 33

<210> 675
<211> 45
<212> DNA
<213> Oryctolagus cuniculus

<400> 675
tggtatctcc agaaaccagg gcagcctccc aagctcctga tctac 45

<210> 676
<211> 21
<212> DNA
<213> Oryctolagus cuniculus

<400> 676
agggcatcca ctctggcatc t 21

<210> 677
<211> 96
<212> DNA
<213> Oryctolagus cuniculus

<400> 677
ggggtcccat cgcggttcaa gggcagtgga tctgggacag agtacactct caccatcagc 60

gacctggagt gtgccgatgc tgccacttac tactgt 96

<210> 678
<211> 42
<212> DNA
<213> Oryctolagus cuniculus

<400> 678
caaagctatt attccgttac tactaatact tatggaaata ct 42

<210> 679
<211> 30

<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 679
ttcggcggag ggaccgaggt ggtggtcaaa 30

<210> 680
<211> 321
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 680
cgtacggtag cggccccatc tgtcttcatc ttcccgccat ctgatgagca gttgaaatct 60

ggaactgcct ctgttgtgtg cctgctgaat aacttctatc ccagagaggc caaagtacag 120

tggaaggtgg ataacgccct ccaatcgggt aactcccagg agagtgtcac agagcaggac 180

agcaaggaca gcacctacag cctcagcagc accctgacgc tgagcaaagc agactacgag 240

aaacacaaag tctacgcctg cgaagtcacc catcagggcc tgagctcgcc cgtcacaaag 300

agcttcaaca ggggagagtg t 321

<210> 681
<211> 451
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 681

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 Val Ser Ser Asn
20 25 30

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

Ile Gly Cys Ile Arg Asp Gly Gly Gly Thr Tyr Tyr Ala Ser Ser Ala
50 55 60

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

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

Ala Ser Asp Ile Asn Asp Gly Trp Leu Gly Gln Phe Asn Leu Trp Gly
            100                 105                 110

Gln Gly Thr Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser
        115                 120                 125

Val Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala
    130                 135                 140

Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val
145                 150                 155                 160

Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala
                165                 170                 175

Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val
            180                 185                 190

Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His
        195                 200                 205

Lys Pro Ser Asn Thr Lys Val Asp Ala Arg Val Glu Pro Lys Ser Cys
    210                 215                 220

Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly
225                 230                 235                 240

Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met
                245                 250                 255

Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His
            260                 265                 270

Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val
        275                 280                 285

His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Ala Ser Thr Tyr
    290                 295                 300

Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly
305                 310                 315                 320
```

```
Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile
                325                 330                 335

Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val
            340                 345                 350

Tyr Thr Leu Pro Pro Ser Arg Glu Glu Met Thr Lys Asn Gln Val Ser
        355                 360                 365

Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu
    370                 375                 380

Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro
385                 390                 395                 400

Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val
                405                 410                 415

Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met
            420                 425                 430

His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser
        435                 440                 445

Pro Gly Lys
    450
```

<210> 682
<211> 121
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 682

```
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 Val Ser Ser Asn
            20                  25                  30

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

Ile Gly Cys Ile Arg Asp Gly Gly Gly Thr Tyr Tyr Ala Ser Ser Ala
    50                  55                  60
```

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


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


Ala Ser Asp Ile Asn Asp Gly Trp Leu Gly Gln Phe Asn Leu Trp Gly
            100                 105                 110


Gln Gly Thr Leu Val Thr Val Ser Ser
        115                 120


<210>  683
<211>  30
<212>  PRT
<213>  Artificial

<220>
<223>  Humanized Antibody Sequence

<400>  683

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 Val Ser
            20                  25                  30


<210>  684
<211>  6
<212>  PRT
<213>  Oryctolagus cuniculus

<400>  684

Ser Asn Tyr Trp Ile Cys
1               5


<210>  685
<211>  14
<212>  PRT
<213>  Artificial

<220>
<223>  Humanized Antibody Sequence

<400>  685

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


<210>  686
```

<211> 16
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 686

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

<210> 687
<211> 32
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 687

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

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

<210> 688
<211> 12
<212> PRT
<213> Oryctolagus cuniculus

<400> 688

Asp Ile Asn Asp Gly Trp Leu Gly Gln Phe Asn Leu
1 5 10

<210> 689
<211> 11
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 689

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

<210> 690
<211> 330
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 690

```
Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser Lys
1               5                  10                  15

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

Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser
        35                  40                  45

Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser
    50                  55                  60

Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr
65                  70                  75                  80

Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Ala
                85                  90                  95

Arg Val Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys
            100                 105                 110

Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro
        115                 120                 125

Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys
    130                 135                 140

Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp
145                 150                 155                 160

Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu
                165                 170                 175

Glu Gln Tyr Ala Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu
            180                 185                 190

His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn
        195                 200                 205

Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly
    210                 215                 220
```

```
Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu
225                 230                 235                 240

Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr
                245                 250                 255

Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn
            260                 265                 270

Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe
        275                 280                 285

Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn
    290                 295                 300

Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr
305                 310                 315                 320

Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
                325                 330
```

<210> 691
<211> 1353
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 691

```
gaggtgcagc ttgtggagtc tgggggaggc ttggtccagc ctgggggtc cctgagactc       60

tcctgtgcag cctctggatt caccgtcagt agcaactact ggatatgctg ggtccgtcag      120

gctccaggga aggggctgga gtggatcgga tgcattcgtg atggtggtgg cacttactac      180

gctagctctg ctaaaggccg attcaccatc tccagagaca attccaagaa caccctgtat      240

cttcaaatga acagcctgag agctgaggac actgctgtgt attactgtgc tagcgatatc      300

aatgatgggt ggcttggcca attcaacttg tggggccaag ggaccctcgt caccgtctcg      360

agcgcctcca ccaagggccc atcggtcttc cccctggcac cctcctccaa gagcacctct      420

gggggcacag cggccctggg ctgcctggtc aaggactact tccccgaacc ggtgacggtg      480

tcgtggaact caggcgccct gaccagcggc gtgcacacct tcccggctgt cctacagtcc      540

tcaggactct actccctcag cagcgtggtg accgtgccct ccagcagctt gggcacccag      600

acctacatct gcaacgtgaa tcacaagccc agcaacacca aggtggacgc gagagttgag      660

cccaaatctt gtgacaaaac tcacacatgc ccaccgtgcc cagcacctga actcctgggg      720
```

ggaccgtcag tcttcctctt ccccccaaaa cccaaggaca ccctcatgat ctcccggacc 780

cctgaggtca catgcgtggt ggtggacgtg agccacgaag accctgaggt caagttcaac 840

tggtacgtgg acggcgtgga ggtgcataat gccaagacaa agccgcggga ggagcagtac 900

gccagcacgt accgtgtggt cagcgtcctc accgtcctgc accaggactg gctgaatggc 960

aaggagtaca agtgcaaggt ctccaacaaa gccctcccag cccccatcga gaaaaccatc 1020

tccaaagcca aagggcagcc ccgagaacca caggtgtaca ccctgccccc atcccgggag 1080

gagatgacca agaaccaggt cagcctgacc tgcctggtca aaggcttcta tcccagcgac 1140

atcgccgtgg agtgggagag caatgggcag ccggagaaca actacaagac cacgcctccc 1200

gtgctggact ccgacggctc cttcttcctc tacagcaagc tcaccgtgga caagagcagg 1260

tggcagcagg ggaacgtctt ctcatgctcc gtgatgcatg aggctctgca caaccactac 1320

acgcagaaga gcctctccct gtctccgggt aaa 1353

<210> 692
<211> 363
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 692
gaggtgcagc ttgtggagtc tgggggaggc ttggtccagc ctgggggggtc cctgagactc 60

tcctgtgcag cctctggatt caccgtcagt agcaactact ggatatgctg ggtccgtcag 120

gctccaggga aggggctgga gtggatcgga tgcattcgtg atggtggtgg cacttactac 180

gctagctctg ctaaaggccg attcaccatc tccagagaca attccaagaa caccctgtat 240

cttcaaatga acagcctgag agctgaggac actgctgtgt attactgtgc tagcgatatc 300

aatgatgggt ggcttggcca attcaacttg tggggccaag ggaccctcgt caccgtctcg 360

agc 363

<210> 693
<211> 90
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 693
gaggtgcagc ttgtggagtc tgggggaggc ttggtccagc ctgggggggtc cctgagactc 60

tcctgtgcag cctctggatt caccgtcagt 90

<210> 694
<211> 18
<212> DNA
<213> Oryctolagus cuniculus

<400> 694
agcaactact ggatatgc 18

<210> 695
<211> 42
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 695
tgggtccgtc aggctccagg gaaggggctg gagtggatcg ga 42

<210> 696
<211> 48
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 696
tgcattcgtg atggtggtgg cacttactac gctagctctg ctaaaggc 48

<210> 697
<211> 96
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 697
cgattcacca tctccagaga caattccaag aacaccctgt atcttcaaat gaacagcctg 60

agagctgagg acactgctgt gtattactgt gctagc 96

<210> 698
<211> 36
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 698
gatatcaatg atgggtggct tggccaattc aacttg 36

<210> 699
<211> 33

<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 699
tggggccaag ggaccctcgt caccgtctcg agc 33

<210> 700
<211> 990
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 700
gcctccacca agggcccatc ggtcttcccc ctggcaccct cctccaagag cacctctggg 60

ggcacagcgg ccctgggctg cctggtcaag gactacttcc ccgaaccggt gacggtgtcg 120

tggaactcag gcgccctgac cagcggcgtg cacaccttcc cggctgtcct acagtcctca 180

ggactctact ccctcagcag cgtggtgacc gtgccctcca gcagcttggg cacccagacc 240

tacatctgca acgtgaatca caagcccagc aacaccaagg tggacgcgag agttgagccc 300

aaatcttgtg acaaaactca cacatgccca ccgtgcccag cacctgaact cctgggggga 360

ccgtcagtct tcctcttccc cccaaaaccc aaggacaccc tcatgatctc ccggacccct 420

gaggtcacat gcgtggtggt ggacgtgagc cacgaagacc ctgaggtcaa gttcaactgg 480

tacgtggacg gcgtggaggt gcataatgcc aagacaaagc cgcgggagga gcagtacgcc 540

agcacgtacc gtgtggtcag cgtcctcacc gtcctgcacc aggactggct gaatggcaag 600

gagtacaagt gcaaggtctc caacaaagcc ctcccagccc ccatcgagaa aaccatctcc 660

aaagccaaag ggcagccccg agaaccacag gtgtacaccc tgcccccatc ccgggaggag 720

atgaccaaga accaggtcag cctgacctgc ctggtcaaag gcttctatcc cagcgacatc 780

gccgtggagt gggagagcaa tgggcagccg gagaacaact acaagaccac gcctcccgtg 840

ctggactccg acggctcctt cttcctctac agcaagctca ccgtggacaa gagcaggtgg 900

cagcagggga acgtcttctc atgctccgtg atgcatgagg ctctgcacaa ccactacacg 960

cagaagagcc tctccctgtc tccgggtaaa 990

<210> 701
<211> 220
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 701

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

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

Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Val Pro Lys Leu Leu
        35                  40                  45

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

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

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

Thr Asn Thr Tyr Gly Asn Thr Phe Gly Gly Gly Thr Lys Val Glu Ile
            100                 105                 110

Lys Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp
        115                 120                 125

Glu Gln Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn
    130                 135                 140

Phe Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu
145                 150                 155                 160

Gln Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp
                165                 170                 175

Ser Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr
            180                 185                 190

Glu Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser
        195                 200                 205

Ser Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
    210                 215                 220
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<210> 702
<211> 113

<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 702

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

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

Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Val Pro Lys Leu Leu
35 40 45

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

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

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

Thr Asn Thr Tyr Gly Asn Thr Phe Gly Gly Gly Thr Lys Val Glu Ile
100 105 110

Lys

<210> 703
<211> 24
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 703

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

Gly Asp Arg Val Thr Ile Lys Cys
20

<210> 704
<211> 11
<212> PRT

<213> Oryctolagus cuniculus

<400> 704

Gln Ala Ser Gln Ser Ile Ser Ala Tyr Leu Ala
1 5 10

<210> 705
<211> 15
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 705

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

<210> 706
<211> 7
<212> PRT
<213> Oryctolagus cuniculus

<400> 706

Arg Ala Tyr Thr Leu Ala Ser
1 5

<210> 707
<211> 32
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 707

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 Val Ala Thr Tyr Tyr Cys
20 25 30

<210> 708
<211> 14
<212> PRT
<213> Oryctolagus cuniculus

<400> 708

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

<210> 709
<211> 10
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 709

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

<210> 710
<211> 107
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 710

Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu
1 5 10 15

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

Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln
35 40 45

Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser
50 55 60

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

Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser
85 90 95

Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
100 105

<210> 711
<211> 660
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 711
gctgacattg tgatgaccca gtctccatcc tccctgtctg catctgtagg agacagagtc 60

accatcaagt gccaggccag tcagagcatt agtgcttact tagcctggta tcagcagaaa 120

ccagggaaag tccctaagct cctgatctat agggcataca ctctggcatc tggggtccca 180

tctcgtttca gtggcagtgg atctgggaca gatttcactc tcaccatcag cagcctgcag 240

cctgaagatg ttgcaactta ttactgtcaa agctactatt ccgttactac taatacttat 300

ggaaatactt tcggcggagg aaccaaggtg gaaatcaaac gtacggtggc tgcaccatct 360

gtcttcatct tcccgccatc tgatgagcag ttgaaatctg gaactgcctc tgttgtgtgc 420

ctgctgaata acttctatcc cagagaggcc aaagtacagt ggaaggtgga taacgccctc 480

caatcgggta actcccagga gagtgtcaca gagcaggaca gcaaggacag cacctacagc 540

ctcagcagca ccctgacgct gagcaaagca gactacgaga aacacaaagt ctacgcctgc 600

gaagtcaccc atcagggcct gagctcgccc gtcacaaaga gcttcaacag gggagagtgt 660

<210> 712
<211> 339
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 712
gctgacattg tgatgaccca gtctccatcc tccctgtctg catctgtagg agacagagtc 60

accatcaagt gccaggccag tcagagcatt agtgcttact tagcctggta tcagcagaaa 120

ccagggaaag tccctaagct cctgatctat agggcataca ctctggcatc tggggtccca 180

tctcgtttca gtggcagtgg atctgggaca gatttcactc tcaccatcag cagcctgcag 240

cctgaagatg ttgcaactta ttactgtcaa agctactatt ccgttactac taatacttat 300

ggaaatactt tcggcggagg aaccaaggtg gaaatcaaa 339

<210> 713
<211> 72
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 713
gctgacattg tgatgaccca gtctccatcc tccctgtctg catctgtagg agacagagtc 60

accatcaagt gc 72

<210> 714

<211> 33
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 714
caggccagtc agagcattag tgcttactta gcc 33

<210> 715
<211> 45
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 715
tggtatcagc agaaaccagg gaaagtccct aagctcctga tctat 45

