

SEQUENCE LISTING

<110> Alder Biopharmaceuticals, Inc.

<120> Anti-PACAP Antibodies and Uses Thereof

<130> 43257.6213

<140> TBD

<141> 2017-04-14

<150> 62/322,939

<151> 2016-04-15

<150> 62/322,957

<151> 2016-04-15

<150> 62/323,495

<151> 2016-04-15

<150> 62/323,573

<151> 2016-04-15

<150> 62/366,902

<151> 2016-07-26

<150> 62/408,347

<151> 2016-10-14

<160> 1246

<170> PatentIn version 3.5

<210> 1

<211> 443

<212> PRT

<213> Artificial

<220>

<223> Humanized antibody sequence

<400> 1

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	Ala	Val
		20						25					30		

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn

260

265

270

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

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

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

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

Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu
 340 345 350

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

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

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

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

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

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

<210> 2

<211> 113

<212> PRT

<213> Artificial

<220>

<223> Humanized antibody sequence

<400> 2

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 Ala Val
20 25 30

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

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

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

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

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

Ser

<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

<211> 5

<212> PRT

<213> Oryctolagus cuniculus

<400> 4

Ser Ala Val Met Asn
1 5

<210> 5

<211> 14

<212> PRT

<213> *Oryctolagus cuniculus*

<400> 5

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

<210> 6

<211> 16

<212> PRT

<213> *Oryctolagus cuniculus*

<400> 6

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

<210> 7

<211> 31

<212> PRT

<213> *Oryctolagus cuniculus*

<400> 7

Arg Phe Thr Ile Ser Lys Thr Ser Ser Thr Thr Met Asp Leu Lys Met
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> 7

<212> PRT

<213> *Oryctolagus cuniculus*

<400> 8

Gly Gly Gly Glu Phe Phe Ile
1 5

<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
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> 11
<211> 1329
<212> DNA
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 11
cagtcggtgg aggagtccgg gggtcgcctg gtcacgcctg ggacaccct gacactcacc 60
tgcaccgtct ctggattctc cctcagtagc gctgtaatga attgggtccg ccaggctcca 120
gggaaggggc tggaatggat cggaagtatt gttgctagtgt gtaccacata ctacgcgagc 180
tgggcgaacg gccgattcac catctccaaa acctcgtcga ccacgatgga tctgaaaatg 240
accagtccga caaccgagga cacggccacc tatttctgtg ccagaggggg agggaattt 300
ttcatctggg gcccggggac cctcgtcacc gtctcgagcg cctccaccaa gggcccatcg 360
gtcttcccc tggcaccctc ctccaagagc acctctgggg gcacagcggc cctgggctgc 420
ctggtcaagg actacttccc cgaaccggtg acggtgtcgt ggaactcagg cgccctgacc 480
agcggcgtgc acaccttccc ggctgtccta cagtcctcag gactctactc cctcagcagc 540
gtggtgaccg tgccctccag cagcttgggc acccagacct acatctgcaa cgtgaatcac 600
aagcccagca acaccaaggt ggacgcgaga gttgagccca aatcttgtga caaaactcac 660
acatgcccac cgtgcccagc acctgaactc ctgggggggac cgtcagtctt cctcttcccc 720
ccaaaacca aggacaccct catgatctcc cggacccctg aggtcacatg cgtggtggtg 780
gacgtgagcc acgaagacct tgaggtcaag ttcaactggt acgtggacgg cgtggaggtg 840
cataatgcca agacaaagcc gcgggaggag cagtacgcca gcacgtaccg tgtggtcagc 900
gtcctcaccg tcctgcacca ggactggctg aatggcaagg agtacaagtg caaggtctcc 960
aaciaagccc tcccagcccc catcgagaaa accatctcca aagccaaagg gcagccccga 1020
gaaccacagg tgtacaccct gccccatcc cgggaggaga tgaccaagaa ccaggtcagc 1080
ctgacctgcc tgggtcaaagg cttctatccc agcgacatcg ccgtggagtg ggagagcaat 1140
gggcagccgg agaacaacta caagaccacg cctcccgtgc tggactccga cggctccttc 1200
ttcctctaca gcaagctcac cgtggacaag agcaggtggc agcaggggaa cgtcttctca 1260
tgctccgtga tgcatgaggc tctgcacaac cactacacgc agaagagcct ctccctgtct 1320

ccgggtaaa 1329

<210> 12
<211> 339
<212> DNA
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 12
cagtcggtgg aggagtccgg gggtcgcctg gtcacgcctg ggacaccct gacactcacc 60
tgcaccgtct ctggattctc cctcagtagc gctgtaatga attgggtccg ccaggctcca 120
gggaaggggc tggaatggat cggaagtatt gttgctagtgt gtaccacata ctacgcgagc 180
tgggcgaacg gccgattcac catctccaaa acctcgtcga ccacgatgga tctgaaaatg 240
accagtccga caaccgagga cacggccacc tatttctgtg ccagaggggg aggggaattt 300
ttcatctggg gcccggggac cctcgtcacc gtctcgagc 339

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

<400> 13
cagtcggtgg aggagtccgg gggtcgcctg gtcacgcctg ggacaccct gacactcacc 60
tgcaccgtct ctggattctc cctcagt 87

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

<400> 14
agcgctgtaa tgaat 15

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

<400> 15
tgggtccgcc aggctccagg gaaggggctg gaatggatcg ga 42

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

 <400> 16
 agtattgttg ctagtggtac cacatactac gcgagctggg cgaacggc 48

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

 <400> 17
 cgattcacca tctccaaaac ctcgtcgacc acgatggatc tgaaaatgac cagtccgaca 60
 accgaggaca cggccaccta tttctgtgcc aga 93

 <210> 18
 <211> 21
 <212> DNA
 <213> *Oryctolagus cuniculus*

 <400> 18
 gggggagggg aatttttcat c 21

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

 <220>
 <223> Humanized antibody sequence

 <400> 19
 tggggcccgg ggaccctcgt caccgtctcg agc 33

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

 <220>
 <223> Humanized antibody sequence

 <400> 20
 gcctccacca agggcccac cgtcttcccc ctggcaccct cctccaagag cacctctggg 60
 ggacacagcgg ccctgggctg cctggtcaag gactacttcc ccgaaccggt gacggtgtcg 120

tggaactcag gcgccctgac cagcggcgtg cacaccttcc cggctgtcct acagtcctca	180
ggactctact ccctcagcag cgtggtgacc gtgccctcca gcagcttggg caccagacc	240
tacatctgca acgtgaatca caagcccagc aacaccaagg tggacgcgag agttgagccc	300
aaatcttgtg acaaaaactca cacatgcca ccgtgcccag cacctgaact cctgggggga	360
ccgtcagtct tcctcttccc cccaaaaccc aaggacaccc tcatgatctc ccggaccctt	420
gaggtcacat gcgtgggtgtt ggacgtgagc cacgaagacc ctgaggtcaa gttcaactgg	480
tacgtggacg gcgtggaggt gcataatgcc aagacaaagc cgcgaggagga 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> 216
 <212> PRT
 <213> Artificial

<220>
 <223> Humanized antibody sequence

<400> 21

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

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

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

Ile	Tyr	Gln	Ala	Ser	Asn	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 Thr Asp Leu Glu
65 70 75 80

Cys Asp Asp Ala Ala Thr Tyr Tyr Cys Ala Gly Gly Tyr Ser Glu Asn
85 90 95

Ile Val Gly 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> 22

<211> 110

<212> PRT

<213> Artificial

<220>

<223> Humanized antibody sequence

<400> 22

Asp Pro Val Met Thr Gln Thr Pro Ser Ser Thr Ser Ala Ala Val Gly

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

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

<400> 23

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

Gly Thr Val Thr Ile Ser Cys	20
-----------------------------	----

<210> 24
 <211> 12
 <212> PRT
 <213> Oryctolagus cuniculus

<400> 24

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

<210> 25

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

<400> 25

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

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

<400> 26

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

<210> 28
<211> 10
<212> PRT
<213> Oryctolagus cuniculus

<400> 28

Ala Gly Gly Tyr Ser Glu Asn Ile Val Gly
1 5 10

<210> 29
<211> 11
<212> PRT
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 29

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

<210> 30

<211> 106

<212> PRT

<213> Artificial

<220>

<223> Humanized antibody sequence

<400> 30

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

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

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

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

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

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

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

<210> 31

<211> 648

<212> DNA

<213> Artificial

<220>

<223> Humanized antibody sequence

<400> 31

gaccctgtga tgaccagac tccatcttcc acgtctgcgg ctgtgggagg cacagtcacc	60
atcagttgcc agtccagtga gagtgtttat agtaactact taccctggta tcagcagaaa	120
ccagggcagc ctcccaactt cctgatctac caggcatcca atttggcatc tggggtccca	180
tcgcggttca aaggcagtgg atctgggaca cagttcactc tcaccatcac cgacctggag	240
tgtgacgatg ccgccactta ttactgtgca ggcggttata gtgaaaacat tgttggtttc	300
ggcggaggga ccgaggtggt ggtcaaactg acggtagcgg ccccatctgt cttcatcttc	360
ccgccatctg atgagcagtt gaaatctgga actgcctctg ttgtgtgcct gctgaataac	420
ttctatccca gagaggccaa agtacagtgg aagggtgata acgccctcca atcgggtaac	480
tcccaggaga gtgtcacaga gcaggacagc aaggacagca cctacagcct cagcagcacc	540
ctgacgctga gcaaagcaga ctacagagaaa cacaaagtct acgcctgcga agtcacccat	600
cagggcctga gctcgccgt cacaagagc ttcaacaggg gagagtgt	648

<210> 32
 <211> 330
 <212> DNA
 <213> Artificial

<220>
 <223> Humanized antibody sequence

gaccctgtga tgaccagac tccatcttcc acgtctgcgg ctgtgggagg cacagtcacc	60
atcagttgcc agtccagtga gagtgtttat agtaactact taccctggta tcagcagaaa	120
ccagggcagc ctcccaactt cctgatctac caggcatcca atttggcatc tggggtccca	180
tcgcggttca aaggcagtgg atctgggaca cagttcactc tcaccatcac cgacctggag	240
tgtgacgatg ccgccactta ttactgtgca ggcggttata gtgaaaacat tgttggtttc	300
ggcggaggga ccgaggtggt ggtcaaactg	330

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

gaccctgtga tgaccagac tccatcttcc acgtctgcgg ctgtgggagg cacagtcacc	60
atcagttgc	69

<210>	34	
<211>	36	
<212>	DNA	
<213>	Oryctolagus cuniculus	
<400>	34	
	cagtccagtg agagtgttta tagtaactac ttatcc	36
<210>	35	
<211>	45	
<212>	DNA	
<213>	Oryctolagus cuniculus	
<400>	35	
	tggtatcagc agaaaccagg gcagcctccc aacttcctga tctac	45
<210>	36	
<211>	21	
<212>	DNA	
<213>	Oryctolagus cuniculus	
<400>	36	
	caggcatcca atttggcatc t	21
<210>	37	
<211>	96	
<212>	DNA	
<213>	Oryctolagus cuniculus	
<400>	37	
	ggggtcccat cgcggttcaa aggcagtgga tctgggacac agttcactct caccatcacc	60
	gacctggagt gtgacgatgc cgccacttat tactgt	96
<210>	38	
<211>	30	
<212>	DNA	
<213>	Oryctolagus cuniculus	
<400>	38	
	gcaggcggtt atagtgaaaa cattgttggt	30
<210>	39	
<211>	33	
<212>	DNA	
<213>	Artificial	

<220>

<223> Humanized antibody sequence

<400> 39

ttcggcggag ggaccgaggt ggtgggtcaaa cgt

33

<210> 40

<211> 318

<212> DNA

<213> Artificial

<220>

<223> Humanized antibody sequence

<400> 40

acggtagcgg ccccatctgt cttcatcttc ccgccatctg atgagcagtt gaaatctgga 60

actgcctctg ttgtgtgcct gctgaataac ttctatccca gagaggccaa agtacagtgg 120

aaggtggata acgccctcca atcgggtaac tcccaggaga gtgtcacaga gcaggacagc 180

aaggacagca cctacagcct cagcagcacc ctgacgctga gcaaagcaga ctacgagaaa 240

cacaaagtct acgcctgcga agtcacccat cagggcctga gctcgcccgt cacaaagagc 300

ttcaacaggg gagagtgt 318

<210> 41

<211> 445

<212> PRT

<213> Artificial

<220>

<223> Humanized antibody sequence

<400> 41

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 Ala
20 25 30

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

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

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

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

Arg Gly Gly Gly Glu Phe Phe Ile Trp Gly Gln 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 Lys 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> 42

<211> 115

<212> PRT

<213> Artificial

<220>

<223> Humanized antibody sequence

<400> 42

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly

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

<210> 43
 <211> 30
 <212> PRT
 <213> Artificial

<220>
 <223> Humanized antibody sequence

<400> 43

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

<400> 44

Ser Ala Val Met Asn
1 5

<210> 45

<211> 14

<212> PRT

<213> Artificial

<220>

<223> Humanized antibody sequence

<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> Artificial

<220>

<223> Humanized antibody sequence

<400> 46

Ser Ile Val Ala Ser Gly Thr Thr Tyr Tyr Ala Ser Ser Ala Asn Gly
1 5 10 15

<210> 47

<211> 32

<212> PRT

<213> Artificial

<220>

<223> Humanized antibody sequence

<400> 47

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 Arg
20 25 30

<210> 48

<211> 7

<212> PRT
<213> *Oryctolagus cuniculus*

<400> 48

Gly Gly Gly Glu Phe Phe Ile
1 5

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

<220>
<223> Humanized antibody sequence

<400> 49

Trp Gly Gln 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

Lys 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> 1335
 <212> DNA
 <213> Artificial

<220>
 <223> Humanized antibody sequence

<400> 51

gaggtgcagc ttgtggagtc tgggggaggc ttggtccagc ctgggggggtc cctgagactc	60
tcctgtgcag cctctggatt caccgtcagt agcgtgttaa tgaattgggt ccgtcaggct	120
ccagggaagg ggctggagtg gatcggaaagt attgttgcta gtggtaccac atactacgtc	180
agctctgcta acggccgatt caccatctcc agagacaatt ccaagaacac cctgtatctt	240
caaatgaaca gcctgagagc tgaggacact gctgtgtatt actgtgctag agggggaggg	300
gaatttttca tctggggcca agggaccctc gtcaccgtct cgagcgcctc caccaagggc	360
ccatcggtct tccccctggc accctcctcc aagagcacct ctggggggcac agcggccctg	420
ggctgcctgg tcaaggacta cttccccgaa ccggtgacgg tgtcgtggaa ctcaggcgcc	480
ctgaccagcg gcgtgcacac cttcccggtc gtcctacagt cctcaggact ctactccctc	540
agcagcgtgg tgaccgtgcc ctccagcagc ttgggcaccc agacctacat ctgcaacgtg	600
aatcacaagc ccagcaacac caaggtggac aagaaagttg agcccaaatc ttgtgacaaa	660
actcacacat gcccaccgtg cccagcacct gaactcctgg ggggaccgtc agtcttcctc	720
ttccccccaa aaccaagga caccctcatg atctcccga cccctgaggt cacatgcgtg	780
gtggtggacg tgagccacga agaccctgag gtcaagttca actggtacgt ggacggcgtg	840
gaggtgcata atgccaagac aaagccgcgg gaggagcagt acgccagcac gtaccgtgtg	900
gtcagcgtcc tcaccgtcct gcaccaggac tggctgaatg gcaaggagta caagtgaag	960
gtctccaaca aagccctccc agcccccatc gagaaaacca tctccaaagc caaagggcag	1020
ccccgagaac cacaggtgta caccctgccc ccatcccggg aggagatgac caagaaccag	1080

gtcagcctga cctgcctggg 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> 52
 <211> 345
 <212> DNA
 <213> Artificial

<220>
 <223> Humanized antibody sequence

<400> 52	
gaggtgcagc ttgtggagtc tgggggaggc ttggtccagc ctgggggggtc cctgagactc	60
tcctgtgcag cctctggatt caccgtcagt agcgctgtaa tgaattgggt ccgtcaggct	120
ccaggaagg ggctggagt gatcgaagt attgttgcta gtggtaccac atactacgt	180
agctctgcta acggccgatt caccatctcc agagacaatt ccaagaacac cctgtatctt	240
caaatgaaca gcctgagagc tgaggacact gctgtgtatt actgtgctag agggggaggg	300
gaatttttca tctggggcca agggaccctc gtcaccgtct cgagc	345

<210> 53
 <211> 90
 <212> DNA
 <213> Artificial

<220>
 <223> Humanized antibody sequence

<400> 53	
gaggtgcagc ttgtggagtc tgggggaggc ttggtccagc ctgggggggtc cctgagactc	60
tcctgtgcag cctctggatt caccgtcagt	90

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

<400> 54	
agcgctgtaa tgaat	15

<210>	55	
<211>	42	
<212>	DNA	
<213>	Artificial	
<220>		
<223>	Humanized antibody sequence	
<400>	55	
	tgggtccgtc aggctccagg gaaggggctg gaggatcg ga	42
<210>	56	
<211>	48	
<212>	DNA	
<213>	Artificial	
<220>		
<223>	Humanized antibody sequence	
<400>	56	
	agtattgttg ctagtggtac cacatactac gctagctctg ctaacggc	48
<210>	57	
<211>	96	
<212>	DNA	
<213>	Artificial	
<220>		
<223>	Humanized antibody sequence	
<400>	57	
	cgattcacca tctccagaga caattccaag aacaccctgt atcttcaaat gaacagcctg	60
	agagctgagg acactgctgt gtattactgt gctaga	96
<210>	58	
<211>	21	
<212>	DNA	
<213>	Oryctolagus cuniculus	
<400>	58	
	ggggggagggg aatttttcat c	21
<210>	59	
<211>	33	
<212>	DNA	
<213>	Artificial	

<220>

<223> Humanized antibody sequence

<400> 59

tggggccaag 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 cctgggtcaag gactacttcc ccgaaccggt gacgggtgtcg 120

tggaactcag gcgccctgac cagcggcgtg cacaccttcc cggctgtcct acagtcctca 180

ggactctact ccctcagcag cgtgggtgacc gtgccctcca gcagcttggg caccagacc 240

tacatctgca acgtgaatca caagcccagc aacaccaagg tggacaagaa agttgagccc 300

aaatcttgtg acaaaaactca cacatgcccc ccgtgcccag cacctgaact cctgggggga 360

ccgtcagtct tcctcttccc cccaaaaccc aaggacaccc tcatgatctc ccggaccctt 420

gaggtcacat gcgtgggtgt ggacgtgagc cacgaagacc ctgaggtcaa gttcaactgg 480

tacgtggacg gcgtggaggt gcataatgcc aagacaaagc cgcgggagga gcagtacgcc 540

agcacgtacc gtgtgggtcag cgtcctcacc gtcctgcacc aggactggct gaatggcaag 600

gagtacaagt gcaaggcttc caacaaagcc ctcccagccc ccatcgagaa aaccatctcc 660

aaagccaaag ggcagccccg agaaccacag gtgtacaccc tgcccccatc ccgggaggag 720

atgaccaaga accagggtcag cctgacctgc ctgggtcaaag 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> 216

<212> PRT

<213> Artificial

<220>

<223> Humanized antibody sequence

<400> 61

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 Ser Ser Glu Ser Val Tyr Ser Asn
20 25 30

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

Ile Tyr Gln Ala Ser Asn 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 Ser Leu Gln
65 70 75 80

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

Ile Val Gly 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> 62
<211> 110
<212> PRT
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 62

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 Ser Ser Glu Ser Val Tyr Ser Asn
20 25 30

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

Ile Tyr Gln Ala Ser Asn 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 Ser Leu Gln
65 70 75 80

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

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

<210> 63
<211> 23
<212> PRT
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 63

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> 64

<211> 12

<212> PRT

<213> *Oryctolagus cuniculus*

<400> 64

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

<210> 65

<211> 15

<212> PRT

<213> Artificial

<220>

<223> Humanized antibody sequence

<400> 65

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

<210> 66

<211> 7

<212> PRT

<213> *Oryctolagus cuniculus*

<400> 66

Gln Ala Ser Asn Leu Ala Ser
1 5

<210> 67

<211> 32

<212> PRT

<213> Artificial

<220>

<223> Humanized antibody sequence

<400> 67

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> 68

<211> 10

<212> PRT

<213> Oryctolagus cuniculus

<400> 68

Ala Gly Gly Tyr Ser Glu Asn Ile Val Gly
1 5 10

<210> 69

<211> 11

<212> PRT

<213> Artificial

<220>

<223> Humanized antibody sequence

<400> 69

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

<210> 70

<211> 106

<212> PRT

<213> Artificial

<220>

<223> Humanized antibody sequence

<400> 70

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

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

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

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

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

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

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

<210> 71
<211> 648
<212> DNA
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 71
gacatccaga tgaccagtc tccttcacc ctgtctgcat ctgtaggaga cagagtcacc 60
atcacttgtc agtccagtga gagtgtttat agtaactact tatcctggta tcagcagaaa 120
ccaggaaaag cccctaagtt cctgatctat caggcatcca atttggcatc tggagtccca 180
tcaaggttca gcggcagtgg atctggaaca gaattcactc tcaccatcag cagcctgcag 240
cctgatgatt ttgcaactta ctactgtgca ggcggttata gtgaaaacat tgttggtttc 300
ggcggaggaa ccaaggtgga aatcaaactg acggtagcgg ccccatctgt cttcatcttc 360
ccgccatctg atgagcagtt gaaatctgga actgcctctg ttgtgtgcct gctgaataac 420
ttctatccca gagaggccaa agtacagtgg aagggtggata acgccctcca atcgggtaac 480
tcccaggaga gtgtcacaga gcaggacagc aaggacagca cctacagcct cagcagcacc 540
ctgacgctga gcaaagcaga ctacagaaaa cacaaagtct acgcctgcga agtcacccat 600
cagggcctga gctcgccgt cacaagagc ttcaacaggg gagagtgt 648

<210> 72
<211> 330

<212> DNA
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 72
gacatccaga tgaccagtc tccttcacc ctgtctgcat ctgtaggaga cagagtcacc 60
atcacttgtc agtccagtga gagtgtttat agtaactact taccctggta tcagcagaaa 120
ccaggaaaag cccctaagtt cctgatctat caggcatcca atttggcatc tggagtccca 180
tcaaggttca gcggcagtgg atctggaaca gaattcactc tcaccatcag cagcctgcag 240
cctgatgatt ttgcaactta ctactgtgca ggcggttata gtgaaaacat tgttggtttc 300
ggcggaggaa ccaaggtgga aatcaaactg 330

<210> 73
<211> 69
<212> DNA
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 73
gacatccaga tgaccagtc tccttcacc ctgtctgcat ctgtaggaga cagagtcacc 60
atcacttgt 69

<210> 74
<211> 36
<212> DNA
<213> *Oryctolagus cuniculus*

<400> 74
cagtcagtg agagtgttta tagtaactac ttatcc 36

<210> 75
<211> 45
<212> DNA
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 75
tggtatcagc agaaaccagg aaaagcccct aagttcctga tctat 45

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

 <400> 76
 caggcatcca atttggcatc t 21

 <210> 77
 <211> 96
 <212> DNA
 <213> Artificial

 <220>
 <223> Humanized antibody sequence

 <400> 77
 ggagtcccat caaggttcag cggcagtgga tctggaacag aattcactct caccatcagc 60
 agcctgcagc ctgatgattt tgcaacttac tactgt 96

 <210> 78
 <211> 30
 <212> DNA
 <213> *Oryctolagus cuniculus*

 <400> 78
 gcaggcggtt atagtgaaaa cattgttggt 30

 <210> 79
 <211> 33
 <212> DNA
 <213> Artificial

 <220>
 <223> Humanized antibody sequence

 <400> 79
 ttcggcggag gaaccaaggt ggaaatcaaa cgt 33

 <210> 80
 <211> 318
 <212> DNA
 <213> Artificial

 <220>
 <223> Humanized antibody sequence

 <400> 80

acggtagcgg ccccatctgt cttcatcttc ccgccatctg atgagcagtt gaaatctgga 60
actgcctctg ttgtgtgcct gctgaataac ttctatccca gagaggccaa agtacagtgg 120
aaggtggata acgccctcca atcgggtaac tcccaggaga gtgtcacaga gcaggacagc 180
aaggacagca cctacagcct cagcagcacc ctgacgctga gcaaagcaga ctacgagaaa 240
cacaaagtct acgcctgcga agtcacccat cagggcctga gctcgcccgt cacaaagagc 300
ttcaacaggg gagagtgt 318

<210> 81
<211> 443
<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 Thr Pro
1 5 10 15

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

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

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

Gly Gly Glu Phe Phe Ile Trp Gly Gln Gly Thr Leu Val Thr Val Ser
100 105 110

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu

340

345

350

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

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

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

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

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

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

<210> 82

<211> 113

<212> PRT

<213> Artificial

<220>

<223> Humanized antibody sequence

<400> 82

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 Gly Ala Ala
 20 25 30

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

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

Gly	Gly	Glu	Phe	Phe	Ile	Trp	Gly	Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	
			100					105					110			

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	Thr	Pro	
1				5					10					15		

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

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

<400> 84

Gly	Ala	Ala	Met	Asn												
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

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

<210> 87
<211> 31
<212> PRT
<213> Oryctolagus cuniculus

<400> 87

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

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

<210> 88
<211> 7
<212> PRT
<213> Oryctolagus cuniculus

<400> 88

Gly	Gly	Gly	Glu	Phe	Phe	Ile
1				5		

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

<220>
<223> Humanized antibody sequence

<400> 89

Trp	Gly	Gln	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 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> 91
 <211> 1329
 <212> DNA
 <213> Artificial

<220>
 <223> Humanized antibody sequence

<400> 91
 cagtcggtgg aggagtccgg gggtcgctg gtcacgcctg ggacaccct gacactcacc 60
 tgcaccgtct ctggattctc cctcagtggc gctgcgatga actgggtccg ccaggctcca 120
 gggaaggggc tggaatggat cggagttatt ggtaatagtg gtagcacata ctacgcgtcc 180
 tgggcgaaag gccgattcac catctcaaaa acctcgtcga ccacggtgga tctgaaaatg 240
 accagtccga caaccgagga cacggccacc tatttctgtg ccagaggggg aggggaattt 300

ttcatctggg gccaaaggac cctggtcacc gtctcgagcg cctccaccaa gggcccatcg	360
gtcttcccc tggcaccctc ctccaagagc acctctgggg gcacagcggc cctgggctgc	420
ctgggtcaagg actacttccc cgaaccggtg acgggtgtcgt ggaactcagg cgccctgacc	480
agcggcgtgc acaccttccc ggctgtccta cagtcctcag gactctactc cctcagcagc	540
gtggtgaccg tgccctccag cagcttgggc acccagacct acatctgcaa cgtgaatcac	600
aagcccagca acaccaaggt ggacgcgaga gttgagccca aatcttgtga caaaactcac	660
acatgcccac cgtgcccagc acctgaactc ctggggggac cgtcagtctt cctcttcccc	720
ccaaaaccca aggacaccct catgatctcc cggaccctg aggtcacatg cgtggtggtg	780
gacgtgagcc acgaagacct tgaggtcaag ttcaactggt acgtggacgg cgtggaggtg	840
cataatgcca agacaaagcc gcgggaggag cagtacgcca gcacgtaccg tgtggtcagc	900
gtcctcaccg tcctgcacca ggactggctg aatggcaagg agtacaagtg caaggtctcc	960
aacaaagccc tcccagcccc catcgagaaa accatctcca aagccaaagg gcagccccga	1020
gaaccacagg tgtacaccct gccccatcc cgggaggaga tgaccaagaa ccaggtcagc	1080
ctgacctgcc tgggtcaaagg cttctatccc agcgacatcg ccgtggagtg ggagagcaat	1140
gggcagccgg agaacaacta caagaccag cctcccgtgc tggactccga cggctccttc	1200
ttcctctaca gcaagctcac cgtggacaag agcaggtggc agcaggggaa cgtcttctca	1260
tgctccgtga tgcatgaggc tctgcacaac cactacacgc agaagagcct ctccctgtct	1320
ccgggtaaa	1329

<210> 92
 <211> 339
 <212> DNA
 <213> Artificial

<220>
 <223> Humanized antibody sequence

<400> 92	
cagtcggtgg aggagtccgg gggtcgcctg gtcacgcctg ggacaccct gacactcacc	60
tgcaccgtct ctggattctc cctcagtggc gctgcgatga actgggtccg ccaggctcca	120
gggaaggggc tggaatggat cggagttatt ggtaatagtg gtagcacata ctacgcgtcc	180
tgggcgaaag gccgattcac catctccaaa acctcgtcga ccacggtgga tctgaaaatg	240

accagtccga caaccgagga cacggccacc tatttctgtg ccagaggggg aggggaattt	300
ttcatctggg gccaaaggac cctggtcacc gtctcgagc	339

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

<400> 93	
cagtcggtgg aggagtccgg gggtcgcctg gtcacgcctg ggacaccct gacactcacc	60
tgcaccgtct ctggattctc cctcagt	87

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

<400> 94	
ggcgctgcga tgaac	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	
gttattggta atagtggtag cacatactac gcgtcctggg cgaaaggc	48

<210> 97
 <211> 93
 <212> DNA
 <213> *Oryctolagus cuniculus*

<400> 97	
cgattcacca tctccaaaac ctcgtcgacc acggtggatc tgaaaatgac cagtccgaca	60
accgaggaca cggccaccta tttctgtgcc aga	93

<210> 98
<211> 21
<212> DNA
<213> *Oryctolagus cuniculus*

<400> 98
gggggagggg aatttttcat c 21

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

<220>
<223> Humanized antibody sequence

<400> 99
tggggccaag ggaccctggg 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 cctgggtcaag gactacttcc ccgaaccggg gacgggtgtcg 120
tggaactcag gcgccctgac cagcggcgtg cacaccttcc cggctgtcct acagtcctca 180
ggactctact ccctcagcag cgtgggtgacc gtgccctcca gcagcttggg caccagacc 240
tacatctgca acgtgaatca caagcccagc aacaccaagg tggacgcgag agttgagccc 300
aaatcttgtg aaaaaactca cacatgcccc ccgtgcccag cacctgaact cctggggggga 360
ccgtcagtct tcctcttccc cccaaaaccc aaggacaccc tcatgatctc ccggaccctt 420
gaggtcacat gcgtgggtggg ggacgtgagc cacgaagacc ctgaggtcaa gttcaactgg 480
tacgtggacg gcgtggaggt gcataatgcc aagacaaagc cgcgggagga gcagtacgcc 540
agcacgtacc gtgtgggtcag cgtcctcacc gtcctgcacc aggactggct gaatggcaag 600
gagtacaagt gcaaggcttc caacaaagcc ctcccagccc ccatcgagaa aaccatctcc 660
aaagccaaag ggcagccccc 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 Gln Val Leu Thr Gln Thr Pro Ser Pro Val Ser Ala Ala Val Gly
1 5 10 15

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

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

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

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

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

Tyr Met Ser 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> 111
 <212> PRT
 <213> Artificial

<220>
 <223> Humanized antibody sequence

<400> 102

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

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

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

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

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

Glu Cys Asp Asp Ala Ala Thr Tyr Tyr Cys Ala Gly Gly Tyr Ser Thr

85

90

95

Tyr Met Ser Gly Phe Gly Gly Gly Thr Glu Val Val Val Lys Arg
100 105 110

<210> 103
<211> 23
<212> PRT
<213> *Oryctolagus cuniculus*

<400> 103

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

Gly Thr Val Thr Ile Asn Cys
20

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

<400> 104

Gln Ser Ser Glu Ser Val Tyr Lys Asn Asn Tyr 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 Phe Leu Ile Tyr
1 5 10 15

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

<400> 106

Gln Ala Ser Asn Leu Ala Asp
1 5

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

<400> 107

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 Asp Asp Ala Ala Thr Tyr Tyr Cys
20 25 30

<210> 108
<211> 10
<212> PRT
<213> *Oryctolagus cuniculus*

<400> 108

Ala Gly Gly Tyr Ser Thr Tyr Met Ser Gly
1 5 10

<210> 109
<211> 11
<212> PRT
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 109

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

<210> 110
<211> 106
<212> PRT
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 110

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

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

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

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

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

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

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
gccaagtgc tgaccagac tccatcccca gtgtctgcag ctgtgggagg caccgtcacc 60
atcaattgcc agtccagtga gagggtttat aagaacaact acttatcctg gtatcagcag 120
aaaccagggc agcctcccaa gttcctgatac taccaggcat ccaatttggc agatgggggtc 180
ccatcgcggt tcaaaggcag tggatctggg acacagttca ctctcaccat cagcgacctg 240
gagtgtgacg atgccgccac ttattactgt gcaggcggtt atagtactta tatgtctggt 300
ttcggcggag ggaccgaggt ggtggtcaaa cgtacggtag cggcccatc tgtcttcac 360
ttcccgccat ctgatgagca gttgaaatct ggaactgcct ctgttgtgtg cctgctgaat 420
aacttctatc ccagagaggc caaagtacag tggaagggtg ataacgccct ccaatcggtg 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> 333
<212> DNA
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 112
gcccaagtgc tgaccagac tccatcccca gtgtctgcag ctgtgggagg caccgtcacc 60
atcaattgcc agtccagtga gagggtttat aagaacaact acttatcctg gtatcagcag 120
aaaccagggc agcctcccaa gttcctgac taccaggcat ccaatttggc agatggggtc 180
ccatcgcggt tcaaaggcag tggatctggg acacagttca ctctcacat cagcgacctg 240
gagtgtgacg atgccgccac ttattactgt gcaggcggtt atagtactta tatgtctggt 300
ttcggcggag ggaccgaggt ggtggtcaaa cgt 333

<210> 113
<211> 69
<212> DNA
<213> *Oryctolagus cuniculus*

<400> 113
gcccaagtgc tgaccagac tccatcccca gtgtctgcag ctgtgggagg caccgtcacc 60
atcaattgc 69

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

<400> 114
cagtcagtg agagtgttta taagaacaac tacttatcc 39

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

<400> 115
tggtatcagc agaaaccagg gcagcctccc aagttcctga tctac 45

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

 <400> 116
 caggcatcca atttggcaga t 21

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

 <400> 117
 ggggtcccat cgcggttcaa aggcagtgga tctgggacac agttcactct caccatcagc 60
 gacctggagt gtgacgatgc cgccacttat tactgt 96