<210> 716
<211> 21
<212> DNA
<213> Oryctolagus cuniculus

<400> 716
agggcataca ctctggcatc t 21

<210> 717
<211> 96
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 717
ggggtcccat ctcgtttcag tggcagtgga tctgggacag atttcactct caccatcagc 60

agcctgcagc ctgaagatgt tgcaacttat tactgt 96

<210> 718
<211> 42
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 718
caaagctact attccgttac tactaatact tatggaaata ct 42

<210> 719
<211> 30
<212> DNA

<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 719
ttcggcggag gaaccaaggt ggaaatcaaa 30

<210> 720
<211> 321
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 720
cgtacggtgg ctgcaccatc tgtcttcatc ttcccgccat ctgatgagca gttgaaatct 60

ggaactgcct ctgttgtgtg cctgctgaat aacttctatc ccagagaggc caaagtacag 120

tggaaggtgg ataacgccct ccaatcgggt aactcccagg agagtgtcac agagcaggac 180

agcaaggaca gcacctacag cctcagcagc accctgacgc tgagcaaagc agactacgag 240

aaacacaaag tctacgcctg cgaagtcacc catcagggcc tgagctcgcc cgtcacaaag 300

agcttcaaca ggggagagtg t 321

<210> 721
<211> 453
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 721

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 Ile Asp Leu Ser Ser Tyr
20 25 30

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

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

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

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

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

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly
        115                 120                 125

Pro Ser Val Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly
    130                 135                 140

Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val
145                 150                 155                 160

Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe
                165                 170                 175

Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val
            180                 185                 190

Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val
        195                 200                 205

Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys Arg Val Glu Pro Lys
    210                 215                 220

Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu
225                 230                 235                 240

Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr
                245                 250                 255

Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val
            260                 265                 270

Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val
        275                 280                 285

Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Ala Ser
    290                 295                 300

Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu
305                 310                 315                 320

Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala
```

325 330 335

Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro
340 345 350

Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu Met Thr Lys Asn Gln
355 360 365

Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala
370 375 380

Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr
385 390 395 400

Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu
405 410 415

Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser
420 425 430

Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser
435 440 445

Leu Ser Pro Gly Lys
450

<210> 722
<211> 123
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 722

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 Ile Asp Leu Ser Ser Tyr
20 25 30

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

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

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


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


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


Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
        115                 120


<210>  723
<211>  30
<212>  PRT
<213>  Artificial

<220>
<223>  Humanized Antibody Sequence

<400>  723

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 Ile Asp Leu Ser
            20                  25                  30


<210>  724
<211>  5
<212>  PRT
<213>  Oryctolagus cuniculus

<400>  724

Ser Tyr Ala Met Gly
1               5


<210>  725
<211>  14
<212>  PRT
<213>  Artificial

<220>
<223>  Humanized Antibody Sequence

<400>  725

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


<210>  726
<211>  16
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<212> PRT
<213> Oryctolagus cuniculus

<400> 726

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

<210> 727
<211> 32
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 727

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

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

<210> 728
<211> 15
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 728

Asp Leu Asp Ala Gln Ser Ser Gly Tyr Tyr Gly Ala Phe Asn Ile
1 5 10 15

<210> 729
<211> 11
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 729

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

<210> 730
<211> 330
<212> PRT
<213> Artificial

<220>

<223> Humanized Antibody Sequence

<400> 730

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

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

Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser
        35                  40                  45

Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser
    50                  55                  60

Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr
65                  70                  75                  80

Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys
                85                  90                  95

Arg Val Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys
            100                 105                 110

Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro
        115                 120                 125

Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys
    130                 135                 140

Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp
145                 150                 155                 160

Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu
                165                 170                 175

Glu Gln Tyr Ala Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu
            180                 185                 190

His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn
        195                 200                 205

Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly
    210                 215                 220

Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu
```

```
225                 230                 235                 240

Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr
                245                 250                 255

Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn
            260                 265                 270

Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe
        275                 280                 285

Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn
    290                 295                 300

Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr
305                 310                 315                 320

Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
                325                 330
```

<210> 731
<211> 1359
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 731

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gaggtgcagc ttgtggagtc tgggggaggc ttggtccagc ctgggggtc cctgagactc       60

tcctgtgcag cctctggaat cgacctcagt agctatgcaa tgggctgggt ccgtcaggct      120

ccagggaagg ggctggagta catcggaatc attgttagtt atgggcccac atactacgct      180

agctgggcta aaggccgatt caccatctcc agagacaatt ccaagaacac cgtgtatctt      240

caaatgaaca gcctgagagc tgaggacact gccacctatt tctgtgccag agatctggat      300

gctcaaagta gtggttacta tggagctttt aacatctggg gccaagggac cctcgtcacc      360

gtctcgagcg cctccaccaa gggcccatcg gtcttccccc tggcaccctc ctccaagagc      420

acctctgggg gcacagcggc cctgggctgc ctggtcaagg actacttccc cgaaccggtg      480

acggtgtcgt ggaactcagg cgccctgacc agcggcgtgc acaccttccc ggctgtccta      540

cagtcctcag gactctactc cctcagcagc gtggtgaccg tgccctccag cagcttgggc      600

acccagacct acatctgcaa cgtgaatcac aagcccagca acaccaaggt ggacaagaga      660

gttgagccca aatcttgtga caaaactcac acatgcccac cgtgcccagc acctgaactc      720

ctgggggggac cgtcagtctt cctcttcccc ccaaaaccca aggacaccct catgatctcc      780
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cggacccctg aggtcacatg cgtggtggtg gacgtgagcc acgaagaccc tgaggtcaag 840

ttcaactggt acgtggacgg cgtggaggtg cataatgcca agacaaagcc gcgggaggag 900

cagtacgcca gcacgtaccg tgtggtcagc gtcctcaccg tcctgcacca ggactggctg 960

aatggcaagg agtacaagtg caaggtctcc aacaaagccc tcccagcccc catcgagaaa 1020

accatctcca aagccaaagg gcagccccga gaaccacagg tgtacaccct gcccccatcc 1080

cgggaggaga tgaccaagaa ccaggtcagc ctgacctgcc tggtcaaagg cttctatccc 1140

agcgacatcg ccgtggagtg ggagagcaat gggcagccgg agaacaacta caagaccacg 1200

cctcccgtgc tggactccga cggctccttc ttcctctaca gcaagctcac cgtggacaag 1260

agcaggtggc agcaggggaa cgtcttctca tgctccgtga tgcatgaggc tctgcacaac 1320

cactacacgc agaagagcct ctccctgtct ccgggtaaa 1359

<210> 732
<211> 369
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 732
gaggtgcagc ttgtggagtc tgggggaggc ttggtccagc ctgggggggtc cctgagactc 60

tcctgtgcag cctctggaat cgacctcagt agctatgcaa tgggctgggt ccgtcaggct 120

ccagggaagg ggctggagta catcggaatc attgttagtt atgggcccac atactacgct 180

agctgggcta aaggccgatt caccatctcc agagacaatt ccaagaacac cgtgtatctt 240

caaatgaaca gcctgagagc tgaggacact gccacctatt tctgtgccag agatctggat 300

gctcaaagta gtggttacta tggagctttt aacatctggg gccaagggac cctcgtcacc 360

gtctcgagc 369

<210> 733
<211> 90
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 733
gaggtgcagc ttgtggagtc tgggggaggc ttggtccagc ctgggggggtc cctgagactc 60

tcctgtgcag cctctggaat cgacctcagt 90

<210> 734

<211> 15
<212> DNA
<213> Oryctolagus cuniculus

<400> 734
agctatgcaa tgggc 15

<210> 735
<211> 42
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 735
tgggtccgtc aggctccagg gaaggggctg gagtacatcg ga 42

<210> 736
<211> 48
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 736
atcattgtta gttatgggcc cacatactac gctagctggg ctaaaggc 48

<210> 737
<211> 96
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 737
cgattcacca tctccagaga caattccaag aacaccgtgt atcttcaaat gaacagcctg 60

agagctgagg acactgccac ctatttctgt gccaga 96

<210> 738
<211> 45
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 738
gatctggatg ctcaaagtag tggttactat ggagctttta acatc 45

<210> 739
<211> 33
<212> DNA

<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 739
tggggccaag ggaccctcgt caccgtctcg agc 33

<210> 740
<211> 990
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 740
gcctccacca agggcccatc ggtcttcccc ctggcaccct cctccaagag cacctctggg 60

ggcacagcgg ccctgggctg cctggtcaag gactacttcc ccgaaccggt gacggtgtcg 120

tggaactcag gcgccctgac cagcggcgtg cacaccttcc cggctgtcct acagtcctca 180

ggactctact ccctcagcag cgtggtgacc gtgccctcca gcagcttggg cacccagacc 240

tacatctgca acgtgaatca caagcccagc aacaccaagg tggacaagag agttgagccc 300

aaatcttgtg acaaaactca cacatgccca ccgtgcccag cacctgaact cctgggggga 360

ccgtcagtct tcctcttccc cccaaaaccc aaggacaccc tcatgatctc ccggacccct 420

gaggtcacat gcgtggtggt ggacgtgagc cacgaagacc ctgaggtcaa gttcaactgg 480

tacgtggacg gcgtggaggt gcataatgcc aagacaaagc cgcgggagga gcagtacgcc 540

agcacgtacc gtgtggtcag cgtcctcacc gtcctgcacc aggactggct gaatggcaag 600

gagtacaagt gcaaggtctc caacaaagcc ctcccagccc ccatcgagaa aaccatctcc 660

aaagccaaag ggcagccccg agaaccacag gtgtacaccc tgcccccatc ccgggaggag 720

atgaccaaga accaggtcag cctgacctgc ctggtcaaag gcttctatcc cagcgacatc 780

gccgtggagt gggagagcaa tgggcagccg gagaacaact acaagaccac gcctcccgtg 840

ctggactccg acggctcctt cttcctctac agcaagctca ccgtggacaa gagcaggtgg 900

cagcagggga acgtcttctc atgctccgtg atgcatgagg ctctgcacaa ccactacacg 960

cagaagagcc tctccctgtc tccgggtaaa 990

<210> 741
<211> 215
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 741

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

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

Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile
        35                  40                  45

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

Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
65                  70                  75                  80

Asp Asp Phe Ala Thr Tyr Tyr Cys Gln Ser Tyr Tyr Gly Ser Ser Asn
                85                  90                  95

Ile Ala Phe Gly Gly Gly Thr Lys Val Glu Ile Lys Arg Thr Val Ala
            100                 105                 110

Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu Lys Ser
        115                 120                 125

Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro Arg Glu
    130                 135                 140

Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly Asn Ser
145                 150                 155                 160

Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr Ser Leu
                165                 170                 175

Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys His Lys Val
            180                 185                 190

Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro Val Thr Lys
        195                 200                 205

Ser Phe Asn Arg Gly Glu Cys
    210                 215
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<210> 742
<211> 108
<212> PRT

<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 742

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

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

Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile
35 40 45

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

Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
65 70 75 80

Asp Asp Phe Ala Thr Tyr Tyr Cys Gln Ser Tyr Tyr Gly Ser Ser Asn
85 90 95

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

<210> 743
<211> 23
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 743

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

Asp Arg Val Thr Ile Thr Cys
20

<210> 744
<211> 11
<212> PRT
<213> Oryctolagus cuniculus

<400> 744

Gln Ala Ser Gln Ser Ile Ser Thr Ala Leu Ala

1 5 10

<210> 745
<211> 15
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 745

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

<210> 746
<211> 7
<212> PRT
<213> Oryctolagus cuniculus

<400> 746

Ala Ala Ser Pro Leu Ala Ser
1 5

<210> 747
<211> 32
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 747

Gly Val Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Glu Phe Thr
1 5 10 15

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

<210> 748
<211> 10
<212> PRT
<213> Oryctolagus cuniculus

<400> 748

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

<210> 749
<211> 10
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 749

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

<210> 750
<211> 107
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 750

Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu
1 5 10 15

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

Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln
35 40 45

Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser
50 55 60

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

Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser
85 90 95

Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
100 105

<210> 751
<211> 645
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 751
gacatccaga tgacccagtc tccttccacc ctgtctgcat ctgtaggaga cagagtcacc 60

atcacttgtc aggccagtca gagcattagc actgcattag cctggtatca gcagaaacca 120

ggaaaagccc ctaagctcct gatctatgct gcatcccctc tggcatctgg agtcccatca 180

aggttcagcg gcagtggatc tggaacagaa ttcactctca ccatcagcag cctgcagcct 240

gatgattttg caacttacta ctgtcaaagc tattatggta gtagcaacat tgctttcggc 300

ggaggaacca aggtggaaat caaacgtacg gtggctgcac catctgtctt catcttcccg 360

ccatctgatg agcagttgaa atctggaact gcctctgttg tgtgcctgct gaataacttc 420

tatcccagag aggccaaagt acagtggaag gtggataacg ccctccaatc gggtaactcc 480

caggagagtg tcacagagca ggacagcaag gacagcacct acagcctcag cagcaccctg 540

acgctgagca aagcagacta cgagaaacac aaagtctacg cctgcgaagt cacccatcag 600

ggcctgagct cgcccgtcac aaagagcttc aacaggggag agtgt 645

<210> 752
<211> 324
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 752
gacatccaga tgacccagtc tccttccacc ctgtctgcat ctgtaggaga cagagtcacc 60

atcacttgtc aggccagtca gagcattagc actgcattag cctggtatca gcagaaacca 120

ggaaaagccc ctaagctcct gatctatgct gcatcccctc tggcatctgg agtcccatca 180

aggttcagcg gcagtggatc tggaacagaa ttcactctca ccatcagcag cctgcagcct 240

gatgattttg caacttacta ctgtcaaagc tattatggta gtagcaacat tgctttcggc 300

ggaggaacca aggtggaaat caaa 324

<210> 753
<211> 69
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 753
gacatccaga tgacccagtc tccttccacc ctgtctgcat ctgtaggaga cagagtcacc 60

atcacttgt 69

<210> 754
<211> 33
<212> DNA
<213> Oryctolagus cuniculus

<400> 754

caggccagtc agagcattag cactgcatta gcc 33

<210> 755
<211> 45
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 755
tggtatcagc agaaaccagg aaaagcccct aagctcctga tctat 45

<210> 756
<211> 21
<212> DNA
<213> Oryctolagus cuniculus

<400> 756
gctgcatccc ctctggcatc t 21

<210> 757
<211> 96
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 757
ggagtcccat caaggttcag cggcagtgga tctggaacag aattcactct caccatcagc 60

agcctgcagc ctgatgattt tgcaacttac tactgt 96

<210> 758
<211> 30
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 758
caaagctatt atggtagtag caacattgct 30

<210> 759
<211> 30
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 759
ttcggcggag gaaccaaggt ggaaatcaaa 30

<210> 760
<211> 321
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 760
cgtacggtgg ctgcaccatc tgtcttcatc ttcccgccat ctgatgagca gttgaaatct 60

ggaactgcct ctgttgtgtg cctgctgaat aacttctatc ccagagaggc caaagtacag 120

tggaaggtgg ataacgccct ccaatcgggt aactcccagg agagtgtcac agagcaggac 180

agcaaggaca gcacctacag cctcagcagc accctgacgc tgagcaaagc agactacgag 240

aaacacaaag tctacgcctg cgaagtcacc catcagggcc tgagctcgcc cgtcacaaag 300

agcttcaaca ggggagagtg t 321

<210> 761
<211> 453
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 761

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 Ile Asp Leu Ser Ser Tyr
20 25 30

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

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

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

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

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

```
Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly
        115                 120                 125

Pro Ser Val Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly
    130                 135                 140

Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val
145                 150                 155                 160

Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe
                165                 170                 175

Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val
            180                 185                 190

Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val
        195                 200                 205

Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys Arg Val Glu Pro Lys
    210                 215                 220

Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu
225                 230                 235                 240

Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr
                245                 250                 255

Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val
            260                 265                 270

Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val
        275                 280                 285

Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Ala Ser
    290                 295                 300

Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu
305                 310                 315                 320

Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala
                325                 330                 335

Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro
            340                 345                 350

Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu Met Thr Lys Asn Gln
```

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        355                 360                 365

Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala
    370                 375                 380

Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr
385                 390                 395                 400

Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu
                405                 410                 415

Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser
            420                 425                 430

Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser
        435                 440                 445

Leu Ser Pro Gly Lys
    450


<210>  762
<211>  123
<212>  PRT
<213>  Artificial

<220>
<223>  Humanized Antibody Sequence

<400>  762

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 Ile Asp Leu Ser Ser Tyr
            20                  25                  30

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

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

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

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

```
Arg Asp Leu Asp Ala Gln Ser Ser Gly Tyr Tyr Gly Ala Phe Asn Ile
            100                 105                 110


Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
        115                 120


<210>  763
<211>  30
<212>  PRT
<213>  Artificial

<220>
<223>  Humanized Antibody Sequence

<400>  763

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 Ile Asp Leu Ser
            20                  25                  30


<210>  764
<211>  5
<212>  PRT
<213>  Oryctolagus cuniculus

<400>  764

Ser Tyr Ala Met Gly
1               5


<210>  765
<211>  14
<212>  PRT
<213>  Artificial

<220>
<223>  Humanized Antibody Sequence

<400>  765

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


<210>  766
<211>  16
<212>  PRT
<213>  Oryctolagus cuniculus

<400>  766

Ile Ile Val Ser Tyr Gly Pro Thr Tyr Tyr Ala Ser Trp Ala Lys Gly
1               5                   10                  15
```

<210> 767
<211> 32
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 767

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

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

<210> 768
<211> 15
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 768

Asp Leu Asp Ala Gln Ser Ser Gly Tyr Tyr Gly Ala Phe Asn Ile
1 5 10 15

<210> 769
<211> 11
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 769

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

<210> 770
<211> 330
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 770

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

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

Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser
        35                  40                  45

Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser
    50                  55                  60

Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr
65                  70                  75                  80

Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys
                85                  90                  95

Arg Val Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys
            100                 105                 110

Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro
        115                 120                 125

Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys
    130                 135                 140

Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp
145                 150                 155                 160

Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu
                165                 170                 175

Glu Gln Tyr Ala Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu
            180                 185                 190

His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn
        195                 200                 205

Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly
    210                 215                 220

Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu
225                 230                 235                 240

Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr
                245                 250                 255

Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn
```

260 265 270

Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe
275 280 285

Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn
290 295 300

Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr
305 310 315 320

Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
325 330

<210> 771
<211> 1359
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 771
gaggtgcagc ttgtggagtc tgggggaggc ttggtccagc ctgggggtc cctgagactc 60

tcctgtgcag cctctggaat cgacctcagt agctatgcaa tgggctgggt ccgtcaggct 120

ccagggaagg ggctggagta catcggaatc attgttagtt atgggcccac atactacgct 180

agctgggcta aaggccgatt caccatctcc agagacaatt ccaagtccac cgtgtatctt 240

caaatgaaca gcctgagagc tgaggacact gccacctatt tctgtgccag agatctggat 300

gctcaaagta gtggttacta tggagctttt aacatctggg gccaagggac cctcgtcacc 360

gtctcgagcg cctccaccaa gggcccatcg gtcttccccc tggcaccctc ctccaagagc 420

acctctgggg gcacagcggc cctgggctgc ctggtcaagg actacttccc cgaaccggtg 480

acggtgtcgt ggaactcagg cgccctgacc agcggcgtgc acaccttccc ggctgtccta 540

cagtcctcag gactctactc cctcagcagc gtggtgaccg tgccctccag cagcttgggc 600

acccagacct acatctgcaa cgtgaatcac aagcccagca acaccaaggt ggacaagaga 660

gttgagccca aatcttgtga caaaactcac acatgcccac cgtgcccagc acctgaactc 720

ctgggggggac cgtcagtctt cctcttcccc ccaaaaccca aggacaccct catgatctcc 780

cggacccctg aggtcacatg cgtggtggtg gacgtgagcc acgaagaccc tgaggtcaag 840

ttcaactggt acgtggacgg cgtggaggtg cataatgcca agacaaagcc gcgggaggag 900

cagtacgcca gcacgtaccg tgtggtcagc gtcctcaccg tcctgcacca ggactggctg 960

aatggcaagg agtacaagtg caaggtctcc aacaaagccc tcccagcccc catcgagaaa 1020

accatctcca aagccaaagg gcagccccga gaaccacagg tgtacaccct gcccccatcc 1080

cgggaggaga tgaccaagaa ccaggtcagc ctgacctgcc tggtcaaagg cttctatccc 1140

agcgacatcg ccgtggagtg ggagagcaat gggcagccgg agaacaacta caagaccacg 1200

cctcccgtgc tggactccga cggctccttc ttcctctaca gcaagctcac cgtggacaag 1260

agcaggtggc agcaggggaa cgtcttctca tgctccgtga tgcatgaggc tctgcacaac 1320

cactacacgc agaagagcct ctccctgtct ccgggtaaa 1359

<210> 772
<211> 369
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 772
gaggtgcagc ttgtggagtc tgggggaggc ttggtccagc ctgggggggtc cctgagactc 60

tcctgtgcag cctctggaat cgacctcagt agctatgcaa tgggctgggt ccgtcaggct 120

ccagggaagg ggctggagta catcggaatc attgttagtt atgggcccac atactacgct 180

agctgggcta aaggccgatt caccatctcc agagacaatt ccaagtccac cgtgtatctt 240

caaatgaaca gcctgagagc tgaggacact gccacctatt tctgtgccag agatctggat 300

gctcaaagta gtggttacta tggagctttt aacatctggg gccaagggac cctcgtcacc 360

gtctcgagc 369

<210> 773
<211> 90
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 773
gaggtgcagc ttgtggagtc tgggggaggc ttggtccagc ctgggggggtc cctgagactc 60

tcctgtgcag cctctggaat cgacctcagt 90

<210> 774
<211> 15
<212> DNA
<213> Oryctolagus cuniculus

<400> 774
agctatgcaa tgggc 15

<210> 775
<211> 42
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 775
tgggtccgtc aggctccagg gaaggggctg gagtacatcg ga 42

<210> 776
<211> 48
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 776
atcattgtta gttatgggcc cacatactac gctagctggg ctaaaggc 48

<210> 777
<211> 96
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 777
cgattcacca tctccagaga caattccaag tccaccgtgt atcttcaaat gaacagcctg 60

agagctgagg acactgccac ctatttctgt gccaga 96

<210> 778
<211> 45
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 778
gatctggatg ctcaaagtag tggttactat ggagctttta acatc 45

<210> 779
<211> 33
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 779
tggggccaag ggaccctcgt caccgtctcg agc 33

<210> 780
<211> 990
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 780
gcctccacca agggcccatc ggtcttcccc ctggcaccct cctccaagag cacctctggg 60

ggcacagcgg ccctgggctg cctggtcaag gactacttcc ccgaaccggt gacggtgtcg 120

tggaactcag gcgccctgac cagcggcgtg cacaccttcc cggctgtcct acagtcctca 180

ggactctact ccctcagcag cgtggtgacc gtgccctcca gcagcttggg cacccagacc 240

tacatctgca acgtgaatca caagcccagc aacaccaagg tggacaagag agttgagccc 300

aaatcttgtg acaaaactca cacatgccca ccgtgcccag cacctgaact cctgggggga 360

ccgtcagtct tcctcttccc cccaaaaccc aaggacaccc tcatgatctc ccggacccct 420

gaggtcacat gcgtggtggt ggacgtgagc cacgaagacc ctgaggtcaa gttcaactgg 480

tacgtggacg gcgtggaggt gcataatgcc aagacaaagc cgcgggagga gcagtacgcc 540

agcacgtacc gtgtggtcag cgtcctcacc gtcctgcacc aggactggct gaatggcaag 600

gagtacaagt gcaaggtctc caacaaagcc ctcccagccc ccatcgagaa aaccatctcc 660

aaagccaaag ggcagccccg agaaccacag gtgtacaccc tgcccccatc ccgggaggag 720

atgaccaaga accaggtcag cctgacctgc ctggtcaaag gcttctatcc cagcgacatc 780

gccgtggagt gggagagcaa tgggcagccg gagaacaact acaagaccac gcctcccgtg 840

ctggactccg acggctcctt cttcctctac agcaagctca ccgtggacaa gagcaggtgg 900

cagcagggga acgtcttctc atgctccgtg atgcatgagg ctctgcacaa ccactacacg 960

cagaagagcc tctccctgtc tccgggtaaa 990

<210> 781
<211> 215
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 781

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

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

```
Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile
        35                  40                  45

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

Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
65                  70                  75                  80

Asp Asp Phe Ala Thr Tyr Tyr Cys Gln Ser Tyr Tyr Gly Ser Ser Asn
                85                  90                  95

Ile Ala Phe Gly Gly Gly Thr Lys Val Glu Ile Lys Arg Thr Val Ala
            100                 105                 110

Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu Lys Ser
        115                 120                 125

Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro Arg Glu
    130                 135                 140

Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly Asn Ser
145                 150                 155                 160

Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr Ser Leu
                165                 170                 175

Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys His Lys Val
            180                 185                 190

Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro Val Thr Lys
        195                 200                 205

Ser Phe Asn Arg Gly Glu Cys
    210                 215


<210>  782
<211>  108
<212>  PRT
<213>  Artificial

<220>
<223>  Humanized Antibody Sequence

<400>  782

Asp Ile Gln Met Thr Gln Ser Pro Ser Thr Leu Ser Ala Ser Val Gly
```

```
1               5                   10                  15

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

Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile
        35                  40                  45

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

Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
65                  70                  75                  80

Asp Asp Phe Ala Thr Tyr Tyr Cys Gln Ser Tyr Tyr Gly Ser Ser Asn
                85                  90                  95

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


<210>  783
<211>  23
<212>  PRT
<213>  Artificial

<220>
<223>  Humanized Antibody Sequence

<400>  783

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

Asp Arg Val Thr Ile Thr Cys
            20


<210>  784
<211>  11
<212>  PRT
<213>  Oryctolagus cuniculus

<400>  784

Gln Ala Ser Gln Ser Ile Ser Thr Ala Leu Ala
1               5                   10


<210>  785
<211>  15
<212>  PRT
<213>  Artificial
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<220>
<223> Humanized Antibody Sequence

<400> 785

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

<210> 786
<211> 7
<212> PRT
<213> Oryctolagus cuniculus

<400> 786

Ala Ala Ser Pro Leu Ala Ser
1   5

<210> 787
<211> 32
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 787

Gly Val Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Glu Phe Thr
1   5   10   15

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

<210> 788
<211> 10
<212> PRT
<213> Oryctolagus cuniculus

<400> 788

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

<210> 789
<211> 10
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 789

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

<210> 790
<211> 107
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 790

Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu
1 5 10 15

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

Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln
35 40 45

Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser
50 55 60

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

Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser
85 90 95

Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
100 105

<210> 791
<211> 645
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 791
gacatccaga tgacccagtc tccttccacc ctgtctgcat ctgtaggaga cagagtcacc 60

atcacttgtc aggccagtca gagcattagc actgcattag cctggtatca gcagaaacca 120

ggaaaagccc ctaagctcct gatctatgct gcatcccctc tggcatctgg agtcccatca 180

aggttcagcg gcagtggatc tggaacagaa ttcactctca ccatcagcag cctgcagcct 240

gatgattttg caacttacta ctgtcaaagc tattatggta gtagcaacat tgctttcggc 300

ggaggaacca aggtggaaat caaacgtacg gtggctgcac catctgtctt catcttcccg 360

ccatctgatg agcagttgaa atctggaact gcctctgttg tgtgcctgct gaataacttc 420

tatcccagag aggccaaagt acagtggaag gtggataacg ccctccaatc gggtaactcc 480

caggagagtg tcacagagca ggacagcaag gacagcacct acagcctcag cagcaccctg 540

acgctgagca aagcagacta cgagaaacac aaagtctacg cctgcgaagt cacccatcag 600

ggcctgagct cgcccgtcac aaagagcttc aacaggggag agtgt 645

<210> 792
<211> 324
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 792
gacatccaga tgacccagtc tccttccacc ctgtctgcat ctgtaggaga cagagtcacc 60

atcacttgtc aggccagtca gagcattagc actgcattag cctggtatca gcagaaacca 120

ggaaaagccc ctaagctcct gatctatgct gcatcccctc tggcatctgg agtcccatca 180

aggttcagcg gcagtggatc tggaacagaa ttcactctca ccatcagcag cctgcagcct 240

gatgattttg caacttacta ctgtcaaagc tattatggta gtagcaacat tgctttcggc 300

ggaggaacca aggtggaaat caaa 324

<210> 793
<211> 69
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 793
gacatccaga tgacccagtc tccttccacc ctgtctgcat ctgtaggaga cagagtcacc 60

atcacttgt 69

<210> 794
<211> 33
<212> DNA
<213> Oryctolagus cuniculus

<400> 794
caggccagtc agagcattag cactgcatta gcc 33

<210> 795
<211> 45
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 795
tggtatcagc agaaaccagg aaaagcccct aagctcctga tctat 45

<210> 796
<211> 21
<212> DNA
<213> Oryctolagus cuniculus

<400> 796
gctgcatccc ctctggcatc t 21

<210> 797
<211> 96
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 797
ggagtcccat caaggttcag cggcagtgga tctggaacag aattcactct caccatcagc 60

agcctgcagc ctgatgattt tgcaacttac tactgt 96

<210> 798
<211> 30
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 798
caaagctatt atggtagtag caacattgct 30

<210> 799
<211> 30
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 799
ttcggcggag gaaccaaggt ggaaatcaaa 30