 <210> 118
 <211> 30
 <212> DNA
 <213> *Oryctolagus cuniculus*

 <400> 118
 gcaggcgggtt atagtactta tatgtctggt 30

 <210> 119
 <211> 33
 <212> DNA
 <213> Artificial

 <220>
 <223> Humanized antibody sequence

 <400> 119
 ttcggcggag ggaccgaggt ggtggtcaaa cgt 33

 <210> 120
 <211> 318
 <212> DNA
 <213> Artificial

 <220>
 <223> Humanized antibody sequence

 <400> 120
 acggtagcgg ccccatctgt cttcatcttc ccgccatctg atgagcagtt gaaatctgga 60
 actgcctctg ttgtgtgcct gctgaataac ttctatccca gagaggccaa agtacagtgg 120

aaggtggata acgccctcca atcgggtaac tcccaggaga gtgtcacaga gcaggacagc 180
aaggacagca cctacagcct cagcagcacc ctgacgctga gcaaagcaga ctacgagaaa 240
cacaaagtct acgcctgcga agtcacccat cagggcctga gctcgcccgt cacaaagagc 300
ttcaacaggg gagagtgt 318

<210> 121
<211> 443
<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 Phe Ser Leu Ser Ser Ala Ala
20 25 30

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu
340 345 350

Glu Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe

355

360

365

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

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

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

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

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

<210> 122
 <211> 113
 <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 Phe Ser Leu Ser Ser Ala Ala
 20 25 30

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

Ile Ile Asp Asn Thr Ala Gly Thr Tyr Tyr Ala Pro 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 Pro Thr Thr Glu Asp Thr Ala Thr Tyr Phe Cys Ala Arg Gly

85

90

95

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

Ser

<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 Phe Ser Leu Ser
20 25

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

<400> 124

Ser Ala Ala Met Asn
1 5

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

<400> 125

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

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

<400> 126

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

<210> 127
<211> 31
<212> PRT
<213> *Oryctolagus cuniculus*

<400> 127

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

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

<210> 128
<211> 7
<212> PRT
<213> *Oryctolagus cuniculus*

<400> 128

Gly Gly Gly Glu Phe Phe Ile
1 5

<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

Lys 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> 1329
 <212> DNA
 <213> Artificial

<220>
 <223> Humanized antibody sequence

<400> 131
 cagtcggtgg aggagtccgg gggtcgcctg gtcacgcctg ggacaccct gacactcacc 60
 tgcaccgtct ctggattctc cctcagtagc gctgcaatga actgggtccg ccaggctcca 120
 gggaaggggc tggaatggat cggaattatt gataatactg ctggcacata ttacgcgccc 180
 tgggcgaaag gccgattcac catctccaaa acctcgtcga ccacggtgga tctgaaaatg 240
 accagtccga caaccgagga cacggccacc tatttctgtg ccagaggggg aggggaattt 300
 ttcatctggg gcccgggcac cctcgtcacc gtctcgagcg cctccaccaa gggcccatcg 360
 gtcttcccc tggcaccctc ctccaagagc acctctgggg gcacagcggc cctgggctgc 420

ctggtcaagg actacttccc cgaaccggtg acggtgtcgt ggaactcagg cgccctgacc	480
agcggcgtgc acaccttccc ggctgtccta cagtcctcag gactctactc cctcagcagc	540
gtggtgaccg tgccctccag cagcttgggc acccagacct acatctgcaa cgtgaatcac	600
aagcccagca acaccaaggt ggacaagaaa gttgagccca aatcttgtga caaaactcac	660
acatgcccac cgtgcccagc acctgaactc ctgggggggac cgtcagtctt cctcttcccc	720
ccaaaacca aggacacct catgatctcc cggaccctg aggtcacatg cgtggtggtg	780
gacgtgagcc acgaagacct tgaggtcaag ttcaactggt acgtggacgg cgtggaggtg	840
cataatgcca agacaaagcc gcgggaggag cagtacgcca gcacgtaccg tgtggtcagc	900
gtcctcaccg tcctgcacca ggactggctg aatggcaagg agtacaagtg caaggtctcc	960
aacaaagccc tcccagcccc catcgagaaa accatctcca aagccaaagg gcagccccga	1020
gaaccacagg tgtacacct gcccccatcc cgggaggaga tgaccaagaa ccaggtcagc	1080
ctgacctgcc tgggtcaaagg cttctatccc agcgacatcg ccgtggagtg ggagagcaat	1140
gggcagccgg agaacaacta caagaccag cctcccgtgc tggactccga cggctccttc	1200
ttcctctaca gcaagctcac cgtggacaag agcaggtggc agcaggggaa cgtcttctca	1260
tgctccgtga tgcatgaggc tctgcacaac cactacacgc agaagagcct ctccctgtct	1320
ccgggtaaa	1329

<210> 132
 <211> 339
 <212> DNA
 <213> Artificial

<220>
 <223> Humanized antibody sequence

<400> 132	
cagtcggtgg aggagtccgg gggtcgcctg gtcacgcctg ggacaccct gacactcacc	60
tgcaccgtct ctggattctc cctcagtagc gctgcaatga actgggtccg ccaggctcca	120
gggaaggggc tggaatggat cggaattatt gataatactg ctggcacata ttacgcgccc	180
tgggcgaaag gccgattcac catctccaaa acctcgtcga ccacggtgga tctgaaaatg	240
accagtccga caaccgagga cacggccacc tatttctgtg ccagaggggg aggggaattt	300
ttcatctggg gcccgggcac cctcgtcacc gtctcagac	339

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

<400> 133
 cagtcggtgg aggagtccgg gggtcgcctg gtcacgcctg ggacaccct gacactcacc 60
 tgcaccgtct ctggattctc cctcagt 87

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

<400> 134
 agcgctgcaa tgaac 15

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

<400> 135
 tgggtccgcc aggctccagg gaaggggctg gaatggatcg ga 42

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

<400> 136
 attattgata atactgctgg cacatattac gcgccctggg cgaaaggc 48

<210> 137
 <211> 93
 <212> DNA
 <213> *Oryctolagus cuniculus*

<400> 137
 cgattcacca tctccaaaac ctcgtcgacc acggtggatc tgaaaatgac cagtccgaca 60
 accgaggaca cggccaccta tttctgtgcc aga 93

<210> 138
 <211> 21
 <212> DNA
 <213> *Oryctolagus cuniculus*

<400> 138
gggggagggg aatttttcat c 21

<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 cctgggtcaag gactacttcc ccgaaccggt gacgggtgtcg 120
tggaactcag gcgccctgac cagcggcgtg cacaccttcc cggctgtcct acagtcctca 180
ggactctact ccctcagcag cgtgggtgacc gtgccctcca gcagcttggg caccagacc 240
tacatctgca acgtgaatca caagcccagc aacaccaagg tggacaagaa agttgagccc 300
aaatcttgtg acaaaaactca cacatgcccc ccgtgcccag cacctgaact cctgggggga 360
ccgtcagtct tcctcttccc cccaaaaccc aaggacaccc tcatgatctc ccggaccctt 420
gaggtcacat gcgtgggtggg ggacgtgagc cacgaagacc ctgaggtcaa gttcaactgg 480
tacgtggacg gcgtggaggt gcataatgcc aagacaaagc cgcgggagga gcagtacgcc 540
agcacgtacc gtgtgggtcag cgtcctcacc gtcctgcacc aggactggct gaatggcaag 600
gagtacaagt gcaaggctct caacaaagcc ctcccagccc ccatcgagaa aaccatctcc 660
aaagccaaag ggcagccccg agaaccacag gtgtacaccc tgcccccatc ccgggaggag 720
atgaccaaga accaggtcag cctgacctgc ctgggtcaaag 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> 217
<212> PRT
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 141

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

Gly Thr Val Thr Ile Asn Cys Gln Ser Ser Gln Ser Val His Asp Gly
20 25 30

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

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

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

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

Asn Ile Cys 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> 142
 <211> 111
 <212> PRT
 <213> Artificial

<220>
 <223> Humanized antibody sequence

<400> 142

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

100

105

110

<210> 143
<211> 23
<212> PRT
<213> Oryctolagus cuniculus

<400> 143

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

Gly Thr Val Thr Ile Asn Cys
20

<210> 144
<211> 13
<212> PRT
<213> Oryctolagus cuniculus

<400> 144

Gln Ser Ser Gln Ser Val His Asp Gly Ser Tyr Leu Ser
1 5 10

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

<400> 145

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

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

<400> 146

Gln Ala Ser Asn Leu Ala Ser
1 5

<210> 147
<211> 32
<212> PRT

<213> Oryctolagus cuniculus

<400> 147

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 Asp Asp Ala Ala Thr Tyr Tyr Cys
20 25 30

<210> 148

<211> 10

<212> PRT

<213> Oryctolagus cuniculus

<400> 148

Ala Gly Gly Tyr Ser Ser Asn Ile Cys Gly
1 5 10

<210> 149

<211> 11

<212> PRT

<213> Artificial

<220>

<223> Humanized antibody sequence

<400> 149

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

<210> 150

<211> 106

<212> PRT

<213> Artificial

<220>

<223> Humanized antibody sequence

<400> 150

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

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

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

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

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

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

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

<210> 151
<211> 651
<212> DNA
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 151
gcgcaagtgc tgaccagac tccatcgtcc gtgtctgcag ctgtgggagg cacagtcacc 60
atcaattgcc agtccagtca gagtgttcat gatggcagct acttatacctg gtatcagcag 120
aaaccagggc agcctcccaa cttcctgatc taccaggcat ccaatttggc atctggggtc 180
ccatcgcggt tcaaaggcag tggatctggg acacagttca ctctaccat cagcgacctg 240
gagtgtgacg atgccgccac ttattactgt gcaggcgggt atagtagtaa tatttgtggt 300
ttcggcggag ggaccgaggt ggtggtcaaa cgtacggtag cggcccatc tgtcttcac 360
ttcccgccat ctgatgagca gttgaaatct ggaactgcct ctgttgtgtg cctgctgaat 420
aacttctatc ccagagaggc caaagtacag tggaagggtg ataacgccct ccaatcgggt 480
aactcccagg agagtgtcac agagcaggac agcaaggaca gcacctacag cctcagcagc 540
accctgacgc tgagcaaagc agactacgag aaacacaaag tctacgcctg cgaagtcacc 600
catcagggcc tgagctcgcc cgtcaciaaag agcttcaaca ggggagagtg t 651

<210> 152

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

<220>
<223> Humanized antibody sequence

<400> 152
gcgcaagtgc tgaccagac tccatcgccc gtgtctgcag ctgtgggagg cacagtcacc 60
atcaattgcc agtccagtca gagggttcac gatggcagct acttaccctg gtatcagcag 120
aaaccagggc agcctcccaa cttcctgacg taccaggcat ccaatttggc atctggggtc 180
ccatcgcggt tcaaaggcag tggatctggg acacagttca ctctaccat cagcgacctg 240
gagtgtgacg atgccgccac ttattactgt gcaggcggtt atagtagtaa tatttgtggt 300
ttcggcggag ggaccgaggt ggtgggtcaaa cgt 333

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

<400> 153
gcgcaagtgc tgaccagac tccatcgccc gtgtctgcag ctgtgggagg cacagtcacc 60
atcaattgc 69

<210> 154
<211> 39
<212> DNA
<213> *Oryctolagus cuniculus*

<400> 154
cagtccagtc agagtgttca tgatggcagc tacttatcc 39

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

<400> 155
tggtatcagc agaaaccagg gcagcctccc aacttcctga tctac 45

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

<400> 156
 caggcatcca atttggcatc t 21

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

<400> 157
 ggggtcccat cgcggttcaa aggcagtgga tctgggacac agttcactct caccatcagc 60
 gacctggagt gtgacgatgc cgccacttat tactgt 96

<210> 158
 <211> 30
 <212> DNA
 <213> *Oryctolagus cuniculus*

<400> 158
 gcaggcgggtt atagtagtaa tatttgtggt 30

<210> 159
 <211> 33
 <212> DNA
 <213> Artificial

<220>
 <223> Humanized antibody sequence

<400> 159
 ttcggcggag ggaccgaggt ggtggtcaaa cgt 33

<210> 160
 <211> 318
 <212> DNA
 <213> Artificial

<220>
 <223> Humanized antibody sequence

<400> 160
 acggtagcgg ccccatctgt cttcatcttc ccgcatctg atgagcagtt gaaatctgga 60
 actgcctctg ttgtgtgcct gctgaataac ttctatccca gagaggccaa agtacagtgg 120
 aaggtggata acgccctcca atcgggtaac tcccaggaga gtgtcacaga gcaggacagc 180
 aaggacagca cctacagcct cagcagcacc ctgacgctga gcaaagcaga ctacgagaaa 240

cacaaagtct acgcctgcga agtcacccat cagggcctga gctcgcccgt cacaaagagc 300
 ttcaacaggg gagagtgt 318

<210> 161
 <211> 443
 <212> PRT
 <213> Artificial

<220>
 <223> Humanized antibody sequence

<400> 161

Gln Ser Val Glu Ala 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 Ala Ala
 20 25 30

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

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

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

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

Gly Gly Glu Phe Phe Ile Trp Gly Gln Gly Thr Leu Val Thr Val Ser
 100 105 110

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu
340 345 350

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

Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu

370

375

380

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

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

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

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

<210> 162
 <211> 113
 <212> PRT
 <213> Artificial

<220>
 <223> Humanized antibody sequence

<400> 162

Gln Ser Val Glu Ala 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 Ala Ala
 20 25 30

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

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

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

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

Gly Gly Glu Phe Phe Ile Trp Gly Gln Gly Thr Leu Val Thr Val Ser

100

105

110

Ser

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

<400> 163

Gln Ser Val Glu Ala 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 Ala Ala Met Asn
 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

Phe Ile Glu Tyr Ser Lys Asn Ile Val Tyr Ala Ser Trp Ala Lys Gly
 1 5 10 15

<210> 167
<211> 31
<212> PRT
<213> *Oryctolagus cuniculus*

<400> 167

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

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

<210> 168
<211> 7
<212> PRT
<213> *Oryctolagus cuniculus*

<400> 168

Gly Gly Gly Glu Phe Phe Ile
1 5

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

<220>
<223> Humanized antibody sequence

<400> 169

Trp Gly Gln 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

Lys 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> 1329
 <212> DNA
 <213> Artificial

<220>
 <223> Humanized antibody sequence

<400> 171	
cagtcggtgg aggcgtccgg gggtcgcctg gtcacgcctg ggacaccct gacactcacc	60
tgcaccgtct ctggattctc cctcagtagc gctgcaatga actgggtccg ccaggctcca	120
gggaaggggc tggaatggat cggatttatt gagtatagta agaatatagt ttacgcgtcc	180
tgggcgaaag gccgattcac catctcaaaa gtctcgtcga ccacggtgga tctgaaaatg	240
accagtccga caaccgagga cacggccacc tatttctgtg ccaggggggg aggggaattt	300
ttcatctggg gccaaaggcac cctggtcacc gtctcgagcg cctccaccaa gggcccatcg	360
gtcttcccc ttggcaccctc ctccaagagc acctctgggg gcacagcggc cctgggctgc	420
ctggtcaagg actacttccc cgaaccggtg acggtgtcgt ggaactcagg cgccctgacc	480
agcggcgtgc acaccttccc ggctgtccta cagtcctcag gactctactc cctcagcagc	540

gtggtgaccg tgccctccag cagcttgggc acccagacct acatctgcaa cgtgaatcac	600
aagcccagca acaccaaggt ggacaagaaa gttgagccca aatcttgtga caaaactcac	660
acatgcccac cgtgcccagc acctgaactc ctgggggggac cgtcagtctt cctcttcccc	720
ccaaaaccca aggacaccct catgatctcc cggacccttg aggtcacatg cgtggtggtg	780
gacgtgagcc acgaagacct tgaggtcaag ttcaactggt acgtggacgg cgtggaggtg	840
cataatgcca agacaaagcc gcgggaggag cagtacgcca gcacgtaccg tgtggtcagc	900
gtcctcaccg tcctgcacca ggactggctg aatggcaagg agtacaagtg caaggtctcc	960
aacaaagccc tcccagcccc catcgagaaa accatctcca aagccaaagg gcagccccga	1020
gaaccacagg tgtacaccct gccccatcc cgggaggaga tgaccaagaa ccaggtcagc	1080
ctgacctgcc tgggtcaaagg cttctatccc agcgacatcg ccgtggagtg ggagagcaat	1140
gggcagccgg agaacaacta caagaccacg cctcccgtgc tggactccga cggctccttc	1200
ttcctctaca gcaagctcac cgtggacaag agcaggtggc agcaggggaa cgtcttctca	1260
tgctccgtga tgcatgaggc tctgcacaac cactacacgc agaagagcct ctccctgtct	1320
ccgggtaaa	1329

<210> 172
 <211> 339
 <212> DNA
 <213> Artificial

<220>
 <223> Humanized antibody sequence

<400> 172	
cagtcggtgg aggcgtccgg gggtcgcctg gtcacgcctg ggacaccct gacactcacc	60
tgcaccgtct ctggattctc cctcagtagc gctgcaatga actgggtccg ccaggctcca	120
gggaaggggc tggaatggat cggatttatt gagtatagta agaatatagt ttacgcgtcc	180
tgggcgaaag gccgattcac catctccaaa gtctcgtcga ccacggtgga tctgaaaatg	240
accagtccga caaccgagga cacggccacc tatttctgtg ccaggggggg aggggaattt	300
ttcatctggg gccaaaggcac cctgggtcacc gtctcgagc	339

<210> 173
 <211> 87
 <212> DNA

<213> Oryctolagus cuniculus
 <400> 173
 cagtcggtgg aggcgtccgg gggtcgcctg gtcacgcctg ggacaccct gacactcacc 60
 tgcaccgtct ctggattctc cctcagt 87

<210> 174
 <211> 15
 <212> DNA
 <213> Oryctolagus cuniculus
 <400> 174
 agcgctgcaa tgaac 15

<210> 175
 <211> 42
 <212> DNA
 <213> Oryctolagus cuniculus
 <400> 175
 tgggtccgcc aggcctccagg gaaggggctg gaatggatcg ga 42

<210> 176
 <211> 48
 <212> DNA
 <213> Oryctolagus cuniculus
 <400> 176
 tttattgagt atagtaagaa tatagtttac gcgtcctggg cgaaaggc 48

<210> 177
 <211> 93
 <212> DNA
 <213> Oryctolagus cuniculus
 <400> 177
 cgattcacca tctccaaagt ctcgtcgacc acgggtggatc tgaaaatgac cagtccgaca 60
 accgaggaca cggccaccta tttctgtgcc agg 93

<210> 178
 <211> 21
 <212> DNA
 <213> Oryctolagus cuniculus
 <400> 178
 gggggagggg aatttttcat c 21

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

<220>
<223> Humanized antibody sequence

<400> 179
tggggccaag gcaccctggt 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 caccagacc 240
tacatctgca acgtgaatca caagcccagc aacaccaagg tggacaagaa agttgagccc 300
aaatcttgtg aaaaaactca cacatgcca ccgtgcccag cacctgaact cctgggggga 360
ccgtcagtct tcctcttccc ccaaaaacc aaggacacc tcatgatctc ccggaccct 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 tgccccatc 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> 217
<212> PRT
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 181

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

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

Asn Arg Leu Ser Tyr Tyr Gln Gln Lys Pro Gly Gln Pro Pro Lys Leu
35 40 45

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

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

Glu Cys Asp Asp Ala Ala Thr Tyr Tyr Cys Ala Gly Ala Tyr Ser Asn
85 90 95

Ser Ile Tyr Ser 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> 182
 <211> 111
 <212> PRT
 <213> Artificial

<220>
 <223> Humanized antibody sequence

<400> 182

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

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

Asn Arg Leu Ser Tyr Tyr Gln Gln Lys Pro Gly Gln Pro Pro Lys Leu
 35 40 45

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

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

Glu Cys Asp Asp Ala Ala Thr Tyr Tyr Cys Ala Gly Ala Tyr Ser Asn
 85 90 95

Ser Ile Tyr Ser Phe Gly Gly Gly Thr Glu Val Val Val Lys Arg
 100 105 110

<210> 183

<211> 23
<212> PRT
<213> *Oryctolagus cuniculus*

<400> 183

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

Gly Thr Val Thr Ile Asn Cys
20

<210> 184
<211> 13
<212> PRT
<213> *Oryctolagus cuniculus*

<400> 184

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

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

<400> 185

Tyr 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

Glu Ala Ser Ser Leu Ala Tyr
1 5

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

<400> 187

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 Asp Asp Ala Ala Thr Tyr Tyr Cys
20 25 30

<210> 188
<211> 10
<212> PRT
<213> *Oryctolagus cuniculus*

<400> 188

Ala Gly Ala Tyr Ser Asn Ser Ile Tyr Ser
1 5 10

<210> 189
<211> 11
<212> PRT
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 189

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

<210> 190
<211> 106
<212> PRT
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 190

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

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

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

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

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

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

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

<210> 191
<211> 651
<212> DNA
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 191
gcgcaagtgc tgaccagac tccatcgccc gtgtctgcag ctgtgggagg cacagtcacc 60
atcaattgcc agtccagtca gagggtttat agtaacaacc gggtatcgta ctatcagcag 120
aaaccagggc agcctcccaa gctcctgata tacgaagcat ccagtctggc atatgggggtc 180
ccatcgcggt tcaaaggcag tggatctggg acacagttca ctctcaccat cagcgacctg 240
gagtgtagc atgccgccac ttattactgt gcaggtgcct atagtaatag tatttatagt 300
ttcggcgagg ggaccgagg ggtggtcaaa cgtacggtag cggcccatc tgtcttcac 360
ttcccgccat ctgatgagca gttgaaatct ggaactgcct ctgttgtgtg cctgctgaat 420
aacttctatc ccagagaggc caaagtacag tggaagggtg ataacgccct ccaatcgggt 480
aactcccagg agagtgtcac agagcaggac agcaaggaca gcacctacag cctcagcagc 540
accctgacgc tgagcaaagc agactacgag aaacacaaag tctacgctg cgaagtcacc 600
catcagggcc tgagctcgcc cgtcacaaag agcttcaaca ggggagagtg t 651

<210> 192
<211> 333
<212> DNA
<213> Artificial

<220>

<223> Humanized antibody sequence

<400> 192

gcgcaagtgc tgaccagac tccatcgtcc gtgtctgcag ctgtgggagg cacagtcacc 60

atcaattgcc agtccagtca gagggtttat agtaacaacc ggttatcgta ctatcagcag 120

aaaccagggc agcctcccaa gctcctgata tacgaagcat ccagtctggc atatgggggc 180

ccatcgcggt tcaaaggcag tggatctggg acacagttca ctctcaccat cagcgacctg 240

gagtgtagc atgccgccac ttattactgt gcaggtgcct atagtaatag tatttatagt 300

ttcggcggag ggaccgaggt ggtggtcaaa cgt 333

<210> 193

<211> 69

<212> DNA

<213> *Oryctolagus cuniculus*

<400> 193

gcgcaagtgc tgaccagac tccatcgtcc gtgtctgcag ctgtgggagg cacagtcacc 60

atcaattgc 69

<210> 194

<211> 39

<212> DNA

<213> *Oryctolagus cuniculus*

<400> 194

cagtcagtc agagtggtta tagtaacaac cggttatcg 39

<210> 195

<211> 45

<212> DNA

<213> *Oryctolagus cuniculus*

<400> 195

tactatcagc agaaaccagg gcagcctccc aagtcctga tctac 45

<210> 196

<211> 21

<212> DNA

<213> *Oryctolagus cuniculus*

<400> 196

gaagcatcca gtctggcata t 21

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

<400> 197
 ggggtcccat cgcggttcaa aggcagtgga tctgggacac agttcactct caccatcagc 60
 gacctggagt gtgacgatgc cgccacttat tactgt 96

<210> 198
 <211> 30
 <212> DNA
 <213> *Oryctolagus cuniculus*

<400> 198
 gcaggtgcct atagtaatag tatttatagt 30

<210> 199
 <211> 33
 <212> DNA
 <213> Artificial

<220>
 <223> Humanized antibody sequence

<400> 199
 ttcggcggag ggaccgaggt ggtggtcaaa cgt 33

<210> 200
 <211> 318
 <212> DNA
 <213> Artificial

<220>
 <223> Humanized antibody sequence

<400> 200
 acggtagcgg ccccatctgt cttcatcttc ccgcatctg atgagcagtt gaaatctgga 60
 actgcctctg ttgtgtgcct gctgaataac ttctatccca gagaggccaa agtacagtgg 120
 aaggtggata acgccctcca atcgggtaac tcccaggaga gtgtcacaga gcaggacagc 180
 aaggacagca cctacagcct cagcagcacc ctgacgctga gcaaagcaga ctacgagaaa 240
 cacaaagtct acgcctgcga agtcacccat cagggcctga gctcgcccgt cacaaagagc 300
 ttcaacaggg gagagtgt 318

<210> 201
<211> 443
<212> PRT
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 201

Gln Ser Val Glu Ala Ser Gly Gly His 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 Ala Ala
20 25 30

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

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

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

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

Gly Gly Glu Phe Phe Ile Trp Gly Gln Gly Thr Leu Val Thr Val Ser
100 105 110

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu
340 345 350

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

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

Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe

385		390		395		400									
Phe	Leu	Tyr	Ser	Lys	Leu	Thr	Val	Asp	Lys	Ser	Arg	Trp	Gln	Gln	Gly
				405					410					415	
Asn	Val	Phe	Ser	Cys	Ser	Val	Met	His	Glu	Ala	Leu	His	Asn	His	Tyr
			420					425					430		
Thr	Gln	Lys	Ser	Leu	Ser	Leu	Ser	Pro	Gly	Lys					
		435					440								
<210> 202															
<211> 113															
<212> PRT															
<213> Artificial															
<220>															
<223> Humanized antibody sequence															
<400> 202															
Gln	Ser	Val	Glu	Ala	Ser	Gly	Gly	His	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	Ala	Ala
			20					25					30		
Met	Asn	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Ile	Gly
		35					40					45			
Ser	Val	Asp	Glu	Arg	Gln	Asn	Lys	Tyr	Tyr	Ala	Ser	Trp	Ala	Lys	Gly
	50					55					60				
Arg	Phe	Thr	Ile	Ser	Arg	Thr	Ser	Ser	Thr	Thr	Val	Asn	Leu	Lys	Met
65					70					75				80	
Thr	Ser	Pro	Thr	Thr	Glu	Asp	Thr	Ala	Thr	Tyr	Phe	Cys	Ala	Arg	Gly
			85						90					95	
Gly	Gly	Glu	Phe	Phe	Ile	Trp	Gly	Gln	Gly	Thr	Leu	Val	Thr	Val	Ser
			100					105					110		
Ser															

<210> 203
<211> 29
<212> PRT
<213> Oryctolagus cuniculus

<400> 203

Gln	Ser	Val	Glu	Ala	Ser	Gly	Gly	His	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> 204
<211> 5
<212> PRT
<213> Oryctolagus cuniculus

<400> 204

Ser	Ala	Ala	Met	Asn
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

Ser	Val	Asp	Glu	Arg	Gln	Asn	Lys	Tyr	Tyr	Ala	Ser	Trp	Ala	Lys	Gly
1				5					10					15	

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

<213> Oryctolagus cuniculus

<400> 207

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

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

<210> 208

<211> 7

<212> PRT

<213> Oryctolagus cuniculus

<400> 208

Gly Gly Gly Glu Phe Phe Ile
1 5

<210> 209

<211> 11

<212> PRT

<213> Artificial

<220>

<223> Humanized antibody sequence

<400> 209

Trp Gly Gln 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

Lys 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> 1329
 <212> DNA
 <213> Artificial

<220>
 <223> Humanized antibody sequence

<400> 211
 cagtcggtgg aggcgtccgg gggtcaccta gtcacgcctg ggacaccct gacactcacc 60
 tgcaccgtct ctggattctc cctcagtagc gctgcaatga actgggtccg ccaggctcca 120
 gggaaggggc tggaatggat cggatcgggt gatgagcgtc agaataaata ttacgcgtcc 180
 tgggcgaaag gccgattcac catctccaga acctcgtcga ccacggtgaa tctgaaaatg 240
 accagtccga caaccgagga cacggccacc tatttctgtg ccagaggggg aggggaattt 300
 ttcatctggg gccagggcac cctcgtcacc gtctcgagcg cctccaccaa gggcccatcg 360
 gtcttcccc tggcaccctc ctccaagagc acctctgggg gcacagcggc cctgggctgc 420
 ctggtcaagg actacttccc cgaaccggtg acggtgtcgt ggaactcagg cgccctgacc 480
 agcggcgtgc acaccttccc ggctgtccta cagtcctcag gactctactc cctcagcagc 540
 gtggtgaccg tgccctccag cagcttgggc acccagacct acatctgcaa cgtgaatcac 600
 aagcccagca acaccaaggt ggacaagaaa gttgagccca aatcttgtga caaaactcac 660

acatgcccac cgtgcccagc acctgaactc ctgggggggac cgtcagtctt cctcttcccc	720
ccaaaaccca aggacaccct catgatctcc cggacccttg aggtcacatg cgtgggtggtg	780
gacgtgagcc acgaagaccc tgagggtcaag ttcaactggt acgtggacgg cgtggaggtg	840
cataatgcca agacaaagcc gcgggaggag cagtacgcca gcacgtaccg tgtggtcagc	900
gtcctcaccg tcctgcacca ggactggctg aatggcaagg agtacaagtg caaggtctcc	960
aacaaagccc tcccagcccc catcgagaaa accatctcca aagccaaagg gcagccccga	1020
gaaccacagg tgtacaccct gccccatcc cgggaggaga tgaccaagaa ccaggtcagc	1080
ctgacctgcc tgggtcaaagg cttctatccc agcgacatcg ccgtggagtg ggagagcaat	1140
gggcagccgg agaacaacta caagaccacg cctcccgtgc tggactccga cggctccttc	1200
ttcctctaca gcaagctcac cgtggacaag agcaggtggc agcaggggaa cgtcttctca	1260
tgctccgtga tgcatgaggc tctgcacaac cactacacgc agaagagcct ctccctgtct	1320
ccgggtaaa	1329

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

<220>
 <223> Humanized antibody sequence

<400> 212	
cagtcggtgg aggcgtccgg gggtcaccta gtcacgcctg ggacaccct gacactcacc	60
tgcaccgtct ctggattctc cctcagtagc gctgcaatga actgggtccg ccaggctcca	120
gggaaggggc tggaatggat cggatcggtt gatgagcgtc agaataaata ttacgcgtcc	180
tgggcgaaag gccgattcac catctccaga acctcgtcga ccacggtgaa tctgaaaatg	240
accagtccga caaccgagga cacggccacc tatttctgtg ccagaggggg aggggaattt	300
ttcatctggg gccagggcac cctcgtcacc gtctcgagc	339

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

<400> 213	
cagtcggtgg aggcgtccgg gggtcaccta gtcacgcctg ggacaccct gacactcacc	60

tgcaccgtct ctggattctc cctcagt 87

<210> 214
<211> 15
<212> DNA
<213> Oryctolagus cuniculus

<400> 214
agcgctgcaa tgaac 15

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

<400> 215
tgggtccgcc aggctccagg gaaggggctg gaatggatcg ga 42

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

<400> 216
tcggttgatg agcgtcagaa taaatattac gcgtcctggg cgaaaggc 48

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

<400> 217
cgattcacca tctccagaac ctcgtcgacc acggtgaatc tgaaaatgac cagtccgaca 60

accgaggaca cggccaccta tttctgtgcc aga 93

<210> 218
<211> 21
<212> DNA
<213> Oryctolagus cuniculus

<400> 218
ggggggagggg aatttttcat c 21

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

<213> Artificial

<220>

<223> Humanized antibody sequence

<400> 219

tggggccagg 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 cctgggtcaag gactacttcc ccgaaccggt gacggtgtcg 120

tggaactcag gcgccctgac cagcggcgtg cacaccttcc cggctgtcct acagtcctca 180

ggactctact ccctcagcag cgtgggtgacc gtgccctcca gcagcttggg caccagacc 240

tacatctgca acgtgaatca caagcccagc aacaccaagg tggacaagaa agttgagccc 300

aaatcttgtg acaaaaactca cacatgccca ccgtgcccag cacctgaact cctgggggga 360

ccgtcagtct tcctcttccc cccaaaaccc aaggacaccc tcatgatctc ccggaccctt 420

gaggtcacat gcgtgggtgt ggacgtgagc cacgaagacc ctgaggtcaa gttcaactgg 480

tacgtggacg gcgtggaggt gcataatgcc aagacaaagc cgcgggagga gcagtacgcc 540

agcacgtacc gtgtgggtcag cgtcctcacc gtcctgcacc aggactggct gaatggcaag 600

gagtacaagt gcaaggtctc caacaaagcc ctcccagccc ccatcgagaa aaccatctcc 660

aaagccaaag ggcagccccg agaaccacag gtgtacaccc tgcccccatc ccgggaggag 720

atgaccaaga accaggtcag cctgacctgc ctgggtcaaag 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> 217
<212> PRT
<213> Artificial

<220>

<223> Humanized antibody sequence

<400> 221

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

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

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

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

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

Glu Cys Asp Asp Ala Ala Thr Tyr Tyr Cys Ala Gly Ala Tyr Asn Thr
85 90 95

Gly Ile Tyr 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> 222
 <211> 111
 <212> PRT
 <213> Artificial

<220>
 <223> Humanized antibody sequence

<400> 222

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

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

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

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

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

Glu Cys Asp Asp Ala Ala Thr Tyr Tyr Cys Ala Gly Ala Tyr Asn Thr
 85 90 95

Gly Ile Tyr Gly Phe Gly Gly Gly Thr Glu Val Val Val Lys Arg
 100 105 110

<210> 223
 <211> 23
 <212> PRT
 <213> Oryctolagus cuniculus

<400> 223

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

Gly Thr Val Thr Ile Asn Cys
20

<210> 224

<211> 13

<212> PRT

<213> *Oryctolagus cuniculus*

<400> 224

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

<210> 225

<211> 15

<212> PRT

<213> *Oryctolagus cuniculus*

<400> 225

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

<210> 226

<211> 7

<212> PRT

<213> *Oryctolagus cuniculus*

<400> 226

Glu Ala Ser Ser Leu Ala Ser
1 5

<210> 227

<211> 32

<212> PRT

<213> *Oryctolagus cuniculus*

<400> 227

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 Asp Asp Ala Ala Thr Tyr Tyr Cys
20 25 30