<210> 800
<211> 321
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 800
cgtacggtgg ctgcaccatc tgtcttcatc ttcccgccat ctgatgagca gttgaaatct 60

ggaactgcct ctgttgtgtg cctgctgaat aacttctatc ccagagaggc caaagtacag 120

tggaaggtgg ataacgccct ccaatcgggt aactcccagg agagtgtcac agagcaggac 180

agcaaggaca gcacctacag cctcagcagc accctgacgc tgagcaaagc agactacgag 240

aaacacaaag tctacgcctg cgaagtcacc catcagggcc tgagctcgcc cgtcacaaag 300

agcttcaaca ggggagagtg t 321

<210> 801
<211> 448
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 801

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

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

Ala Ile Arg Ser Ser Gly Ala Thr Phe Phe Ala Ser Trp Val Asn Gly
50 55 60

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

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

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

Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro
115 120 125

Leu Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly
130 135 140

```
Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Asn
145                 150                 155                 160

Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala Val Leu Gln
                165                 170                 175

Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser
            180                 185                 190

Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His Lys Pro Ser
        195                 200                 205

Asn Thr Lys Val Asp Lys Arg Val Glu Pro Lys Ser Cys Asp Lys Thr
    210                 215                 220

His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser
225                 230                 235                 240

Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg
                245                 250                 255

Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His Glu Asp Pro
            260                 265                 270

Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala
        275                 280                 285

Lys Thr Lys Pro Arg Glu Glu Gln Tyr Ala Ser Thr Tyr Arg Val Val
    290                 295                 300

Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr
305                 310                 315                 320

Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr
                325                 330                 335

Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu
            340                 345                 350

Pro Pro Ser Arg Glu Glu Met Thr Lys Asn Gln Val Ser Leu Thr Cys
        355                 360                 365

Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser
    370                 375                 380

Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp
```

385 390 395 400

Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser
405 410 415

Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala
420 425 430

Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
435 440 445

<210> 802
<211> 118
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 802

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

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

Ala Ile Arg Ser Ser Gly Ala Thr Phe Phe Ala Ser Trp Val Asn Gly
50 55 60

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

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

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

Leu Val Thr Val Ser Ser
115

<210> 803
<211> 29
<212> PRT
<213> Oryctolagus cuniculus

<400> 803

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 Thr Val Ser Gly Phe Ser Leu Ser
20 25

<210> 804
<211> 5
<212> PRT
<213> Oryctolagus cuniculus

<400> 804

Ser Tyr Ala Met Asn
1 5

<210> 805
<211> 14
<212> PRT
<213> Oryctolagus cuniculus

<400> 805

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

<210> 806
<211> 16
<212> PRT
<213> Oryctolagus cuniculus

<400> 806

Ala Ile Arg Ser Ser Gly Ala Thr Phe Phe Ala Ser Trp Val Asn Gly
1 5 10 15

<210> 807
<211> 30
<212> PRT
<213> Oryctolagus cuniculus

<400> 807

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

Ser Pro Thr Pro Glu Asp Thr Ala Thr Tyr Phe Cys Ala Arg
20 25 30

<210> 808
<211> 13

<212> PRT
<213> Oryctolagus cuniculus

<400> 808

Asp Thr Asn Asp Gly Trp Tyr Ile Asn Arg Leu Asp Leu
1 5 10

<210> 809
<211> 11
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 809

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

<210> 810
<211> 330
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 810

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

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

Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser
35 40 45

Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser
50 55 60

Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr
65 70 75 80

Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys
85 90 95

Arg Val Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys
100 105 110

```
Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro
        115                 120                 125

Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys
    130                 135                 140

Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp
145                 150                 155                 160

Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu
                165                 170                 175

Glu Gln Tyr Ala Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu
            180                 185                 190

His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn
        195                 200                 205

Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly
    210                 215                 220

Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu
225                 230                 235                 240

Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr
                245                 250                 255

Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn
            260                 265                 270

Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe
        275                 280                 285

Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn
    290                 295                 300

Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr
305                 310                 315                 320

Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
                325                 330
```

<210> 811
<211> 1344
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 811
cagtcggtgg aggagtccgg gggtcgcctg gtcacgcctg ggacacccct gacactcacc 60

tgcacagtct ctggattctc cctcagtagt tatgcaatga attgggtccg ccaggctcca 120

gggaaggggc tggagtggat cggggccatt cgtagtagtg gtgccacatt cttcgcgagc 180

tgggtgaatg gccgtttcac catctccaaa acctcgacca cggtggatct gaaaatcacc 240

agtccgacac ccgaggacac ggccacctat ttctgtgcca gagatactaa tgatggttgg 300

tatattaatc ggttggatct ctggggcccg ggcaccctcg tcaccgtctc gagcgcctcc 360

accaagggcc catcggtctt ccccctggca ccctcctcca agagcacctc tgggggcaca 420

gcggccctgg gctgcctggt caaggactac ttccccgaac cggtgacggt gtcgtggaac 480

tcaggcgccc tgaccagcgg cgtgcacacc ttcccggctg tcctacagtc ctcaggactc 540

tactccctca gcagcgtggt gaccgtgccc tccagcagct tgggcaccca gacctacatc 600

tgcaacgtga atcacaagcc cagcaacacc aaggtggaca agagagttga gcccaaatct 660

tgtgacaaaa ctcacacatg cccaccgtgc ccagcacctg aactcctggg gggaccgtca 720

gtcttcctct tccccccaaa acccaaggac accctcatga tctcccggac ccctgaggtc 780

acatgcgtgg tggtggacgt gagccacgaa gaccctgagg tcaagttcaa ctggtacgtg 840

gacggcgtgg aggtgcataa tgccaagaca aagccgcggg aggagcagta cgccagcacg 900

taccgtgtgg tcagcgtcct caccgtcctg caccaggact ggctgaatgg caaggagtac 960

aagtgcaagg tctccaacaa agccctccca gcccccatcg agaaaaccat ctccaaagcc 1020

aaagggcagc cccgagaacc acaggtgtac accctgcccc catcccggga ggagatgacc 1080

aagaaccagg tcagcctgac ctgcctggtc aaaggcttct atcccagcga catcgccgtg 1140

gagtgggaga gcaatgggca gccggagaac aactacaaga ccacgcctcc cgtgctggac 1200

tccgacggct ccttcttcct ctacagcaag ctcaccgtgg acaagagcag gtggcagcag 1260

gggaacgtct tctcatgctc cgtgatgcat gaggctctgc acaaccacta cacgcagaag 1320

agcctctccc tgtctccggg taaa 1344

<210> 812
<211> 354
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 812
cagtcggtgg aggagtccgg gggtcgcctg gtcacgcctg ggacacccct gacactcacc 60

tgcacagtct ctggattctc cctcagtagt tatgcaatga attgggtccg ccaggctcca 120

gggaaggggc tggagtggat cggggccatt cgtagtagtg gtgccacatt cttcgcgagc 180

tgggtgaatg gccgtttcac catctccaaa acctcgacca cggtggatct gaaaatcacc 240

agtccgacac ccgaggacac ggccacctat ttctgtgcca gagatactaa tgatggttgg 300

tatattaatc ggttggatct ctggggcccg ggcaccctcg tcaccgtctc gagc 354

<210> 813
<211> 87
<212> DNA
<213> Oryctolagus cuniculus

<400> 813
cagtcggtgg aggagtccgg gggtcgcctg gtcacgcctg ggacacccct gacactcacc 60

tgcacagtct ctggattctc cctcagt 87

<210> 814
<211> 15
<212> DNA
<213> Oryctolagus cuniculus

<400> 814
agttatgcaa tgaat 15

<210> 815
<211> 42
<212> DNA
<213> Oryctolagus cuniculus

<400> 815
tgggtccgcc aggctccagg gaaggggctg gagtggatcg gg 42

<210> 816
<211> 48
<212> DNA
<213> Oryctolagus cuniculus

<400> 816
gccattcgta gtagtggtgc cacattcttc gcgagctggg tgaatggc 48

<210> 817
<211> 90
<212> DNA
<213> Oryctolagus cuniculus

<400> 817
cgtttcacca tctccaaaac ctcgaccacg gtggatctga aaatcaccag tccgacaccc 60

gaggacacgg ccacctattt ctgtgccaga 90

<210> 818
<211> 39
<212> DNA
<213> Oryctolagus cuniculus

<400> 818
gatactaatg atggttggta tattaatcgg ttggatctc 39

<210> 819
<211> 33
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 819
tggggcccgg gcaccctcgt caccgtctcg agc 33

<210> 820
<211> 990
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 820
gcctccacca agggcccatc ggtcttcccc ctggcaccct cctccaagag cacctctggg 60

ggcacagcgg ccctgggctg cctggtcaag gactacttcc ccgaaccggt gacggtgtcg 120

tggaactcag gcgccctgac cagcggcgtg cacaccttcc cggctgtcct acagtcctca 180

ggactctact ccctcagcag cgtggtgacc gtgccctcca gcagcttggg cacccagacc 240

tacatctgca acgtgaatca caagcccagc aacaccaagg tggacaagag agttgagccc 300

aaatcttgtg acaaaactca cacatgccca ccgtgcccag cacctgaact cctgggggga 360

ccgtcagtct tcctcttccc cccaaaaccc aaggacaccc tcatgatctc ccggacccct 420

gaggtcacat gcgtggtggt ggacgtgagc cacgaagacc ctgaggtcaa gttcaactgg 480

tacgtggacg gcgtggaggt gcataatgcc aagacaaagc cgcgggagga gcagtacgcc 540

agcacgtacc gtgtggtcag cgtcctcacc gtcctgcacc aggactggct gaatggcaag 600

gagtacaagt gcaaggtctc caacaaagcc ctcccagccc ccatcgagaa aaccatctcc 660

aaagccaaag ggcagccccg agaaccacag gtgtacaccc tgcccccatc ccgggaggag 720

atgaccaaga accaggtcag cctgacctgc ctggtcaaag gcttctatcc cagcgacatc 780

gccgtggagt gggagagcaa tgggcagccg gagaacaact acaagaccac gcctcccgtg 840

ctggactccg acggctcctt cttcctctac agcaagctca ccgtggacaa gagcaggtgg 900

cagcagggga acgtcttctc atgctccgtg atgcatgagg ctctgcacaa ccactacacg 960

cagaagagcc tctccctgtc tccgggtaaa 990

<210> 821
<211> 217
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 821

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

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

Tyr Leu Ser Trp Phe Gln Gln Lys Pro Gly Gln Pro Pro Lys Phe Leu
35 40 45

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

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

Cys Asp Asp Ala Ala Thr Tyr Tyr Cys Ala Gly Gly Asp Thr Asn Ile
85 90 95

Ser Asp Asn Ala Phe Gly Gly Gly Thr Glu Val Val Val Lys Arg Thr
100 105 110

Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu
115 120 125

Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro
130 135 140

Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly
145 150 155 160

Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr
165 170 175

Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys His
180 185 190

```
Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro Val
        195                 200                 205


Thr Lys Ser Phe Asn Arg Gly Glu Cys
    210                 215


<210>  822
<211>  110
<212>  PRT
<213>  Artificial

<220>
<223>  Humanized Antibody Sequence

<400>  822

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


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


Tyr Leu Ser Trp Phe Gln Gln Lys Pro Gly Gln Pro Pro Lys Phe Leu
        35                  40                  45


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


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


Cys Asp Asp Ala Ala Thr Tyr Tyr Cys Ala Gly Gly Asp Thr Asn Ile
                85                  90                  95


Ser Asp Asn Ala Phe Gly Gly Gly Thr Glu Val Val Val Lys
            100                 105                 110


<210>  823
<211>  23
<212>  PRT
<213>  Oryctolagus cuniculus

<400>  823

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


Gly Thr Val Ser Ile Ser Cys
            20
```

<210> 824
<211> 12
<212> PRT
<213> Oryctolagus cuniculus

<400> 824

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

<210> 825
<211> 15
<212> PRT
<213> Oryctolagus cuniculus

<400> 825

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

<210> 826
<211> 7
<212> PRT
<213> Oryctolagus cuniculus

<400> 826

Lys Ala Ser Thr Leu Ala Ser
1 5

<210> 827
<211> 32
<212> PRT
<213> Oryctolagus cuniculus

<400> 827

Gly Val Pro Ser Arg Phe Lys Gly Ser Gly Ser Gly Thr Gln Phe Thr
1 5 10 15

Leu Thr Ile Ser Asp Val Gln Cys Asp Asp Ala Ala Thr Tyr Tyr Cys
20 25 30

<210> 828
<211> 11
<212> PRT
<213> Oryctolagus cuniculus

<400> 828

Ala Gly Gly Asp Thr Asn Ile Ser Asp Asn Ala
1 5 10

<210> 829

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

<220>
<223> Humanized Antibody Sequence

<400> 829

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

<210> 830
<211> 107
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 830

Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu
1 5 10 15

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

Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln
35 40 45

Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser
50 55 60

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

Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser
85 90 95

Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
100 105

<210> 831
<211> 651
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 831
gccgccgtgc tgacccagac tccatctccc gtgtctgcag ctgtgggagg cacagtcagc 60

atcagttgcc agtccagtaa gagtgtttat agtaactact tatcctggtt tcagcagaaa 120

ccagggcagc ctcccaagtt cctgatctac aaggcatcca ctctggcatc tggggtccca 180

tcgcggttca aaggcagtgg atctgggaca cagttcactc tcaccatcag cgacgtgcag 240

tgtgacgatg ctgccactta ctactgtgca ggcggtgata ctaatattag tgataatgct 300

ttcggcggag ggaccgaggt ggtggtcaaa cgtacggtag cggccccatc tgtcttcatc 360

ttcccgccat ctgatgagca gttgaaatct ggaactgcct ctgttgtgtg cctgctgaat 420

aacttctatc ccagagaggc caaagtacag tggaaggtgg ataacgccct ccaatcgggt 480

aactcccagg agagtgtcac agagcaggac agcaaggaca gcacctacag cctcagcagc 540

accctgacgc tgagcaaagc agactacgag aaacacaaag tctacgcctg cgaagtcacc 600

catcagggcc tgagctcgcc cgtcacaaag agcttcaaca ggggagagtg t 651

<210> 832
<211> 330
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 832
gccgccgtgc tgacccagac tccatctccc gtgtctgcag ctgtgggagg cacagtcagc 60

atcagttgcc agtccagtaa gagtgtttat agtaactact tatcctggtt tcagcagaaa 120

ccagggcagc ctcccaagtt cctgatctac aaggcatcca ctctggcatc tggggtccca 180

tcgcggttca aaggcagtgg atctgggaca cagttcactc tcaccatcag cgacgtgcag 240

tgtgacgatg ctgccactta ctactgtgca ggcggtgata ctaatattag tgataatgct 300

ttcggcggag ggaccgaggt ggtggtcaaa 330

<210> 833
<211> 69
<212> DNA
<213> Oryctolagus cuniculus

<400> 833
gccgccgtgc tgacccagac tccatctccc gtgtctgcag ctgtgggagg cacagtcagc 60

atcagttgc 69

<210> 834
<211> 36
<212> DNA
<213> Oryctolagus cuniculus

<400> 834

cagtccagta agagtgttta tagtaactac ttatcc 36

<210> 835
<211> 45
<212> DNA
<213> Oryctolagus cuniculus

<400> 835
tggtttcagc agaaaccagg gcagcctccc aagttcctga tctac 45

<210> 836
<211> 21
<212> DNA
<213> Oryctolagus cuniculus

<400> 836
aaggcatcca ctctggcatc t 21

<210> 837
<211> 96
<212> DNA
<213> Oryctolagus cuniculus

<400> 837
ggggtcccat cgcggttcaa aggcagtgga tctgggacac agttcactct caccatcagc 60

gacgtgcagt gtgacgatgc tgccacttac tactgt 96

<210> 838
<211> 33
<212> DNA
<213> Oryctolagus cuniculus

<400> 838
gcaggcggtg atactaatat tagtgataat gct 33

<210> 839
<211> 30
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 839
ttcggcggag ggaccgaggt ggtggtcaaa 30