<210> 228
<211> 10
<212> PRT
<213> *Oryctolagus cuniculus*

<400> 228

Ala Gly Ala Tyr Asn Thr Gly Ile Tyr Gly
1 5 10

<210> 229
<211> 11
<212> PRT
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 229

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

<210> 230
<211> 106
<212> PRT
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 230

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

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

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

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

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

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

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

<210> 231
<211> 651
<212> DNA
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 231
gcgcaagtgc tgaccagac tccatcgccc gtgtctgcag ctgtgggagg cacagtcacc 60
atcaattgcc agtccagtca gagggtttat agtaacaacc gcttatcctg gtatcagcag 120
aaaccagggc agcctcccaa tctcctgata tacgaagcat ccagtctggc atctggggctc 180
ccatcgcggt tcagcggcag tggatctggg acacagttca ctctcaccat cagcgacctg 240
gagtgtagc atgccgccac ttattactgt gcaggcgctt ataatactgg gatttatggt 300
ttcggcggag ggaccgaggt ggtgggtcaaa cgtacggtag cggcccatc tgtcttcac 360
ttcccgccat ctgatgagca gttgaaatct ggaactgcct ctgttggtgtg cctgctgaat 420
aacttctatc ccagagaggc caaagtacag tggaagggtg 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> 232
<211> 333
<212> DNA
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 232

gcgcaagtgc tgacccagac tccatcgtcc gtgtctgcag ctgtgggagg cacagtcacc	60
atcaattgcc agtccagtca gagggtttat agtaacaacc gcttatacctg gtatcagcag	120
aaaccagggc agcctcccaa tctcctgatc tacgaagcat ccagtctggc atctggggtc	180
ccatcgcggg tcagcggcag tggatctggg acacagttca ctctcaccat cagcgacctg	240
gagtgtagcg atgccgccac ttattactgt gcaggcgctt ataatactgg gatttatggt	300
ttcggcggag ggaccgaggt ggtggtcaaa cgt	333

<210> 233
 <211> 69
 <212> DNA
 <213> *Oryctolagus cuniculus*

<400> 233	
gcgcaagtgc tgacccagac tccatcgtcc gtgtctgcag ctgtgggagg cacagtcacc	60
atcaattgc	69

<210> 234
 <211> 39
 <212> DNA
 <213> *Oryctolagus cuniculus*

<400> 234	
cagtccagtc agagtgttta tagtaacaac cgcttatcc	39

<210> 235
 <211> 45
 <212> DNA
 <213> *Oryctolagus cuniculus*

<400> 235	
tggtatcagc agaaaccagg gcagcctccc aatctcctga tctac	45

<210> 236
 <211> 21
 <212> DNA
 <213> *Oryctolagus cuniculus*

<400> 236	
gaagcatcca gtctggcatc t	21

<210> 237
 <211> 96
 <212> DNA

<213> Oryctolagus cuniculus

<400> 237

ggggtcccat cgcggttcag cggcagtgga tctgggacac agttcactct caccatcagc 60

gacctggagt gtgacgatgc cgccacttat tactgt 96

<210> 238

<211> 30

<212> DNA

<213> Oryctolagus cuniculus

<400> 238

gcaggcgctt ataatactgg gatttatggt 30

<210> 239

<211> 33

<212> DNA

<213> Artificial

<220>

<223> Humanized antibody sequence

<400> 239

ttcggcggag ggaccgaggt ggtggtcaaa cgt 33

<210> 240

<211> 318

<212> DNA

<213> Artificial

<220>

<223> Humanized antibody sequence

<400> 240

acggtagcgg ccccatctgt cttcatcttc ccgccatctg atgagcagtt gaaatctgga 60

actgcctctg ttgtgtgcct gctgaataac ttctatccca gagaggccaa agtacagtgg 120

aaggtggata acgccctcca atcgggtaac tcccaggaga gtgtcacaga gcaggacagc 180

aaggacagca cctacagcct cagcagcacc ctgacgctga gcaaagcaga ctacgagaaa 240

cacaaagtct acgcctgcga agtcacccat cagggcctga gctcgcccgt cacaaagagc 300

ttcaacaggg gagagtgt 318

<210> 241

<211> 443

<212> PRT

<213> Artificial

<220>

<223> Humanized antibody sequence

<400> 241

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu
340 345 350

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

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

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

Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly

405

410

415

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

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

<210> 242
 <211> 113
 <212> PRT
 <213> Artificial

<220>
 <223> Humanized antibody sequence

<400> 242

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

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

Ser

<210> 243

<211> 29
<212> PRT
<213> *Oryctolagus cuniculus*

<400> 243

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> 244
<211> 5
<212> PRT
<213> *Oryctolagus cuniculus*

<400> 244

Ser Ala Ala Met Ser
1 5

<210> 245
<211> 14
<212> PRT
<213> *Oryctolagus cuniculus*

<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> *Oryctolagus cuniculus*

<400> 246

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

<210> 247
<211> 31
<212> PRT
<213> *Oryctolagus cuniculus*

<400> 247

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

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

<210> 248
<211> 7
<212> PRT
<213> *Oryctolagus cuniculus*

<400> 248

Gly Gly Gly Glu Phe Phe Ile
1 5

<210> 249
<211> 11
<212> PRT
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 249

Trp Gly Pro 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

Lys 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> 1329
 <212> DNA
 <213> Artificial

<220>
 <223> Humanized antibody sequence

<400> 251
 cagtcggtgg aggagtccgg gggtcgcctg gtcacgcctg ggacaccct gacactcacc 60
 tgcaccgtct ctggattctc cctcagtagc gctgcaatga gctgggtccg ccaggctcca 120
 gggaaggggc tggaatggat cggaattatt gatgatagtg gtaacacata ctacgcgtcc 180
 tgggcgaaag cccgattcac catctccaaa acctcgtcga ccacggtgga tctgaaaatg 240
 accagtccga caaccgagga cacggccacc tatttctgtg ccagaggggg aggggagttt 300
 ttcatctggg gcccgggcac cctcgtcacc gtctcgagcg cctccaccaa gggcccatcg 360
 gtcttcccc tggcaccctc ctccaagagc acctctgggg gcacagcggc cctgggctgc 420
 ctggtcaagg actacttccc cgaaccggtg acggtgtcgt ggaactcagg cgccctgacc 480
 agcggcgtgc acaccttccc ggctgtccta cagtcctcag gactctactc cctcagcagc 540
 gtggtgaccg tgccctccag cagcttgggc acccagacct acatctgcaa cgtgaatcac 600
 aagcccagca acaccaaggt ggacaagaaa gttgagccca aatcttgtga caaaactcac 660
 acatgcccac cgtgcccagc acctgaactc ctgggggggac cgtcagtctt cctcttcccc 720
 ccaaaaccca aggacaccct catgatctcc cggaccctg aggtcacatg cgtggtggtg 780

gacgtgagcc acgaagaccc tgaggtcaag ttcaactggt acgtggacgg cgtggaggtg	840
cataatgcca agacaaagcc gcgggaggag cagtacgcca gcacgtaccg tgtggtcagc	900
gtcctcaccg tcctgcacca ggactggctg aatggcaagg agtacaagtg caaggtctcc	960
aacaaagccc tcccagcccc catcgagaaa accatctcca aagccaaagg gcagccccga	1020
gaaccacagg tgtacaccct gccccatcc cgggaggaga tgaccaagaa ccaggtcagc	1080
ctgacctgcc tgggtcaaagg cttctatccc agcgacatcg ccgtggagtg ggagagcaat	1140
gggcagccgg agaacaacta caagaccacg cctcccgtgc tggactccga cggctccttc	1200
ttcctctaca gcaagctcac cgtggacaag agcaggtggc agcaggggaa cgtcttctca	1260
tgctccgtga tgcatgaggc tctgcacaac cactacacgc agaagagcct ctccctgtct	1320
ccgggtaaa	1329

<210> 252
 <211> 339
 <212> DNA
 <213> Artificial

<220>
 <223> Humanized antibody sequence

<400> 252	
cagtcggtgg aggagtccgg gggtcgcctg gtcacgcctg ggacaccct gacactcacc	60
tgcaccgtct ctggattctc cctcagtagc gctgcaatga gctgggtccg ccaggctcca	120
gggaaggggc tggaatggat cggaattatt gatgatagtg gtaacacata ctacgcgtcc	180
tgggcgaaag cccgattcac catctccaaa acctcgtcga ccacggtgga tctgaaaatg	240
accagtccga caaccgagga cacggccacc tatttctgtg ccagaggggg aggggagttt	300
ttcatctggg gcccgggcac cctcgtcacc gtctcgagc	339

<210> 253
 <211> 87
 <212> DNA
 <213> *Oryctolagus cuniculus*

<400> 253	
cagtcggtgg aggagtccgg gggtcgcctg gtcacgcctg ggacaccct gacactcacc	60
tgcaccgtct ctggattctc cctcagt	87

<210>	254	
<211>	15	
<212>	DNA	
<213>	Oryctolagus cuniculus	
<400>	254	
	agcgctgcaa tgagc	15
<210>	255	
<211>	42	
<212>	DNA	
<213>	Oryctolagus cuniculus	
<400>	255	
	tgggtccgcc aggctccagg gaaggggctg gaatggatcg ga	42
<210>	256	
<211>	48	
<212>	DNA	
<213>	Oryctolagus cuniculus	
<400>	256	
	attattgatg atagtggtaa cacatactac gcgtcctggg cgaaagcc	48
<210>	257	
<211>	93	
<212>	DNA	
<213>	Oryctolagus cuniculus	
<400>	257	
	cgattcacca tctccaaaac ctcgtcgacc acggtggatc tgaaaatgac cagtccgaca	60
	accgaggaca cggccaccta tttctgtgcc aga	93
<210>	258	
<211>	21	
<212>	DNA	
<213>	Oryctolagus cuniculus	
<400>	258	
	gggggagggg agtttttcat c	21
<210>	259	
<211>	33	
<212>	DNA	
<213>	Artificial	
<220>		
<223>	Humanized antibody sequence	

<400> 259
tggggcccgg gcaccctcgt 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 cctgggtcaag gactacttcc ccgaaccggt gacgggtgtcg 120
tggaactcag gcgccctgac cagcggcgtg cacaccttcc cggctgtcct acagtcctca 180
ggactctact ccctcagcag cgtgggtgacc gtgccctcca gcagcttggg caccagacc 240
tacatctgca acgtgaatca caagcccagc aacaccaagg tggacaagaa agttgagccc 300
aaatcttgtg aaaaaactca cacatgccc aacgtgcccag cacctgaact cctggggggga 360
ccgtcagtct tcctcttccc cccaaaaccc aaggacaccc tcatgatctc ccggaccctt 420
gaggtcacat gcgtgggtgtt ggacgtgagc cacgaagacc ctgaggtcaa gttcaactgg 480
tacgtggacg gcgtggaggt gcataatgcc aagacaaagc cgcgggagga gcagtacgcc 540
agcacgtacc gtgtgggtcag cgtcctcacc gtcctgcacc aggactggct gaatggcaag 600
gagtacaagt gcaaggctct caacaaagcc ctcccagccc ccatcgagaa aaccatctcc 660
aaagccaaaag ggagccccg agaaccacag gtgtacaccc tgcccccatc ccgggaggag 720
atgaccaaga accaggtcag cctgacctgc ctgggtcaaag 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> 217
<212> PRT
<213> Artificial

<220>

<223> Humanized antibody sequence

<400> 261

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

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

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

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

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

Glu Cys Asp Asp Gly Ala Thr Tyr Tyr Cys Ala Gly Gly Tyr Arg Gly
85 90 95

Asn Val Cys 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> 262
 <211> 111
 <212> PRT
 <213> Artificial

<220>
 <223> Humanized antibody sequence

<400> 262

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

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

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

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

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

Glu Cys Asp Asp Gly Ala Thr Tyr Tyr Cys Ala Gly Gly Tyr Arg Gly
 85 90 95

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

<210> 263
 <211> 23
 <212> PRT
 <213> Oryctolagus cuniculus

<400> 263

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

Gly Thr Val Thr Ile Asn Cys
20

<210> 264
<211> 13
<212> PRT
<213> *Oryctolagus cuniculus*

<400> 264

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

<210> 265
<211> 15
<212> PRT
<213> *Oryctolagus cuniculus*

<400> 265

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

<210> 266
<211> 7
<212> PRT
<213> *Oryctolagus cuniculus*

<400> 266

Gln Ala Ser Asn Leu Ala Ser
1 5

<210> 267
<211> 32
<212> PRT
<213> *Oryctolagus cuniculus*

<400> 267

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 Asp Asp Gly Ala Thr Tyr Tyr Cys
20 25 30

<210> 268
<211> 10
<212> PRT
<213> *Oryctolagus cuniculus*

<400> 268

Ala Gly Gly Tyr Arg Gly Asn Val Cys Gly
1 5 10

<210> 269
<211> 11
<212> PRT
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 269

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

<210> 270
<211> 106
<212> PRT
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 270

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

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

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

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

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

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

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

<210> 271
 <211> 651
 <212> DNA
 <213> Artificial

<220>
 <223> Humanized antibody sequence

<400> 271
 gaccctgtgc tgaccagac tccatcgtcc gtgtctgcag ctgtgggagg cacagtcacc 60
 atcaattgcc agtccagtca gagtgtttat aataacaagt ggttatcctg gtatcagcag 120
 aaaccaggac agtctcccaa gttcctgatt taccaggcat ccaatttggc atctggggtc 180
 ccatcgcggt tcaaaggcag tggatctggg acacagttca ctctcaccat cagcgacctg 240
 gagtgtgacg atggcgccac ttattactgt gcaggcggct accgtggtaa tgtttgtggt 300
 ttcggcggag ggaccgaggt ggtgggtcaaa cgtacggtag cggcccatc tgtcttcac 360
 ttcccgccat ctgatgagca gttgaaatct ggaactgcct ctgttgtgtg cctgctgaat 420
 aacttctatc ccagagaggc caaagtacag tggaagggtg 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> 272
 <211> 333
 <212> DNA
 <213> Artificial

<220>
 <223> Humanized antibody sequence

<400> 272
 gaccctgtgc tgaccagac tccatcgtcc gtgtctgcag ctgtgggagg cacagtcacc 60
 atcaattgcc agtccagtca gagtgtttat aataacaagt ggttatcctg gtatcagcag 120

aaaccaggac agtctcccaa gttcctgatt taccaggcat ccaatttggc atctggggtc	180
ccatcgcggt tcaaaggcag tggatctggg acacagttca ctctcaccat cagcgacctg	240
gagtgtgacg atggcgccac ttattactgt gcaggcggct accgtggtaa tgtttgtggt	300
ttcggcggag ggaccgaggt ggtggtcaaa cgt	333

<210> 273
 <211> 69
 <212> DNA
 <213> *Oryctolagus cuniculus*

<400> 273	
gacctgtgc tgaccagac tccatcgctc gtgtctgcag ctgtgggagg cacagtcacc	60
atcaattgc	69

<210> 274
 <211> 39
 <212> DNA
 <213> *Oryctolagus cuniculus*

<400> 274	
cagtcagtc agagtgttta taataacaag tggttatcc	39

<210> 275
 <211> 45
 <212> DNA
 <213> *Oryctolagus cuniculus*

<400> 275	
tggtatcagc agaaaccagg acagtctccc aagttcctga ttac	45

<210> 276
 <211> 21
 <212> DNA
 <213> *Oryctolagus cuniculus*

<400> 276	
caggcatcca atttggcatc t	21

<210> 277
 <211> 96
 <212> DNA
 <213> *Oryctolagus cuniculus*

<400> 277	
ggggtcccat cgcggttcaa aggcagtgga tctgggacac agttcactct caccatcagc	60

gacctggagt gtgacgatgg cgccacttat tactgt 96

<210> 278
<211> 30
<212> DNA
<213> Oryctolagus cuniculus

<400> 278
gcaggcggct accgtggtaa tgtttgtggt 30

<210> 279
<211> 33
<212> DNA
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 279
ttcggcggag ggaccgaggt ggtggtcaaa cgt 33

<210> 280
<211> 318
<212> DNA
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 280
acggtagcgg ccccatctgt cttcatcttc ccgccatctg atgagcagtt gaaatctgga 60
actgcctctg ttgtgtgcct gctgaataac ttctatccca gagaggccaa agtacagtgg 120
aaggtggata acgccctcca atcgggtaac tcccaggaga gtgtcacaga gcaggacagc 180
aaggacagca cctacagcct cagcagcacc ctgacgctga gcaaagcaga ctacgagaaa 240
caciaagtct acgcctgcga agtcacccat cagggcctga gctcgcccgt caciaagagc 300
ttcaacaggg gagagtgt 318

<210> 281
<211> 443
<212> PRT
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 281

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 Ala Ala
20 25 30

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu
340 345 350

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

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

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

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

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

420

425

430

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

<210> 282
 <211> 113
 <212> PRT
 <213> Artificial

<220>
 <223> Humanized antibody sequence

<400> 282

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 Ala Ala
 20 25 30

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

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

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

Ser

<210> 283
 <211> 29
 <212> PRT
 <213> Oryctolagus cuniculus

<400> 283

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> 284

<211> 5

<212> PRT

<213> Oryctolagus cuniculus

<400> 284

Ser Ala Ala Met Asn
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> 16

<212> PRT

<213> Oryctolagus cuniculus

<400> 286

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

<210> 287

<211> 31

<212> PRT

<213> Oryctolagus cuniculus

<400> 287

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

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

<210> 288
<211> 7
<212> PRT
<213> Oryctolagus cuniculus

<400> 288

Gly Gly Gly Glu Phe Phe Ile
1 5

<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

Lys 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> 1329

<212> DNA

<213> Artificial

<220>

<223> Humanized antibody sequence

<400> 291

cagtcagtgg aggagtccgg gggtcgcctg gtcacgcctg ggacaccct aacactcacc	60
tgcaccgtct ctggattctc cctcagtagc gctgcaatga actgggtccg ccaggctcca	120
gggaaggggc tggaatggat cggtattttt gatccttata gtagtacata ctacgcgtcc	180
tgggcgaaag gccgattcac catctccaaa acctcgtcga ccacggtgga tctgaaaatg	240
accagtccga caaccgagga cacggccacc tatttctgtg ccagaggggg agggaattt	300
ttcatctggg gcccaggcac cctcgtcacc gtctcgagcg cctccaccaa gggcccatcg	360
gtcttcccc tggcaccctc ctccaagagc acctctgggg gcacagcggc cctgggctgc	420
ctggtcaagg actacttccc cgaaccggtg acggtgtcgt ggaactcagg cgccctgacc	480
agcggcgtgc acaccttccc ggctgtccta cagtcctcag gactctactc cctcagcagc	540
gtggtgaccg tgccctccag cagcttgggc acccagacct acatctgcaa cgtgaatcac	600
aagcccagca acaccaaggt ggacaagaaa gttgagccca aatcttgtga caaaactcac	660
acatgcccac cgtgcccagc acctgaactc ctgggggggac cgtcagtctt cctcttcccc	720
ccaaaacca aggacaccct catgatctcc cggaccctg aggtcacatg cgtggtggtg	780
gacgtgagcc acgaagacc tgagggtcaag ttcaactggt acgtggacgg cgtggaggtg	840
cataatgcca agacaaagcc gcgggaggag cagtacgcca gcacgtaccg tgtggtcagc	900

gtcctcaccg tcctgcacca ggactggctg aatggcaagg agtacaagtg caaggtctcc	960
aacaaagccc tcccagcccc catcgagaaa accatctcca aagccaaagg gcagccccga	1020
gaaccacagg tgtacaccct gccccatcc cgggaggaga tgaccaagaa ccaggtcagc	1080
ctgacctgcc tgggtcaaagg cttctatccc agcgacatcg ccgtggagtg ggagagcaat	1140
gggcagccgg agaacaacta caagaccacg cctcccgtgc tggactccga cggctccttc	1200
ttcctctaca gcaagctcac cgtggacaag agcaggtggc agcaggggaa cgtcttctca	1260
tgctccgtga tgcatgaggc tctgcacaac cactacacgc agaagagcct ctccctgtct	1320
ccgggtaaa	1329

<210> 292
 <211> 339
 <212> DNA
 <213> Artificial

<220>
 <223> Humanized antibody sequence

<400> 292	
cagtcagtgg aggagtccgg gggtcgcctg gtcacgcctg ggacaccct aacactcacc	60
tgcaccgtct ctggattctc cctcagtagc gctgcaatga actgggtccg ccaggctcca	120
gggaaggggc tggaatggat cggatattttt gatccttata gtagtacata ctacgcgtcc	180
tgggcgaaag gccgattcac catctccaaa acctcgtcga ccacggtgga tctgaaaatg	240
accagtccga caaccgagga cacggccacc tatttctgtg ccagaggggg aggggaattt	300
ttcatctggg gccagggcac cctcgtcacc gtctcagac	339

<210> 293
 <211> 87
 <212> DNA
 <213> *Oryctolagus cuniculus*

<400> 293	
cagtcagtgg aggagtccgg gggtcgcctg gtcacgcctg ggacaccct aacactcacc	60
tgcaccgtct ctggattctc cctcagt	87

<210> 294
 <211> 15
 <212> DNA
 <213> *Oryctolagus cuniculus*

<400> 294	
agcgctgcaa tgaac	15
<210> 295	
<211> 42	
<212> DNA	
<213> Oryctolagus cuniculus	
<400> 295	
tgggtccgcc aggctccagg gaaggggctg gaatggatcg gt	42
<210> 296	
<211> 48	
<212> DNA	
<213> Oryctolagus cuniculus	
<400> 296	
atttttgatc cttatagtag tacatactac gcgtcctggg cgaaaggc	48
<210> 297	
<211> 93	
<212> DNA	
<213> Oryctolagus cuniculus	
<400> 297	
cgattcacca tctccaaaac ctcgtcgacc acggtggatc tgaaaatgac cagtccgaca	60
accgaggaca cggccaccta tttctgtgcc aga	93
<210> 298	
<211> 21	
<212> DNA	
<213> Oryctolagus cuniculus	
<400> 298	
gggggagggg aatttttcat c	21
<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 ctggcacctt cctccaagag cacctctggg 60
ggcacagcgg ccctgggctg cctgggtcaag gactacttcc ccgaaccggt gacgggtgtcg 120
tggaactcag gcgccctgac cagcggcgtg cacaccttcc cggctgtcct acagtcctca 180
ggactctact ccctcagcag cgtgggtgacc gtgccctcca gcagcttggg caccagacc 240
tacatctgca acgtgaatca caagcccagc aacaccaagg tggacaagaa agttgagccc 300
aaatcttgtg acaaaaactca cacatgcccc ccgtgcccag cacctgaact cctgggggga 360
ccgtcagtct tcctcttccc cccaaaaccc aaggacaccc tcatgatctc ccggaccctt 420
gaggtcacat gcgtgggtgt ggacgtgagc cacgaagacc ctgaggtcaa gttcaactgg 480
tacgtggacg gcgtggaggt gcataatgcc aagacaaagc cgcgaggagga gcagtacgcc 540
agcacgtacc gtgtgggtcag cgtcctcacc gtcctgcacc aggactggct gaatggcaag 600
gagtacaagt gcaaggtctc caacaaagcc ctcccagccc ccatcgagaa aaccatctcc 660
aaagccaaag ggagccccg agaaccacag gtgtacaccc tgcccccatc ccgggaggag 720
atgaccaaga accaggtcag cctgacctgc ctgggtcaaag 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> 217
<212> PRT
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 301

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

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

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

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

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

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

Asn Met Val Asp 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> 302
<211> 111
<212> PRT
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 302

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

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

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

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

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

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

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

<210> 303
<211> 23
<212> PRT
<213> Oryctolagus cuniculus

<400> 303

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

Gly Thr Val Thr Ile Asn Cys
20

<210> 304
<211> 13
<212> PRT
<213> Oryctolagus cuniculus

<400> 304

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

<210> 305
<211> 15
<212> PRT
<213> Oryctolagus cuniculus

<400> 305

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

<210> 306
<211> 7
<212> PRT
<213> Oryctolagus cuniculus

<400> 306

Gln	Ala	Ser	Asn	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	Gln	Phe	Thr
1				5					10					15	

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

<210> 308
<211> 10
<212> PRT
<213> Oryctolagus cuniculus

<400> 308

Ala Gly Gly Tyr Ser Gly Asn Met Val Asp
1 5 10

<210> 309

<211> 11

<212> PRT

<213> Artificial

<220>

<223> Humanized antibody sequence

<400> 309

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

<210> 310

<211> 106

<212> PRT

<213> Artificial

<220>

<223> Humanized antibody sequence

<400> 310

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

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

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

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

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

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

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

<210> 311
<211> 651
<212> DNA
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 311
gcccaagtgc tgaccagac tccatcgtcc gtgtctgcag ctgtgggagg cacagtcacc 60
atcaattgcc agtccagtca gagggtttat aagaataagt acttatcctg gtatcagcag 120
aaagtagggc agcctcccaa gttcctgata taccaggcat ccaatttggc atctgggggtc 180
ccatcgcggg tcaaaggcag tggatctggg acacagttca ctctcaccat cagcgacctg 240
gagtgtagc atgccgccac ttattactgt gcaggcgggt atagtggtaa tatggttgat 300
ttcggcggag ggaccgaggt ggtgggtcaaa cgtacggtag cggcccatc tgtcttcata 360
ttcccgccat ctgatgagca gttgaaatct ggaactgcct ctgttggttg cctgctgaat 420
aacttctatc ccagagaggc caaagtacag tggaagggtg ataacgccct ccaatcgggt 480
aactcccagg agagtgtcac agagcaggac agcaaggaca gcacctacag cctcagcagc 540
accctgacgc tgagcaaagc agactacgag aaacacaaag tctacgcctg cgaagtcacc 600
catcagggcc tgagctcgcc cgtcaciaag agcttcaaca ggggagagtg t 651

<210> 312
<211> 333
<212> DNA
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 312
gcccaagtgc tgaccagac tccatcgtcc gtgtctgcag ctgtgggagg cacagtcacc 60
atcaattgcc agtccagtca gagggtttat aagaataagt acttatcctg gtatcagcag 120
aaagtagggc agcctcccaa gttcctgata taccaggcat ccaatttggc atctgggggtc 180
ccatcgcggg tcaaaggcag tggatctggg acacagttca ctctcaccat cagcgacctg 240

gagtgtgacg atgccgccac ttattactgt gcaggcggtt atagtggtaa tatggttgat	300
ttcggcggag ggaccgaggt ggtggtcaaa cgt	333

<210> 313
 <211> 69
 <212> DNA
 <213> *Oryctolagus cuniculus*

<400> 313	
gccaagtgc tgaccagac tccatcgccc gtgtctgcag ctgtgggagg cacagtcacc	60
atcaattgc	69

<210> 314
 <211> 39
 <212> DNA
 <213> *Oryctolagus cuniculus*

<400> 314	
cagtcagtc agagtgttta taagaataag tacttatcc	39

<210> 315
 <211> 45
 <212> DNA
 <213> *Oryctolagus cuniculus*

<400> 315	
tggtatcagc agaaagtagg gcagcctccc aagttcctga tctac	45

<210> 316
 <211> 21
 <212> DNA
 <213> *Oryctolagus cuniculus*

<400> 316	
caggcatcca atttggcatc t	21

<210> 317
 <211> 96
 <212> DNA
 <213> *Oryctolagus cuniculus*

<400> 317	
ggggtcccat cgcggttcaa aggcagtgga tctgggacac agttcactct caccatcagc	60
gacctggagt gtgacgatgc cgccacttat tactgt	96

<210> 318
<211> 30
<212> DNA
<213> Oryctolagus cuniculus

<400> 318
gcaggcggtt atagtggtaa tatggttgat 30

<210> 319
<211> 33
<212> DNA
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 319
ttcggcggag ggaccgaggt ggtggtcaaa cgt 33

<210> 320
<211> 318
<212> DNA
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 320
acggtagcgg ccccatctgt cttcatcttc ccgcatctg atgagcagtt gaaatctgga 60
actgcctctg ttgtgtgcct gctgaataac ttctatccca gagaggccaa agtacagtgg 120
aaggtggata acgccctcca atcgggtaac tcccaggaga gtgtcacaga gcaggacagc 180
aaggacagca cctacagcct cagcagcacc ctgacgtga gcaaagcaga ctacgagaaa 240
caciaagtct acgcctgcga agtcacccat cagggcctga gctcgcccgt caciaagagc 300
ttcaacaggg gagagtgt 318

<210> 321
<211> 443
<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 Phe Ser Leu Ser Ser Ala Ala	20	25	30
Leu Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Ile Gly	35	40	45
Ile Ile Asp Lys Gly Val Met Ser 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 Val	65	70	75
Thr Ser Pro Thr Thr Glu Asp Thr Ala Thr Tyr Phe Cys Ala Arg Gly	85	90	95
Gly Gly Glu Phe Phe Ile Trp Gly Gln Gly Thr Leu Val Thr Val Ser	100	105	110
Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser	115	120	125
Lys Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp	130	135	140
Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr	145	150	155
Ser Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr	165	170	175
Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln	180	185	190
Thr Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp	195	200	205
Lys Lys Val Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro	210	215	220

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

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

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

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

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

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

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

Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu
340 345 350

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

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

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

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

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

Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys

435

440

<210> 322
 <211> 113
 <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 Phe Ser Leu Ser Ser Ala Ala
 20 25 30

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

Ile Ile Asp Lys Gly Val Met Ser 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 Val
 65 70 75 80

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

Gly Gly Glu Phe Phe Ile Trp Gly Gln Gly Thr Leu Val Thr Val Ser
 100 105 110

Ser

<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 Phe Ser Leu Ser
20 25

<210> 324
<211> 5
<212> PRT
<213> Oryctolagus cuniculus

<400> 324

Ser Ala Ala Leu Ser
1 5

<210> 325
<211> 14
<212> PRT
<213> Oryctolagus cuniculus

<400> 325

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

<210> 326
<211> 16
<212> PRT
<213> Oryctolagus cuniculus

<400> 326

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

<210> 327
<211> 31
<212> PRT
<213> Oryctolagus cuniculus

<400> 327

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

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

<210> 328
<211> 7
<212> PRT
<213> *Oryctolagus cuniculus*

<400> 328

Gly Gly Gly Glu Phe Phe Ile
1 5

<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

Lys 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> 1329
 <212> DNA
 <213> Artificial

<220>
 <223> Humanized antibody sequence

<400> 331
 cagtcggtgg aggagtccgg gggtcgcctg gtcacgcctg ggacaccct gacactcacc 60
 tgcaccgtct ctggattctc cctcagtagc gctgcattga gctgggtccg ccaggctcca 120
 gggaaggggc tggaatggat cggaattatt gataagggtg ttatgtctta ctacgcgtcc 180
 tgggcgaaag gccgattcac catctccaaa acctcgtcga ccacggtgga tctaaaagtg 240
 accagtccga caaccgagga cacggccacc tatttctgtg ccagaggggg gggggaattt 300
 ttcatctggg gccagggcac cctcgtcacc gtctcgagcg cctccaccaa gggcccatcg 360
 gtcttcccc tggcaccctc ctccaagagc acctctgggg gcacagcggc cctgggctgc 420
 ctggtcaagg actacttccc cgaaccggtg acggtgtcgt ggaactcagg cgccctgacc 480
 agcggcgtgc acaccttccc ggctgtccta cagtcctcag gactctactc cctcagcagc 540
 gtggtgaccg tgccctccag cagcttgggc acccagacct acatctgcaa cgtgaatcac 600
 aagcccagca acaccaaggt ggacaagaaa gttgagccca aatcttgtga caaaactcac 660
 acatgcccac cgtgcccagc acctgaactc ctgggggggac cgtcagtctt cctcttcccc 720
 ccaaaacca aggacacct catgatctcc cggaccctg aggtcacatg cgtggtggtg 780
 gacgtgagcc acgaagacc tgaggtcaag ttcaactggt acgtggacgg cgtggagggtg 840
 cataatgcca agacaaagcc gcgggaggag cagtacgcca gcacgtaccg tgtggtcagc 900
 gtcctcaccg tcctgcacca ggactggctg aatggcaagg agtacaagtg caaggtctcc 960
 aacaaagccc tcccagcccc catcgagaaa accatctcca aagccaaagg gcagccccga 1020

gaaccacagg tgtacaccct gccccatcc cgggaggaga tgaccaagaa ccaggtcagc	1080
ctgacctgcc tgggtcaaagg cttctatccc agcgacatcg ccgtggagtg ggagagcaat	1140
gggcagccgg agaacaacta caagaccacg cctcccgtgc tggactccga cggctccttc	1200
ttcctctaca gcaagctcac cgtggacaag agcaggtggc agcaggggaa cgtctttctca	1260
tgctccgtga tgcatgaggc tctgcacaac cactacacgc agaagagcct ctccctgtct	1320
ccgggtaaa	1329

<210> 332
 <211> 339
 <212> DNA
 <213> Artificial

<220>
 <223> Humanized antibody sequence

<400> 332	
cagtcggtgg aggagtccgg gggtcgcctg gtcacgcctg ggacaccct gacactcacc	60
tgcaccgtct ctggattctc cctcagtagc gctgcattga gctgggtccg ccaggctcca	120
gggaaggggc tggaatggat cggaattatt gataagggtg ttatgtctta ctacgcgtcc	180
tgggcgaaag gccgattcac catctcaaaa acctcgtcga ccacggtgga tctaaaagtg	240
accagtccga caaccgagga cacggccacc tatttctgtg ccagaggggg gggggaattt	300
ttcatctggg gccagggcac cctcgtcacc gtctcgagc	339

<210> 333
 <211> 87
 <212> DNA
 <213> *Oryctolagus cuniculus*

<400> 333	
cagtcggtgg aggagtccgg gggtcgcctg gtcacgcctg ggacaccct gacactcacc	60
tgcaccgtct ctggattctc cctcagt	87