<210> 840
<211> 321
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 840
cgtacggtag cggccccatc tgtcttcatc ttcccgccat ctgatgagca gttgaaatct 60

ggaactgcct ctgttgtgtg cctgctgaat aacttctatc ccagagaggc caaagtacag 120

tggaaggtgg ataacgccct ccaatcgggt aactcccagg agagtgtcac agagcaggac 180

agcaaggaca gcacctacag cctcagcagc accctgacgc tgagcaaagc agactacgag 240

aaacacaaag tctacgcctg cgaagtcacc catcagggcc tgagctcgcc cgtcacaaag 300

agcttcaaca ggggagagtg t 321

<210> 841
<211> 451
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 841

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 Ser Ser Tyr
20 25 30

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

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

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Val 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 Thr Asn Asp Gly Trp Tyr Ile Asn Arg Leu Asp Leu Trp Gly
100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser
115 120 125

Val Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala
130 135 140

Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val

```
145                 150                 155                 160

Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala
                165                 170                 175

Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val
            180                 185                 190

Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His
        195                 200                 205

Lys Pro Ser Asn Thr Lys Val Asp Ala Arg Val Glu Pro Lys Ser Cys
    210                 215                 220

Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly
225                 230                 235                 240

Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met
                245                 250                 255

Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His
            260                 265                 270

Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val
        275                 280                 285

His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Ala Ser Thr Tyr
    290                 295                 300

Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly
305                 310                 315                 320

Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile
                325                 330                 335

Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val
            340                 345                 350

Tyr Thr Leu Pro Pro Ser Arg Glu Glu Met Thr Lys Asn Gln Val Ser
        355                 360                 365

Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu
    370                 375                 380

Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro
385                 390                 395                 400
```

Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val
405 410 415

Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met
420 425 430

His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser
435 440 445

Pro Gly Lys
450

<210> 842
<211> 121
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 842

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 Ser Ser Tyr
20 25 30

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

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

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Val 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 Thr Asn Asp Gly Trp Tyr Ile Asn Arg Leu Asp Leu Trp Gly
100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 843

<211> 30
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 843

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 Ser
20 25 30

<210> 844
<211> 5
<212> PRT
<213> Oryctolagus cuniculus

<400> 844

Ser Tyr Ala Met Asn
1 5

<210> 845
<211> 14
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 845

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

<210> 846
<211> 16
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 846

Ala Ile Arg Ser Ser Gly Ala Thr Phe Phe Ala Ser Ser Val Asn Gly
1 5 10 15

<210> 847
<211> 32
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 847

Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Val 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> 848
<211> 13
<212> PRT
<213> Oryctolagus cuniculus

<400> 848

Asp Thr Asn Asp Gly Trp Tyr Ile Asn Arg Leu Asp Leu
1   5   10

<210> 849
<211> 11
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 849

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

<210> 850
<211> 330
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 850

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

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

Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser
        35   40   45

Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser

```
    50                  55                  60

Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr
65                  70                  75                  80

Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Ala
                85                  90                  95

Arg Val Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys
            100                 105                 110

Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro
        115                 120                 125

Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys
    130                 135                 140

Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp
145                 150                 155                 160

Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu
                165                 170                 175

Glu Gln Tyr Ala Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu
            180                 185                 190

His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn
        195                 200                 205

Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly
    210                 215                 220

Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu
225                 230                 235                 240

Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr
                245                 250                 255

Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn
            260                 265                 270

Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe
        275                 280                 285

Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn
    290                 295                 300
```

```
Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr
305                 310                 315                 320

Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
                325                 330
```

<210> 851
<211> 1353
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 851

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gaggtgcagc tggtggagtc tgggggaggc ttggtccagc ctgggggtc cctgagactc       60

tcctgtgcag cctctggatt ctccctcagt agttatgcaa tgaattgggt ccgccaggct      120

ccagggaagg ggctggagtg gatcggggcc attcgtagta gtggtgccac attcttcgcg      180

agctccgtga atggcagatt caccatctcc agagacaatt ccaagaacac ggtgtatctt      240

caaatgaaca gcctgagagc cgaggacacg gctgtgtatt actgtgcgag agatactaat      300

gatggttggt atattaatcg gttggatctc tggggccaag ggaccctcgt caccgtctcg      360

agcgcctcca ccaagggccc atcggtcttc cccctggcac cctcctccaa gagcacctct      420

gggggcacag cggccctggg ctgcctggtc aaggactact tccccgaacc ggtgacggtg      480

tcgtggaact caggcgccct gaccagcggc gtgcacacct tcccggctgt cctacagtcc      540

tcaggactct actccctcag cagcgtggtg accgtgccct ccagcagctt gggcacccag      600

acctacatct gcaacgtgaa tcacaagccc agcaacacca aggtggacgc gagagttgag      660

cccaaatctt gtgacaaaac tcacacatgc ccaccgtgcc cagcacctga actcctgggg      720

ggaccgtcag tcttcctctt ccccccaaaa cccaaggaca ccctcatgat ctcccggacc      780

cctgaggtca catgcgtggt ggtggacgtg agccacgaag accctgaggt caagttcaac      840

tggtacgtgg acggcgtgga ggtgcataat gccaagacaa agccgcggga ggagcagtac      900

gccagcacgt accgtgtggt cagcgtcctc accgtcctgc accaggactg gctgaatggc      960

aaggagtaca agtgcaaggt ctccaacaaa gccctcccag cccccatcga gaaaaccatc     1020

tccaaagcca aagggcagcc ccgagaacca caggtgtaca ccctgccccc atcccgggag     1080

gagatgacca agaaccaggt cagcctgacc tgcctggtca aaggcttcta tcccagcgac     1140

atcgccgtgg agtgggagag caatgggcag ccggagaaca actacaagac cacgcctccc     1200

gtgctggact ccgacggctc cttcttcctc tacagcaagc tcaccgtgga caagagcagg     1260
```

tggcagcagg ggaacgtctt ctcatgctcc gtgatgcatg aggctctgca caaccactac 1320

acgcagaaga gcctctccct gtctccgggt aaa 1353

<210> 852
<211> 363
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 852
gaggtgcagc tggtggagtc tgggggaggc ttggtccagc ctgggggggtc cctgagactc 60

tcctgtgcag cctctggatt ctccctcagt agttatgcaa tgaattgggt ccgccaggct 120

ccagggaagg ggctggagtg gatcggggcc attcgtagta gtggtgccac attcttcgcg 180

agctccgtga atggcagatt caccatctcc agagacaatt ccaagaacac ggtgtatctt 240

caaatgaaca gcctgagagc cgaggacacg gctgtgtatt actgtgcgag agatactaat 300

gatggttggt atattaatcg gttggatctc tggggccaag ggaccctcgt caccgtctcg 360

agc 363

<210> 853
<211> 90
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 853
gaggtgcagc tggtggagtc tgggggaggc ttggtccagc ctgggggggtc cctgagactc 60

tcctgtgcag cctctggatt ctccctcagt 90

<210> 854
<211> 15
<212> DNA
<213> Oryctolagus cuniculus

<400> 854
agttatgcaa tgaat 15

<210> 855
<211> 42
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 855

tgggtccgcc aggctccagg gaaggggctg gagtggatcg gg 42

<210> 856
<211> 48
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 856
gccattcgta gtagtggtgc cacattcttc gcgagctccg tgaatggc 48

<210> 857
<211> 96
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 857
agattcacca tctccagaga caattccaag aacacggtgt atcttcaaat gaacagcctg 60

agagccgagg acacggctgt gtattactgt gcgaga 96

<210> 858
<211> 39
<212> DNA
<213> Oryctolagus cuniculus

<400> 858
gatactaatg atggttggta tattaatcgg ttggatctc 39

<210> 859
<211> 33
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 859
tggggccaag ggaccctcgt caccgtctcg agc 33

<210> 860
<211> 990
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 860
gcctccacca agggcccatc ggtcttcccc ctggcaccct cctccaagag cacctctggg 60

```
ggcacagcgg ccctgggctg cctggtcaag gactacttcc ccgaaccggt gacggtgtcg      120

tggaactcag gcgccctgac cagcggcgtg cacaccttcc cggctgtcct acagtcctca      180

ggactctact ccctcagcag cgtggtgacc gtgccctcca gcagcttggg cacccagacc      240

tacatctgca acgtgaatca caagcccagc aacaccaagg tggacgcgag agttgagccc      300

aaatcttgtg acaaaactca cacatgccca ccgtgcccag cacctgaact cctgggggga      360

ccgtcagtct tcctcttccc cccaaaaccc aaggacaccc tcatgatctc ccggacccct      420

gaggtcacat gcgtggtggt ggacgtgagc cacgaagacc ctgaggtcaa gttcaactgg      480

tacgtggacg gcgtggaggt gcataatgcc aagacaaagc cgcgggagga gcagtacgcc      540

agcacgtacc gtgtggtcag cgtcctcacc gtcctgcacc aggactggct gaatggcaag      600

gagtacaagt gcaaggtctc caacaaagcc ctcccagccc ccatcgagaa aaccatctcc      660

aaagccaaag ggcagccccg agaaccacag gtgtacaccc tgcccccatc ccgggaggag      720

atgaccaaga accaggtcag cctgacctgc ctggtcaaag gcttctatcc cagcgacatc      780

gccgtggagt gggagagcaa tgggcagccg gagaacaact acaagaccac gcctcccgtg      840

ctggactccg acggctcctt cttcctctac agcaagctca ccgtggacaa gagcaggtgg      900

cagcagggga acgtcttctc atgctccgtg atgcatgagg ctctgcacaa ccactacacg      960

cagaagagcc tctccctgtc tccgggtaaa                                       990
```

<210> 861
<211> 216
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 861

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

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

Leu Ser Trp Phe Gln Gln Lys Pro Gly Lys Ala Pro Lys Phe Leu Ile
        35                  40                  45

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

Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
65                  70                  75                  80
```

```
Asp Asp Phe Ala Thr Tyr Tyr Cys Ala Gly Gly Asp Thr Asn Ile Ala
                85                  90                  95

Asp Asn Ala Phe Gly Gly Gly Thr Lys Val Glu Ile Lys Arg Thr Val
            100                 105                 110

Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu Lys
        115                 120                 125

Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro Arg
    130                 135                 140

Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly Asn
145                 150                 155                 160

Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr Ser
                165                 170                 175

Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys His Lys
            180                 185                 190

Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro Val Thr
        195                 200                 205

Lys Ser Phe Asn Arg Gly Glu Cys
    210                 215
```

<210> 862
<211> 109
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 862

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

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

Leu Ser Trp Phe Gln Gln Lys Pro Gly Lys Ala Pro Lys Phe Leu Ile
        35                  40                  45

Tyr Lys Ala Ser Thr Leu Ala Ser Gly Val Pro Ser Arg Phe Ser Gly
```

```
    50                  55                  60

Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
65                  70                  75                  80

Asp Asp Phe Ala Thr Tyr Tyr Cys Ala Gly Gly Asp Thr Asn Ile Ala
                85                  90                  95

Asp Asn Ala Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
            100                 105
```

<210> 863
<211> 22
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 863

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

Arg Val Thr Ile Thr Cys
            20
```

<210> 864
<211> 12
<212> PRT
<213> Oryctolagus cuniculus

<400> 864

```
Gln Ser Ser Lys Ser Val Tyr Ser Asn Tyr Leu Ser
1               5                   10
```

<210> 865
<211> 15
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 865

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

<210> 866
<211> 7
<212> PRT

<213> Oryctolagus cuniculus

<400> 866

Lys Ala Ser Thr Leu Ala Ser
1 5

<210> 867
<211> 32
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 867

Gly Val Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Glu Phe Thr
1 5 10 15

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

<210> 868
<211> 11
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 868

Ala Gly Gly Asp Thr Asn Ile Ala Asp Asn Ala
1 5 10

<210> 869
<211> 10
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 869

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

<210> 870
<211> 107
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 870

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Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu
1               5                  10                  15

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

Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln
        35                  40                  45

Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser
    50                  55                  60

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

Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser
                85                  90                  95

Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
            100                 105
```

<210> 871
<211> 648
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 871

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gccgtgctga cccagtctcc ttccaccctg tctgcatctg taggagacag agtcaccatc       60

acttgccagt ccagtaagag tgtttatagt aactacttat cctggtttca gcagaaacca      120

gggaaagccc ctaagttcct gatctataag gcatccactc tggcatctgg ggtcccatca      180

aggttcagcg gcagtggatc tgggacagaa ttcactctca ccatcagcag cctgcagcct      240

gatgattttg caacttatta ctgcgcaggc ggtgatacta atattgctga taatgctttc      300

ggcggaggaa ccaaggtgga aatcaaacgt acggtagcgg ccccatctgt cttcatcttc      360

ccgccatctg atgagcagtt gaaatctgga actgcctctg ttgtgtgcct gctgaataac      420

ttctatccca gagaggccaa agtacagtgg aaggtggata acgccctcca atcgggtaac      480

tcccaggaga gtgtcacaga gcaggacagc aaggacagca cctacagcct cagcagcacc      540

ctgacgctga gcaaagcaga ctacgagaaa cacaaagtct acgcctgcga agtcacccat      600

cagggcctga gctcgcccgt cacaaagagc ttcaacaggg gagagtgt                   648
```

<210> 872
<211> 327
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 872
gccgtgctga cccagtctcc ttccaccctg tctgcatctg taggagacag agtcaccatc 60

acttgccagt ccagtaagag tgtttatagt aactacttat cctggtttca gcagaaacca 120

gggaaagccc ctaagttcct gatctataag gcatccactc tggcatctgg ggtcccatca 180

aggttcagcg gcagtggatc tgggacagaa ttcactctca ccatcagcag cctgcagcct 240

gatgattttg caacttatta ctgcgcaggc ggtgatacta atattgctga taatgctttc 300

ggcggaggaa ccaaggtgga aatcaaa 327

<210> 873
<211> 66
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 873
gccgtgctga cccagtctcc ttccaccctg tctgcatctg taggagacag agtcaccatc 60

acttgc 66

<210> 874
<211> 36
<212> DNA
<213> Oryctolagus cuniculus

<400> 874
cagtccagta agagtgttta tagtaactac ttatcc 36

<210> 875
<211> 45
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 875
tggtttcagc agaaaccagg gaaagcccct aagttcctga tctat 45