<210> 334
 <211> 15
 <212> DNA
 <213> *Oryctolagus cuniculus*

<400> 334	
agcgctgcat tgagc	15

<210> 335
 <211> 42
 <212> DNA
 <213> *Oryctolagus cuniculus*

 <400> 335
 tgggtccgcc aggctccagg gaaggggctg gaatggatcg ga 42

 <210> 336
 <211> 48
 <212> DNA
 <213> *Oryctolagus cuniculus*

 <400> 336
 attattgata aggggtgttat gtcttactac gcgtcctggg cgaaaggc 48

 <210> 337
 <211> 93
 <212> DNA
 <213> *Oryctolagus cuniculus*

 <400> 337
 cgattcacca tctccaaaac ctcgtcgacc acgggtggatc taaaagtgac cagtccgaca 60
 accgaggaca cggccaccta tttctgtgcc aga 93

 <210> 338
 <211> 21
 <212> DNA
 <213> *Oryctolagus cuniculus*

 <400> 338
 gggggggggg aatttttcat c 21

 <210> 339
 <211> 33
 <212> DNA
 <213> Artificial

 <220>
 <223> Humanized antibody sequence

 <400> 339
 tggggccagg gcaccctcgt 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 cctgggtcaag gactacttcc ccgaaccggt gacggtgtcg      120
tggaactcag gcgccctgac cagcggcgctg cacaccttcc cggctgtcct acagtcctca      180
ggactctact ccctcagcag cgtgggtgacc gtgccctcca gcagcttggg caccagacc      240
tacatctgca acgtgaatca caagcccagc aacaccaagg tggacaagaa agttgagccc      300
aaatcttgtg acaaaactca cacatgcca ccgtgcccag cacctgaact cctgggggga      360
ccgtcagtct tcctcttccc ccaaaaaccc aaggacaccc tcatgatctc ccggaccct      420
gaggtcacat gcgtgggtgtt ggacgtgagc cacgaagacc ctgaggtcaa gttcaactgg      480
tacgtggacg gcgtggaggt gcataatgcc aagacaaagc cgcgggagga gcagtacgcc      540
agcacgtacc gtgtgggtcag cgtcctcacc gtcctgcacc aggactggct gaatggcaag      600
gagtacaagt gcaagggtctc caacaaagcc ctcccagccc ccatcgagaa aaccatctcc      660
aaagccaaag ggagccccg agaaccacag gtgtacaccc tgcccccatc ccgggaggag      720
atgaccaaga accaggtcag cctgacctgc ctgggtcaaag 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> 217

<212> PRT

<213> Artificial

<220>

<223> Humanized antibody sequence

<400> 341

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

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

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

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

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

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

Asn Ile Val 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> 342

<211> 111
<212> PRT
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 342

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

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

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

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

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

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

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

<210> 343
<211> 23
<212> PRT
<213> *Oryctolagus cuniculus*

<400> 343

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

Gly Thr Val Thr Ile Asn Cys
20

<210> 344
<211> 13

<212> PRT
<213> Oryctolagus cuniculus

<400> 344

Gln Ser Ser Lys Ser Val Tyr Asn Asn Asn Trp Leu Ser
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 Phe Leu Ile Tyr
1 5 10 15

<210> 346
<211> 7
<212> PRT
<213> Oryctolagus cuniculus

<400> 346

Gln Ala Ser Asn Leu Ala Ser
1 5

<210> 347
<211> 32
<212> PRT
<213> Oryctolagus cuniculus

<400> 347

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 Asp Asp Ala Ala Thr Tyr Tyr Cys
20 25 30

<210> 348
<211> 10
<212> PRT
<213> Oryctolagus cuniculus

<400> 348

Ala Gly Gly Tyr Ser Gly Asn Ile Val Gly

1 5 10

<210> 349
<211> 11
<212> PRT
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 349

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

<210> 350
<211> 106
<212> PRT
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 350

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

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

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

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

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

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

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

<210> 351
<211> 651
<212> DNA
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 351
gcgcaagtgc tgaccagac tccatcgccc gtgtctgcag ctgtgggagg cacagtcacc 60
atcaattgcc agtccagtaa gagtggttat aacaacaatt gggtatcctg gtatcaacag 120
aaaccagggc agcctcccaa gttcctgata taccaggcat ccaatttggc atctggggtc 180
ccgtcgcggg tcaaaggcag tggatctggg acacagttca ctctcaccat cagcgacctc 240
gagtggtgac atgccgccac ttattactgt gcaggcgggt atagtggtaa tattgttggt 300
ttcggcggag ggaccgaggt ggtggtcaaa cgtacggtag cggcccatc tgtcttcata 360
ttcccgccat ctgatgagca gttgaaatct ggaactgcct ctgttgtgtg cctgctgaat 420
aacttctatc ccagagaggc caaagtacag tggaaggtag 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> 352
<211> 333
<212> DNA
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 352
gcgcaagtgc tgaccagac tccatcgccc gtgtctgcag ctgtgggagg cacagtcacc 60
atcaattgcc agtccagtaa gagtggttat aacaacaatt gggtatcctg gtatcaacag 120
aaaccagggc agcctcccaa gttcctgata taccaggcat ccaatttggc atctggggtc 180
ccgtcgcggg tcaaaggcag tggatctggg acacagttca ctctcaccat cagcgacctc 240
gagtggtgac atgccgccac ttattactgt gcaggcgggt atagtggtaa tattgttggt 300
ttcggcggag ggaccgaggt ggtggtcaaa cgt 333

<210> 353
 <211> 69
 <212> DNA
 <213> *Oryctolagus cuniculus*

 <400> 353
 gcgcaagtgc tgaccagac tccatcgtcc gtgtctgcag ctgtgggagg cacagtcacc 60
 atcaattgc 69

 <210> 354
 <211> 39
 <212> DNA
 <213> *Oryctolagus cuniculus*

 <400> 354
 cagtccagta agagtgttta taacaacaat tggttatcc 39

 <210> 355
 <211> 45
 <212> DNA
 <213> *Oryctolagus cuniculus*

 <400> 355
 tggatatcaac agaaaccagg gcagcctccc aagttcctga tctac 45

 <210> 356
 <211> 21
 <212> DNA
 <213> *Oryctolagus cuniculus*

 <400> 356
 caggcatcca atttggcatc t 21

 <210> 357
 <211> 96
 <212> DNA
 <213> *Oryctolagus cuniculus*

 <400> 357
 ggggtcccgt cgcggttcaa aggcagtgga tctgggacac agttcactct caccatcagc 60
 gacctcgagt gtgacgatgc cgccacttat tactgt 96

 <210> 358
 <211> 30
 <212> DNA
 <213> *Oryctolagus cuniculus*

<400> 358
gcaggcggtt atagtggtaa tattgttggt 30

<210> 359
<211> 33
<212> DNA
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 359
ttcggcggag ggaccgaggt ggtggtcaaa cgt 33

<210> 360
<211> 318
<212> DNA
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 360
acggtagcgg ccccatctgt cttcatcttc ccgcatctg atgagcagtt gaaatctgga 60
actgcctctg ttgtgtgcct gctgaataac ttctatccca gagaggccaa agtacagtgg 120
aaggtggata acgccctcca atcgggtaac tcccaggaga gtgtcacaga gcaggacagc 180
aaggacagca cctacagcct cagcagcacc ctgacgctga gcaaagcaga ctacgagaaa 240
cacaaagtct acgcctgcga agtcacccat cagggcctga gctcgcccgt cacaaagagc 300
ttcaacaggg gagagtgt 318

<210> 361
<211> 443
<212> PRT
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 361

Gln Ser Val Glu Ala 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 Ala Thr

20

25

30

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu
340 345 350

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

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

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

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

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

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

<210> 362

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

<220>
<223> Humanized antibody sequence

<400> 362

Gln Ser Val Glu Ala 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 Ala Thr
20 25 30

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

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

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

Ser

<210> 363
<211> 29
<212> PRT
<213> Oryctolagus cuniculus

<400> 363

Gln Ser Val Glu Ala 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> 364
<211> 5
<212> PRT
<213> Oryctolagus cuniculus

<400> 364

Ser Ala Thr Met Asn
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 Gly
1 5 10

<210> 366
<211> 16
<212> PRT
<213> Oryctolagus cuniculus

<400> 366

Leu Ile Gly Gly Asn Asp Glu Arg Tyr Tyr Ala Ser Trp Ala Lys Gly
1 5 10 15

<210> 367
<211> 31
<212> PRT
<213> Oryctolagus cuniculus

<400> 367

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

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

<210> 368
<211> 7
<212> PRT
<213> Oryctolagus cuniculus

<400> 368

Gly Gly Gly Glu Phe Phe Ile
1 5

<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

Lys 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> 1329

<212> DNA

<213> Artificial

<220>

<223> Humanized antibody sequence

<400> 371

```

cagtcggtgg aggcgtccgg gggtcgcctg gtcacgcctg ggacaccctt gacactcacc      60
tgcaccgtct ctggattctc cctcagtagc gctacaatga actgggtccg ccaggctcca      120
gggaaggggc tggaatggat cgggcttatt ggcggtaatg acgaaagata ctacgcgtcc      180
tgggcgaaaag gccgattcac catctccaaa acctcgtcga ccacggtgga tctgaaaatg      240
accagtccga caaccgagga cacggccacc tatttctgtg ccagaggggg gggggaattt      300
ttcatctggg gcccgggcac cctggtcacc gtctcgagcg cctccaccaa gggcccatcg      360
gtcttcccc tggcaccctc ctccaagagc acctctgggg gcacagcggc cctgggctgc      420
ctgggtcaagg actacttccc cgaaccggtg acggtgtcgt ggaactcagg cgccctgacc      480
agcggcgtgc acaccttccc ggctgtccta cagtcctcag gactctactc cctcagcagc      540
gtggtgaccg tgccctccag cagcttgggc acccagacct acatctgcaa cgtgaatcac      600
aagcccagca acaccaaggt ggacaagaaa gttgagccca aatcttgtga caaaactcac      660
acatgcccac cgtgcccagc acctgaactc ctgggggggac cgtcagtctt cctcttcccc      720
ccaaaacca aggacaccct catgatctcc cggacccttg aggtcacatg cgtggtggtg      780
gacgtgagcc acgaagacct tgaggtcaag ttcaactggt acgtggacgg cgtggaggtg      840
cataatgcca agacaaagcc gcgggaggag cagtacgcca gcacgtaccg tgtggtcagc      900
gtcctcaccg tcctgcacca ggactggctg aatggcaagg agtacaagtg caaggtctcc      960
aaciaagccc tcccagcccc catcgagaaa accatctcca aagccaaagg gcagccccga     1020
gaaccacagg tgtacaccct gccccatcc cgggaggaga tgaccaagaa ccaggtcagc     1080
ctgacctgcc tgggtcaaagg cttctatccc agcgacatcg ccgtggagtg ggagagcaat     1140

```

gggcagccgg agaacaacta caagaccacg cctcccgtgc tggactccga cggctccttc	1200
ttcctctaca gcaagctcac cgtggacaag agcaggtggc agcaggggaa cgtcttctca	1260
tgctccgtga tgcatgaggc tctgcacaac cactacacgc agaagagcct ctccctgtct	1320
ccgggtaaa	1329

<210> 372
 <211> 339
 <212> DNA
 <213> Artificial

<220>
 <223> Humanized antibody sequence

<400> 372	
cagtcggtgg aggcgtccgg gggtcgcctg gtcacgcctg ggacaccct gacactcacc	60
tgacaccgtct ctggattctc cctcagtagc gctacaatga actgggtccg ccaggctcca	120
gggaaggggc tggaatggat cgggcttatt ggcggtaatg acgaaagata ctacgcgtcc	180
tgggcgaaag gccgattcac catctccaaa acctcgtcga ccacggtgga tctgaaaatg	240
accagtccga caaccgagga cacggccacc tatttctgtg ccagaggggg gggggaattt	300
ttcatctggg gcccgggcac cctggtcacc gtctcgagc	339

<210> 373
 <211> 87
 <212> DNA
 <213> *Oryctolagus cuniculus*

<400> 373	
cagtcggtgg aggcgtccgg gggtcgcctg gtcacgcctg ggacaccct gacactcacc	60
tgacaccgtct ctggattctc cctcagt	87

<210> 374
 <211> 15
 <212> DNA
 <213> *Oryctolagus cuniculus*

<400> 374	
agcgctacaa tgaac	15

<210> 375
 <211> 42
 <212> DNA

<213> Oryctolagus cuniculus

<400> 375
tgggtccgcc aggctccagg gaaggggctg gaatggatcg gg 42

<210> 376
<211> 48
<212> DNA
<213> Oryctolagus cuniculus

<400> 376
cttattggcg gtaatgacga aagatactac gcgtcctggg cgaaaggc 48

<210> 377
<211> 93
<212> DNA
<213> Oryctolagus cuniculus

<400> 377
cgattcacca tctccaaaac ctcgtcgacc acggtggatc tgaaaatgac cagtccgaca 60
accgaggaca cggccaccta tttctgtgcc aga 93

<210> 378
<211> 21
<212> DNA
<213> Oryctolagus cuniculus

<400> 378
ggggggggggg aatttttcat c 21

<210> 379
<211> 33
<212> DNA
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 379
tggggcccgg gcaccctggg 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 cctgggtcaag gactacttcc ccgaaccggt gacggtgtcg 120
tggaactcag gcgccctgac cagcggcgtg cacaccttcc cggctgtcct acagtcctca 180
ggactctact ccctcagcag cgtgggtgacc gtgccctcca gcagcttggg caccagacc 240
tacatctgca acgtgaatca caagcccagc aacaccaagg tggacaagaa agttgagccc 300
aaatcttgtg acaaaaactca cacatgccc cctgtgccag cacctgaact cctgggggga 360
ccgtcagtct tcctcttccc cccaaaaccc aaggacaccc tcatgatctc ccggaccctt 420
gaggtcacat gcgtgggtgt ggacgtgagc cacgaagacc ctgaggtcaa gttcaactgg 480
tacgtggacg gcgtggaggt gcataatgcc aagacaaagc cgcgggagga gcagtacgcc 540
agcacgtacc gtgtgggtcag cgtcctcacc gtcctgcacc aggactggct gaatggcaag 600
gagtacaagt gcaaggtctc caacaaagcc ctcccagccc ccatcgagaa aaccatctcc 660
aaagccaaag ggcagccccg agaaccacag gtgtacaccc tgcccccatc ccgggaggag 720
atgaccaaga accaggtcag cctgacctgc ctgggtcaaag 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> 217
<212> PRT
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 381

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

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

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

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

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

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

Ser Ile His 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> 382
<211> 111
<212> PRT
<213> Artificial

<220>

<223> Humanized antibody sequence

<400> 382

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

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

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

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

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

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

Ser Ile His Gly Phe Gly Gly Gly Thr Glu Val Val Val Lys Arg
100 105 110

<210> 383

<211> 23

<212> PRT

<213> Oryctolagus cuniculus

<400> 383

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

Gly Thr Val Thr Ile Asn Cys
20

<210> 384

<211> 13

<212> PRT

<213> Oryctolagus cuniculus

<400> 384

Gln Ser Ser Glu Ser Val Tyr Thr Asn Asp Arg Leu Ser
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

Glu Ala Ser Lys Leu Ala Ser
1 5

<210> 387
<211> 32
<212> PRT
<213> Oryctolagus cuniculus

<400> 387

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

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

<210> 388
<211> 10
<212> PRT
<213> Oryctolagus cuniculus

<400> 388

Ala Gly Ala Tyr Ser Thr Ser Ile His Gly
1 5 10

<210> 389

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

<220>
<223> Humanized antibody sequence

<400> 389

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

<210> 390
<211> 106
<212> PRT
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 390

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

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

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

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

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

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

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

<210> 391
<211> 651
<212> DNA

<213> Artificial

<220>

<223> Humanized antibody sequence

<400> 391

gcgcaagtgc tgaccagac tccatcgccc gtgtctgcag ctgtgggagg cacagtcacc	60
atcaattgcc agtccagtga gagtggttat actaacgacc gcttatcctg gtatcagcag	120
aaaccagggc agcctcccaa gctcctgac tacgaagcat ccaagctggc atctggggtc	180
ccaccgcggc tcagcggcag tggatctggg acacagttca ctctcaccat cagcgacctg	240
gagtgtagc atgccgccac ttattactgt gcaggcgctt atagtactag tatccatggt	300
ttcggcggag ggaccgaggt ggtgggtcaaa cgtacggtag cggcccatc tgtcttcac	360
ttcccgccat ctgatgagca gttgaaatct ggaactgcct ctgttggtg cctgctgaat	420
aacttctatc ccagagaggc caaagtacag tggaaggtag 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> 392

<211> 333

<212> DNA

<213> Artificial

<220>

<223> Humanized antibody sequence

<400> 392

gcgcaagtgc tgaccagac tccatcgccc gtgtctgcag ctgtgggagg cacagtcacc	60
atcaattgcc agtccagtga gagtggttat actaacgacc gcttatcctg gtatcagcag	120
aaaccagggc agcctcccaa gctcctgac tacgaagcat ccaagctggc atctggggtc	180
ccaccgcggc tcagcggcag tggatctggg acacagttca ctctcaccat cagcgacctg	240
gagtgtagc atgccgccac ttattactgt gcaggcgctt atagtactag tatccatggt	300
ttcggcggag ggaccgaggt ggtgggtcaaa cgt	333

<210> 393

<211> 69

<212> DNA

<213> Oryctolagus cuniculus

 <400> 393
 gcgcaagtgc tgaccagac tccatcgtcc gtgtctgcag ctgtgggagg cacagtcacc 60
 atcaattgc 69

 <210> 394
 <211> 39
 <212> DNA
 <213> Oryctolagus cuniculus

 <400> 394
 cagtcagtg agagtgttta tactaacgac cgcttatcc 39

 <210> 395
 <211> 45
 <212> DNA
 <213> Oryctolagus cuniculus

 <400> 395
 tggatcagc agaaaccagg gcagcctccc aagctcctga tctac 45

 <210> 396
 <211> 21
 <212> DNA
 <213> Oryctolagus cuniculus

 <400> 396
 gaagcatcca agctggcatc t 21

 <210> 397
 <211> 96
 <212> DNA
 <213> Oryctolagus cuniculus

 <400> 397
 ggggtccac cgcggttcag cggcagtgga tctgggacac agttcactct caccatcagc 60
 gacctggagt gtgacgatgc cgccacttat tactgt 96

 <210> 398
 <211> 30
 <212> DNA
 <213> Oryctolagus cuniculus

 <400> 398
 gcaggcgctt atagtactag tatccatggt 30

<210> 399
<211> 33
<212> DNA
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 399
ttcggcggag ggaccgaggt ggtggtcaaa cgt 33

<210> 400
<211> 318
<212> DNA
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 400
acggtagcgg ccccatctgt cttcatcttc ccgccatctg atgagcagtt gaaatctgga 60
actgcctctg ttgtgtgcct gctgaataac ttctatccca gagaggccaa agtacagtgg 120
aaggtggata acgccctcca atcgggtaac tcccaggaga gtgtcacaga gcaggacagc 180
aaggacagca cctacagcct cagcagcacc ctgacgctga gcaaagcaga ctacgagaaa 240
cacaaagtct acgcctgcga agtcacccat cagggcctga gctcgcccgt cacaaagagc 300
ttcaacaggg gagagtgt 318

<210> 401

<400> 401
000

<210> 402

<400> 402
000

<210> 403

<400> 403
000

<210> 404

<400> 404
000

<210> 405

<400> 405
000

<210> 406

<400> 406
000

<210> 407

<400> 407
000

<210> 408

<400> 408
000

<210> 409

<400> 409
000

<210> 410

<400> 410
000

<210> 411

<400> 411
000

<210> 412

<400> 412
000

<210> 413

<400> 413
000

<210> 414

<400> 414
000

<210> 415

<400> 415
000

<210> 416

<400> 416
000

<210> 417

<400> 417
000

<210> 418

<400> 418
000

<210> 419

<400> 419
000

<210> 420

<400> 420
000

<210> 421

<400> 421
000

<210> 422

<400> 422
000

<210> 423

<400> 423
000

<210> 424

<400> 424
000

<210> 425

<400> 425
000

<210> 426

<400> 426

000

<210> 427

<400> 427
000

<210> 428

<400> 428
000

<210> 429

<400> 429
000

<210> 430

<400> 430
000

<210> 431

<400> 431
000

<210> 432

<400> 432
000

<210> 433

<400> 433
000

<210> 434

<400> 434
000

<210> 435

<400> 435
000

<210> 436

<400> 436
000

<210> 437

<400> 437
000

<210> 438

<400> 438
000

<210> 439

<400> 439
000

<210> 440

<400> 440
000

<210> 441

<400> 441
000

<210> 442

<400> 442
000

<210> 443

<400> 443
000

<210> 444

<400> 444
000

<210> 445

<400> 445
000

<210> 446

<400> 446
000

<210> 447

<400> 447
000

<210> 448

<400> 448
000

<210> 449

<400> 449
000

<210> 450

<400> 450
000

<210> 451

<400> 451
000

<210> 452

<400> 452
000

<210> 453

<400> 453
000

<210> 454

<400> 454
000

<210> 455

<400> 455
000

<210> 456

<400> 456
000

<210> 457

<400> 457
000

<210> 458

<400> 458
000

<210> 459

<400> 459
000

<210> 460

<400> 460
000

<210> 461

<400> 461
000

<210> 462

<400> 462
000

<210> 463

<400> 463
000

<210> 464

<400> 464
000

<210> 465

<400> 465
000

<210> 466

<400> 466
000

<210> 467

<400> 467
000

<210> 468

<400> 468
000

<210> 469

<400> 469
000

<210> 470

<400> 470
000

<210> 471

<400> 471
000

<210> 472

<400> 472
000

<210> 473

<400> 473
000

<210> 474

<400> 474
000

<210> 475

<400> 475
000

<210> 476

<400> 476
000

<210> 477

<400> 477
000

<210> 478

<400> 478
000

<210> 479

<400> 479
000

<210> 480

<400> 480

000

<210> 481
<211> 445
<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 Phe Ser Leu Ser Ser Tyr Ala
20 25 30

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

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

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

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

Gly Ser Thr Thr Gln Asn Asp Leu Trp Gly Gln 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 Ala 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> 482
<211> 115
<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 Phe Ser Leu Ser Ser Tyr Ala
20 25 30

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

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

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

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

Gly Ser Thr Thr Gln Asn Asp Leu Trp Gly Gln Gly Thr Leu Val Thr
100 105 110

Val Ser Ser
115

<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 Phe Ser Leu Ser
20 25

<210> 484
<211> 5
<212> PRT
<213> *Oryctolagus cuniculus*

<400> 484

Ser Tyr Ala Met Ile
1 5

<210> 485
<211> 14
<212> PRT
<213> *Oryctolagus cuniculus*

<400> 485

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

<210> 486
<211> 16
<212> PRT
<213> *Oryctolagus cuniculus*

<400> 486

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

<210> 487
<211> 30

<212> PRT
<213> Oryctolagus cuniculus

<400> 487

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

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

<210> 488
<211> 10
<212> PRT
<213> Oryctolagus cuniculus

<400> 488

Glu Pro Gly Ser Thr Thr Gln Asn Asp Leu
1 5 10

<210> 489
<211> 11
<212> PRT
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 489

Trp Gly Gln 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 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> 491
<211> 1335
<212> DNA
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 491
cagtcggtgg aggagtccgg gggtcgcctg gtcacgcctg ggacaccct gacactcacc 60
tgcacagtct ctggattctc cctcagtagc tatgcatga tctgggtccg ccaggctcca 120
gggaaggggc tggaatggat cggaatcatt tatgataatg gtgacacata ctacgcgagc 180
tgggcgaaag gccggttcac catctcaaa acctcgacca cggtgtatct gaagatcgcc 240
agtccgacaa ccgaggacac ggccacctac ttctgtgcca gagagcctgg tagtactact 300
cagaatgact tgtggggcca agggaccctg gtcaccgtct cgagcgcctc caccaagggc 360
ccatcggtct tccccctggc accctcctcc aagagcacct ctgggggcac agcggccctg 420
ggctgcctgg tcaaggacta cttccccgaa ccggtgacgg tgtcgtggaa ctcaggcgcc 480
ctgaccagcg gcgtgcacac cttcccggtc gtcctacagt cctcaggact ctactccctc 540
agcagcgtgg tgaccgtgcc ctccagcagc ttgggcaccc agacctacat ctgcaacgtg 600
aatcacaagc ccagcaacac caaggtggac gcgagagttg agcccaaadc ttgtgacaaa 660

actcacacat gcccaccgtg cccagcacct gaactcctgg ggggaccgtc agtcttcctc	720
ttccccccaa aaccaagga caccctcatg atctcccga cccctgaggt cacatgcgtg	780
gtggtggacg tgagccacga agaccctgag gtcaagttca actggtacgt ggacggcgtg	840
gaggtgcata atgccaagac aaagccgcgg gaggagcagt acgccagcac gtaccgtgtg	900
gtcagcgtcc tcaccgtcct gcaccaggac tggctgaatg gcaaggagta caagtgaag	960
gtctccaaca aagccctccc agccccatc 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 gtcaccgtg gacaagagca ggtggcagca ggggaacgtc	1260
ttctcatgct ccgtgatgca tgaggctctg cacaaccact acacgcagaa gagcctctcc	1320
ctgtctccgg gtaaa	1335

<210> 492
 <211> 345
 <212> DNA
 <213> Artificial

<220>
 <223> Humanized antibody sequence

<400> 492	
cagtcggtgg aggagtccgg gggtcgcctg gtcacgcctg ggacaccct gacactcacc	60
tgcacagtct ctggattctc cctcagtagc tatgcatga tctgggtccg ccaggctcca	120
gggaaggggc tggaatggat cggaatcatt tatgataatg gtgacacata ctacgcgagc	180
tgggcgaaag gccggttcac catctccaaa acctcgacca cggtgtatct gaagatcgcc	240
agtccgacaa ccgaggacac ggccacctac ttctgtgcca gagagcctgg tagtactact	300
cagaatgact tgtggggcca agggaccctg gtcaccgtct cgagc	345

<210> 493
 <211> 87
 <212> DNA
 <213> *Oryctolagus cuniculus*

<400> 493

cagtcggtgg aggagtccgg gggtcgcctg gtcacgcctg ggacaccct gacactcacc	60
tgcacagtct ctggattctc cctcagt	87

<210> 494
 <211> 15
 <212> DNA
 <213> *Oryctolagus cuniculus*

<400> 494	
agctatgcga tgatc	15

<210> 495
 <211> 42
 <212> DNA
 <213> *Oryctolagus cuniculus*

<400> 495	
tgggtccgcc aggctccagg gaaggggctg gaatggatcg ga	42

<210> 496
 <211> 48
 <212> DNA
 <213> *Oryctolagus cuniculus*

<400> 496	
atcatttatg ataatggtga cacatactac gcgagctggg cgaaaggc	48

<210> 497
 <211> 90
 <212> DNA
 <213> *Oryctolagus cuniculus*

<400> 497	
cggttcacca tctccaaaac ctcgaccacg gtgtatctga agatcgccag tccgacaacc	60

gaggacacgg ccacctactt ctgtgccaga	90
----------------------------------	----

<210> 498
 <211> 30
 <212> DNA
 <213> *Oryctolagus cuniculus*

<400> 498	
gagcctggta gtactactca gaatgacttg	30

<210> 499
 <211> 33

<212> DNA
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 499
tggggccaag ggaccctggc 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 cctgggtcaag gactacttcc ccgaaccggt gacgggtgtcg 120
tggaactcag gcgccctgac cagcggcgtg cacaccttcc cggctgtcct acagtcctca 180
ggactctact ccctcagcag cgtgggtgacc gtgccctcca gcagcttggg caccagacc 240
tacatctgca acgtgaatca caagcccagc aacaccaagg tggacgcgag agttgagccc 300
aaatcttgtg acaaaaactca cacatgcca ccgtgcccag cacctgaact cctgggggga 360
ccgtcagtct tcctcttccc cccaaaaccc aaggacaccc tcatgatctc ccggaccctt 420
gaggtcacat gcgtgggtggg ggacgtgagc cacgaagacc ctgaggtcaa gttcaactgg 480
tacgtggacg gcgtggaggt gcataatgcc aagacaaagc cgcgggagga gcagtacgcc 540
agcacgtacc gtgtgggtcag cgtcctcacc gtcctgcacc aggactggct gaatggcaag 600
gagtacaagt gcaaggtctc caacaaagcc ctcccagccc ccatcgagaa aaccatctcc 660
aaagccaaag ggcagccccg agaaccacag gtgtacaccc tgcccccatc ccgggaggag 720
atgaccaaga accaggtcag cctgacctgc ctgggtcaaag 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> 217
<212> PRT
<213> Artificial

<220>

<223> Humanized antibody sequence

<400> 501

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 Asn Ile Tyr Asn Ser
20 25 30

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

Tyr Arg Ala Ser Thr Leu Ala 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 Asn Tyr Tyr Asn Ile Trp Thr
85 90 95

Asn Gly Ala 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> 502
<211> 111
<212> PRT
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 502

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 Asn Ile Tyr Asn Ser
20 25 30

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

Tyr Arg Ala Ser Thr Leu Ala 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 Asn Tyr Tyr Asn Ile Trp Thr
85 90 95

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

<210> 503
<211> 23
<212> PRT
<213> *Oryctolagus cuniculus*

<400> 503

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> 504

<211> 11

<212> PRT

<213> Oryctolagus cuniculus

<400> 504

Gln Ala Ser Glu Asn Ile Tyr Asn Ser Leu Leu
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

Arg Ala Ser Thr Leu Ala Ser
1 5

<210> 507

<211> 32

<212> PRT

<213> Oryctolagus cuniculus

<400> 507

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> 508
<211> 12
<212> PRT
<213> *Oryctolagus cuniculus*

<400> 508

Gln Asn Tyr Tyr Asn Ile Trp Thr Asn Gly Ala Ala
1 5 10

<210> 509
<211> 11
<212> PRT
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 509

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

<210> 510
<211> 106
<212> PRT
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 510

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

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

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

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

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

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

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

<210> 511
<211> 651
<212> DNA
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 511
gatgttgatga tgaccagac tccagcctcc gtgtctgaac ctgtgggagg cacagtcacc 60
atcaagtgcc aggccagtga gaacatttac aactctttac tctggtatca gcagaaacca 120
gggcagcctc ccaagctcct gatctatagg gcatccactc tggcatctgg ggtctcatcg 180
cggttcaaag gcagtggatc tgggacagag ttcactctca ccatcagcga cctggagtgt 240
gccgatgctg ccacttacta ctgtcaaaac tattataata tatggactaa tgggtgctgct 300
ttcggcggag ggaccgaggt ggtgggtcaaa cgtacggtag cggcccatc tgtcttcatc 360
ttcccgccat ctgatgagca gttgaaatct ggaactgcct ctgttggtgtg 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> 512
<211> 333
<212> DNA
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 512
gatgttgtga tgaccagac tccagcctcc gtgtctgaac ctgtgggagg cacagtcacc 60
atcaagtgcc aggccagtga gaacatttac aactctttac tctggtatca gcagaaacca 120
gggcagcctc ccaagctcct gatctatagg gcatccactc tggcatctgg ggtctcatcg 180
cggttcaaag gcagtggatc tgggacagag ttcactctca ccatcagcga cctggagtgt 240
gccgatgctg ccacttacta ctgtcaaaac tattataata tatggactaa tggtgctgct 300
ttcggcggag ggaccgaggt ggtggtcaaa cgt 333

<210> 513
<211> 69
<212> DNA
<213> *Oryctolagus cuniculus*

<400> 513
gatgttgtga tgaccagac tccagcctcc gtgtctgaac ctgtgggagg cacagtcacc 60
atcaagtgc 69

<210> 514
<211> 33
<212> DNA
<213> *Oryctolagus cuniculus*

<400> 514
caggccagtg agaacattta caactcttta ctc 33

<210> 515
<211> 45
<212> DNA
<213> *Oryctolagus cuniculus*

<400> 515
tggtatcagc agaaaccagg gcagcctccc aagtcctga tctat 45

<210> 516
<211> 21
<212> DNA
<213> *Oryctolagus cuniculus*

<400> 516
agggcatcca ctctggcatc t 21

<210> 517
<211> 96

<212> DNA
 <213> *Oryctolagus cuniculus*

<400> 517
 ggggtctcat cgcggttcaa aggcagtgga tctgggacag agttcactct caccatcagc 60
 gacctggagt gtgccgatgc tgccacttac tactgt 96

<210> 518
 <211> 36
 <212> DNA
 <213> *Oryctolagus cuniculus*

<400> 518
 caaaactatt ataatatatg gactaatggt gctgct 36

<210> 519
 <211> 33
 <212> DNA
 <213> Artificial

<220>
 <223> Humanized antibody sequence

<400> 519
 ttcggcggag ggaccgaggt ggtggtcaaa cgt 33

<210> 520
 <211> 318
 <212> DNA
 <213> Artificial

<220>
 <223> Humanized antibody sequence

<400> 520
 acggtagcgg ccccatctgt cttcatcttc ccgccatctg atgagcagtt gaaatctgga 60
 actgcctctg ttgtgtgcct gctgaataac ttctatccca gagaggccaa agtacagtgg 120
 aaggtggata acgccctcca atcgggtaac tcccaggaga gtgtcacaga gcaggacagc 180
 aaggacagca cctacagcct cagcagcacc ctgacgctga gcaaagcaga ctacgagaaa 240
 cacaaagtct acgcctgcga agtcacccat cagggcctga gctcgcccgt cacaaagagc 300
 ttcaacaggg gagagtgt 318

<210> 521
 <211> 441

<212> PRT
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 521

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

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

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

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

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

Trp Leu Ser Leu Trp Gly Pro Gly Thr Leu Val Thr Val Ser Ser Ala
100 105 110

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

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

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

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

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

Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Ala Arg
195 200 205

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

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

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

Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr
260 265 270

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

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

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

Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln
325 330 335

Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu Met
340 345 350

Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro
355 360 365

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

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

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

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

Lys Ser Leu Ser Leu Ser Pro Gly Lys
435 440

<210> 522
<211> 111
<212> PRT
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 522

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

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

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

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

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

Trp Leu Ser Leu Trp Gly Pro Gly Thr Leu Val Thr Val Ser Ser
100 105 110

<210> 523
<211> 29
<212> PRT
<213> *Oryctolagus cuniculus*

<400> 523

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 Ala Ser Gly Ile Asp Leu Ser
20 25

<210> 524

<211> 5

<212> PRT

<213> Oryctolagus cuniculus

<400> 524

Gly Tyr Ala Met Gly
1 5

<210> 525

<211> 14

<212> PRT

<213> Oryctolagus cuniculus

<400> 525

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

<210> 526

<211> 16

<212> PRT

<213> Oryctolagus cuniculus

<400> 526

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

<210> 527

<211> 30

<212> PRT

<213> Oryctolagus cuniculus

<400> 527

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

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

<210> 528
<211> 6
<212> PRT
<213> *Oryctolagus cuniculus*

<400> 528

Asp Tyr Trp Leu Ser Leu
1 5

<210> 529
<211> 11
<212> PRT
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 529

Trp Gly Pro 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 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> 531
 <211> 1323
 <212> DNA
 <213> Artificial

<220>
 <223> Humanized antibody sequence

<400> 531
 cagtcggtgg aggagtccgg gggtcgcctg gtaacgcctg ggacaccct gacactcacc 60
 tgcacagcct ctggaatcga cctcagtggc tatgcaatgg gctgggtccg ccaggctcca 120
 gggaaggggc tggaatggat cggagacatt agtacctatg gtaccacaga ctacgcgagc 180
 tgggtgaatg gccgattcac catctccaga acctcgacca cgggtgactct gaaaatgacc 240
 agtctgacaa ccgaggacac ggccacctat ttctgtgcca gagactattg gttgagcttg 300
 tggggcccgg gcaccctcgt caccgtctcg agcgcctcca ccaagggcc atcggctcttc 360
 cccctggcac cctcctccaa gagcacctct gggggcacag cggccctggg ctgcctggtc 420
 aaggactact tccccgaacc ggtgacggtg tcgtggaact caggcgcct gaccagcggc 480
 gtgcacacct tcccggctgt cctacagtcc tcaggactct actccctcag cagcgtggtg 540
 accgtgccct ccagcagctt gggcacccag acctacatct gcaacgtgaa tcacaagccc 600
 agcaacacca aggtggacgc gagagttgag cccaaatctt gtgacaaaac tcacacatgc 660
 ccaccgtgcc cagcacctga actcctgggg ggaccgtcag tcttcctctt cccccaaaa 720
 cccaaggaca ccctcatgat ctcccggacc cctgaggtca catgcgtggt ggtggacgtg 780
 agccacgaag accctgaggt caagttcaac tggtacgtgg acggcgtgga ggtgcataat 840
 gccaagacaa agccgcggga ggagcagtac gccagcacgt accgtgtggt cagcgtcctc 900

accgtcctgc accaggactg gctgaatggc aaggagtaca agtgcaaggt ctccaacaaa	960
gccctcccag ccccatcga gaaaaccatc tccaaagcca aagggcagcc ccgagaacca	1020
caggtgtaca ccctgcccc atcccgggag gagatgacca agaaccaggt cagcctgacc	1080
tgcctgggtca aaggcttcta tcccagcgac atcgccgtgg agtgggagag caatgggcag	1140
ccggagaaca actacaagac cacgcctccc gtgctggact ccgacggctc cttcttcctc	1200
tacagcaagc tcaccgtgga caagagcagg tggcagcagg ggaacgtctt ctcagtctcc	1260
gtgatgcatg aggctctgca caaccactac acgcagaaga gcctctccct gtctccgggt	1320
aaa	1323

<210> 532
 <211> 333
 <212> DNA
 <213> Artificial

<220>
 <223> Humanized antibody sequence

<400> 532	
cagtcggtgg aggagtccgg gggtcgcctg gtaacgcctg ggacaccct gacactcacc	60
tgcacagcct ctggaatcga cctcagtggc tatgcaatgg gctgggtccg ccaggctcca	120
gggaaggggc tggaatggat cggagacatt agtacctatg gtaccacaga ctacgcgagc	180
tgggtgaatg gccgattcac catctccaga acctcgacca cggtgactct gaaaatgacc	240
agtctgacaa ccgaggacac ggccacctat ttctgtgcca gagactattg gttgagcttg	300
tggggcccgg gcaccctcgt caccgtctcg agc	333

<210> 533
 <211> 87
 <212> DNA
 <213> *Oryctolagus cuniculus*

<400> 533	
cagtcggtgg aggagtccgg gggtcgcctg gtaacgcctg ggacaccct gacactcacc	60
tgcacagcct ctggaatcga cctcagt	87

<210> 534
 <211> 15
 <212> DNA

<213> Oryctolagus cuniculus	
<400> 534	
ggctatgcaa tgggc	15
<210> 535	
<211> 42	
<212> DNA	
<213> Oryctolagus cuniculus	
<400> 535	
tgggtccgcc aggctccagg gaaggggctg gaatggatcg ga	42
<210> 536	
<211> 48	
<212> DNA	
<213> Oryctolagus cuniculus	
<400> 536	
gacattagta cctatggtac cacagactac gcgagctggg tgaatggc	48
<210> 537	
<211> 90	
<212> DNA	
<213> Oryctolagus cuniculus	
<400> 537	
cgattcacca tctccagaac ctcgaccacg gtgactctga aaatgaccag tctgacaacc	60
gaggacacgg ccacctatatt ctgtgccaga	90
<210> 538	
<211> 18	
<212> DNA	
<213> Oryctolagus cuniculus	
<400> 538	
gactattggt tgagcttg	18
<210> 539	
<211> 33	
<212> DNA	
<213> Artificial	
<220>	
<223> Humanized antibody sequence	
<400> 539	
tggggcccgg gcaccctcgt caccgtctcg agc	33

<210> 540
<211> 990
<212> DNA
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 540
gcctccacca agggcccatc ggtcttcccc ctggcacctt cctccaagag cacctctggg 60
ggcacagcgg ccctgggctg cctgggtcaag gactacttcc ccgaaccggt gacgggtgtcg 120
tggaactcag gcgccctgac cagcggcgtg cacaccttcc cggctgtcct acagtcctca 180
ggactctact ccctcagcag cgtgggtgacc gtgccctcca gcagcttggg caccagacc 240
tacatctgca acgtgaatca caagcccagc aacaccaagg tggacgcgag agttgagccc 300
aaatcttgtg acaaaaactca cacatgcccc ccgtgcccag cacctgaact cctgggggga 360
ccgtcagtct tcctcttccc cccaaaaccc aaggacaccc tcatgatctc ccggaccctt 420
gaggtcacat gcgtgggtgtt ggacgtgagc cacgaagacc ctgaggtcaa gttcaactgg 480
tacgtggacg gcgtggaggt gcataatgcc aagacaaagc cgcgaggagga gcagtacgcc 540
agcacgtacc gtgtgggtcag cgtcctcacc gtcctgcacc aggactggct gaatggcaag 600
gagtacaagt gcaaggtctc caacaaagcc ctcccagccc ccatcgagaa aaccatctcc 660
aaagccaaag ggcagccccg agaaccacag gtgtacaccc tgcccccatc ccgggaggag 720
atgaccaaga accaggtcag cctgacctgc ctgggtcaaag 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> 218
<212> PRT
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 541

Ala Ala Val 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 Ser Ser Gln Ser Val Tyr Asp Asn
20 25 30

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

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

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

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

Pro Ala Asp Asn Ala 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

<210> 542
<211> 112
<212> PRT
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 542

Ala Ala Val 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 Ser Ser Gln Ser Val Tyr Asp Asn
20 25 30

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

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

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

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

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

<210> 543
<211> 23
<212> PRT
<213> *Oryctolagus cuniculus*

<400> 543

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

Gly Thr Val Thr Ile Lys Cys

<210> 544
 <211> 13
 <212> PRT
 <213> *Oryctolagus cuniculus*

<400> 544

Gln Ser Ser Gln Ser Val Tyr Asp Asn Asn Ala 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

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

<210> 548
 <211> 11
 <212> PRT

<213> Oryctolagus cuniculus

<400> 548

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

<210> 549

<211> 11

<212> PRT

<213> Artificial

<220>

<223> Humanized antibody sequence

<400> 549

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

<210> 550

<211> 106

<212> PRT

<213> Artificial

<220>

<223> Humanized antibody sequence

<400> 550

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

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

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

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

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

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

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

<210> 551
<211> 654
<212> DNA
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 551
gcagccgtgc tgaccagac accatcgccc gtgtctgcag ctgtgggagg cacagtcacc 60
atcaagtgcc agtccagtca gagtgtttat gataacaatg ctttagcctg gtatcagcag 120
aaaccagggc agcctcccaa gtcctgatc tatgctgcat ccactctggc atctggggtc 180
ccatcgcggt tcaaaggcag tggatctggg acacagttca ctctcaccat caacggcgtg 240
cagtgtgacg atgctgccac ttactactgt ctaggcgggt atgatgatcc tgctgataat 300
gctttcggcg gagggaccga ggtgggtggc aaacgtacgg tagcggcccc atctgtcttc 360
atcttccgc 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> 552
<211> 336
<212> DNA
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 552
gcagccgtgc tgaccagac accatcgccc gtgtctgcag ctgtgggagg cacagtcacc 60
atcaagtgcc agtccagtca gagtgtttat gataacaatg ctttagcctg gtatcagcag 120
aaaccagggc agcctcccaa gtcctgatc tatgctgcat ccactctggc atctggggtc 180
ccatcgcggt tcaaaggcag tggatctggg acacagttca ctctcaccat caacggcgtg 240

cagtgtgacg atgctgccac ttactactgt ctaggcggtt atgatgatcc tgctgataat	300
gctttcggcg gagggaccga ggtggtggtc aaacgt	336

<210> 553
 <211> 69
 <212> DNA
 <213> *Oryctolagus cuniculus*

<400> 553	
gcagccgtgc tgaccagac accatcgccc gtgtctgcag ctgtgggagg cacagtcacc	60
atcaagtgc	69

<210> 554
 <211> 39
 <212> DNA
 <213> *Oryctolagus cuniculus*

<400> 554	
cagtccagtc agagtgttta tgataacaat gctttagcc	39

<210> 555
 <211> 45
 <212> DNA
 <213> *Oryctolagus cuniculus*

<400> 555	
tggtatcagc agaaaccagg gcagcctccc aagctcctga tctat	45

<210> 556
 <211> 21
 <212> DNA
 <213> *Oryctolagus cuniculus*

<400> 556	
gctgcatcca ctctggcatc t	21

<210> 557
 <211> 96
 <212> DNA
 <213> *Oryctolagus cuniculus*

<400> 557	
ggggtcccat cgcggttcaa aggcagtgga tctgggacac agttcactct caccatcaac	60
ggcgtgcagt gtgacgatgc tgccacttac tactgt	96

<210> 558
<211> 33
<212> DNA
<213> Oryctolagus cuniculus

<400> 558
ctaggcgggtt atgatgatcc tgctgataat gct 33

<210> 559
<211> 33
<212> DNA
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 559
ttcggcggag ggaccgaggt ggtggtcaaa cgt 33

<210> 560
<211> 318
<212> DNA
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 560
acggtagcgg ccccatctgt cttcatcttc ccgcatctg atgagcagtt gaaatctgga 60
actgcctctg ttgtgtgcct gctgaataac ttctatccca gagaggccaa agtacagtgg 120
aaggtggata acgccctcca atcgggtaac tcccaggaga gtgtcacaga gcaggacagc 180
aaggacagca cctacagcct cagcagcacc ctgacgctga gcaaagcaga ctacgagaaa 240
cacaaagtct acgcctgcga agtcacccat cagggcctga gctcgcccgt cacaaagagc 300
ttcaacaggg gagagtgt 318

<210> 561
<211> 441
<212> PRT
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 561

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 Ala Ser Gly Phe Ser Leu Ser Arg Tyr Ala
20 25 30

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

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

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

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

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

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

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

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

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

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

Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Ala Arg
195 200 205

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

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

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

Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr
260 265 270

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

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

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

Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln
325 330 335

Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu Met
340 345 350

Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro
355 360 365

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

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

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

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

Lys Ser Leu Ser Leu Ser Pro Gly Lys
435 440

<210> 562
<211> 111
<212> PRT
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 562

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 Ala Ser Gly Phe Ser Leu Ser Arg Tyr Ala
20 25 30

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

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

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

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

Trp Leu Ser Leu Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
100 105 110

<210> 563
<211> 29
<212> PRT
<213> *Oryctolagus cuniculus*

<400> 563

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 Ala Ser Gly Phe Ser Leu Ser

<210> 564
 <211> 5
 <212> PRT
 <213> Oryctolagus cuniculus

<400> 564

Arg Tyr Ala Met Gly
 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 Gly
 1 5 10

<210> 566
 <211> 16
 <212> PRT
 <213> Oryctolagus cuniculus

<400> 566

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

<210> 567
 <211> 30
 <212> PRT
 <213> Oryctolagus cuniculus

<400> 567

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

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

<210> 568
 <211> 6
 <212> PRT

<213> Oryctolagus cuniculus

<400> 568

Asp Tyr Trp Leu Ser Leu
1 5

<210> 569

<211> 11

<212> PRT

<213> Artificial

<220>

<223> Humanized antibody sequence

<400> 569

Trp Gly Gln 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 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> 571
 <211> 1323
 <212> DNA
 <213> Artificial

<220>
 <223> Humanized antibody sequence

<400> 571

cagtcggtgg aggagtctgg gggtcgcctg gtcacgcctg ggacaccct gacactcacc	60
tgcacagcct ctggattctc cctcagtaga tatgcaatgg gctgggtccg ccaggctcca	120
gggaaggggc tggaatggat cggagacatt agtacttatg gtaccacaga ctacgcgagc	180
tgggtgaatg gccgattcac catctccaga acctcgacca cgggtgactct gaaaatgacc	240
agtctgacaa ccgaggacac ggccacctat ttctgtgcca gagactattg gttgagcttg	300
tggggccaag gcaccctcgt caccgtctcg agcgcctcca ccaagggccc atcggctcttc	360
cccctggcac cctcctccaa gagcacctct gggggcacag cggccctggg ctgcctggtc	420
aaggactact tccccgaacc ggtgacggtg tcgtggaact caggcgccct gaccagcggc	480
gtgcacacct tcccggctgt cctacagtcc tcaggactct actccctcag cagcgtggtg	540
accgtgccct ccagcagctt gggcacccag acctacatct gcaacgtgaa tcacaagccc	600
agcaacacca aggtggacgc gagagttgag cccaaatctt gtgacaaaac tcacacatgc	660
ccaccgtgcc cagcacctga actcctgggg ggaccgtcag tcttcctctt cccccaaaa	720
cccaaggaca ccctcatgat ctcccggacc cctgaggtca catgcgtggt ggtggacgtg	780
agccacgaag acctgaggt caagttcaac tggtacgtgg acggcgtgga ggtgcataat	840
gccaagacaa agccgcggga ggagcagtac gccagcacgt accgtgtggt cagcgtcctc	900
accgtcctgc accaggactg gctgaatggc aaggagtaca agtgcaaggt ctccaacaaa	960
gccctcccag ccccatcga gaaaaccatc tccaaagcca aagggcagcc ccgagaacca	1020
caggtgtaca ccctgcccc atcccgggag gagatgacca agaaccaggt cagcctgacc	1080
tgcttggtca aaggcttcta tcccagcgac atcgccgtgg agtgggagag caatgggcag	1140

ccggagaaca actacaagac cacgcctccc gtgctggact ccgacggctc cttcttcctc	1200
tacagcaagc tcaccgtgga caagagcagg tggcagcagg ggaacgtctt ctcatgctcc	1260
gtgatgcatg aggctctgca caaccactac acgcagaaga gcctctccct gtctccgggt	1320
aaa	1323

<210> 572
 <211> 333
 <212> DNA
 <213> Artificial

<220>
 <223> Humanized antibody sequence

<400> 572	
cagtcggtgg aggagtctgg gggtcgcctg gtcacgcctg ggacaccct gacactcacc	60
tgcacagcct ctggattctc cctcagtaga tatgcaatgg gctgggtccg ccaggctcca	120
gggaaggggc tggaatggat cggagacatt agtacttatg gtaccacaga ctacgcgagc	180
tgggtgaatg gccgattcac catctccaga acctcgacca cgggtgactct gaaaatgacc	240
agtctgacaa ccgaggacac ggccacctat ttctgtgcca gagactattg gttgagcttg	300
tggggccaag gcaccctcgt caccgtctcg agc	333

<210> 573
 <211> 87
 <212> DNA
 <213> *Oryctolagus cuniculus*

<400> 573	
cagtcggtgg aggagtctgg gggtcgcctg gtcacgcctg ggacaccct gacactcacc	60
tgcacagcct ctggattctc cctcagt	87

<210> 574
 <211> 15
 <212> DNA
 <213> *Oryctolagus cuniculus*

<400> 574	
agatatgcaa tgggc	15

<210> 575
 <211> 42

<212> DNA
 <213> *Oryctolagus cuniculus*

 <400> 575
 tgggtccgcc aggctccagg gaaggggctg gaatggatcg ga 42

 <210> 576
 <211> 48
 <212> DNA
 <213> *Oryctolagus cuniculus*

 <400> 576
 gacattagta cttatggtac cacagactac gcgagctggg tgaatggc 48

 <210> 577
 <211> 90
 <212> DNA
 <213> *Oryctolagus cuniculus*

 <400> 577
 cgattcacca tctccagaac ctcgaccacg gtgactctga aaatgaccag tctgacaacc 60
 gaggacacgg ccacctatatt ctgtgccaga 90

 <210> 578
 <211> 18
 <212> DNA
 <213> *Oryctolagus cuniculus*

 <400> 578
 gactattggt tgagcttg 18

 <210> 579
 <211> 33
 <212> DNA
 <213> Artificial

 <220>
 <223> Humanized antibody sequence

 <400> 579
 tggggccaag 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 cctgggtcaag gactacttcc ccgaaccggt gacggtgtcg      120
tggaactcag gcgccctgac cagcggcgtg cacaccttcc cggctgtcct acagtcctca      180
ggactctact ccctcagcag cgtgggtgacc gtgccctcca gcagcttggg caccagacc      240
tacatctgca acgtgaatca caagcccagc aacaccaagg tggacgcgag agttgagccc      300
aaatcttgtg acaaaaactca cacatgccca ccgtgccag cacctgaact cctgggggga      360
ccgtcagtct tcctcttccc cccaaaaccc aaggacaccc tcatgatctc ccggaccct      420
gaggtcacat gcgtgggtgt 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 ggcagccccc agaaccacag gtgtacaccc tgccccatc ccgggaggag      720
atgaccaaga accaggtcag cctgacctgc ctgggtcaaag 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> 218

<212> PRT

<213> Artificial

<220>

<223> Humanized antibody sequence

<400> 581

```
Ala Ala Val 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 Ser Ser Gln Ser Val Tyr Asp Asn
          20          25          30
```

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

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

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

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

Ala Ala Asp Asn Ala 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

<210> 582
<211> 112
<212> PRT
<213> Artificial

<220>

<223> Humanized antibody sequence

<400> 582

Ala Ala Val 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 Ser Ser Gln Ser Val Tyr Asp Asn
20 25 30

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

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

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

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

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

<210> 583

<211> 23

<212> PRT

<213> Oryctolagus cuniculus

<400> 583

Ala Ala Val 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> 584

<211> 13

<212> PRT

<213> Oryctolagus cuniculus

<400> 584

Gln Ser Ser Gln Ser Val Tyr Asp Asn Asn Ala 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

Ala Ala Ser Asn Leu Ala Ser
1 5

<210> 587

<211> 32

<212> PRT

<213> *Oryctolagus cuniculus*

<400> 587

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> 588

<211> 11

<212> PRT

<213> *Oryctolagus cuniculus*

<400> 588

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

<210> 589
<211> 11
<212> PRT
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 589

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

<210> 590
<211> 106
<212> PRT
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 590

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

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

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

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

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

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

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

<210> 591
<211> 654

<212> DNA
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 591
gcagccgtgc tgaccagac accatcgccc gtgtctgcag ctgtgggagg cacagtcacc 60
atcaagtgcc agtccagtca gagtgtttat gataacaatg ctttagcctg gtatcagcag 120
aaaccaggac agcctcccaa gtcctgatc tatgctgcat ccaatctggc atctggggtc 180
ccagataggt tcagcggcag tggatctggg acacagttca ctctcaccat cagcggcgtg 240
cagtgtgacg atgctgccac ttactactgt ctaggcggtt atgatgatgc tgctgataat 300
gctttcggcg gagggaccga ggtgggtggc aaacgtacgg tagcggcccc atctgtcttc 360
atcttcccg ccatctgatga 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> 592
<211> 336
<212> DNA
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 592
gcagccgtgc tgaccagac accatcgccc gtgtctgcag ctgtgggagg cacagtcacc 60
atcaagtgcc agtccagtca gagtgtttat gataacaatg ctttagcctg gtatcagcag 120
aaaccaggac agcctcccaa gtcctgatc tatgctgcat ccaatctggc atctggggtc 180
ccagataggt tcagcggcag tggatctggg acacagttca ctctcaccat cagcggcgtg 240
cagtgtgacg atgctgccac ttactactgt ctaggcggtt atgatgatgc tgctgataat 300
gctttcggcg gagggaccga ggtgggtggc aaacgt 336

<210> 593
<211> 69

<212> DNA
 <213> *Oryctolagus cuniculus*

<400> 593
 gcagccgtgc tgaccagac accatcgccc gtgtctgcag ctgtgggagg cacagtcacc 60
 atcaagtgc 69

<210> 594
 <211> 39
 <212> DNA
 <213> *Oryctolagus cuniculus*

<400> 594
 cagtcagtc agagtgttta tgataacaat gctttagcc 39

<210> 595
 <211> 45
 <212> DNA
 <213> *Oryctolagus cuniculus*

<400> 595
 tggatatcagc agaaaccagg acagcctccc aagctcctga tctat 45

<210> 596
 <211> 21
 <212> DNA
 <213> *Oryctolagus cuniculus*

<400> 596
 gctgcatcca atctggcatc t 21

<210> 597
 <211> 96
 <212> DNA
 <213> *Oryctolagus cuniculus*

<400> 597
 ggggtcccag ataggttcag cggcagtgga tctgggacac agttcactct caccatcagc 60
 ggcgtagcagt gtgacgatgc tgccacttac tactgt 96

<210> 598
 <211> 33
 <212> DNA
 <213> *Oryctolagus cuniculus*

<400> 598
 ctaggcggtt atgatgatgc tgctgataat gct 33

<210> 599
<211> 33
<212> DNA
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 599
ttcggcggag ggaccgaggt ggtggtcaaa cgt 33

<210> 600
<211> 318
<212> DNA
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 600
acggtagcgg ccccatctgt cttcatcttc ccgcatctg atgagcagtt gaaatctgga 60
actgcctctg ttgtgtgcct gctgaataac ttctatccca gagaggccaa agtacagtgg 120
aaggtggata acgccctcca atcgggtaac tcccaggaga gtgtcacaga gcaggacagc 180
aaggacagca cctacagcct cagcagcacc ctgacgctga gcaaagcaga ctacgagaaa 240
cacaaagtct acgcctgcga agtcacccat cagggcctga gctcgcccgt cacaaagagc 300
ttcaacaggg gagagtgt 318

<210> 601
<211> 441
<212> PRT
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 601

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

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

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

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

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

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

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

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

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

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

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

Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Ala Arg
195 200 205

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

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

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

Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr
260 265 270

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

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

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

Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln
325 330 335

Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu Met
340 345 350

Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro
355 360 365

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

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

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

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

Lys Ser Leu Ser Leu Ser Pro Gly Lys
435 440

<210> 602
<211> 111
<212> PRT
<213> Artificial

<220>

<223> Humanized antibody sequence

<400> 602

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

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

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

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

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

Trp Leu Ser Leu Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
100 105 110

<210> 603

<211> 29

<212> PRT

<213> Oryctolagus cuniculus

<400> 603

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 Ala Ser Gly Phe Ser Leu Ser
20 25

<210> 604

<211> 5

<212> PRT

<213> Oryctolagus cuniculus

<400> 604

Ser Tyr Ala Met Gly
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

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

<210> 607

<211> 30

<212> PRT

<213> Oryctolagus cuniculus

<400> 607

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

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

<210> 608

<211> 6

<212> PRT

<213> Oryctolagus cuniculus

<400> 608

Asp Tyr Trp Leu Ser Leu
1 5

<210> 609
<211> 11
<212> PRT
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 609

Trp Gly Gln 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 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> 611
<211> 1323
<212> DNA
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 611
cagtcggtgg aggagtccgg gggtcgcctg gtcacgcctg ggacaccct gacactcacc 60
tgcacagcct ctggattctc cctcagtagc tatgcaatgg gctgggtccg ccaggctcca 120
gggaaggggc tggaatggat cggagacatt agtacttatg gtaccacaga ctacgcgagc 180
tgggtgtatg gccgattcac catctccaga acctcgacca cggtgactct gaaaatgacc 240
agtctgacaa ccgaggacac ggccacctat ttctgtgccag gagactattg gttgagcttg 300
tggggccaag gcaccctggg caccgtctcg agcgcctcca ccaagggcc atcgggtcttc 360
cccctggcac cctcctcaa gagcacctct gggggcacag cggccctggg ctgcctggtc 420
aaggactact tccccgaacc ggtgacggtg tcgtggaact caggcgccct gaccagcggc 480
gtgcacacct tcccggtgtg cctacagtcc tcaggactct actccctcag cagcgtggtg 540
accgtgccct ccagcagctt gggcacccag acctacatct gcaacgtgaa tcacaagccc 600
agcaacacca aggtggacgc gagagttgag cccaaatctt gtgacaaaac tcacacatgc 660
ccaccgtgcc cagcacctga actcctgggg ggaccgtcag tcttcctctt cccccaaaa 720
cccaaggaca ccctcatgat ctcccggacc cctgaggtca catgcgtggt ggtggacgtg 780
agccacgaag accctgaggt caagttcaac tggtacgtgg acggcgtgga ggtgcataat 840
gccaagacaa agccgcggga ggagcagtac gccagcacgt accgtgtggt cagcgtcctc 900
accgtcctgc accaggactg gctgaatggc aaggagtaca agtgcaaggt ctccaacaaa 960
gccctcccag ccccatcga gaaaaccatc tccaaagcca aagggcagcc ccgagaacca 1020
caggtgtaca ccctgcccc atcccgggag gagatgacca agaaccaggt cagcctgacc 1080
tgctgtgtca aaggcttcta tcccagcgac atcgccgtgg agtgggagag caatgggcag 1140
ccggagaaca actacaagac cacgcctccc gtgctggact ccgacggctc cttcttcctc 1200
tacagcaagc tcaccgtgga caagagcagg tggcagcagg ggaacgtctt ctcatgctcc 1260
gtgatgcatg aggctctgca caaccactac acgcagaaga gcctctccct gtctccgggt 1320
aaa 1323

<210> 612
<211> 333
<212> DNA
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 612
cagtcggtgg aggagtccgg gggtcgcctg gtcacgcctg ggacaccct gacactcacc 60
tgcacagcct ctggattctc cctcagtagc tatgcaatgg gctgggtccg ccaggctcca 120
gggaaggggc tggaatggat cggagacatt agtacttatg gtaccacaga ctacgcgagc 180
tgggtgtatg gccgattcac catctccaga acctcgacca cggtgactct gaaaatgacc 240
agtctgacaa ccgaggacac ggccacctat ttctgtgcca gagactattg gttgagcttg 300
tggggccaag gcaccctggc caccgtctcg agc 333

<210> 613
<211> 87
<212> DNA
<213> *Oryctolagus cuniculus*

<400> 613
cagtcggtgg aggagtccgg gggtcgcctg gtcacgcctg ggacaccct gacactcacc 60
tgcacagcct ctggattctc cctcagt 87

<210> 614
<211> 15
<212> DNA
<213> *Oryctolagus cuniculus*

<400> 614
agctatgcaa tgggc 15

<210> 615
<211> 42
<212> DNA
<213> *Oryctolagus cuniculus*

<400> 615
tgggtccgcc aggctccagg gaaggggctg gaatggatcg ga 42

<210> 616

<211> 48
 <212> DNA
 <213> *Oryctolagus cuniculus*

<400> 616
 gacattagta cttatggtac cacagactac gcgagctggg tgtatggc 48

<210> 617
 <211> 90
 <212> DNA
 <213> *Oryctolagus cuniculus*

<400> 617
 cgattcacca tctccagaac ctcgaccacg gtgactctga aaatgaccag tctgacaacc 60
 gaggacacgg ccacctatatt ctgtgccaga 90

<210> 618
 <211> 18
 <212> DNA
 <213> *Oryctolagus cuniculus*

<400> 618
 gactattggt tgagcttg 18

<210> 619
 <211> 33
 <212> DNA
 <213> Artificial

<220>
 <223> Humanized antibody sequence

<400> 619
 tggggccaag gcaccctggt 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
 ggacacagcgg ccctgggctg cctggtcaag gactacttcc ccgaaccggt gacggtgtcg 120
 tggaactcag gcgccctgac cagcggcgtg cacaccttcc cggctgtcct acagtcctca 180

ggactctact ccctcagcag cgtggtgacc gtgccctcca gcagcttggg caccagacc 240
 tacatctgca acgtgaatca caagcccagc aacaccaagg tggacgcgag agttgagccc 300
 aaatcttgtg acaaaaactca cacatgccc aacgtgcccag cacctgaact cctgggggga 360
 ccgtcagtct tcctcttccc cccaaaaccc aaggacaccc tcatgatctc ccggaccctt 420
 gaggtcacat gcgtggtggt ggacgtgagc cacgaagacc ctgaggtcaa gttcaactgg 480
 tacgtggacg gcgtggaggt gcataatgcc aagacaaagc cgcgggagga gcagtacgcc 540
 agcacgtacc gtgtggtcag cgtcctcacc gtcctgcacc aggactggct gaatggcaag 600
 gagtacaagt gcaaggctct caacaaagcc ctcccagccc ccatcgagaa aaccatctcc 660
 aaagccaaag ggcagccccg agaaccacag gtgtacaccc tgcccccatc ccgggaggag 720
 atgaccaaga accagggtcag 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> 218
 <212> PRT
 <213> Artificial

<220>
 <223> Humanized antibody sequence

<400> 621

Ala Ala Val 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 Ser Ser Gln Ser Val Tyr Asp Asn
 20 25 30

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

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

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

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

Pro Ala Asp Asn Ala 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

<210> 622
<211> 112
<212> PRT
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 622

Ala Ala Val 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 Ser Ser Gln Ser Val Tyr Asp Asn
20 25 30

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

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

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

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

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

<210> 623
<211> 23
<212> PRT
<213> Oryctolagus cuniculus

<400> 623

Ala Ala Val 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> 624
<211> 13
<212> PRT
<213> Oryctolagus cuniculus

<400> 624

Gln Ser Ser Gln Ser Val Tyr Asp Asn Asn Ala 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

Ala	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	Gly	Val	Gln	Cys	Asp	Asp	Ala	Ala	Thr	Tyr	Tyr	Cys
			20					25					30		

<210> 628
<211> 11
<212> PRT
<213> Oryctolagus cuniculus

<400> 628

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

<210> 629
<211> 11
<212> PRT
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 629

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

<210> 630

<211> 106

<212> PRT

<213> Artificial

<220>

<223> Humanized antibody sequence

<400> 630

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

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

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

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

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

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

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

<210> 631

<211> 654

<212> DNA

<213> Artificial

<220>

<223> Humanized antibody sequence

<400> 631

gcagccgtgc tgaccagac accatcgccc gtgtctgcag ctgtgggagg cacagtcacc

60

atcaagtgcc agtccagtca gagtgtttat gataacaatg ctttagcctg gtatcagcag	120
aaaccagggc agcctcccaa gtcctgatc tatgctgcat ccactctggc atctggggtc	180
ccatcgcggt tcagtggcag tggatctggg acagagttca ctctcaccat cagcggcgtg	240
cagtgtgacg atgctgccac ttactactgt ctaggcggtt attatgatcc tgctgataat	300
gctttcggcg gagggaccga ggtggtggtc aaacgtacgg tagcggcccc atctgtcttc	360
atcttcccg ccatctgatga 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> 632
 <211> 336
 <212> DNA
 <213> Artificial

<220>
 <223> Humanized antibody sequence

<400> 632	
gcagccgtgc tgaccagac accatcgccc gtgtctgcag ctgtgggagg cacagtcacc	60
atcaagtgcc agtccagtca gagtgtttat gataacaatg ctttagcctg gtatcagcag	120
aaaccagggc agcctcccaa gtcctgatc tatgctgcat ccactctggc atctggggtc	180
ccatcgcggt tcagtggcag tggatctggg acagagttca ctctcaccat cagcggcgtg	240
cagtgtgacg atgctgccac ttactactgt ctaggcggtt attatgatcc tgctgataat	300
gctttcggcg gagggaccga ggtggtggtc aaacgt	336

<210> 633
 <211> 69
 <212> DNA
 <213> *Oryctolagus cuniculus*

<400> 633	
gcagccgtgc tgaccagac accatcgccc gtgtctgcag ctgtgggagg cacagtcacc	60
atcaagtgc	69

<210> 634
 <211> 39
 <212> DNA
 <213> Oryctolagus cuniculus

 <400> 634
 cagtccagtc agagtgttta tgataacaat gcttttagcc 39

 <210> 635
 <211> 45
 <212> DNA
 <213> Oryctolagus cuniculus

 <400> 635
 tggatcagc agaaaccagg gcagcctccc aagctcctga tctat 45

 <210> 636
 <211> 21
 <212> DNA
 <213> Oryctolagus cuniculus

 <400> 636
 gctgcatcca ctctggcatc t 21

 <210> 637
 <211> 96
 <212> DNA
 <213> Oryctolagus cuniculus

 <400> 637
 ggggtcccat cgcggttcag tggcagtgga tctgggacag agttcactct caccatcagc 60
 ggcggtgcagt gtgacgatgc tgccacttac tactgt 96