<210> 876
<211> 21

<212> DNA
<213> Oryctolagus cuniculus

<400> 876
aaggcatcca ctctggcatc t 21

<210> 877
<211> 96
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 877
ggggtcccat caaggttcag cggcagtgga tctgggacag aattcactct caccatcagc 60

agcctgcagc ctgatgattt tgcaacttat tactgc 96

<210> 878
<211> 33
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 878
gcaggcggtg atactaatat tgctgataat gct 33

<210> 879
<211> 30
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 879
ttcggcggag gaaccaaggt ggaaatcaaa 30

<210> 880
<211> 321
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 880
cgtacggtag cggccccatc tgtcttcatc ttcccgccat ctgatgagca gttgaaatct 60

ggaactgcct ctgttgtgtg cctgctgaat aacttctatc ccagagaggc caaagtacag 120

tggaaggtgg ataacgccct ccaatcgggt aactcccagg agagtgtcac agagcaggac 180

agcaaggaca gcacctacag cctcagcagc accctgacgc tgagcaaagc agactacgag 240

aaacacaaag tctacgcctg cgaagtcacc catcagggcc tgagctcgcc cgtcacaaag 300

agcttcaaca ggggagagtg t 321

<210> 881
<211> 453
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 881

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

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

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

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

Ala Lys Gly Arg Phe Thr Ile Ser Lys Thr Ser Ser Thr Thr Val Thr
65 70 75 80

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

Ala Arg Asp Gly Gly Tyr Ala Gly Tyr Gly Tyr Ala Phe Phe Asn Leu
100 105 110

Trp Gly Pro Gly Thr Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly
115 120 125

Pro Ser Val Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly
130 135 140

Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val
145 150 155 160

Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe
165 170 175

Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val

```
            180                 185                 190

Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val
        195                 200                 205

Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys Arg Val Glu Pro Lys
    210                 215                 220

Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu
225                 230                 235                 240

Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr
                245                 250                 255

Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val
            260                 265                 270

Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val
        275                 280                 285

Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Ala Ser
    290                 295                 300

Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu
305                 310                 315                 320

Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala
                325                 330                 335

Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro
            340                 345                 350

Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu Met Thr Lys Asn Gln
        355                 360                 365

Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala
    370                 375                 380

Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr
385                 390                 395                 400

Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu
                405                 410                 415

Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser
            420                 425                 430
```

Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser
435 440 445

Leu Ser Pro Gly Lys
450

<210> 882
<211> 123
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 882

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

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

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

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

Ala Lys Gly Arg Phe Thr Ile Ser Lys Thr Ser Ser Thr Thr Val Thr
65 70 75 80

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

Ala Arg Asp Gly Gly Tyr Ala Gly Tyr Gly Tyr Ala Phe Phe Asn Leu
100 105 110

Trp Gly Pro Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 883
<211> 29
<212> PRT
<213> Oryctolagus cuniculus

<400> 883

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

Leu Thr Leu Thr Cys Lys Ala Ser Gly Phe Ser Phe Ser
20 25

<210> 884
<211> 6
<212> PRT
<213> Oryctolagus cuniculus

<400> 884

Ser Gly Tyr Tyr Met Cys
1 5

<210> 885
<211> 14
<212> PRT
<213> Oryctolagus cuniculus

<400> 885

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

<210> 886
<211> 18
<212> PRT
<213> Oryctolagus cuniculus

<400> 886

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

Lys Gly

<210> 887
<211> 31
<212> PRT
<213> Oryctolagus cuniculus

<400> 887

Arg Phe Thr Ile Ser Lys Thr Ser Ser Thr Thr Val Thr Leu Gln Met
1 5 10 15

Thr Ser Leu Thr Ala Ala Asp Thr Ala Thr Tyr Phe Cys Ala Arg
20 25 30

<210> 888
<211> 14
<212> PRT

<213> Oryctolagus cuniculus

<400> 888

Asp Gly Gly Tyr Ala Gly Tyr Gly Tyr Ala Phe Phe Asn Leu
1 5 10

<210> 889
<211> 11
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 889

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

<210> 890
<211> 330
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 890

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

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

Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser
35 40 45

Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser
50 55 60

Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr
65 70 75 80

Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys
85 90 95

Arg Val Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys
100 105 110

Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro

```
        115                 120                 125

Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys
    130                 135                 140

Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp
145                 150                 155                 160

Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu
                165                 170                 175

Glu Gln Tyr Ala Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu
            180                 185                 190

His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn
        195                 200                 205

Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly
    210                 215                 220

Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu
225                 230                 235                 240

Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr
                245                 250                 255

Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn
            260                 265                 270

Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe
        275                 280                 285

Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn
    290                 295                 300

Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr
305                 310                 315                 320

Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
                325                 330


<210>  891
<211>  1359
<212>  DNA
<213>  Artificial

<220>
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<223> Humanized Antibody Sequence

<400> 891
cagtcgttgg aggagtccgg gggagacctg gtcaagcctg gggcatccct gacactcacc 60

tgcaaagcct ctggattctc cttcagtagc ggctactaca tgtgctgggt ccgccaggct 120

ccagggaagg ggctggagtg gatcgcatgc atttatgctg gtagtggtgg tagcactttc 180

ttcgcgaact gggcgaaagg ccgattcacc atctccaaaa cctcgtcgac cacggtgact 240

ctgcaaatga ccagtctgac agccgcggac acggccacct atttctgtgc gagagatggt 300

ggttatgctg gctatggtta tgctttcttt aacttgtggg gcccggggac cctcgtcacc 360

gtctcgagcg cctccaccaa gggcccatcg gtcttccccc tggcaccctc ctccaagagc 420

acctctgggg gcacagcggc cctgggctgc ctggtcaagg actacttccc cgaaccggtg 480

acggtgtcgt ggaactcagg cgccctgacc agcggcgtgc acaccttccc ggctgtccta 540

cagtcctcag gactctactc cctcagcagc gtggtgaccg tgccctccag cagcttgggc 600

acccagacct acatctgcaa cgtgaatcac aagcccagca acaccaaggt ggacaagaga 660

gttgagccca aatcttgtga caaaactcac acatgcccac cgtgcccagc acctgaactc 720

ctgggggggac cgtcagtctt cctcttcccc ccaaaaccca aggacaccct catgatctcc 780

cggacccctg aggtcacatg cgtggtggtg gacgtgagcc acgaagaccc tgaggtcaag 840

ttcaactggt acgtggacgg cgtggaggtg cataatgcca agacaaagcc gcgggaggag 900

cagtacgcca gcacgtaccg tgtggtcagc gtcctcaccg tcctgcacca ggactggctg 960

aatggcaagg agtacaagtg caaggtctcc aacaaagccc tcccagcccc catcgagaaa 1020

accatctcca aagccaaagg gcagccccga gaaccacagg tgtacaccct gcccccatcc 1080

cgggaggaga tgaccaagaa ccaggtcagc ctgacctgcc tggtcaaagg cttctatccc 1140

agcgacatcg ccgtggagtg ggagagcaat gggcagccgg agaacaacta caagaccacg 1200

cctcccgtgc tggactccga cggctccttc ttcctctaca gcaagctcac cgtggacaag 1260

agcaggtggc agcaggggaa cgtcttctca tgctccgtga tgcatgaggc tctgcacaac 1320

cactacacgc agaagagcct ctccctgtct ccgggtaaa 1359

<210> 892
<211> 369
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 892
cagtcgttgg aggagtccgg gggagacctg gtcaagcctg gggcatccct gacactcacc 60

tgcaaagcct ctggattctc cttcagtagc ggctactaca tgtgctgggt ccgccaggct 120

ccagggaagg ggctggagtg gatcgcatgc atttatgctg gtagtggtgg tagcactttc 180

ttcgcgaact gggcgaaagg ccgattcacc atctccaaaa cctcgtcgac cacggtgact 240

ctgcaaatga ccagtctgac agccgcggac acggccacct atttctgtgc gagagatggt 300

ggttatgctg gctatggtta tgctttcttt aacttgtggg gcccggggac cctcgtcacc 360

gtctcgagc 369

<210> 893
<211> 87
<212> DNA
<213> Oryctolagus cuniculus

<400> 893
cagtcgttgg aggagtccgg gggagacctg gtcaagcctg gggcatccct gacactcacc 60

tgcaaagcct ctggattctc cttcagt 87

<210> 894
<211> 18
<212> DNA
<213> Oryctolagus cuniculus

<400> 894
agcggctact acatgtgc 18

<210> 895
<211> 42
<212> DNA
<213> Oryctolagus cuniculus

<400> 895
tgggtccgcc aggctccagg gaaggggctg gagtggatcg ca 42

<210> 896
<211> 54
<212> DNA
<213> Oryctolagus cuniculus

<400> 896
tgcatttatg ctggtagtgg tggtagcact ttcttcgcga actgggcgaa aggc 54

<210> 897
<211> 93
<212> DNA
<213> Oryctolagus cuniculus

<400> 897
cgattcacca tctccaaaac ctcgtcgacc acggtgactc tgcaaatgac cagtctgaca 60

gccgcggaca cggccaccta tttctgtgcg aga 93

<210> 898
<211> 42
<212> DNA
<213> Oryctolagus cuniculus

<400> 898
gatggtggtt atgctggcta tggttatgct ttctttaact tg 42

<210> 899
<211> 33
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 899
tggggcccgg ggaccctcgt caccgtctcg agc 33

<210> 900
<211> 990
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 900
gcctccacca agggcccatc ggtcttcccc ctggcaccct cctccaagag cacctctggg 60

ggcacagcgg ccctgggctg cctggtcaag gactacttcc ccgaaccggt gacggtgtcg 120

tggaactcag gcgccctgac cagcggcgtg cacaccttcc cggctgtcct acagtcctca 180

ggactctact ccctcagcag cgtggtgacc gtgccctcca gcagcttggg cacccagacc 240

tacatctgca acgtgaatca caagcccagc aacaccaagg tggacaagag agttgagccc 300

aaatcttgtg acaaaactca cacatgccca ccgtgcccag cacctgaact cctgggggga 360

ccgtcagtct tcctcttccc cccaaaaccc aaggacaccc tcatgatctc ccggacccct 420

gaggtcacat gcgtggtggt ggacgtgagc cacgaagacc ctgaggtcaa gttcaactgg 480

tacgtggacg gcgtggaggt gcataatgcc aagacaaagc cgcgggagga gcagtacgcc 540

agcacgtacc gtgtggtcag cgtcctcacc gtcctgcacc aggactggct gaatggcaag 600

gagtacaagt gcaaggtctc caacaaagcc ctcccagccc ccatcgagaa aaccatctcc 660

aaagccaaag ggcagccccg agaaccacag gtgtacaccc tgcccccatc ccgggaggag 720

atgaccaaga accaggtcag cctgacctgc ctggtcaaag gcttctatcc cagcgacatc 780

gccgtggagt gggagagcaa tgggcagccg gagaacaact acaagaccac gcctcccgtg 840

ctggactccg acggctcctt cttcctctac agcaagctca ccgtggacaa gagcaggtgg 900

cagcagggga acgtcttctc atgctccgtg atgcatgagg ctctgcacaa ccactacacg 960

cagaagagcc tctccctgtc tccgggtaaa 990

<210> 901
<211> 217
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 901

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

Gly Thr Val Thr Ile Lys Cys Gln Ala Ser Glu Arg Ile Tyr Ser Gly
20 25 30

Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Pro Pro Lys Leu Leu Ile
35 40 45

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

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Asp Leu Glu Cys
65 70 75 80

Asp Asp Ala Ala Ile Tyr Tyr Cys Gln Cys Thr Tyr Tyr Gly Ser Ser
85 90 95

Tyr Pro Asn Val Phe Gly Gly Gly Thr Glu Val Val Val Lys Arg Thr
100 105 110

Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu
115 120 125

Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro
130 135 140

Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly
145 150 155 160

Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr
165 170 175

Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys His
180 185 190

```
Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro Val
        195                 200                 205


Thr Lys Ser Phe Asn Arg Gly Glu Cys
    210                 215


<210>  902
<211>  110
<212>  PRT
<213>  Artificial

<220>
<223>  Humanized Antibody Sequence

<400>  902

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


Gly Thr Val Thr Ile Lys Cys Gln Ala Ser Glu Arg Ile Tyr Ser Gly
            20                  25                  30


Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Pro Pro Lys Leu Leu Ile
        35                  40                  45


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


Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Asp Leu Glu Cys
65                  70                  75                  80


Asp Asp Ala Ala Ile Tyr Tyr Cys Gln Cys Thr Tyr Tyr Gly Ser Ser
                85                  90                  95


Tyr Pro Asn Val Phe Gly Gly Gly Thr Glu Val Val Val Lys
            100                 105                 110


<210>  903
<211>  23
<212>  PRT
<213>  Oryctolagus cuniculus

<400>  903

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


Gly Thr Val Thr Ile Lys Cys
            20
```

<210> 904
<211> 11
<212> PRT
<213> Oryctolagus cuniculus

<400> 904

Gln Ala Ser Glu Arg Ile Tyr Ser Gly Leu Ala
1 5 10

<210> 905
<211> 15
<212> PRT
<213> Oryctolagus cuniculus

<400> 905

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

<210> 906
<211> 7
<212> PRT
<213> Oryctolagus cuniculus

<400> 906

Gly Ala Ser Thr Leu Ala Ser
1 5

<210> 907
<211> 32
<212> PRT
<213> Oryctolagus cuniculus

<400> 907

Gly Val Pro Ser Arg Phe Lys Gly Ser Gly Ser Gly Thr Asp Phe Thr
1 5 10 15

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

<210> 908
<211> 12
<212> PRT
<213> Oryctolagus cuniculus

<400> 908

Gln Cys Thr Tyr Tyr Gly Ser Ser Tyr Pro Asn Val
1 5 10

<210> 909
<211> 10
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 909

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

<210> 910
<211> 107
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 910

Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu
1 5 10 15

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

Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln
35 40 45

Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser
50 55 60

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

Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser
85 90 95

Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
100 105

<210> 911
<211> 651
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 911

gatgttgtga tgacccagac tccagcctcc gtgtctgaac ctgtgggagg cacagtcacc 60

atcaagtgcc aggccagtga gaggatttat agtggtttgg cctggtatca gcagaaacca 120

gggcagcctc ccaagctcct gatctatggt gcatccactc tggcatctgg ggtcccatcg 180

cggttcaaag gcagtggatc tgggacagat ttcactctca ccatcagcga cctggagtgt 240

gacgatgctg ccatttacta ctgtcaatgt acttattatg gttctagtta tcctaatgtt 300

ttcggcggag ggaccgaggt ggtggtcaaa cgtacggtag cggccccatc tgtcttcatc 360

ttcccgccat ctgatgagca gttgaaatct ggaactgcct ctgttgtgtg cctgctgaat 420

aacttctatc ccagagaggc caaagtacag tggaaggtgg ataacgccct ccaatcgggt 480

aactcccagg agagtgtcac agagcaggac agcaaggaca gcacctacag cctcagcagc 540

accctgacgc tgagcaaagc agactacgag aaacacaaag tctacgcctg cgaagtcacc 600

catcagggcc tgagctcgcc cgtcacaaag agcttcaaca ggggagagtg t 651

<210> 912
<211> 330
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 912
gatgttgtga tgacccagac tccagcctcc gtgtctgaac ctgtgggagg cacagtcacc 60

atcaagtgcc aggccagtga gaggatttat agtggtttgg cctggtatca gcagaaacca 120

gggcagcctc ccaagctcct gatctatggt gcatccactc tggcatctgg ggtcccatcg 180

cggttcaaag gcagtggatc tgggacagat ttcactctca ccatcagcga cctggagtgt 240

gacgatgctg ccatttacta ctgtcaatgt acttattatg gttctagtta tcctaatgtt 300

ttcggcggag ggaccgaggt ggtggtcaaa 330

<210> 913
<211> 69
<212> DNA
<213> Oryctolagus cuniculus

<400> 913
gatgttgtga tgacccagac tccagcctcc gtgtctgaac ctgtgggagg cacagtcacc 60

atcaagtgc 69

<210> 914
<211> 33
<212> DNA
<213> Oryctolagus cuniculus

<400> 914
caggccagtg agaggattta tagtggtttg gcc 33

<210> 915
<211> 45
<212> DNA
<213> Oryctolagus cuniculus

<400> 915
tggtatcagc agaaaccagg gcagcctccc aagctcctga tctat 45

<210> 916
<211> 21
<212> DNA
<213> Oryctolagus cuniculus

<400> 916
ggtgcatcca ctctggcatc t 21

<210> 917
<211> 96
<212> DNA
<213> Oryctolagus cuniculus

<400> 917
ggggtcccat cgcggttcaa aggcagtgga tctgggacag atttcactct caccatcagc 60

gacctggagt gtgacgatgc tgccatttac tactgt 96

<210> 918
<211> 36
<212> DNA
<213> Oryctolagus cuniculus

<400> 918
caatgtactt attatggttc tagttatcct aatgtt 36

<210> 919
<211> 30
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 919
ttcggcggag ggaccgaggt ggtggtcaaa 30

<210> 920
<211> 321
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 920
cgtacggtag cggccccatc tgtcttcatc ttcccgccat ctgatgagca gttgaaatct 60

ggaactgcct ctgttgtgtg cctgctgaat aacttctatc ccagagaggc caaagtacag 120

tggaaggtgg ataacgccct ccaatcgggt aactcccagg agagtgtcac agagcaggac 180

agcaaggaca gcacctacag cctcagcagc accctgacgc tgagcaaagc agactacgag 240

aaacacaaag tctacgcctg cgaagtcacc catcagggcc tgagctcgcc cgtcacaaag 300

agcttcaaca ggggagagtg t 321

<210> 921
<211> 453
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 921

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

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

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

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

Ala Lys Gly Arg Phe Thr Ile Ser Lys Thr Ser Ser Thr Thr Val Thr
65 70 75 80

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

Ala Arg Asp Gly Gly Tyr Ala Gly Tyr Gly Tyr Ala Phe Phe Asn Leu
100 105 110

Trp Gly Pro Gly Thr Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly
115 120 125

Pro Ser Val Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly
130 135 140

```
Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val
145                 150                 155                 160

Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe
                165                 170                 175

Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val
            180                 185                 190

Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val
        195                 200                 205

Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys Arg Val Glu Pro Lys
    210                 215                 220

Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu
225                 230                 235                 240

Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr
                245                 250                 255

Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val
            260                 265                 270

Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val
        275                 280                 285

Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Ala Ser
    290                 295                 300

Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu
305                 310                 315                 320

Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala
                325                 330                 335

Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro
            340                 345                 350

Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu Met Thr Lys Asn Gln
        355                 360                 365

Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala
    370                 375                 380

Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr
```

385 390 395 400

Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu
405 410 415

Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser
420 425 430

Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser
435 440 445

Leu Ser Pro Gly Lys
450

<210> 922
<211> 123
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 922

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

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

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

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

Ala Lys Gly Arg Phe Thr Ile Ser Lys Thr Ser Ser Thr Thr Val Thr
65 70 75 80

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

Ala Arg Asp Gly Gly Tyr Ala Gly Tyr Gly Tyr Ala Phe Phe Asn Leu
100 105 110

Trp Gly Pro Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 923
<211> 29
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 923

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

Leu Thr Leu Thr Cys Lys Ala Ser Gly Phe Ser Phe Ser
20 25

<210> 924
<211> 6
<212> PRT
<213> Oryctolagus cuniculus

<400> 924

Ser Gly Tyr Tyr Met Cys
1 5

<210> 925
<211> 14
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 925

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

<210> 926
<211> 18
<212> PRT
<213> Oryctolagus cuniculus

<400> 926

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

Lys Gly

<210> 927
<211> 31
<212> PRT

<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 927

Arg Phe Thr Ile Ser Lys Thr Ser Ser Thr Thr Val Thr Leu Gln Met
1 5 10 15

Thr Ser Leu Thr Ala Ala Asp Thr Ala Thr Tyr Phe Cys Ala Arg
20 25 30

<210> 928
<211> 14
<212> PRT
<213> Oryctolagus cuniculus

<400> 928

Asp Gly Gly Tyr Ala Gly Tyr Gly Tyr Ala Phe Phe Asn Leu
1 5 10

<210> 929
<211> 11
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 929

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

<210> 930
<211> 330
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 930

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

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

Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser
35 40 45

```
Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser
    50                  55                  60

Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr
65                  70                  75                  80

Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys
                85                  90                  95

Arg Val Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys
            100                 105                 110

Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro
        115                 120                 125

Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys
    130                 135                 140

Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp
145                 150                 155                 160

Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu
                165                 170                 175

Glu Gln Tyr Ala Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu
            180                 185                 190

His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn
        195                 200                 205

Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly
    210                 215                 220

Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu
225                 230                 235                 240

Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr
                245                 250                 255

Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn
            260                 265                 270

Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe
        275                 280                 285
```

```
Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn
    290                 295                 300

Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr
305                 310                 315                 320

Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
                325                 330
```

<210> 931
<211> 1359
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 931

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cagtcgttgg aggagtccgg gggagacctg gtcaagcctg gggcatccct gacactcacc       60

tgcaaagcct ctggattctc cttcagtagc ggctactaca tgtgctgggt ccgccaggct      120

ccagggaagg ggctggagtg gatcgcatgc atttatgctg gtagtggtgg tagcactttc      180

ttcgcgaact gggcgaaagg ccgattcacc atctccaaaa cctcgtcgac cacggtgact      240

ctgcaaatga ccagtctgac agccgcggac acggccacct atttctgtgc gagagatggt      300

ggttatgctg gctatggtta tgctttcttt aacttgtggg gcccggggac cctcgtcacc      360

gtctcgagcg cctccaccaa gggcccatcg gtcttccccc tggcaccctc ctccaagagc      420

acctctgggg gcacagcggc cctgggctgc ctggtcaagg actacttccc cgaaccggtg      480

acggtgtcgt ggaactcagg cgccctgacc agcggcgtgc acaccttccc ggctgtccta      540

cagtcctcag gactctactc cctcagcagc gtggtgaccg tgccctccag cagcttgggc      600

acccagacct acatctgcaa cgtgaatcac aagcccagca acaccaaggt ggacaagaga      660

gttgagccca aatcttgtga caaaactcac acatgcccac cgtgcccagc acctgaactc      720

ctgggggggac cgtcagtctt cctcttcccc ccaaaaccca aggacaccct catgatctcc      780

cggacccctg aggtcacatg cgtggtggtg gacgtgagcc acgaagaccc tgaggtcaag      840

ttcaactggt acgtggacgg cgtggaggtg cataatgcca agacaaagcc gcgggaggag      900

cagtacgcca gcacgtaccg tgtggtcagc gtcctcaccg tcctgcacca ggactggctg      960

aatggcaagg agtacaagtg caaggtctcc aacaaagccc tcccagcccc catcgagaaa     1020

accatctcca aagccaaagg gcagccccga gaaccacagg tgtacaccct gcccccatcc     1080

cgggaggaga tgaccaagaa ccaggtcagc ctgacctgcc tggtcaaagg cttctatccc     1140

agcgacatcg ccgtggagtg ggagagcaat gggcagccgg agaacaacta caagaccacg     1200
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cctcccgtgc tggactccga cggctccttc ttcctctaca gcaagctcac cgtggacaag 1260

agcaggtggc agcaggggaa cgtcttctca tgctccgtga tgcatgaggc tctgcacaac 1320

cactacacgc agaagagcct ctccctgtct ccgggtaaa 1359

<210> 932
<211> 369
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 932
cagtcgttgg aggagtccgg gggagacctg gtcaagcctg gggcatccct gacactcacc 60

tgcaaagcct ctggattctc cttcagtagc ggctactaca tgtgctgggt ccgccaggct 120

ccagggaagg ggctggagtg gatcgcatgc atttatgctg gtagtggtgg tagcactttc 180

ttcgcgaact gggcgaaagg ccgattcacc atctccaaaa cctcgtcgac cacggtgact 240

ctgcaaatga ccagtctgac agccgcggac acggccacct atttctgtgc gagagatggt 300

ggttatgctg gctatggtta tgctttcttt aacttgtggg gcccggggac cctcgtcacc 360

gtctcgagc 369

<210> 933
<211> 87
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 933
cagtcgttgg aggagtccgg gggagacctg gtcaagcctg gggcatccct gacactcacc 60

tgcaaagcct ctggattctc cttcagt 87

<210> 934
<211> 18
<212> DNA
<213> Oryctolagus cuniculus

<400> 934
agcggctact acatgtgc 18

<210> 935
<211> 42
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 935
tgggtccgcc aggctccagg gaaggggctg gagtggatcg ca 42

<210> 936
<211> 54
<212> DNA
<213> Oryctolagus cuniculus

<400> 936
tgcatttatg ctggtagtgg tggtagcact ttcttcgcga actgggcgaa aggc 54

<210> 937
<211> 93
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 937
cgattcacca tctccaaaac ctcgtcgacc acggtgactc tgcaaatgac cagtctgaca 60

gccgcggaca cggccaccta tttctgtgcg aga 93

<210> 938
<211> 42
<212> DNA
<213> Oryctolagus cuniculus

<400> 938
gatggtggtt atgctggcta tggttatgct ttctttaact tg 42

<210> 939
<211> 33
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 939
tggggcccgg ggaccctcgt caccgtctcg agc 33

<210> 940
<211> 990
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 940
gcctccacca agggcccatc ggtcttcccc ctggcaccct cctccaagag cacctctggg 60

ggcacagcgg ccctgggctg cctggtcaag gactacttcc ccgaaccggt gacggtgtcg 120

```
tggaactcag gcgccctgac cagcggcgtg cacaccttcc cggctgtcct acagtcctca      180

ggactctact ccctcagcag cgtggtgacc gtgccctcca gcagcttggg cacccagacc      240

tacatctgca acgtgaatca caagcccagc aacaccaagg tggacaagag agttgagccc      300

aaatcttgtg acaaaactca cacatgccca ccgtgcccag cacctgaact cctgggggga      360

ccgtcagtct tcctcttccc cccaaaaccc aaggacaccc tcatgatctc ccggacccct      420

gaggtcacat gcgtggtggt ggacgtgagc cacgaagacc ctgaggtcaa gttcaactgg      480

tacgtggacg gcgtggaggt gcataatgcc aagacaaagc cgcgggagga gcagtacgcc      540

agcacgtacc gtgtggtcag cgtcctcacc gtcctgcacc aggactggct gaatggcaag      600

gagtacaagt gcaaggtctc caacaaagcc ctcccagccc ccatcgagaa aaccatctcc      660

aaagccaaag ggcagccccg agaaccacag gtgtacaccc tgcccccatc ccgggaggag      720

atgaccaaga accaggtcag cctgacctgc ctggtcaaag gcttctatcc cagcgacatc      780

gccgtggagt gggagagcaa tgggcagccg gagaacaact acaagaccac gcctcccgtg      840

ctggactccg acggctcctt cttcctctac agcaagctca ccgtggacaa gagcaggtgg      900

cagcagggga acgtcttctc atgctccgtg atgcatgagg ctctgcacaa ccactacacg      960

cagaagagcc tctccctgtc tccgggtaaa                                       990
```

<210> 941
<211> 217
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 941

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

Gly Thr Val Thr Ile Lys Cys Gln Ala Ser Glu Arg Ile Tyr Ser Gly
            20                  25                  30

Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Pro Pro Lys Leu Leu Ile
        35                  40                  45

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

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Asp Leu Glu Cys
65                  70                  75                  80
```

```
Asp Asp Ala Ala Ile Tyr Tyr Cys Gln Ala Thr Tyr Tyr Gly Ser Ser
                85                  90                  95

Tyr Pro Asn Val Phe Gly Gly Gly Thr Glu Val Val Val Lys Arg Thr
            100                 105                 110

Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu
        115                 120                 125

Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro
    130                 135                 140

Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly
145                 150                 155                 160

Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr
                165                 170                 175

Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys His
            180                 185                 190

Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro Val
        195                 200                 205

Thr Lys Ser Phe Asn Arg Gly Glu Cys
    210                 215


<210>  942
<211>  110
<212>  PRT
<213>  Artificial

<220>
<223>  Humanized Antibody Sequence

<400>  942

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

Gly Thr Val Thr Ile Lys Cys Gln Ala Ser Glu Arg Ile Tyr Ser Gly
            20                  25                  30

Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Pro Pro Lys Leu Leu Ile
        35                  40                  45

Tyr Gly Ala Ser Thr Leu Ala Ser Gly Val Pro Ser Arg Phe Lys Gly
    50                  55                  60
```

```
Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Asp Leu Glu Cys
65                  70                  75                  80


Asp Asp Ala Ala Ile Tyr Tyr Cys Gln Ala Thr Tyr Tyr Gly Ser Ser
                85                  90                  95


Tyr Pro Asn Val Phe Gly Gly Gly Thr Glu Val Val Val Lys
            100                 105                 110


<210>  943
<211>  23
<212>  PRT
<213>  Artificial

<220>
<223>  Humanized Antibody Sequence

<400>  943

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


Gly Thr Val Thr Ile Lys Cys
            20


<210>  944
<211>  11
<212>  PRT
<213>  Oryctolagus cuniculus

<400>  944

Gln Ala Ser Glu Arg Ile Tyr Ser Gly Leu Ala
1               5                   10


<210>  945
<211>  15
<212>  PRT
<213>  Artificial

<220>
<223>  Humanized Antibody Sequence

<400>  945

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


<210>  946
<211>  7
<212>  PRT
<213>  Oryctolagus cuniculus
```