 <210> 638
 <211> 33
 <212> DNA
 <213> Oryctolagus cuniculus

 <400> 638
 ctaggcgggtt attatgatcc tgctgataat gct 33

 <210> 639
 <211> 33
 <212> DNA
 <213> Artificial

 <220>

<223> Humanized antibody sequence

<400> 639

ttcggcggag ggaccgaggt ggtggtcaaa cgt

33

<210> 640

<211> 318

<212> DNA

<213> Artificial

<220>

<223> Humanized antibody sequence

<400> 640

acggtagcgg ccccatctgt cttcatcttc ccgccatctg atgagcagtt gaaatctgga 60

actgcctctg ttgtgtgcct gctgaataac ttctatccca gagaggccaa agtacagtgg 120

aaggtggata acgccctcca atcgggtaac tcccaggaga gtgtcacaga gcaggacagc 180

aaggacagca cctacagcct cagcagcacc ctgacgctga gcaaagcaga ctacgagaaa 240

cacaaagtct acgcctgcga agtcacccat cagggcctga gctcgcccgt cacaaagagc 300

ttcaacaggg gagagtgt 318

<210> 641

<211> 451

<212> PRT

<213> Artificial

<220>

<223> Humanized antibody sequence

<400> 641

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 Asp
20 25 30

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

Ile Ile Asn Thr Asn Asp Asp Thr Trp Tyr Ala Ser Trp Val 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 Ile
85 90 95

Ser Asp Ala Tyr Val Phe Asp Tyr Ala Tyr Tyr Phe Thr 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> 642
<211> 121
<212> PRT
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 642

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 Asp
20 25 30

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

Ile Ile Asn Thr Asn Asp Asp Thr Trp Tyr Ala Ser Trp Val 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 Ile
85 90 95

Ser Asp Ala Tyr Val Phe Asp Tyr Ala Tyr Tyr Phe Thr Leu Trp Gly
100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 643

<211> 29

<212> PRT

<213> *Oryctolagus cuniculus*

<400> 643

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> 644

<211> 5

<212> PRT

<213> *Oryctolagus cuniculus*

<400> 644

Ser Tyr Asp Met Ser
1 5

<210> 645

<211> 14

<212> PRT

<213> Oryctolagus cuniculus

<400> 645

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

<210> 646

<211> 16

<212> PRT

<213> Oryctolagus cuniculus

<400> 646

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

<210> 647

<211> 31

<212> PRT

<213> Oryctolagus cuniculus

<400> 647

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> 648

<211> 15

<212> PRT

<213> Oryctolagus cuniculus

<400> 648

Ile Ser Asp Ala Tyr Val Phe Asp Tyr Ala Tyr Tyr Phe Thr Leu
1 5 10 15

<210> 649
<211> 11
<212> PRT
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 649

Trp Gly Gln 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 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> 651
<211> 1353
<212> DNA
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 651
cagtcggtgg aggagtccgg gggtcgcctg gtcacgcctg ggacaccct gacactcacc 60
tgcaccgtct ctggattctc cctcagcagc tacgacatga gctgggtccg ccaggctcca 120
ggaaaggggc tggaatacat cggcatcatt aatactaata atgacacatg gtacgcgagc 180
tgggtgaaag gccgattcac catctccaaa acctcgtcga ccacggtgga tctgaaaatg 240
accagtctga caaccgagga cacggccacc tatttctgtg ccagaatatc cgatgcttat 300
gtttttgatt atgcgtatta ctttactttg tggggccagg ggaccctggt caccgtctcg 360
agcgcctcca ccaagggcc atcgggtctt cccctggcac cctcctcaa 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
cccaaattct gtgacaaaac tcacacatgc ccaccgtgcc cagcacctga actcctgggg 720
ggaccgtcag tcttcctctt cccccaaaa cccaaggaca ccctcatgat ctcccggacc 780
cctgagggtca catgcgtggt ggtggacgtg agccacgaag accctgaggt caagttcaac 840
tggtacgtgg acggcgtgga ggtgcataat gccaaagaaa agccgcggga ggagcagtac 900
gccagcacgt accgtgtggt cagcgtcctc accgtcctgc accaggactg gctgaatggc 960
aaggagtaca agtgcaaggt ctccaacaaa gccctcccag ccccatcga gaaaaccatc 1020
tccaaagcca aagggcagcc ccgagaacca caggtgtaca ccctgcccc atcccgggag 1080
gagatgacca agaaccaggt cagcctgacc tgcctggtca aaggcttcta tcccagcgac 1140
atcgccgtgg agtgggagag caatgggcag ccggagaaca actacaagac cagcctccc 1200
gtgctggact ccgacggctc cttcttcctc tacagcaagc tcaccgtgga caagagcagg 1260
tggcagcagg ggaacgtctt ctcatgctcc gtgatgcatg aggctctgca caaccactac 1320
acgcagaaga gcctctccct gtctccgggt aaa 1353

<210> 652
<211> 363
<212> DNA
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 652
cagtcggtgg aggagtccgg gggtcgcctg gtcacgcctg ggacaccct gacactcacc 60
tgcaccgtct ctggattctc cctcagcagc tacgacatga gctgggtccg ccaggctcca 120
ggaaaggggc tggaatacat cggcatcatt aatactaata atgacacatg gtacgcgagc 180
tgggtgaaag gccgattcac catctccaaa acctcgtcga ccacggtgga tctgaaaatg 240
accagtctga caaccgagga cacggccacc tatttctgtg ccagaatatc cgatgcttat 300
gtttttgatt atgcgtatta ctttactttg tggggccagg ggaccctggt caccgtctcg 360
agc 363

<210> 653
<211> 87
<212> DNA
<213> *Oryctolagus cuniculus*

<400> 653
cagtcggtgg aggagtccgg gggtcgcctg gtcacgcctg ggacaccct gacactcacc 60
tgcaccgtct ctggattctc cctcagc 87

<210> 654
<211> 15
<212> DNA
<213> *Oryctolagus cuniculus*

<400> 654
agctacgaca tgagc 15

<210> 655
<211> 42
<212> DNA
<213> *Oryctolagus cuniculus*

<400> 655
tgggtccgcc aggctccagg aaaggggctg gaatacatcg gc 42

<210> 656
 <211> 48
 <212> DNA
 <213> *Oryctolagus cuniculus*

 <400> 656
 atcattaata ctaatgatga cacatggtag gcgagctggg tgaaaggc 48

 <210> 657
 <211> 93
 <212> DNA
 <213> *Oryctolagus cuniculus*

 <400> 657
 cgattcacca tctccaaaac ctcgtcgacc acggtggatc tgaaaatgac cagtctgaca 60
 accgaggaca cggccaccta tttctgtgcc aga 93

 <210> 658
 <211> 45
 <212> DNA
 <213> *Oryctolagus cuniculus*

 <400> 658
 atatccgatg cttatgtttt tgattatgcg tattacttta ctttg 45

 <210> 659
 <211> 33
 <212> DNA
 <213> Artificial

 <220>
 <223> Humanized antibody sequence

 <400> 659
 tggggccagg ggaccctggg 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
 ggacacagcgg ccctgggctg cctgggtcaag gactacttcc ccgaaccggt gacggtgtcg 120

tggaactcag gcgccctgac cagcggcgtg cacaccttcc cggctgtcct acagtcctca	180
ggactctact ccctcagcag cgtggtgacc gtgccctcca gcagcttggg caccagacc	240
tacatctgca acgtgaatca caagcccagc aacaccaagg tggacgcgag agttgagccc	300
aaatcttgtg acaaaaactca cacatgcccc ccgtgcccag cacctgaact cctgggggga	360
ccgtcagtct tcctcttccc cccaaaaccc aaggacaccc tcatgatctc ccggaccctt	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 ggagccccg agaaccacag gtgtacaccc tgccccatc 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> 217
 <212> PRT
 <213> Artificial

<220>
 <223> Humanized antibody sequence

<400> 661

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

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

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

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

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

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

Ile Gly Asn Pro 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> 662
<211> 111
<212> PRT
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 662

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

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

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

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

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

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

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

<210> 663
<211> 23
<212> PRT
<213> *Oryctolagus cuniculus*

<400> 663

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

Gly Thr Val Thr Ile Asn Cys
20

<210> 664
<211> 11
<212> PRT
<213> *Oryctolagus cuniculus*

<400> 664

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

<210> 665
<211> 15
<212> PRT
<213> Oryctolagus cuniculus

<400> 665

Trp	Tyr	Gln	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	Ser	Ser	Arg	Phe	Lys	Gly	Ser	Gly	Ser	Gly	Thr	Gln	Phe	Thr
1				5					10					15	

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

<210> 668
<211> 12
<212> PRT
<213> Oryctolagus cuniculus

<400> 668

Gln	Gln	Gly	Ala	Gly	Ala	Asp	Asn	Ile	Gly	Asn	Pro
1				5					10		

<210> 669
<211> 11
<212> PRT
<213> Artificial

<220>

<223> Humanized antibody sequence

<400> 669

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

<210> 670

<211> 106

<212> PRT

<213> Artificial

<220>

<223> Humanized antibody sequence

<400> 670

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

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

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

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

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

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

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

<210> 671

<211> 651

<212> DNA

<213> Artificial

<220>

<223> Humanized antibody sequence

<400> 671
gcccttgtga tgaccagac tccatcctcc gtgtctgcag ctgtgggagg cacagtcacc 60
atcaattgcc tggccagtca gaacatttac aattcttttag cctggatatca gcagaaacca 120
gggcagcctc ccaagctcct gatctacagg gcatccactc tggcatctgg ggtctcatcg 180
cggttcaaag gcagtggatc tgggacacag ttcactctca ccatcagcgg cgtggagtgt 240
gccgatgctg ccacttacta ctgtcaacag ggtgctggtg ctgataatat tggtaatcct 300
ttcggcggag ggaccgaggt ggtggtcaaa cgtacggtag cggccccatc tgtcttcac 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> 672
<211> 333
<212> DNA
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 672
gcccttgtga tgaccagac tccatcctcc gtgtctgcag ctgtgggagg cacagtcacc 60
atcaattgcc tggccagtca gaacatttac aattcttttag cctggatatca gcagaaacca 120
gggcagcctc ccaagctcct gatctacagg gcatccactc tggcatctgg ggtctcatcg 180
cggttcaaag gcagtggatc tgggacacag ttcactctca ccatcagcgg cgtggagtgt 240
gccgatgctg ccacttacta ctgtcaacag ggtgctggtg ctgataatat tggtaatcct 300
ttcggcggag ggaccgaggt ggtggtcaaa cgt 333

<210> 673
<211> 69
<212> DNA
<213> *Oryctolagus cuniculus*

<400> 673
gcccttgtga tgaccagac tccatcctcc gtgtctgcag ctgtgggagg cacagtcacc 60

atcaattgc	69
<210> 674	
<211> 33	
<212> DNA	
<213> Oryctolagus cuniculus	
<400> 674	
ctggccagtc agaacattta caattcttta gcc	33
<210> 675	
<211> 45	
<212> DNA	
<213> Oryctolagus cuniculus	
<400> 675	
tggtatcagc 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	
ggggtctcat cgcggttcaa aggcagtgga tctgggacac agttcactct caccatcagc	60
ggcgtggagt gtgccgatgc tgccacttac tactgt	96
<210> 678	
<211> 36	
<212> DNA	
<213> Oryctolagus cuniculus	
<400> 678	
caacagggtg ctggtgctga taatattggt aatcct	36
<210> 679	
<211> 33	
<212> DNA	
<213> Artificial	

<220>

<223> Humanized antibody sequence

<400> 679

ttcggcggag ggaccgaggt ggtgggtcaaa cgt

33

<210> 680

<211> 318

<212> DNA

<213> Artificial

<220>

<223> Humanized antibody sequence

<400> 680

acggtagcgg ccccatctgt cttcatcttc ccgccatctg atgagcagtt gaaatctgga 60

actgcctctg ttgtgtgcct gctgaataac ttctatccca gagaggccaa agtacagtgg 120

aaggtggata acgccctcca atcgggtaac tcccaggaga gtgtcacaga gcaggacagc 180

aaggacagca cctacagcct cagcagcacc ctgacgctga gcaaagcaga ctacgagaaa 240

cacaaagtct acgcctgcga agtcacccat cagggcctga gctcgcccgt cacaaagagc 300

ttcaacaggg gagagtgt 318

<210> 681

<211> 452

<212> PRT

<213> Artificial

<220>

<223> Humanized antibody sequence

<400> 681

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 Ser
20 25 30

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

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

Trp Ala Lys Gly Arg Phe Thr Ile Ser Lys Thr 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 Arg His Leu Tyr Gly Ser Ile Thr Phe Ala Phe Gly Leu Trp
100 105 110

Gly Gln 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 Ala 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> 682
<211> 122
<212> PRT
<213> Artificial

<220>

<223> Humanized antibody sequence

<400> 682

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 Ser
20 25 30

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

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

Trp Ala Lys Gly Arg Phe Thr Ile Ser Lys Thr 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 Arg His Leu Tyr Gly Ser Ile Thr Phe Ala Phe Gly Leu Trp
100 105 110

Gly Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 683

<211> 30

<212> PRT

<213> Oryctolagus cuniculus

<400> 683

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> 684

<211> 6

<212> PRT

<213> Oryctolagus cuniculus

<400> 684

Ser Ser Asp Tyr Met Cys
1 5

<210> 685

<211> 14

<212> PRT

<213> Oryctolagus cuniculus

<400> 685

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

<210> 686

<211> 18

<212> PRT

<213> Oryctolagus cuniculus

<400> 686

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

Lys Gly

<210> 687

<211> 31

<212> PRT

<213> Oryctolagus cuniculus

<400> 687

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> 688

<211> 12

<212> PRT

<213> Oryctolagus cuniculus

<400> 688

His Leu Tyr Gly Ser Ile Thr Phe Ala Phe Gly 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> 1356
<212> DNA
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 691
caggagcagc tgggtggagtc cgggggaggc ctggtccagc ctgagggatc cctgacactc 60
acctgcacag cctctggatt ctccttcagt agcagcgact acatgtgctg ggtccgccag 120
gctccaggga aggggctgga gtggatcgga tgcattgatg ctggtagtag tggtgacact 180
tacttcgcga gctgggcgaa aggccgattc accatctcca aaacctcgtc gaccacgggtg 240
actctgcaaa tgaccagtct gacagccgcg gacacggcca cctatttctg tgcgagacat 300
ctttatggta gtattacttt cgcctttggc ttgtggggcc agggcaccct ggtcacctgc 360
tcgagcgcct ccaccaaggg cccatcggtc ttccccctgg caccctctc caagagcacc 420
tctgggggca cagcggccct gggctgcctg gtcaaggact acttccccga accggtgacg 480
gtgtcgtgga actcaggcgc cctgaccagc ggcgtgcaca cttcccggc tgtcctacag 540
tcctcaggac tctactccct cagcagcgtg gtgaccgtgc cctccagcag cttgggcacc 600
cagacctaca tctgcaacgt gaatcacaag cccagcaaca ccaaggtgga cgcgagagtt 660
gagcccaaat cttgtgacaa aactcacaca tgcccaccgt gcccagcacc tgaactcctg 720
gggggaccgt cagtcttcct cttccccca aaaccaagg acaccctcat gatctcccgg 780
acccctgagg tcacatgcgt ggtggtggac gtgagccacg aagaccctga ggtcaagttc 840
aactggtacg tggacggcgt ggaggtgcat aatgccaaga caaagccgcg ggaggagcag 900
tacgccagca cgtaccgtgt ggtcagcgtc ctaccgtcc tgcaccagga ctggctgaat 960
ggcaaggagt acaagtgcaa ggtctccaac aaagccctcc cagcccccat cgagaaaacc 1020
atctccaaag ccaaagggca gccccgagaa ccacaggtgt acaccctgcc cccatcccgg 1080
gaggagatga ccaagaacca ggtcagcctg acctgcctgg tcaaaggctt ctatcccagc 1140
gacatcgccg tggagtggga gagcaatggg cagccggaga acaactacaa gaccacgcct 1200

cccgctgctgg actccgacgg ctccttcttc ctctacagca agctcaccgt ggacaagagc	1260
aggtggcagc aggggaacgt cttctcatgc tccgtgatgc atgaggctct gcacaaccac	1320
tacacgcaga agagcctctc cctgtctccg ggtaaa	1356

<210> 692
 <211> 366
 <212> DNA
 <213> Artificial

<220>
 <223> Humanized antibody sequence

<400> 692	
caggagcagc tgggtggagtc cgggggaggc ctggtccagc ctgagggatc cctgacactc	60
acctgcacag cctctggatt ctccttcagt agcagcgact acatgtgctg ggtccgccag	120
gctccaggga aggggctgga gtggatcgga tgcattgatg ctggtagtag tggtgacact	180
tacttcgcga gctgggcgaa aggccgattc accatctcca aaacctcgtc gaccacggtg	240
actctgcaaa tgaccagtct gacagccgcg gacacggcca cctatttctg tgcgagacat	300
ctttatggta gtattacttt cgcctttggc ttgtggggcc agggcaccct ggtcaccgtc	360
tcgagc	366

<210> 693
 <211> 90
 <212> DNA
 <213> *Oryctolagus cuniculus*

<400> 693	
caggagcagc tgggtggagtc cgggggaggc ctggtccagc ctgagggatc cctgacactc	60
acctgcacag cctctggatt ctccttcagt	90

<210> 694
 <211> 18
 <212> DNA
 <213> *Oryctolagus cuniculus*

<400> 694	
agcagcgact acatgtgc	18

<210> 695
 <211> 42

<212> DNA
 <213> *Oryctolagus cuniculus*

 <400> 695
 tgggtccgcc aggctccagg gaaggggctg gagtggatcg ga 42

 <210> 696
 <211> 54
 <212> DNA
 <213> *Oryctolagus cuniculus*

 <400> 696
 tgcatatgatg ctggtagtag tggtagact tacttcgcga gctgggagaa aggc 54

 <210> 697
 <211> 93
 <212> DNA
 <213> *Oryctolagus cuniculus*

 <400> 697
 cgattcacca tctccaaaac ctggtcgacc acggtgactc tgcaaatgac cagtctgaca 60

 gccgcggaca cggccaccta tttctgtgcg aga 93

 <210> 698
 <211> 36
 <212> DNA
 <213> *Oryctolagus cuniculus*

 <400> 698
 catctttatg gtagtattac tttcgcttt ggcttg 36

 <210> 699
 <211> 33
 <212> DNA
 <213> Artificial

 <220>
 <223> Humanized antibody sequence

 <400> 699
 tggggccagg gcaccctggt 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 cctgggtcaag gactacttcc ccgaaccggt gacggtgtcg      120
tggaactcag gcgccctgac cagcggcgtg cacaccttcc cggctgtcct acagtcctca      180
ggactctact ccctcagcag cgtgggtgacc gtgccctcca gcagcttggg caccagacc      240
tacatctgca acgtgaatca caagcccagc aacaccaagg tggacgagag agttgagccc      300
aaatcttgtg aaaaaactca cacatgccca ccgtgccag cacctgaact cctgggggga      360
ccgtcagtct tcctcttccc cccaaaaccc aaggacaccc tcatgatctc ccggaccct      420
gaggtcacat gcgtgggtgt 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 ggcagccccc agaaccacag gtgtacaccc tgcccccatc ccgggaggag      720
atgaccaaga accaggtcag cctgacctgc ctgggtcaaag 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> 217

<212> PRT

<213> Artificial

<220>

<223> Humanized antibody sequence

<400> 701

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

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

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

Tyr Asp Ala Ser Thr Leu Ala Ser Gly Val Pro Ser 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 Gln Gly Thr Tyr Tyr Ser Ser Gly
85 90 95

Trp Tyr Thr 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> 702
<211> 111
<212> PRT
<213> Artificial

<220>

<223> Humanized antibody sequence

<400> 702

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

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

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

Tyr Asp Ala Ser Thr Leu Ala Ser Gly Val Pro Ser 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 Gln Gly Thr Tyr Tyr Ser Ser Gly
85 90 95

Trp Tyr Thr Ala Phe Gly Gly Gly Thr Glu Val Val Val Lys Arg
100 105 110

<210> 703

<211> 23

<212> PRT

<213> Oryctolagus cuniculus

<400> 703

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

Gly Thr Val Thr Ile Asn Cys
20

<210> 704

<211> 11

<212> PRT

<213> Oryctolagus cuniculus

<400> 704

Gln Ala Ser Gln Ser Ile Gly Ser Asp Leu Ala
1 5 10

<210> 705

<211> 15

<212> PRT

<213> Oryctolagus cuniculus

<400> 705

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

<210> 706

<211> 7

<212> PRT

<213> Oryctolagus cuniculus

<400> 706

Asp Ala Ser Thr Leu Ala Ser
1 5

<210> 707

<211> 32

<212> PRT

<213> Oryctolagus cuniculus

<400> 707

Gly Val Pro 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> 708

<211> 12

<212> PRT

<213> Oryctolagus cuniculus

<400> 708

Gln Gly Thr Tyr Tyr Ser Ser Gly Trp Tyr Thr Ala
1 5 10

<210> 709
<211> 11
<212> PRT
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 709

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

<210> 710
<211> 106
<212> PRT
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 710

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

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

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

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

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

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

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

<210> 711
<211> 651

<212> DNA
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 711
gcagccgtgc tgaccagac accatcgccc gtgtctgcag ctgtgggagg cacagtcacc 60
atcaattgcc aggccagtca gagcattggg agcgacttag cctggtatca gcagaaacca 120
gggcagcctc ccaagctcct gatctatgat gcatccactc tggcatctgg ggtcccatcg 180
cggttcagcg gcagtggatc tgggacacag ttcactctca ccatcagcgg cgtgcagtgt 240
gacgatgctg ccacttacta ctgtcaaggc acttattata gtagtggttg gtacactgct 300
ttcggcggag ggaccgaggt ggtgggtcaaa cgtacggtag cggcccatc tgtcttcac 360
ttcccgccat ctgatgagca gttgaaatct ggaactgcct ctgttgtgtg cctgctgaat 420
aacttctatc ccagagaggc caaagtacag tggaaggtag 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> 712
<211> 333
<212> DNA
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 712
gcagccgtgc tgaccagac accatcgccc gtgtctgcag ctgtgggagg cacagtcacc 60
atcaattgcc aggccagtca gagcattggg agcgacttag cctggtatca gcagaaacca 120
gggcagcctc ccaagctcct gatctatgat gcatccactc tggcatctgg ggtcccatcg 180
cggttcagcg gcagtggatc tgggacacag ttcactctca ccatcagcgg cgtgcagtgt 240
gacgatgctg ccacttacta ctgtcaaggc acttattata gtagtggttg gtacactgct 300
ttcggcggag ggaccgaggt ggtgggtcaaa cgt 333

<210> 713
<211> 69

<212> DNA
 <213> *Oryctolagus cuniculus*

<400> 713
 gcagccgtgc tgaccagac accatcgccc gtgtctgcag ctgtgggagg cacagtcacc 60
 atcaattgc 69

<210> 714
 <211> 33
 <212> DNA
 <213> *Oryctolagus cuniculus*

<400> 714
 caggccagtc agagcattgg tagcgactta gcc 33

<210> 715
 <211> 45
 <212> DNA
 <213> *Oryctolagus cuniculus*

<400> 715
 tggatatcagc agaaaccagg gcagcctccc aagctcctga tctat 45

<210> 716
 <211> 21
 <212> DNA
 <213> *Oryctolagus cuniculus*

<400> 716
 gatgcatcca ctctggcatc t 21

<210> 717
 <211> 96
 <212> DNA
 <213> *Oryctolagus cuniculus*

<400> 717
 ggggtcccat cgcggttcag cggcagtgga tctgggacac agttcactct caccatcagc 60
 ggcggtgcagt gtgacgatgc tgccacttac tactgt 96

<210> 718
 <211> 36
 <212> DNA
 <213> *Oryctolagus cuniculus*

<400> 718
 caaggcactt attatagtag tggttggtac actgct 36

<210> 719
<211> 33
<212> DNA
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 719
ttcggcggag ggaccgaggt ggtggtcaaa cgt 33

<210> 720
<211> 318
<212> DNA
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 720
acggtagcgg ccccatctgt cttcatcttc ccgcatctg atgagcagtt gaaatctgga 60
actgcctctg ttgtgtgcct gctgaataac ttctatccca gagaggccaa agtacagtgg 120
aaggtggata acgccctcca atcgggtaac tcccaggaga gtgtcacaga gcaggacagc 180
aaggacagca cctacagcct cagcagcacc ctgacgctga gcaaagcaga ctacgagaaa 240
cacaaagtct acgcctgcga agtcacccat cagggcctga gctcgcccgt cacaaagagc 300
ttcaacaggg gagagtgt 318

<210> 721
<211> 447
<212> PRT
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 721

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

Pro Gly Gly Ser Leu Glu Leu Cys Cys Lys Ala Ser Gly Phe Ser Leu
20 25 30

Ser Ser Thr Tyr Trp Met Cys Trp Val Arg Gln Ala Pro Gly Lys Gly
35 40 45

Leu Glu Trp Ile Gly Cys Ile Tyr Thr Gly Ser Gly Ser Thr Asp Tyr
50 55 60

Ala Ser Trp Val Asn Gly Gln Phe Thr Leu Ser Arg Asp Ile Asp Gln
65 70 75 80

Ser Thr Gly Cys Leu Gln Leu Asn Ser Leu Thr Val Ala Asp Thr Ala
85 90 95

Met Tyr Tyr Cys Thr Lys Asn Phe Asp Leu Trp Gly Pro Gly Thr Leu
100 105 110

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

<210> 722
<211> 117
<212> PRT
<213> Artificial

<220>

<223> Humanized antibody sequence

<400> 722

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

Pro Gly Gly Ser Leu Glu Leu Cys Cys Lys Ala Ser Gly Phe Ser Leu
20 25 30

Ser Ser Thr Tyr Trp Met Cys Trp Val Arg Gln Ala Pro Gly Lys Gly
35 40 45

Leu Glu Trp Ile Gly Cys Ile Tyr Thr Gly Ser Gly Ser Thr Asp Tyr
50 55 60

Ala Ser Trp Val Asn Gly Gln Phe Thr Leu Ser Arg Asp Ile Asp Gln
65 70 75 80

Ser Thr Gly Cys Leu Gln Leu Asn Ser Leu Thr Val Ala Asp Thr Ala
85 90 95

Met Tyr Tyr Cys Thr Lys Asn Phe Asp Leu Trp Gly Pro Gly Thr Leu
100 105 110

Val Thr Val Ser Ser
115

<210> 723

<211> 33

<212> PRT

<213> *Oryctolagus cuniculus*

<400> 723

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

Pro Gly Gly Ser Leu Glu Leu Cys Cys Lys Ala Ser Gly Phe Ser Leu
20 25 30

Ser

<210> 724
<211> 6
<212> PRT
<213> Oryctolagus cuniculus

<400> 724

Ser Thr Tyr Trp Met Cys
1 5

<210> 725
<211> 14
<212> PRT
<213> Oryctolagus cuniculus

<400> 725

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

<210> 726
<211> 17
<212> PRT
<213> Oryctolagus cuniculus

<400> 726

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

Gly

<210> 727
<211> 32
<212> PRT
<213> Oryctolagus cuniculus

<400> 727

Gln Phe Thr Leu Ser Arg Asp Ile Asp Gln Ser Thr Gly Cys Leu Gln
1 5 10 15

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

<210> 728
<211> 4
<212> PRT
<213> Oryctolagus cuniculus

<400> 728

Asn Phe Asp Leu
1

<210> 729
<211> 11
<212> PRT
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 729

Trp Gly Pro 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

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> 731
 <211> 1341
 <212> DNA
 <213> Artificial

<220>
 <223> Humanized antibody sequence

<400> 731
 cagcagctgg agcagtcagg aggaggagcc gaaggaggcc tgggtcaagcc tgggggatcc 60
 ctggaactct gctgcaaggc ctctggattc tccctcagta gcacctactg gatgtgctgg 120
 gtccgccagg ctccagggaa ggggctggag tggattggat gcatttatac tggtagtggt 180
 agcacagact acgcgagctg ggtgaatggc caattcactc tctccagaga catcgaccag 240
 agcacagggt gcctacaact gaacagtctg acagtcgcgg acacggccat gtattactgt 300
 acgaaaaatt ttgacttggt gggcccgggc accctgggtca ccgtctcgag cgcctccacc 360
 aaggggcccat cgggtcttccc cctggcacc cctccaaga gcacctctgg gggcacagcg 420
 gccctgggct gcctgggtcaa ggactacttc cccgaaccgg tgacggtgtc gtggaactca 480
 ggcgccctga ccagcggcgt gcacaccttc ccggctgtcc tacagtcctc aggactctac 540
 tccctcagca gcgtgggtgac cgtgccctcc agcagcttgg gcacccagac ctacatctgc 600
 aacgtgaatc acaagcccag caacaccaag gtggacgcga gagttgagcc caaatcttgt 660
 gacaaaactc acacatgccc accgtgccc gcacctgaac tcctgggggg accgtcagtc 720
 ttctcttcc ccccaaaacc caaggacacc ctcatgatct cccggacccc tgaggtcaca 780
 tgcgtgggtg tggacgtgag ccacgaagac cctgaggtca agttcaactg gtacgtggac 840
 ggcgtggagg tgcataatgc caagacaaag ccgcgggagg agcagtacgc cagcacgtac 900
 cgtgtgggtca gcgtcctcac cgtcctgcac caggactggc tgaatggcaa ggagtacaag 960
 tgcaagggtct ccaacaaagc cctcccagcc cccatcgaga aaaccatctc caaagccaaa 1020

gggcagcccc gagaaccaca ggtgtacacc ctgcccccat cccgggagga gatgaccaag	1080
aaccaggtca gcctgacctg cctgggtcaaa ggcttctatc ccagcgacat cgccgtggag	1140
tgggagagca atgggcagcc ggagaacaac tacaagacca cgcctcccgt gctggactcc	1200
gacggctcct tcttcctcta cagcaagctc accgtggaca agagcaggtg gcagcagggg	1260
aacgtcttct catgctccgt gatgcatgag gctctgcaca accactacac gcagaagagc	1320
ctctccctgt ctccgggtaa a	1341

<210> 732
 <211> 351
 <212> DNA
 <213> Artificial

<220>
 <223> Humanized antibody sequence

<400> 732	
cagcagctgg agcagtccgg aggaggagcc gaaggaggcc tgggtcaagcc tgggggatcc	60
ctggaactct gctgcaaggc ctctggattc tccctcagta gcacctactg gatgtgctgg	120
gtccgccagg ctccagggaa ggggctggag tggattggat gcatttatac tggtagtggt	180
agcacagact acgcgagctg ggtgaatggc caattcactc tctccagaga catcgaccag	240
agcacagggt gcctacaact gaacagtctg acagtcgcgg acacggccat gtattactgt	300
acgaaaaatt ttgacttggt gggcccgggc accctgggtca ccgtctcgag c	351

<210> 733
 <211> 99
 <212> DNA
 <213> *Oryctolagus cuniculus*

<400> 733	
cagcagctgg agcagtccgg aggaggagcc gaaggaggcc tgggtcaagcc tgggggatcc	60
ctggaactct gctgcaaggc ctctggattc tccctcagt	99

<210> 734
 <211> 18
 <212> DNA
 <213> *Oryctolagus cuniculus*

<400> 734	
agcacctact ggatgtgc	18

<210> 735
 <211> 42
 <212> DNA
 <213> *Oryctolagus cuniculus*

 <400> 735
 tgggtccgcc aggctccagg gaaggggctg gaggggattg ga 42

 <210> 736
 <211> 51
 <212> DNA
 <213> *Oryctolagus cuniculus*

 <400> 736
 tgcatttata ctggtagtgg tagcacagac tacgcgagct gggtgaatgg c 51

 <210> 737
 <211> 96
 <212> DNA
 <213> *Oryctolagus cuniculus*

 <400> 737
 caattcactc tctccagaga catcgaccag agcacagggt gcctacaact gaacagtctg 60
 acagtcgcgg acacggccat gtattactgt acgaaa 96

 <210> 738
 <211> 12
 <212> DNA
 <213> *Oryctolagus cuniculus*

 <400> 738
 aattttgact tg 12

 <210> 739
 <211> 33
 <212> DNA
 <213> Artificial

 <220>
 <223> Humanized antibody sequence

 <400> 739
 tggggcccgg gcaccctggg 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 cctgggtcaag gactacttcc ccgaaccggt gacggtgtcg 120
tggaactcag gcgccctgac cagcggcgtg cacaccttcc cggctgtcct acagtcctca 180
ggactctact ccctcagcag cgtgggtgacc gtgccctcca gcagcttggg caccagacc 240
tacatctgca acgtgaatca caagcccagc aacaccaagg tggacgcgag agttgagccc 300
aaatcttgtg acaaaaactca cacatgcca ccgtgcccag cacctgaact cctgggggga 360
ccgtcagtct tcctcttccc cccaaaaccc aaggacaccc tcatgatctc ccggaccctt 420
gaggtcacat gcgtgggtgt ggacgtgagc cacgaagacc ctgaggtcaa gttcaactgg 480
tacgtggacg gcgtggaggt gcataatgcc aagacaaagc cgcgggagga gcagtacgcc 540
agcacgtacc gtgtggtcag cgtcctcacc gtcctgcacc aggactggct gaatggcaag 600
gagtacaagt gcaaggctct caacaaagcc ctcccagccc ccatcgagaa aaccatctcc 660
aaagccaaag ggcagccccg agaaccacag gtgtacaccc tgccccatc ccgggaggag 720
atgaccaaga accaggtcag cctgacctgc ctgggtcaaag 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> 220
<212> PRT
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 741

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

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

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

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

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

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

Gly Ser Thr Asp Cys His Ala 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> 742
<211> 114
<212> PRT
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 742