<400> 946

Gly Ala Ser Thr Leu Ala Ser
1 5

<210> 947
<211> 32
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 947

Gly Val Pro Ser Arg Phe Lys Gly Ser Gly Ser Gly Thr Asp Phe Thr
1 5 10 15

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

<210> 948
<211> 12
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 948

Gln Ala Thr Tyr Tyr Gly Ser Ser Tyr Pro Asn Val
1 5 10

<210> 949
<211> 10
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 949

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

<210> 950
<211> 107
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 950

Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu
1 5 10 15

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

Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln
35 40 45

Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser
50 55 60

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

Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser
85 90 95

Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
100 105

<210> 951
<211> 651
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 951
gatgttgtga tgacccagac tccagcctcc gtgtctgaac ctgtgggagg cacagtcacc 60

atcaagtgcc aggccagtga gaggatttat agtggtttgg cctggtatca gcagaaacca 120

gggcagcctc ccaagctcct gatctatggt gcatccactc tggcatctgg ggtcccatcg 180

cggttcaaag gcagtggatc tgggacagat ttcactctca ccatcagcga cctggagtgt 240

gacgatgctg ccatttacta ctgtcaagct acttattatg gttctagtta tcctaatgtt 300

ttcggcggag ggaccgaggt ggtggtcaaa cgtacggtag cggccccatc tgtcttcatc 360

ttcccgccat ctgatgagca gttgaaatct ggaactgcct ctgttgtgtg cctgctgaat 420

aacttctatc ccagagaggc caaagtacag tggaaggtgg ataacgccct ccaatcgggt 480

aactcccagg agagtgtcac agagcaggac agcaaggaca gcacctacag cctcagcagc 540

accctgacgc tgagcaaagc agactacgag aaacacaaag tctacgcctg cgaagtcacc 600

catcagggcc tgagctcgcc cgtcacaaag agcttcaaca ggggagagtg t 651

<210> 952
<211> 330
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 952
gatgttgtga tgacccagac tccagcctcc gtgtctgaac ctgtgggagg cacagtcacc 60

atcaagtgcc aggccagtga gaggatttat agtggtttgg cctggtatca gcagaaacca 120

gggcagcctc ccaagctcct gatctatggt gcatccactc tggcatctgg ggtcccatcg 180

cggttcaaag gcagtggatc tgggacagat ttcactctca ccatcagcga cctggagtgt 240

gacgatgctg ccatttacta ctgtcaagct acttattatg gttctagtta tcctaatgtt 300

ttcggcggag ggaccgaggt ggtggtcaaa 330

<210> 953
<211> 69
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 953
gatgttgtga tgacccagac tccagcctcc gtgtctgaac ctgtgggagg cacagtcacc 60

atcaagtgc 69

<210> 954
<211> 33
<212> DNA
<213> Oryctolagus cuniculus

<400> 954
caggccagtg agaggattta tagtggtttg gcc 33

<210> 955
<211> 45
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 955
tggtatcagc agaaaccagg gcagcctccc aagctcctga tctat 45

<210> 956
<211> 21
<212> DNA

<213> Oryctolagus cuniculus

<400> 956
ggtgcatcca ctctggcatc t 21

<210> 957
<211> 96
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

<400> 957
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<210> 958
<211> 36
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

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<210> 959
<211> 30
<212> DNA
<213> Artificial

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<223> Humanized Antibody Sequence

<400> 959
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<210> 960
<211> 321
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody Sequence

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tggaaggtgg ataacgccct ccaatcgggt aactcccagg agagtgtcac agagcaggac 180

agcaaggaca gcacctacag cctcagcagc accctgacgc tgagcaaagc agactacgag 240

aaacacaaag tctacgcctg cgaagtcacc catcagggcc tgagctcgcc cgtcacaaag 300

agcttcaaca ggggagagtg t 321

<210> 961
<211> 692
<212> PRT
<213> Homo sapiens

<400> 961

Met Gly Thr Val Ser Ser Arg Arg Ser Trp Trp Pro Leu Pro Leu Leu
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Leu Leu Leu Leu Leu Leu Leu Gly Pro Ala Gly Ala Arg Ala Gln Glu
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Asp Glu Asp Gly Asp Tyr Glu Glu Leu Val Leu Ala Leu Arg Ser Glu
35 40 45

Glu Asp Gly Leu Ala Glu Ala Pro Glu His Gly Thr Thr Ala Thr Phe
50 55 60

His Arg Cys Ala Lys Asp Pro Trp Arg Leu Pro Gly Thr Tyr Val Val
65 70 75 80

Val Leu Lys Glu Glu Thr His Leu Ser Gln Ser Glu Arg Thr Ala Arg
85 90 95

Arg Leu Gln Ala Gln Ala Ala Arg Arg Gly Tyr Leu Thr Lys Ile Leu
100 105 110

His Val Phe His Gly Leu Leu Pro Gly Phe Leu Val Lys Met Ser Gly
115 120 125

Asp Leu Leu Glu Leu Ala Leu Lys Leu Pro His Val Asp Tyr Ile Glu
130 135 140

Glu Asp Ser Ser Val Phe Ala Gln Ser Ile Pro Trp Asn Leu Glu Arg
145 150 155 160

Ile Thr Pro Pro Arg Tyr Arg Ala Asp Glu Tyr Gln Pro Pro Asp Gly
165 170 175

Gly Ser Leu Val Glu Val Tyr Leu Leu Asp Thr Ser Ile Gln Ser Asp
180 185 190

His Arg Glu Ile Glu Gly Arg Val Met Val Thr Asp Phe Glu Asn Val

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        195                 200                 205

Pro Glu Glu Asp Gly Thr Arg Phe His Arg Gln Ala Ser Lys Cys Asp
    210                 215                 220

Ser His Gly Thr His Leu Ala Gly Val Val Ser Gly Arg Asp Ala Gly
225                 230                 235                 240

Val Ala Lys Gly Ala Ser Met Arg Ser Leu Arg Val Leu Asn Cys Gln
                245                 250                 255

Gly Lys Gly Thr Val Ser Gly Thr Leu Ile Gly Leu Glu Phe Ile Arg
            260                 265                 270

Lys Ser Gln Leu Val Gln Pro Val Gly Pro Leu Val Val Leu Leu Pro
        275                 280                 285

Leu Ala Gly Gly Tyr Ser Arg Val Leu Asn Ala Ala Cys Gln Arg Leu
    290                 295                 300

Ala Arg Ala Gly Val Val Leu Val Thr Ala Ala Gly Asn Phe Arg Asp
305                 310                 315                 320

Asp Ala Cys Leu Tyr Ser Pro Ala Ser Ala Pro Glu Val Ile Thr Val
                325                 330                 335

Gly Ala Thr Asn Ala Gln Asp Gln Pro Val Thr Leu Gly Thr Leu Gly
            340                 345                 350

Thr Asn Phe Gly Arg Cys Val Asp Leu Phe Ala Pro Gly Glu Asp Ile
        355                 360                 365

Ile Gly Ala Ser Ser Asp Cys Ser Thr Cys Phe Val Ser Gln Ser Gly
    370                 375                 380

Thr Ser Gln Ala Ala Ala His Val Ala Gly Ile Ala Ala Met Met Leu
385                 390                 395                 400

Ser Ala Glu Pro Glu Leu Thr Leu Ala Glu Leu Arg Gln Arg Leu Ile
                405                 410                 415

His Phe Ser Ala Lys Asp Val Ile Asn Glu Ala Trp Phe Pro Glu Asp
            420                 425                 430

Gln Arg Val Leu Thr Pro Asn Leu Val Ala Ala Leu Pro Pro Ser Thr
        435                 440                 445
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His Gly Ala Gly Trp Gln Leu Phe Cys Arg Thr Val Trp Ser Ala His
    450                 455                 460

Ser Gly Pro Thr Arg Met Ala Thr Ala Val Ala Arg Cys Ala Pro Asp
465                 470                 475                 480

Glu Glu Leu Leu Ser Cys Ser Ser Phe Ser Arg Ser Gly Lys Arg Arg
                485                 490                 495

Gly Glu Arg Met Glu Ala Gln Gly Gly Lys Leu Val Cys Arg Ala His
            500                 505                 510

Asn Ala Phe Gly Gly Glu Gly Val Tyr Ala Ile Ala Arg Cys Cys Leu
        515                 520                 525

Leu Pro Gln Ala Asn Cys Ser Val His Thr Ala Pro Pro Ala Glu Ala
    530                 535                 540

Ser Met Gly Thr Arg Val His Cys His Gln Gln Gly His Val Leu Thr
545                 550                 555                 560

Gly Cys Ser Ser His Trp Glu Val Glu Asp Leu Gly Thr His Lys Pro
                565                 570                 575

Pro Val Leu Arg Pro Arg Gly Gln Pro Asn Gln Cys Val Gly His Arg
            580                 585                 590

Glu Ala Ser Ile His Ala Ser Cys Cys His Ala Pro Gly Leu Glu Cys
        595                 600                 605

Lys Val Lys Glu His Gly Ile Pro Ala Pro Gln Glu Gln Val Thr Val
    610                 615                 620

Ala Cys Glu Glu Gly Trp Thr Leu Thr Gly Cys Ser Ala Leu Pro Gly
625                 630                 635                 640

Thr Ser His Val Leu Gly Ala Tyr Ala Val Asp Asn Thr Cys Val Val
                645                 650                 655

Arg Ser Arg Asp Val Ser Thr Thr Gly Ser Thr Ser Glu Gly Ala Val
            660                 665                 670

Thr Ala Val Ala Ile Cys Cys Arg Ser Arg His Leu Ala Gln Ala Ser
        675                 680                 685
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Gln Glu Leu Gln
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<210> 962
<211> 662
<212> PRT
<213> Homo sapiens

<400> 962

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Ser Glu Glu Asp Gly Leu Ala Glu Ala Pro Glu His Gly Thr Thr Ala
20 25 30

Thr Phe His Arg Cys Ala Lys Asp Pro Trp Arg Leu Pro Gly Thr Tyr
35 40 45

Val Val Val Leu Lys Glu Glu Thr His Leu Ser Gln Ser Glu Arg Thr
50 55 60

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

Ile Leu His Val Phe His Gly Leu Leu Pro Gly Phe Leu Val Lys Met
85 90 95

Ser Gly Asp Leu Leu Glu Leu Ala Leu Lys Leu Pro His Val Asp Tyr
100 105 110

Ile Glu Glu Asp Ser Ser Val Phe Ala Gln Ser Ile Pro Trp Asn Leu
115 120 125

Glu Arg Ile Thr Pro Pro Arg Tyr Arg Ala Asp Glu Tyr Gln Pro Pro
130 135 140

Asp Gly Gly Ser Leu Val Glu Val Tyr Leu Leu Asp Thr Ser Ile Gln
145 150 155 160

Ser Asp His Arg Glu Ile Glu Gly Arg Val Met Val Thr Asp Phe Glu
165 170 175

Asn Val Pro Glu Glu Asp Gly Thr Arg Phe His Arg Gln Ala Ser Lys
180 185 190

Cys Asp Ser His Gly Thr His Leu Ala Gly Val Val Ser Gly Arg Asp

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        195                 200                 205

Ala Gly Val Ala Lys Gly Ala Ser Met Arg Ser Leu Arg Val Leu Asn
    210                 215                 220

Cys Gln Gly Lys Gly Thr Val Ser Gly Thr Leu Ile Gly Leu Glu Phe
225                 230                 235                 240

Ile Arg Lys Ser Gln Leu Val Gln Pro Val Gly Pro Leu Val Val Leu
                245                 250                 255

Leu Pro Leu Ala Gly Gly Tyr Ser Arg Val Leu Asn Ala Ala Cys Gln
            260                 265                 270

Arg Leu Ala Arg Ala Gly Val Val Leu Val Thr Ala Ala Gly Asn Phe
        275                 280                 285

Arg Asp Asp Ala Cys Leu Tyr Ser Pro Ala Ser Ala Pro Glu Val Ile
    290                 295                 300

Thr Val Gly Ala Thr Asn Ala Gln Asp Gln Pro Val Thr Leu Gly Thr
305                 310                 315                 320

Leu Gly Thr Asn Phe Gly Arg Cys Val Asp Leu Phe Ala Pro Gly Glu
                325                 330                 335

Asp Ile Ile Gly Ala Ser Ser Asp Cys Ser Thr Cys Phe Val Ser Gln
            340                 345                 350

Ser Gly Thr Ser Gln Ala Ala Ala His Val Ala Gly Ile Ala Ala Met
        355                 360                 365

Met Leu Ser Ala Glu Pro Glu Leu Thr Leu Ala Glu Leu Arg Gln Arg
    370                 375                 380

Leu Ile His Phe Ser Ala Lys Asp Val Ile Asn Glu Ala Trp Phe Pro
385                 390                 395                 400

Glu Asp Gln Arg Val Leu Thr Pro Asn Leu Val Ala Ala Leu Pro Pro
                405                 410                 415

Ser Thr His Gly Ala Gly Trp Gln Leu Phe Cys Arg Thr Val Trp Ser
            420                 425                 430

Ala His Ser Gly Pro Thr Arg Met Ala Thr Ala Val Ala Arg Cys Ala
        435                 440                 445
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Pro Asp Glu Glu Leu Leu Ser Cys Ser Ser Phe Ser Arg Ser Gly Lys
    450                 455                 460

Arg Arg Gly Glu Arg Met Glu Ala Gln Gly Gly Lys Leu Val Cys Arg
465                 470                 475                 480

Ala His Asn Ala Phe Gly Gly Glu Gly Val Tyr Ala Ile Ala Arg Cys
                485                 490                 495

Cys Leu Leu Pro Gln Ala Asn Cys Ser Val His Thr Ala Pro Pro Ala
            500                 505                 510

Glu Ala Ser Met Gly Thr Arg Val His Cys His Gln Gln Gly His Val
        515                 520                 525

Leu Thr Gly Cys Ser Ser His Trp Glu Val Glu Asp Leu Gly Thr His
    530                 535                 540

Lys Pro Pro Val Leu Arg Pro Arg Gly Gln Pro Asn Gln Cys Val Gly
545                 550                 555                 560

His Arg Glu Ala Ser Ile His Ala Ser Cys Cys His Ala Pro Gly Leu
                565                 570                 575

Glu Cys Lys Val Lys Glu His Gly Ile Pro Ala Pro Gln Glu Gln Val
            580                 585                 590

Thr Val Ala Cys Glu Glu Gly Trp Thr Leu Thr Gly Cys Ser Ala Leu
        595                 600                 605

Pro Gly Thr Ser His Val Leu Gly Ala Tyr Ala Val Asp Asn Thr Cys
    610                 615                 620

Val Val Arg Ser Arg Asp Val Ser Thr Thr Gly Ser Thr Ser Glu Gly
625                 630                 635                 640

Ala Val Thr Ala Val Ala Ile Cys Cys Arg Ser Arg His Leu Ala Gln
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Ala Ser Gln Glu Leu Gln
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<210> 963
<211> 25378
<212> DNA

<213> Homo sapiens

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