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

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

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

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

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

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

Gly Ser Thr Asp Cys His Ala Phe Gly Gly Gly Thr Glu Val Val Val
100 105 110

Lys Arg

<210> 743
<211> 23
<212> PRT
<213> Oryctolagus cuniculus

<400> 743

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

Gly Thr Val Thr Ile Asn Cys

<210> 744
 <211> 13
 <212> PRT
 <213> Oryctolagus cuniculus

<400> 744

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

<210> 745
 <211> 15
 <212> PRT
 <213> Oryctolagus cuniculus

<400> 745

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

<210> 746
 <211> 7
 <212> PRT
 <213> Oryctolagus cuniculus

<400> 746

Asp Ala Ser Thr Leu Ala Ser
 1 5

<210> 747
 <211> 32
 <212> PRT
 <213> Oryctolagus cuniculus

<400> 747

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 Ala Tyr Tyr Cys
 20 25 30

<210> 748
 <211> 13
 <212> PRT

<213> Oryctolagus cuniculus

<400> 748

Leu Gly Tyr Tyr Asp Cys Gly Ser Thr Asp Cys His Ala
1 5 10

<210> 749

<211> 11

<212> PRT

<213> Artificial

<220>

<223> Humanized antibody sequence

<400> 749

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

<210> 750

<211> 106

<212> PRT

<213> Artificial

<220>

<223> Humanized antibody sequence

<400> 750

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

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

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

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

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

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

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

<210> 751
<211> 660
<212> DNA
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 751
gccaagtgc tgaccagac tccatcctcc gtgtctgcag ctgtgggagg cacagtcacc 60
atcaattgcc agtccagtcc gagtgtttat agtaacaact acttatactg gtttcagcag 120
aaaccagggc agcctcccaa aggcctgata gctgatgcat ccactctggc atctggggctc 180
ccatcgcggt tcaaaggcag tggatctggg acacagttca ctctcaccat cagcggcgtg 240
cagtgtgacg atgctgccgc ttactactgt ctaggctatt atgattgtgg tagtactgat 300
tgtcatgctt tcggcggagg gaccgaggtg gtgggtcaaac gtacggtagc ggccccatct 360
gtcttcatct tcccgccatc tgatgagcag ttgaaatctg gaactgcctc tgttgtgtgc 420
ctgctgaata acttctatcc cagagaggcc aaagtacagt ggaagggtga taacgccctc 480
caatcgggta actcccagga gagtgtcaca gacgaggaca gcaaggacag cacctacagc 540
ctcagcagca ccctgacgct gagcaaagca gactacgaga aacacaaagt ctacgcctgc 600
gaagtcaccc atcagggcct gagctcgccc gtcacaaaga gcttcaacag gggagagtgt 660

<210> 752
<211> 342
<212> DNA
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 752
gccaagtgc tgaccagac tccatcctcc gtgtctgcag ctgtgggagg cacagtcacc 60
atcaattgcc agtccagtcc gagtgtttat agtaacaact acttatactg gtttcagcag 120
aaaccagggc agcctcccaa aggcctgata gctgatgcat ccactctggc atctggggctc 180
ccatcgcggt tcaaaggcag tggatctggg acacagttca ctctcaccat cagcggcgtg 240

cagtgtgacg atgctgccgc ttactactgt ctaggctatt atgattgtgg tagtactgat	300
tgtcatgctt tcggcggagg gaccgaggtg gtggtcaaac gt	342

<210> 753
 <211> 69
 <212> DNA
 <213> *Oryctolagus cuniculus*

<400> 753	
gccaagtgc tgaccagac tccatcctcc gtgtctgcag ctgtgggagg cacagtcacc	60
atcaattgc	69

<210> 754
 <211> 39
 <212> DNA
 <213> *Oryctolagus cuniculus*

<400> 754	
cagtccagtc cgagtgttta tagtaacaac tacttatcc	39

<210> 755
 <211> 45
 <212> DNA
 <213> *Oryctolagus cuniculus*

<400> 755	
tggtttcagc agaaaccagg gcagcctccc aaaggcctga tcgct	45

<210> 756
 <211> 21
 <212> DNA
 <213> *Oryctolagus cuniculus*

<400> 756	
gatgcatcca ctctggcatc t	21

<210> 757
 <211> 96
 <212> DNA
 <213> *Oryctolagus cuniculus*

<400> 757	
ggggtcccat cgcggttcaa aggagtgga tctgggacac agttcactct caccatcagc	60
ggcgtgcagt gtgacgatgc tgccgcttac tactgt	96

<210> 758
<211> 39
<212> DNA
<213> Oryctolagus cuniculus

<400> 758
ctaggctatt atgattgtgg tagtactgat tgtcatgct 39

<210> 759
<211> 33
<212> DNA
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 759
ttcggcggag ggaccgaggt ggtggtcaaa cgt 33

<210> 760
<211> 318
<212> DNA
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 760
acggtagcgg ccccatctgt cttcatcttc ccgccatctg atgagcagtt gaaatctgga 60
actgcctctg ttgtgtgcct gctgaataac ttctatccca gagaggccaa agtacagtgg 120
aaggtggata acgccctcca atcgggtaac tcccaggaga gtgtcacaga gcaggacagc 180
aaggacagca cctacagcct cagcagcacc ctgacgctga gcaaagcaga ctacgagaaa 240
cacaaagtct acgcctgcga agtcacccat cagggcctga gctcgcccgt cacaaagagc 300
ttcaacaggg gagagtgt 318

<210> 761
<211> 447
<212> PRT
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 761

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

Pro Gly Gly Ser Leu Glu Leu Cys Cys Lys Ala Ser Gly Phe Ser Leu
20 25 30

Thr Thr Ser His Trp Met Cys Trp Val Arg Gln Ala Pro Gly Lys Gly
35 40 45

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

Ala Thr Trp Val Asp Ala Gln Phe Thr Leu Ser Arg Asp Ile Asp Gln
65 70 75 80

Asn Thr Gly Cys Leu Gln Leu Asn Ser Leu Thr Pro Ala Asp Thr Ala
85 90 95

Met Tyr Tyr Cys Thr Ile Asn Phe Glu Leu Trp Gly Gln Gly Thr Leu
100 105 110

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

<210> 762
<211> 117
<212> PRT
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 762

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

Pro Gly Gly Ser Leu Glu Leu Cys Cys Lys Ala Ser Gly Phe Ser Leu
20 25 30

Thr Thr Ser His Trp Met Cys Trp Val Arg Gln Ala Pro Gly Lys Gly
35 40 45

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

Ala Thr Trp Val Asp Ala Gln Phe Thr Leu Ser Arg Asp Ile Asp Gln
65 70 75 80

Asn Thr Gly Cys Leu Gln Leu Asn Ser Leu Thr Pro Ala Asp Thr Ala
85 90 95

Met Tyr Tyr Cys Thr Ile Asn Phe Glu Leu Trp Gly Gln Gly Thr Leu
100 105 110

Val Thr Val Ser Ser
115

<210> 763
<211> 33
<212> PRT
<213> *Oryctolagus cuniculus*

<400> 763

Gln Gln Leu Glu Gln Ser Gly Gly Gly Ala Glu Gly Gly Leu Val Lys

1	5	10	15
Pro	Gly	Gly	Ser
	20	Leu	Glu
		Leu	Cys
		25	Cys
			Lys
			Ala
			Ser
			Gly
			Phe
			30
			Ser
			Leu

Thr

<210> 764
 <211> 6
 <212> PRT
 <213> Oryctolagus cuniculus
 <400> 764

Thr	Ser	His	Trp	Met	Cys
1				5	

<210> 765
 <211> 14
 <212> PRT
 <213> Oryctolagus cuniculus
 <400> 765

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

<210> 766
 <211> 17
 <212> PRT
 <213> Oryctolagus cuniculus
 <400> 766

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

Ala

<210> 767
 <211> 32
 <212> PRT
 <213> Oryctolagus cuniculus
 <400> 767

Gln Phe Thr Leu Ser Arg Asp Ile Asp Gln Asn Thr Gly Cys Leu Gln
1 5 10 15

Leu Asn Ser Leu Thr Pro Ala Asp Thr Ala Met Tyr Tyr Cys Thr Ile
20 25 30

<210> 768
<211> 4
<212> PRT
<213> *Oryctolagus cuniculus*

<400> 768

Asn Phe Glu Leu
1

<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 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> 771
<211> 1341
<212> DNA
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 771
cagcagctgg agcagtccgg aggaggagcc gaaggaggcc tgggtcaagcc tgggggatcc 60
ctggaactct gctgcaaagc ctctggattc tccctcacta cgagccactg gatgtgttgg 120
gtccgccagg ctccagggaa ggggctgaat tggattggat gcattagtgc cggtagtgg 180
gacgcagact acgcgacctg ggtggatgcc caattcactc tctccagaga catcgaccag 240
aacacaggtt gcctacaatt gaacagtctg acaccgcgg acacggccat gtattactgt 300
acgataaatt ttgagttgtg gggccaaggc accctgggtca cgtctctgag cgcctccacc 360
aaggggcccat cgggtcttccc cctggcaccc tcctccaaga gcacctctgg gggcacagcg 420
gccctgggct gcctgggtcaa ggactacttc cccgaaccgg tgacggtgtc gtggaactca 480
ggcgccctga ccagcggcgt gcacaccttc ccggctgtcc tacagtcctc aggactctac 540
tccctcagca gcgtgggtgac cgtgccctcc agcagcttgg gcacccagac ctacatctgc 600
aacgtgaatc acaagcccag caacaccaag gtggacgcga gagttgagcc caaatcttgt 660
gacaaaactc acacatgccc accgtgcccga gcacctgaac tcctgggggg accgtcagtc 720
ttcctcttcc ccccaaaacc caaggacacc ctcatgatct cccggacccc tgaggtcaca 780

tgctgtgtgg tggacgtgag ccacgaagac cctgaggtca agttcaactg gtacgtggac	840
ggcgtggagg tgcataatgc caagacaaag ccgcgggagg agcagtacgc cagcacgtac	900
cgtgtgtgtca gcgtcctcac cgtcctgcac caggactggc tgaatggcaa ggagtacaag	960
tgcaaggtct ccaacaaagc cctcccagcc cccatcgaga aaaccatctc caaagccaaa	1020
gggcagcccc gagaaccaca ggtgtacacc ctgcccccat cccgggagga gatgaccaag	1080
aaccaggtca gcctgacctg cctgggtcaaa ggcttctatc ccagcgacat cgccgtggag	1140
tgggagagca atgggcagcc ggagaacaac tacaagacca cgctcccgt gctggactcc	1200
gacggctcct tcttcctcta cagcaagctc accgtggaca agagcaggtg gcagcagggg	1260
aacgtcttct catgctccgt gatgcatgag gctctgcaca accactacac gcagaagagc	1320
ctctccctgt ctccgggtaa a	1341

<210> 772
 <211> 351
 <212> DNA
 <213> Artificial

<220>
 <223> Humanized antibody sequence

<400> 772	
cagcagctgg agcagtccgg aggaggagcc gaaggaggcc tgggtcaagcc tgggggatcc	60
ctggaactct gctgcaaagc ctctggattc tccctcacta cgagccactg gatgtgttgg	120
gtccgccagg ctccaggga ggggctgaat tggattggat gcattagtgc cggtagtggg	180
gacgcagact acgcgacctg ggtggatgcc caattcactc tctccagaga catcgaccag	240
aacacaggtt gcctacaatt gaacagtctg acacccgcgg acacggccat gtattactgt	300
acgataaatt ttgagttgtg gggccaaggc accctgggtca ccgtctcgag c	351

<210> 773
 <211> 99
 <212> DNA
 <213> *Oryctolagus cuniculus*

<400> 773	
cagcagctgg agcagtccgg aggaggagcc gaaggaggcc tgggtcaagcc tgggggatcc	60
ctggaactct gctgcaaagc ctctggattc tccctcact	99

<210> 774
 <211> 18
 <212> DNA
 <213> *Oryctolagus cuniculus*

 <400> 774
 acgagccact ggatgtgt 18

 <210> 775
 <211> 42
 <212> DNA
 <213> *Oryctolagus cuniculus*

 <400> 775
 tgggtccgcc aggctccagg gaaggggctg aattggattg ga 42

 <210> 776
 <211> 51
 <212> DNA
 <213> *Oryctolagus cuniculus*

 <400> 776
 tgcattagtgc ccggtagtgg tgacgcagac tacgcgacct gggtggatgc c 51

 <210> 777
 <211> 96
 <212> DNA
 <213> *Oryctolagus cuniculus*

 <400> 777
 caattcactc tctccagaga catcgaccag aacacagggt gcctacaatt gaacagtctg 60
 acacccgcgg acacggccat gtattactgt acgata 96

 <210> 778
 <211> 12
 <212> DNA
 <213> *Oryctolagus cuniculus*

 <400> 778
 aatthttgagt tg 12

 <210> 779
 <211> 33
 <212> DNA
 <213> Artificial

 <220>

<223> Humanized antibody sequence

<400> 779

tggggccaag gcaccctggc 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 cctgggtcaag gactacttcc ccgaaccggg gacgggtgtcg 120

tggaactcag gcgccctgac cagcggcgtg cacaccttcc cggctgtcct acagtcctca 180

ggactctact ccctcagcag cgtgggtgacc gtgccctcca gcagcttggg caccagacc 240

tacatctgca acgtgaatca caagcccagc aacaccaagg tggacgcgag agttgagccc 300

aaatcttgtg aaaaaactca cacatgccca ccgtgcccag cacctgaact cctggggggga 360

ccgtcagtct tcctcttccc cccaaaaccc aaggacaccc tcatgatctc ccggaccctt 420

gaggtcacat gcgtgggtggg ggacgtgagc cacgaagacc ctgaggtcaa gttcaactgg 480

tacgtggacg gcgtggaggt gcataatgcc aagacaaagc cgcgggagga gcagtacgcc 540

agcacgtacc gtgtgggtcag cgtcctcacc gtcctgcacc aggactggct gaatggcaag 600

gagtacaagt gcaaggcttc caacaaagcc ctcccagccc ccatcgagaa aaccatctcc 660

aaagccaaaag ggcagccccg agaaccacag gtgtacaccc tgcccccatc ccgggaggag 720

atgaccaaga accaggtcag cctgacctgc ctgggtcaaag 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> 219

<212> PRT

<213> Artificial

<220>

<223> Humanized antibody sequence

<400> 781

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

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

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

Ile Tyr Glu Ala Ser Lys Leu Ala Ser Gly Val Pro 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 Ser Asp Ala Ala Thr Tyr Tyr Cys Leu Gly Ala Tyr Asp Cys Gly
85 90 95

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

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

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

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

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

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

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

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

<210> 782
<211> 113
<212> PRT
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 782

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

Gly Thr Val Thr Ile Asn Cys Gln Ser Ser Pro Ser Val Tyr Ser Ser
20 25 30

Tyr Leu Ser Trp Phe Gln Gln Lys Pro Gly Gln Pro Pro Lys Phe Leu
35 40 45

Ile Tyr Glu Ala Ser Lys Leu Ala Ser Gly Val Pro 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 Ser Asp Ala Ala Thr Tyr Tyr Cys Leu Gly Ala Tyr Asp Cys Gly
85 90 95

Arg Thr Asp Cys His Ala Phe Gly Gly Gly Thr Glu Val Val Val Lys
100 105 110

Arg

<210> 783
<211> 23
<212> PRT
<213> Oryctolagus cuniculus

<400> 783

Ala Gln Val Leu Thr Gln Thr Pro Ser Ser Val Ser Ala Ala Val Gly
1 5 10 15

Gly Thr Val Thr Ile Asn Cys
20

<210> 784

<211> 12

<212> PRT

<213> Oryctolagus cuniculus

<400> 784

Gln Ser Ser Pro Ser Val Tyr Ser Ser Tyr Leu Ser
1 5 10

<210> 785

<211> 15

<212> PRT

<213> Oryctolagus cuniculus

<400> 785

Trp Phe Gln Gln Lys Pro Gly Gln Pro Pro Lys Phe Leu Ile Tyr
1 5 10 15

<210> 786

<211> 7

<212> PRT

<213> Oryctolagus cuniculus

<400> 786

Glu Ala Ser Lys Leu Ala Ser
1 5

<210> 787

<211> 32

<212> PRT

<213> Oryctolagus cuniculus

<400> 787

Gly Val Pro 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 Ser Asp Ala Ala Thr Tyr Tyr Cys
20 25 30

<210> 788
<211> 13
<212> PRT
<213> *Oryctolagus cuniculus*

<400> 788

Leu Gly Ala Tyr Asp Cys Gly Arg Thr Asp Cys His Ala
1 5 10

<210> 789
<211> 11
<212> PRT
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 789

Phe Gly Gly Gly Thr Glu Val Val Val Lys Arg
1 5 10

<210> 790
<211> 106
<212> PRT
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 790

Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln
1 5 10 15

Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr
20 25 30

Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser
35 40 45

Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr
50 55 60

Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys
65 70 75 80

His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro
85 90 95

Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
100 105

<210> 791
<211> 657
<212> DNA
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 791
gccaagtgc tgaccagac tccatcctcc gtgtctgcag ctgtgggagg cacagtcacc 60
atcaattgcc agtccagtcc gagtgtttat agtagctact taccctgggt tcagcagaaa 120
ccagggcagc ctccaagtt cctgatctac gaagcatcca aactggcatc tgggggtccca 180
tcgcggttca gcggcagtgg atctgggaca cagttcactc tcaccatcag cggcgtgcag 240
ttagcgcgatg ctgccactta ctactgtctt ggcgcgatg attgtgggtcg tactgattgt 300
catgctttcg gcggagggac cgagggtggtg gtcaaacgta cggtagcggc cccatctgtc 360
ttcatcttcc cgccatctga tgagcagttg aaatctggaa ctgcctctgt tgtgtgcctg 420
ctgaataact tctatcccag agaggccaaa gtacagtgga aggtggataa cgccctccaa 480
tcgggtaact cccaggagag tgtcacagag caggacagca aggacagcac ctacagcctc 540
agcagcacc tgacgctgag caaagcagac tacgagaaac acaaagtcta cgcctgcgaa 600
gtcacccatc agggcctgag ctcgcccgtc acaaagagct tcaacagggg agagtgt 657

<210> 792
<211> 339
<212> DNA
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 792
 gcccaagtgc tgaccagac tccatcctcc gtgtctgcag ctgtgggagg cacagtcacc 60
 atcaattgcc agtccagtcc gagggtttat agtagctact taccctggtt tcagcagaaa 120
 ccagggcagc ctccaagtt cctgatctac gaagcatcca aactggcatc tgggggtcca 180
 tcgcggttca gcggcagtgg atctgggaca cagttcactc tcaccatcag cggcgtgcag 240
 ttagcgcgatg ctgccactta ctactgtctt ggcgcgatg attgtggtcg tactgattgt 300
 catgctttcg gcggaggagc cgagggtggtg gtcaaactg 339

<210> 793
 <211> 69
 <212> DNA
 <213> *Oryctolagus cuniculus*

<400> 793
 gcccaagtgc tgaccagac tccatcctcc gtgtctgcag ctgtgggagg cacagtcacc 60
 atcaattgc 69

<210> 794
 <211> 36
 <212> DNA
 <213> *Oryctolagus cuniculus*

<400> 794
 cagtccagtc cgagtgttta tagtagctac ttatcc 36

<210> 795
 <211> 45
 <212> DNA
 <213> *Oryctolagus cuniculus*

<400> 795
 tggtttcagc agaaaccagg gcagcctccc aagttcctga tctac 45

<210> 796
 <211> 21
 <212> DNA
 <213> *Oryctolagus cuniculus*

<400> 796
 gaagcatcca aactggcatc t 21

<210> 797
 <211> 96

<212> DNA
 <213> *Oryctolagus cuniculus*

<400> 797
 ggggtcccat cgcggttcag cggcagtgga tctgggacac agttcactct caccatcagc 60
 ggcggtgcagt gtagcgatgc tgccacttac tactgt 96

<210> 798
 <211> 39
 <212> DNA
 <213> *Oryctolagus cuniculus*

<400> 798
 cttggcgcgt atgattgtgg tcgtactgat tgtcatgct 39

<210> 799
 <211> 33
 <212> DNA
 <213> Artificial

<220>
 <223> Humanized antibody sequence

<400> 799
 ttcggcggag ggaccgaggt ggtggtcaaa cgt 33

<210> 800
 <211> 318
 <212> DNA
 <213> Artificial

<220>
 <223> Humanized antibody sequence

<400> 800
 acggtagcgg ccccatctgt cttcatcttc ccgccatctg atgagcagtt gaaatctgga 60
 actgcctctg ttgtgtgcct gctgaataac ttctatccca gagaggccaa agtacagtgg 120
 aaggtggata acgccctcca atcgggtaac tcccaggaga gtgtcacaga gcaggacagc 180
 aaggacagca cctacagcct cagcagcacc ctgacgctga gcaaagcaga ctacgagaaa 240
 cacaaagtct acgcctgcga agtcacccat cagggcctga gctcgcccgt cacaaagagc 300
 ttcaacaggg gagagtgt 318

<210> 801
 <211> 447

<212> PRT
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 801

Gln Gln Leu Glu Gln Ser Gly Gly Gly Ala Glu Gly Gly Leu Val Lys
1 5 10 15

Pro Gly Gly Ser Leu Lys Leu Ser Cys Lys Ala Ser Gly Phe Thr Ile
20 25 30

Ser Arg Asp Tyr Trp Ile Cys Trp Val Arg Gln Ala Pro Gly Lys Gly
35 40 45

Leu Glu Trp Ile Gly Cys Ile Ser Ala Gly Gly Gly Ser Thr Asp Tyr
50 55 60

Ala Asn Trp Val Asn Gly Arg Phe Thr Leu Ser Arg Asp Ile Asp Gln
65 70 75 80

Ser Thr Gly Cys Leu Gln Leu Asn Ser Leu Thr Asp Ala Asp Thr Ala
85 90 95

Met Tyr Tyr Cys Ala Gly Asn Leu Glu Ile Trp Gly Gln Gly Thr Leu
100 105 110

Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu
115 120 125

Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys
130 135 140

Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser
145 150 155 160

Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala Val Leu Gln Ser
165 170 175

Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser
180 185 190

Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn
195 200 205

Thr Lys Val Asp Ala Arg Val Glu Pro Lys Ser Cys Asp Lys Thr His
210 215 220

Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val
225 230 235 240

Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr
245 250 255

Pro Glu Val Thr Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu
260 265 270

Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys
275 280 285

Thr Lys Pro Arg Glu Glu Gln Tyr Ala Ser Thr Tyr Arg Val Val Ser
290 295 300

Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys
305 310 315 320

Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile
325 330 335

Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro
340 345 350

Pro Ser Arg Glu Glu Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu
355 360 365

Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn
370 375 380

Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser
385 390 395 400

Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg
405 410 415

Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu
420 425 430

His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
435 440 445

<210> 802
<211> 117
<212> PRT
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 802

Gln Gln Leu Glu Gln Ser Gly Gly Gly Ala Glu Gly Gly Leu Val Lys
1 5 10 15

Pro Gly Gly Ser Leu Lys Leu Ser Cys Lys Ala Ser Gly Phe Thr Ile
20 25 30

Ser Arg Asp Tyr Trp Ile Cys Trp Val Arg Gln Ala Pro Gly Lys Gly
35 40 45

Leu Glu Trp Ile Gly Cys Ile Ser Ala Gly Gly Gly Ser Thr Asp Tyr
50 55 60

Ala Asn Trp Val Asn Gly Arg Phe Thr Leu Ser Arg Asp Ile Asp Gln
65 70 75 80

Ser Thr Gly Cys Leu Gln Leu Asn Ser Leu Thr Asp Ala Asp Thr Ala
85 90 95

Met Tyr Tyr Cys Ala Gly Asn Leu Glu Ile Trp Gly Gln Gly Thr Leu
100 105 110

Val Thr Val Ser Ser
115

<210> 803
<211> 33
<212> PRT
<213> *Oryctolagus cuniculus*

<400> 803

Gln	Gln	Leu	Glu	Gln	Ser	Gly	Gly	Gly	Ala	Glu	Gly	Gly	Leu	Val	Lys
1				5					10					15	

Pro	Gly	Gly	Ser	Leu	Lys	Leu	Ser	Cys	Lys	Ala	Ser	Gly	Phe	Thr	Ile
			20					25					30		

Ser

<210> 804
<211> 6
<212> PRT
<213> *Oryctolagus cuniculus*

<400> 804

Arg	Asp	Tyr	Trp	Ile	Cys
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> 17
<212> PRT
<213> *Oryctolagus cuniculus*

<400> 806

Cys	Ile	Ser	Ala	Gly	Gly	Gly	Ser	Thr	Asp	Tyr	Ala	Asn	Trp	Val	Asn
1				5					10					15	

Gly

<210> 807
<211> 32
<212> PRT
<213> *Oryctolagus cuniculus*

<400> 807

Arg	Phe	Thr	Leu	Ser	Arg	Asp	Ile	Asp	Gln	Ser	Thr	Gly	Cys	Leu	Gln
1				5					10					15	

Leu	Asn	Ser	Leu	Thr	Asp	Ala	Asp	Thr	Ala	Met	Tyr	Tyr	Cys	Ala	Gly
			20					25					30		

<210> 808
<211> 4
<212> PRT
<213> *Oryctolagus cuniculus*

<400> 808

Asn	Leu	Glu	Ile
1			

<210> 809
<211> 11
<212> PRT
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 809

Trp	Gly	Gln	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 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> 811
<211> 1341
<212> DNA
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 811
cagcagctgg agcagtccgg aggaggagcc gaaggaggcc tgggtcaagcc tgggggatcc 60
ctgaaactct cctgcaaagc ctctggattc accatcagta gggactactg gatatgttgg 120
gtccgccagg ctccagggaa ggggctggag tggattggat gcattagtgc tgggtggtggt 180
agcacagact acgcgaactg ggtgaatggc cgattcactc tctccagaga catcgaccag 240
agcacagggt gccttcaact gaacagtctg acagacgcgg acacggccat gtattactgt 300
gcgggaaatc tagagatctg gggccaaggg accctgggtca ccgtctcgag cgcctccacc 360
aaggggcccat cgggtcttccc cctggcacc cctccaaga gcacctctgg gggcacagcg 420
gccctgggct gcctggtcaa ggactacttc cccgaaccgg tgacggtgtc gtggaactca 480
ggcgccctga ccagcggcgt gcacaccttc ccggctgtcc tacagtcctc aggactctac 540

tccctcagca gcgtggtgac cgtgccctcc agcagcttgg gcacccagac ctacatctgc	600
aacgtgaatc acaagcccag caacaccaag gtggacgcga gagttgagcc caaatcttgt	660
gacaaaactc acacatgccc accgtgcccga gcacctgaac tcctgggggg accgtcagtc	720
ttcctcttcc ccccaaaacc caaggacacc ctcatgatct cccggacccc tgaggtcaca	780
tgcgtggtgg tggacgtgag ccacgaagac cctgaggtca agttcaactg gtacgtggac	840
ggcgtggagg tgcataatgc caagacaaag ccgcgggagg agcagtacgc cagcacgtac	900
cgtgtggtca gcgtcctcac cgtcctgcac caggactggc tgaatggcaa ggagtacaag	960
tgcaaggtct ccaacaaagc cctcccagcc cccatcgaga aaaccatctc caaagccaaa	1020
gggcagcccc gagaaccaca ggtgtacacc ctgcccccat cccgggagga gatgaccaag	1080
aaccaggtca gcctgacctg cctggtcaaa ggcttctatc ccagcgacat cgccgtggag	1140
tgggagagca atgggcagcc ggagaacaac tacaagacca cgctcccgt gctggactcc	1200
gacggctcct tcttctcta cagcaagctc accgtggaca agagcaggtg gcagcagggg	1260
aacgtcttct catgctccgt gatgcatgag gctctgcaca accactacac gcagaagagc	1320
ctctccctgt ctccgggtaa a	1341

<210> 812
 <211> 351
 <212> DNA
 <213> Artificial

<220>
 <223> Humanized antibody sequence

<400> 812	
cagcagctgg agcagtccgg aggaggagcc gaaggaggcc tgggtcaagcc tgggggatcc	60
ctgaaactct cctgcaaagc ctctggattc accatcagta gggactactg gatatgttgg	120
gtccgccagg ctccaggga ggggctggag tggattggat gcattagtgc tgggtggtgt	180
agcacagact acgcgaactg ggtgaatggc cgattcactc tctccagaga catcgaccag	240
agcacagggt gccttcaact gaacagtctg acagacgcgg acacggccat gtattactgt	300
gcgggaaatc tagagatctg gggccaaggg accctggtca ccgtctcgag c	351

<210> 813
 <211> 99

<212> DNA
 <213> *Oryctolagus cuniculus*

<400> 813
 cagcagctgg agcagtccgg aggaggagcc gaaggaggcc tgggtcaagcc tgggggatcc 60
 ctgaaactct cctgcaaagc ctctggattc accatcagt 99

<210> 814
 <211> 18
 <212> DNA
 <213> *Oryctolagus cuniculus*

<400> 814
 agggactact ggatatgt 18

<210> 815
 <211> 42
 <212> DNA
 <213> *Oryctolagus cuniculus*

<400> 815
 tgggtccgcc aggctccagg gaaggggctg gagtggattg ga 42

<210> 816
 <211> 51
 <212> DNA
 <213> *Oryctolagus cuniculus*

<400> 816
 tgcattagtg ctggtggtgg tagcacagac tacgcgaact gggatgaatgg c 51

<210> 817
 <211> 96
 <212> DNA
 <213> *Oryctolagus cuniculus*

<400> 817
 cgattcactc tctccagaga catcgaccag agcacagggt gccttcaact gaacagtctg 60
 acagacgcgg acacggccat gtattactgt gcggga 96

<210> 818
 <211> 12
 <212> DNA
 <213> *Oryctolagus cuniculus*

<400> 818
 aatctagaga tc 12

<210> 819
<211> 33
<212> DNA
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 819
tggggccaag ggaccctggg 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 cctgggtcaag gactacttcc ccgaaccggg gacgggtgtcg 120
tggaactcag gcgccctgac cagcggcgtg cacaccttcc cggctgtcct acagtcctca 180
ggactctact ccctcagcag cgtgggtgacc gtgccctcca gcagcttggg caccagacc 240
tacatctgca acgtgaatca caagcccagc aacaccaagg tggacgcgag agttgagccc 300
aaatcttgtg acaaaaactca cacatgcccc ccgtgcccag cacctgaact cctggggggga 360
ccgtcagtct tcctcttccc cccaaaaccc aaggacaccc tcatgatctc ccggaccctt 420
gaggtcacat gcgtgggtgg ggacgtgagc cacgaagacc ctgaggtcaa gttcaactgg 480
tacgtggacg gcgtggaggt gcataatgcc aagacaaagc cgcgggagga gcagtacgcc 540
agcacgtacc gtgtgggtcag cgtcctcacc gtcctgcacc aggactggct gaatggcaag 600
gagtacaagt gcaaggtctc caacaaagcc ctcccagccc ccatcgagaa aaccatctcc 660
aaagccaaag ggagccccg agaaccacag gtgtacaccc tgccccatc ccgggaggag 720
atgaccaaga accaggtcag cctgacctgc ctgggtcaaag 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> 220
<212> PRT
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 821

Ala Gln Val Leu Thr Gln Thr Pro Ser Ser Val Ser Ala Ala Val Gly
1 5 10 15

Gly Thr Val Thr Ile Asn Cys Gln Ser Ser Pro Ser Ile Tyr Ser Gly
20 25 30

Ala Phe Leu Ser Trp Phe Gln Gln Lys Pro Gly Gln Pro Pro Lys Phe
35 40 45

Leu Ile Tyr Glu Ala Ser Lys Leu Ala Ser Gly Val Pro Ser Arg Phe
50 55 60

Ser Gly Ser Gly Ser Gly Thr Gln Phe Thr Leu Thr Ile Ser Asp Val
65 70 75 80

Gln Cys Asp Asp Ala Ala Thr Tyr Tyr Cys Leu Gly Phe Tyr Asp Cys
85 90 95

Ser Ser Val Asp Cys His Ala 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> 822
<211> 114
<212> PRT
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 822

Ala Gln Val Leu Thr Gln Thr Pro Ser Ser Val Ser Ala Ala Val Gly
1 5 10 15

Gly Thr Val Thr Ile Asn Cys Gln Ser Ser Pro Ser Ile Tyr Ser Gly
20 25 30

Ala Phe Leu Ser Trp Phe Gln Gln Lys Pro Gly Gln Pro Pro Lys Phe
35 40 45

Leu Ile Tyr Glu Ala Ser Lys Leu Ala Ser Gly Val Pro Ser Arg Phe
50 55 60

Ser Gly Ser Gly Ser Gly Thr Gln Phe Thr Leu Thr Ile Ser Asp Val
65 70 75 80

Gln Cys Asp Asp Ala Ala Thr Tyr Tyr Cys Leu Gly Phe Tyr Asp Cys
85 90 95

Ser Ser Val Asp Cys His Ala Phe Gly Gly Gly Thr Glu Val Val Val
100 105 110

Lys Arg

<210> 823
<211> 23
<212> PRT
<213> Oryctolagus cuniculus

<400> 823

Ala	Gln	Val	Leu	Thr	Gln	Thr	Pro	Ser	Ser	Val	Ser	Ala	Ala	Val	Gly
1				5					10					15	

Gly Thr Val Thr Ile Asn Cys
20

<210> 824
<211> 13
<212> PRT
<213> Oryctolagus cuniculus

<400> 824

Gln	Ser	Ser	Pro	Ser	Ile	Tyr	Ser	Gly	Ala	Phe	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

Glu	Ala	Ser	Lys	Leu	Ala	Ser
1				5		

<210> 827
<211> 32

<212> PRT
<213> *Oryctolagus cuniculus*

<400> 827

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 Val Gln Cys Asp Asp Ala Ala Thr Tyr Tyr Cys
20 25 30

<210> 828
<211> 13
<212> PRT
<213> *Oryctolagus cuniculus*

<400> 828

Leu Gly Phe Tyr Asp Cys Ser Ser Val Asp Cys His Ala
1 5 10

<210> 829
<211> 11
<212> PRT
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 829

Phe Gly Gly Gly Thr Glu Val Val Val Lys Arg
1 5 10

<210> 830
<211> 106
<212> PRT
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 830

Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln
1 5 10 15

Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr
20 25 30

Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser
35 40 45

Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr
50 55 60

Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys
65 70 75 80

His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro
85 90 95

Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
100 105

<210> 831
<211> 660
<212> DNA
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 831
gccaagtgc tgaccagac tccatcctcc gtgtctgcag ctgtgggagg cacagtcacc 60
atcaattgcc agtccagtcc gagtatttat agtggcgcct ttttatcctg gtttcagcag 120
aaaccagggc agcctcccaa gttcctgatc tacgaagcct ccaaactggc atctgggggtc 180
ccatcgcggt tcagtggcag tggatctggg acacagttca ctctcaccat cagcgacgta 240
cagtgtgacg atgctgccac ttactactgt ctaggctttt atgattgtag cagtgttgat 300
tgccatgctt tcggcggagg gaccgaggtg gtgggtcaaac gtacggtagc ggccccatct 360
gtcttcatct tccgccatc 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> 832
<211> 342
<212> DNA
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 832
gccaagtgc tgaccagac tccatcctcc gtgtctgcag ctgtgggagg cacagtcacc 60
atcaattgcc agtccagtcc gagtatttat agtggcgctt ttttatcctg gtttcagcag 120
aaaccagggc agcctcccaa gttcctgac tacgaagcct ccaaactggc atctggggtc 180
ccatcgcggt tcagtggcag tggatctggg acacagttca ctctcaccat cagcgacgta 240
cagtgtgacg atgctgccac ttactactgt ctaggctttt atgattgtag cagtgttgat 300
tgccatgctt tcggcggagg gaccgaggtg gtggtcaaac gt 342

<210> 833
<211> 69
<212> DNA
<213> *Oryctolagus cuniculus*

<400> 833
gccaagtgc tgaccagac tccatcctcc gtgtctgcag ctgtgggagg cacagtcacc 60
atcaattgc 69

<210> 834
<211> 39
<212> DNA
<213> *Oryctolagus cuniculus*

<400> 834
cagtcagtc cgagtattta tagtggcgcc tttttatcc 39

<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
 gaagcctcca aactggcatc t 21

<210> 837
 <211> 96
 <212> DNA
 <213> Oryctolagus cuniculus

<400> 837
 ggggtcccat cgcggttcag tggcagtgga tctgggacac agttcactct caccatcagc 60
 gacgtacagt gtgacgatgc tgccacttac tactgt 96

<210> 838
 <211> 39
 <212> DNA
 <213> Oryctolagus cuniculus

<400> 838
 ctaggctttt atgattgtag cagtgttgat tgccatgct 39

<210> 839
 <211> 33
 <212> DNA
 <213> Artificial

<220>
 <223> Humanized antibody sequence

<400> 839
 ttcggcggag ggaccgaggt ggtggtcaaa cgt 33

<210> 840
 <211> 318
 <212> DNA
 <213> Artificial

<220>
 <223> Humanized antibody sequence

<400> 840
 acggtagcgg ccccatctgt cttcatcttc ccgccatctg atgagcagtt gaaatctgga 60
 actgcctctg ttgtgtgcct gctgaataac ttctatccca gagaggccaa agtacagtgg 120
 aaggtggata acgccctcca atcgggtaac tcccaggaga gtgtcacaga gcaggacagc 180
 aaggacagca cctacagcct cagcagcacc ctgacgctga gcaaagcaga ctacgagaaa 240

cacaaagtct acgcctgcga agtcacccat cagggcctga gctcgcccgt cacaaagagc 300

ttcaacaggg gagagtgt 318

<210> 841

<400> 841
000

<210> 842

<400> 842
000

<210> 843

<400> 843
000

<210> 844

<400> 844
000

<210> 845

<400> 845
000

<210> 846

<400> 846
000

<210> 847

<400> 847
000

<210> 848

<400> 848
000

<210> 849

<400> 849
000

<210> 850

<400> 850

000

<210> 851

<400> 851
000

<210> 852

<400> 852
000

<210> 853

<400> 853
000

<210> 854

<400> 854
000

<210> 855

<400> 855
000

<210> 856

<400> 856
000

<210> 857

<400> 857
000

<210> 858

<400> 858
000

<210> 859

<400> 859
000

<210> 860

<400> 860
000

<210> 861

<400> 861
000

<210> 862

<400> 862
000

<210> 863

<400> 863
000

<210> 864

<400> 864
000

<210> 865

<400> 865
000

<210> 866

<400> 866
000

<210> 867

<400> 867
000

<210> 868

<400> 868
000

<210> 869

<400> 869
000

<210> 870

<400> 870
000

<210> 871

<400> 871
000

<210> 872

<400> 872
000

<210> 873

<400> 873
000

<210> 874

<400> 874
000

<210> 875

<400> 875
000

<210> 876

<400> 876
000

<210> 877

<400> 877
000

<210> 878

<400> 878
000

<210> 879

<400> 879
000

<210> 880

<400> 880
000

<210> 881
<211> 442
<212> PRT
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 881

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 Asp Phe Ser Ser Asn
20 25 30

Ala Met Cys Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Ile
35 40 45

Gly Ser Ile Tyr Asn Ala Asp Gly Lys Asn Tyr Tyr Ala Ile 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

Arg Asp Phe Asp Leu Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
100 105 110

Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser Lys
115 120 125

Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr
130 135 140

Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser
145 150 155 160

Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser
165 170 175

Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr
180 185 190

Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Ala
195 200 205

Arg Val Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys

210

215

220

Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro
 225 230 235 240

Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys
 245 250 255

Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp
 260 265 270

Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu
 275 280 285

Glu Gln Tyr Ala Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu
 290 295 300

His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn
 305 310 315 320

Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly
 325 330 335

Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu
 340 345 350

Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr
 355 360 365

Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn
 370 375 380

Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe
 385 390 395 400

Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn
 405 410 415

Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr
 420 425 430

Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
435 440

<210> 882
<211> 112
<212> PRT
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 882

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 Asp Phe Ser Ser Asn
20 25 30

Ala Met Cys Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Ile
35 40 45

Gly Ser Ile Tyr Asn Ala Asp Gly Lys Asn Tyr Tyr Ala Ile 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

Arg Asp Phe Asp Leu Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
100 105 110

<210> 883
<211> 30
<212> PRT
<213> *Oryctolagus cuniculus*

<400> 883

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 Asp Phe Ser
20 25 30

<210> 884
<211> 5
<212> PRT
<213> Oryctolagus cuniculus

<400> 884

Ser Asn Ala 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 Gly
1 5 10

<210> 886
<211> 17
<212> PRT
<213> Oryctolagus cuniculus

<400> 886

Ser Ile Tyr Asn Ala Asp Gly Lys Asn Tyr Tyr Ala Ile Trp Ala Lys
1 5 10 15

Gly

<210> 887
<211> 31
<212> PRT
<213> Oryctolagus cuniculus

<400> 887

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 Arg
20 25 30

<210> 888
<211> 4
<212> PRT
<213> *Oryctolagus cuniculus*

<400> 888

Asp Phe Asp Leu
1

<210> 889
<211> 11
<212> PRT
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 889

Trp Gly Gln 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 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> 891
 <211> 1326
 <212> DNA
 <213> Artificial

<220>
 <223> Humanized antibody sequence

<400> 891
 caggagcagc tgggtggagtc cgggggaggc ctggtccagc ctgagggatc cctgacactc 60
 acctgcacag cctctggatt cgacttcagt agcaatgcaa tgtgctgggt ccgccaggct 120
 ccagggaagg gcctggagtg gatcggatcc atttataatg ctgatggtaa gaattattac 180
 gcgatttggg cgaaaggccg attcaccatc tccagaacct cgtcgaccac ggtgactctg 240
 caaatgacca gtctgacagc cgcggacacg gccacctatt tctgtgagag agactttgac 300
 ttgtggggcc agggcaccct cgtcaccgtc tcgagcgcct ccaccaaggg cccatcggtc 360
 ttccccctgg caccctcctc caagagcacc tctgggggca cagcggccct gggctgcctg 420
 gtcaaggact acttccccga accggtgacg gtgtcgtgga actcaggcgc cctgaccagc 480
 ggcgtgcaca ctttcccggc tgtcctacag tcctcaggac tctactcct cagcagcgtg 540
 gtgaccgtgc cctccagcag cttgggcacc cagacctaca tctgcaacgt gaatcacaa 600
 cccagcaaca ccaaggtgga cgcgagagtt gagcccaaatt cttgtgacaa aactcacaca 660
 tgcccaccgt gcccagcacc tgaactcctg gggggaccgt cagtcttcct cttccccca 720
 aaaccaagg acaccctcat gatctcccgg acccctgagg tcacatgcgt ggtggtggac 780
 gtgagccacg aagaccctga ggtcaagttc aactggtacg tggacggcgt ggaggtgcat 840
 aatgccaaga caaagccgcg ggaggagcag tacgccagca cgtaccgtgt ggtcagcgtc 900
 ctcaccgtcc tgcaccagga ctggctgaat ggcaaggagt acaagtgcaa ggtctccaac 960

aaagccctcc cagcccccat cgagaaaacc atctccaaag ccaaaggga gccccgagaa	1020
ccacaggtgt acaccctgcc cccatcccgg gaggagatga ccaagaacca ggtcagcctg	1080
acctgcctgg tcaaaggctt ctatcccagc gacatcgccg tggagtggga gagcaatggg	1140
cagccggaga acaactacaa gaccacgcct cccgtgctgg actccgacgg ctccttcttc	1200
ctctacagca agctcaccgt ggacaagagc aggtggcagc aggggaacgt cttctcatgc	1260
tccgtgatgc atgaggctct gcacaaccac tacacgcaga agagcctctc cctgtctccg	1320
ggtaaa	1326

<210> 892
 <211> 336
 <212> DNA
 <213> Artificial

<220>
 <223> Humanized antibody sequence

<400> 892	
caggagcagc tggaggagtc cgggggaggc ctggtccagc ctgagggatc cctgacactc	60
acctgcacag cctctggatt cgacttcagt agcaatgcaa tgtgctgggt ccgccaggct	120
ccagggaagg gcctggagtg gatcggatcc atttataatg ctgatggtaa gaattattac	180
gcgatttggg cgaaaggccg attcaccatc tccagaacct cgtcgaccac ggtgactctg	240
caaatgacca gtctgacagc cgcggacacg gccacctatt tctgtgagag agactttgac	300
ttgtggggcc agggcaccct cgtcaccgtc tcgagc	336

<210> 893
 <211> 90
 <212> DNA
 <213> *Oryctolagus cuniculus*

<400> 893	
caggagcagc tggaggagtc cgggggaggc ctggtccagc ctgagggatc cctgacactc	60
acctgcacag cctctggatt cgacttcagt	90

<210> 894
 <211> 15
 <212> DNA
 <213> *Oryctolagus cuniculus*

<400> 894

agcaatgcaa tgtgc 15

<210> 895
<211> 42
<212> DNA
<213> Oryctolagus cuniculus

<400> 895
tgggtccgcc aggctccagg gaagggcctg gagtggatcg ga 42

<210> 896
<211> 51
<212> DNA
<213> Oryctolagus cuniculus

<400> 896
tccatttata atgctgatgg taagaattat tacgcgattt gggcgaaagg c 51

<210> 897
<211> 93
<212> DNA
<213> Oryctolagus cuniculus

<400> 897
cgattcacca tctccagaac ctcgtcgacc acggtgactc tgcaaatgac cagtctgaca 60

gccgcggaca cggccaccta tttctgtgcg aga 93

<210> 898
<211> 12
<212> DNA
<213> Oryctolagus cuniculus

<400> 898
gactttgact tg 12

<210> 899
<211> 33
<212> DNA
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 899
tggggccagg gcaccctcgt 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 cctgggtcaag gactacttcc ccgaaccggt gacgggtgtcg 120
tggaactcag gcgccctgac cagcggcgtg cacaccttcc cggctgtcct acagtcctca 180
ggactctact ccctcagcag cgtgggtgacc gtgccctcca gcagcttggg caccagacc 240
tacatctgca acgtgaatca caagcccagc aacaccaagg tggacgcgag agttgagccc 300
aaatcttgtg acaaaaactca cacatgcccc ccgtgcccag cacctgaact cctgggggga 360
ccgtcagtct tcctcttccc cccaaaaccc aaggacaccc tcatgatctc ccggaccctt 420
gaggtcacat gcgtgggtgt ggacgtgagc cacgaagacc ctgaggtcaa gttcaactgg 480
tacgtggacg gcgtggaggt gcataatgcc aagacaaagc cgcgggagga gcagtacgcc 540
agcacgtacc gtgtgggtcag cgtcctcacc gtcctgcacc aggactggct gaatggcaag 600
gagtacaagt gcaaggctct caacaaagcc ctcccagccc ccatcgagaa aaccatctcc 660
aaagccaaag ggcagccccg agaaccacag gtgtacaccc tgcccccatc ccgggaggag 720
atgaccaaga accaggtcag cctgacctgc ctgggtcaaag 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> 219
<212> PRT
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 901

Ala Ala Val Leu Thr Gln Thr Pro Ser Pro Val Ser Ala Ala Val Gly

1	5	10	15
Gly Thr Val Thr Ile Asn Cys Gln Ser Ser Gln Ser Val Tyr Asp Asn	20	25	30
Asp Trp Leu Ala Trp Phe Gln Gln Lys Pro Gly Gln Pro Pro Lys Leu	35	40	45
Leu Ile Tyr Leu Thr Ser Thr Leu Ala Ser Gly Val Pro Ser Arg Phe	50	55	60
Ser Gly Ser Gly Ser Gly Thr Gln Phe Thr Leu Thr Ile Ser Gly Val	65	70	75
Gln Cys Asp Asp Ala Ala Thr Tyr Tyr Cys Leu Gly Gly Tyr Asp Glu	85	90	95
Asp Gly Asp Thr His Val Phe Gly Gly Gly Thr Glu Val Val Val Lys	100	105	110
Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu	115	120	125
Gln Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe	130	135	140
Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln	145	150	155
Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser	165	170	175
Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu	180	185	190
Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser	195	200	205
Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys	210	215	

<210> 902
<211> 113
<212> PRT
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 902

Ala Ala Val Leu Thr Gln Thr Pro Ser Pro Val Ser Ala Ala Val Gly
1 5 10 15

Gly Thr Val Thr Ile Asn Cys Gln Ser Ser Gln Ser Val Tyr Asp Asn
20 25 30

Asp Trp Leu Ala Trp Phe Gln Gln Lys Pro Gly Gln Pro Pro Lys Leu
35 40 45

Leu Ile Tyr Leu Thr Ser Thr Leu Ala Ser Gly Val Pro Ser Arg Phe
50 55 60

Ser Gly Ser Gly Ser Gly Thr Gln Phe Thr Leu Thr Ile Ser Gly Val
65 70 75 80

Gln Cys Asp Asp Ala Ala Thr Tyr Tyr Cys Leu Gly Gly Tyr Asp Glu
85 90 95

Asp Gly Asp Thr His Val Phe Gly Gly Gly Thr Glu Val Val Val Lys
100 105 110

Arg

<210> 903
<211> 23
<212> PRT
<213> *Oryctolagus cuniculus*

<400> 903

Ala Ala Val Leu Thr Gln Thr Pro Ser Pro Val Ser Ala Ala Val Gly
1 5 10 15

Gly Thr Val Thr Ile Asn Cys
20

<210> 904
<211> 13
<212> PRT
<213> *Oryctolagus cuniculus*

<400> 904

Gln Ser Ser Gln Ser Val Tyr Asp Asn Asp Trp Leu Ala
1 5 10

<210> 905
<211> 15
<212> PRT
<213> *Oryctolagus cuniculus*

<400> 905

Trp Phe 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

Leu Thr Ser Thr Leu Ala Ser
1 5

<210> 907
<211> 32
<212> PRT
<213> *Oryctolagus cuniculus*

<400> 907

Gly Val Pro 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> 908
<211> 12

<212> PRT
<213> *Oryctolagus cuniculus*

<400> 908

Leu Gly Gly Tyr Asp Glu Asp Gly Asp Thr His Val
1 5 10

<210> 909
<211> 11
<212> PRT
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 909

Phe Gly Gly Gly Thr Glu Val Val Val Lys Arg
1 5 10

<210> 910
<211> 106
<212> PRT
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 910

Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln
1 5 10 15

Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr
20 25 30

Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser
35 40 45

Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr
50 55 60

Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys
65 70 75 80

His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro

Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
100 105

<210> 911
<211> 657
<212> DNA
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 911
gcagccgtgc tgaccagac accatcgccc gtgtctgcag ctgtgggagg cacagtcacc 60
atcaattgcc agtccagtca gagggtttat gataacgact ggtagcctg gttccagcag 120
aaaccagggc agcctccaa gctcctgac tatctgacat ccactctggc atctggagtc 180
ccatcgcggt tcagcggcag tggatctggg acacagttca ctctcaccat cagtgggtgtg 240
cagtgtgacg atgctgccac ttactactgt ctaggcggct atgatgaaga tggtagatag 300
catgttttcg gcggagggac cgagggtgtg gtcaaacgta cggtagcggc cccatctgtc 360
ttcatcttcc cgccatctga tgagcagttg aaatctggaa ctgcctctgt tgtgtgcctg 420
ctgaataact tctatcccag agaggccaaa gtacagtgga aggtggataa cgccctccaa 480
tcgggtaact cccaggagag tgtcacagag caggacagca aggacagcac ctacagcctc 540
agcagcacc tgacgctgag caaagcagac tacgagaaac acaaagtcta cgcctgcgaa 600
gtcaccatc agggcctgag ctgcccgtc acaaagagct tcaacagggg agagtgt 657

<210> 912
<211> 339
<212> DNA
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 912
gcagccgtgc tgaccagac accatcgccc gtgtctgcag ctgtgggagg cacagtcacc 60
atcaattgcc agtccagtca gagggtttat gataacgact ggtagcctg gttccagcag 120
aaaccagggc agcctccaa gctcctgac tatctgacat ccactctggc atctggagtc 180

ccatcgcggt tcagcggcag tggatctggg acacagttca ctctcaccat cagtgggtgtg	240
cagtgtgacg atgctgccac ttactactgt ctaggcggct atgatgaaga tggtgatacg	300
catgttttcg gcggagggac cgaggtggtg gtcaaacgt	339

<210> 913
 <211> 69
 <212> DNA
 <213> *Oryctolagus cuniculus*

<400> 913	
gcagccgtgc tgaccagac accatcgccc gtgtctgcag ctgtgggagg cacagtcacc	60
atcaattgc	69

<210> 914
 <211> 39
 <212> DNA
 <213> *Oryctolagus cuniculus*

<400> 914	
cagtccagtc agagtgttta tgataacgac tggttagcc	39

<210> 915
 <211> 45
 <212> DNA
 <213> *Oryctolagus cuniculus*

<400> 915	
tggttccagc agaaaccagg gcagcctccc aagctcctga tctat	45

<210> 916
 <211> 21
 <212> DNA
 <213> *Oryctolagus cuniculus*

<400> 916	
ctgacatcca ctctggcatc t	21

<210> 917
 <211> 96
 <212> DNA
 <213> *Oryctolagus cuniculus*

<400> 917	
ggagtcccat cgcggttcag cggcagtgga tctgggacac agttcactct caccatcagt	60
ggtgtgcagt gtgacgatgc tgccacttac tactgt	96

<210> 918
 <211> 36
 <212> DNA
 <213> *Oryctolagus cuniculus*

 <400> 918
 ctaggcggct atgatgaaga tggatgatac catgtt 36

 <210> 919
 <211> 33
 <212> DNA
 <213> Artificial

 <220>
 <223> Humanized antibody sequence

 <400> 919
 ttcggcggag ggaccgaggt ggtggtcaaa cgt 33

 <210> 920
 <211> 318
 <212> DNA
 <213> Artificial

 <220>
 <223> Humanized antibody sequence

 <400> 920
 acggtagcgg ccccatctgt cttcatcttc ccgcatctg atgagcagtt gaaatctgga 60
 actgcctctg ttgtgtgcct gctgaataac ttctatccca gagaggccaa agtacagtgg 120
 aaggtggata acgccctcca atcgggtaac tcccaggaga gtgtcacaga gcaggacagc 180
 aaggacagca cctacagcct cagcagcacc ctgacgctga gcaaagcaga ctacgagaaa 240
 cacaaagtct acgcctgcga agtcacccat cagggcctga gctcgcccgt caciaagagc 300
 ttcaacaggg gagagtgt 318

 <210> 921
 <211> 447
 <212> PRT
 <213> Artificial

 <220>
 <223> Humanized antibody sequence

 <400> 921

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 Asn Asn 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 Met Gly Val Asn Asp Ile 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 Glu Asp Thr Ala Thr Tyr Phe Cys Thr Arg Glu Ile
85 90 95

Arg Asp Asp Gly Asp Ser Ser Asp Lys Leu Trp Gly Pro Gly Thr Leu
100 105 110

Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu
115 120 125

Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys
130 135 140

Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser
145 150 155 160

Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala Val Leu Gln Ser
165 170 175

Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser
180 185 190

Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn
195 200 205

Thr Lys Val Asp Ala Arg Val Glu Pro Lys Ser Cys Asp Lys Thr His

210

215

220

Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val
 225 230 235 240

Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr
 245 250 255

Pro Glu Val Thr Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu
 260 265 270

Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys
 275 280 285

Thr Lys Pro Arg Glu Glu Gln Tyr Ala Ser Thr Tyr Arg Val Val Ser
 290 295 300

Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys
 305 310 315 320

Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile
 325 330 335

Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro
 340 345 350

Pro Ser Arg Glu Glu Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu
 355 360 365

Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn
 370 375 380

Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser
 385 390 395 400

Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg
 405 410 415

Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu
 420 425 430

His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
435 440 445

<210> 922
<211> 117
<212> PRT
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 922

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 Asn Asn 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 Met Gly Val Asn Asp Ile 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 Glu Asp Thr Ala Thr Tyr Phe Cys Thr Arg Glu Ile
85 90 95

Arg Asp Asp Gly Asp Ser Ser Asp Lys Leu Trp Gly Pro Gly Thr Leu
100 105 110

Val Thr Val Ser Ser
115

<210> 923
<211> 29
<212> PRT
<213> *Oryctolagus cuniculus*

<400> 923

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 Asn
20 25

<210> 924
<211> 5
<212> PRT
<213> *Oryctolagus cuniculus*

<400> 924

Asn Tyr Ala Met Ser
1 5

<210> 925
<211> 14
<212> PRT
<213> *Oryctolagus cuniculus*

<400> 925

Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Ile Gly
1 5 10

<210> 926
<211> 16
<212> PRT
<213> *Oryctolagus cuniculus*

<400> 926

Ile Met Gly Val Asn Asp Ile Thr Tyr Tyr Ala Ser Trp Ala Lys Gly
1 5 10 15

<210> 927
<211> 30
<212> PRT
<213> *Oryctolagus cuniculus*

<400> 927

Arg Phe Thr Ile Ser Lys Thr Ser Thr Thr Val Asp Leu Lys Met Thr
1 5 10 15

Ser Leu Thr Thr Glu Asp Thr Ala Thr Tyr Phe Cys Thr Arg
20 25 30

<210> 928
<211> 12
<212> PRT
<213> *Oryctolagus cuniculus*

<400> 928

Glu Ile Arg Asp Asp Gly Asp Ser Ser Asp Lys 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 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> 931
 <211> 1341
 <212> DNA
 <213> Artificial

<220>
 <223> Humanized antibody sequence

<400> 931
 cagtcggtgg aggagtccgg gggtcgcctg gtcacgcctg ggacaccct gacactcacc 60
 tgcaccgtct ctggattctc cctcaataac tatgcaatga gctgggtccg ccaggctcca 120
 gggaaggggc tggaatggat cggaatcatg ggtgttaatg atatcacata ctacgcgagc 180
 tgggcgaaag gccgattcac catctccaaa acctcgacca cgggtgatct gaaaatgacc 240
 agtctgacaa ccgaggacac ggccacctat ttctgtacta gagagatccg tgatgatggt 300
 gatagttctg ataagttgtg gggcccgggc accctcgtca ccgtctcgag cgcctccacc 360
 aaggggccat cggctcttccc cctggcacc cctccaaga gcacctctgg gggcacagcg 420
 gccctgggct gcctgggtcaa ggactacttc cccgaaccgg tgacggtgtc gtggaactca 480
 ggcgcccctga ccagcggcgt gcacaccttc ccggctgtcc tacagtcctc aggactctac 540
 tccctcagca gcgtgggtgac cgtgccctcc agcagcttgg gcacccagac ctacatctgc 600
 aacgtgaatc acaagcccag caacaccaag gtggacgcga gagttgagcc caaatcttgt 660
 gacaaaactc acacatgccc accgtgcca gcacctgaac tcctgggggg accgtcagtc 720
 ttctcttcc ccccaaaacc caaggacacc ctcatgatct cccggacccc tgaggtcaca 780
 tgcgtgggtg tggacgtgag ccacgaagac cctgaggtca agttcaactg gtacgtggac 840
 ggcgtggagg tgcataatgc caagacaaag ccgcgggagg agcagtacgc cagcacgtac 900
 cgtgtgggtca gcgtcctcac cgtcctgcac caggactggc tgaatggcaa ggagtacaag 960

tgcaaggtct ccaacaaagc cctcccagcc cccatcgaga aaaccatctc caaagccaaa	1020
gggcagcccc gagaaccaca ggtgtacacc ctgcccccat cccgggagga gatgaccaag	1080
aaccaggtca gcctgacctg cctgggtcaaa ggctttctatc ccagcgacat cgccgtggag	1140
tgggagagca atgggcagcc ggagaacaac tacaagacca cgcctcccgt gctggactcc	1200
gacggctcct tcttcctcta cagcaagctc accgtggaca agagcaggtg gcagcagggg	1260
aacgtcttct catgctccgt gatgcatgag gctctgcaca accactacac gcagaagagc	1320
ctctccctgt ctccgggtaa a	1341

<210> 932
 <211> 351
 <212> DNA
 <213> Artificial

<220>
 <223> Humanized antibody sequence

<400> 932	
cagtcggtgg aggagtccgg gggtcgcctg gtcacgcctg ggacaccct gacactcacc	60
tgcaccgtct ctggattctc cctcaataac tatgcaatga gctgggtccg ccaggctcca	120
gggaaggggc tggaatggat cggaatcatg ggtgttaatg atatcacata ctacgcgagc	180
tgggcgaaag gccgattcac catctccaaa acctcgacca cgggtgatct gaaaatgacc	240
agtctgacaa ccgaggacac ggccacctat ttctgtacta gagagatccg tgatgatggt	300
gatagtcttg ataagttgtg gggtccgggc accctcgta ccgctctcgag c	351

<210> 933
 <211> 87
 <212> DNA
 <213> *Oryctolagus cuniculus*

<400> 933	
cagtcggtgg aggagtccgg gggtcgcctg gtcacgcctg ggacaccct gacactcacc	60
tgcaccgtct ctggattctc cctcaat	87

<210> 934
 <211> 15
 <212> DNA
 <213> *Oryctolagus cuniculus*

<400> 934

aactatgcaa tgagc 15

<210> 935
<211> 42
<212> DNA
<213> Oryctolagus cuniculus

<400> 935
tgggtccgcc aggctccagg gaaggggctg gaatggatcg ga 42

<210> 936
<211> 48
<212> DNA
<213> Oryctolagus cuniculus

<400> 936
atcatgggtg ttaatgatat cacatactac gcgagctggg cgaaaggc 48

<210> 937
<211> 90
<212> DNA
<213> Oryctolagus cuniculus

<400> 937
cgattcacca tctccaaaac ctcgaccacg gtggatctga aaatgaccag tctgacaacc 60
gaggacacgg ccacctatatt ctgtactaga 90

<210> 938
<211> 36
<212> DNA
<213> Oryctolagus cuniculus

<400> 938
gagatccgtg atgatggtga tagttctgat aagttg 36

<210> 939
<211> 33
<212> DNA
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 939
tggggcccgg gcaccctcgt 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 cctgggtcaag gactacttcc ccgaaccggt gacgggtgtcg 120
tggaactcag gcgccctgac cagcggcgtg cacaccttcc cggctgtcct acagtcctca 180
ggactctact ccctcagcag cgtgggtgacc gtgccctcca gcagcttggg caccagacc 240
tacatctgca acgtgaatca caagcccagc aacaccaagg tggacgcgag agttgagccc 300
aaatcttgtg acaaaaactca cacatgcccc ccgtgcccag cacctgaact cctgggggga 360
ccgtcagtct tcctcttccc cccaaaaccc aaggacaccc tcatgatctc ccggaccctt 420
gaggtcacat gcgtgggtgt ggacgtgagc cacgaagacc ctgaggtcaa gttcaactgg 480
tacgtggacg gcgtggaggt gcataatgcc aagacaaagc cgcgggagga gcagtacgcc 540
agcacgtacc gtgtgggtcag cgtcctcacc gtcctgcacc aggactggct gaatggcaag 600
gagtacaagt gcaaggctct caacaaagcc ctcccagccc ccatcgagaa aaccatctcc 660
aaagccaaag ggcagccccg agaaccacag gtgtacaccc tgcccccatc ccgggaggag 720
atgaccaaga accaggtcag cctgacctgc ctgggtcaaag 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> 219
<212> PRT
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 941

Ala Ile Lys Met Thr Gln Thr Pro Ser Ser Val Ser Ala Ala Val Gly

1	5	10	15
Gly Thr Val Thr Ile Asn Cys Gln Ala Ser Glu Asp Ile Tyr Thr Asn	20	25	30
Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Pro Pro Asn Leu Leu Ile	35	40	45
Tyr Asp Ala Ser Asp Leu Ala Ser Gly Val Pro Ser Arg Phe Ser Gly	50	55	60
Ser Gly Asp Gly Thr Gln Phe Thr Leu Thr Ile Ser Ala Val Gln Cys	65	70	75
Glu Asp Ala Ala Thr Tyr Tyr Cys Gln Gly Val Ala Trp Ser Ser Asn	85	90	95
Thr Gly Tyr Gly Ser Ala Phe Gly Gly Gly Thr Glu Val Val Val Lys	100	105	110
Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu	115	120	125
Gln Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe	130	135	140
Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln	145	150	155
Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser	165	170	175
Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu	180	185	190
Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser	195	200	205
Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys	210	215	

<210> 942
<211> 113
<212> PRT
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 942

Ala Ile Lys Met Thr Gln Thr Pro Ser Ser Val Ser Ala Ala Val Gly
1 5 10 15

Gly Thr Val Thr Ile Asn Cys Gln Ala Ser Glu Asp Ile Tyr Thr Asn
20 25 30

Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Pro Pro Asn Leu Leu Ile
35 40 45

Tyr Asp Ala Ser Asp Leu Ala Ser Gly Val Pro Ser Arg Phe Ser Gly
50 55 60

Ser Gly Asp Gly Thr Gln Phe Thr Leu Thr Ile Ser Ala Val Gln Cys
65 70 75 80

Glu Asp Ala Ala Thr Tyr Tyr Cys Gln Gly Val Ala Trp Ser Ser Asn
85 90 95

Thr Gly Tyr Gly Ser Ala Phe Gly Gly Gly Thr Glu Val Val Val Lys
100 105 110

Arg

<210> 943
<211> 23
<212> PRT
<213> *Oryctolagus cuniculus*

<400> 943

Ala Ile Lys Met Thr Gln Thr Pro Ser Ser Val Ser Ala Ala Val Gly
1 5 10 15

Gly Thr Val Thr Ile Asn Cys
20

<210> 944
<211> 11
<212> PRT
<213> *Oryctolagus cuniculus*

<400> 944

Gln Ala Ser Glu Asp Ile Tyr Thr Asn Leu Ala
1 5 10

<210> 945
<211> 15
<212> PRT
<213> *Oryctolagus cuniculus*

<400> 945

Trp Tyr Gln Gln Lys Pro Gly Gln Pro Pro Asn Leu Leu Ile Tyr
1 5 10 15

<210> 946
<211> 7
<212> PRT
<213> *Oryctolagus cuniculus*

<400> 946

Asp Ala Ser Asp Leu Ala Ser
1 5

<210> 947
<211> 32
<212> PRT
<213> *Oryctolagus cuniculus*

<400> 947

Gly Val Pro Ser Arg Phe Ser Gly Ser Gly Asp Gly Thr Gln Phe Thr
1 5 10 15

Leu Thr Ile Ser Ala Val Gln Cys Glu Asp Ala Ala Thr Tyr Tyr Cys
20 25 30

<210> 948
<211> 14

<212> PRT
<213> *Oryctolagus cuniculus*

<400> 948

Gln Gly Val Ala Trp Ser Ser Asn Thr Gly Tyr Gly Ser Ala
1 5 10

<210> 949
<211> 11
<212> PRT
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 949

Phe Gly Gly Gly Thr Glu Val Val Val Lys Arg
1 5 10

<210> 950
<211> 106
<212> PRT
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 950

Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln
1 5 10 15

Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr
20 25 30

Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser
35 40 45

Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr
50 55 60

Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys
65 70 75 80

His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro

Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
100 105

<210> 951
<211> 657
<212> DNA
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 951
gccatcaaaa tgaccagac tccatcctcc gtgtctgcag ctgtgggagg cacagtcacc 60
atcaattgcc aggccagtga ggacatttac accaatttag cctgggtatca gcagaaacca 120
gggcagcctc ccaacctcct gatctatgat gcatccgatac tggcatctgg ggtcccgtcg 180
cggttcagcg gcagtggaga tgggacacag ttcactctca ccatcagcgc cgtgcagtgt 240
gaagatgctg ccacttacta ctgtcaaggt gttgcttgga gtagtaatac tggttatggt 300
tccgctttcg gcggaggagc cgagggtggtg gtcaaacgta cggtagcggc cccatctgtc 360
ttcatcttcc cgccatctga tgagcagttg aaatctggaa ctgcctctgt tgtgtgcctg 420
ctgaataact tctatcccag agaggccaaa gtacagtgga aggtggataa cgccctccaa 480
tcgggtaact cccaggagag tgtcacagag caggacagca aggacagcac ctacagcctc 540
agcagcacc tgacgctgag caaagcagac tacgagaaac acaaagtcta cgcctgcgaa 600
gtcaccatc agggcctgag ctcgcccgtc acaaagagct tcaacagggg agagtgt 657

<210> 952
<211> 339
<212> DNA
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 952
gccatcaaaa tgaccagac tccatcctcc gtgtctgcag ctgtgggagg cacagtcacc 60
atcaattgcc aggccagtga ggacatttac accaatttag cctgggtatca gcagaaacca 120
gggcagcctc ccaacctcct gatctatgat gcatccgatac tggcatctgg ggtcccgtcg 180

cggttcagcg gcagtggaga tgggacacag ttcactctca ccatcagcgc cgtgcagtgt	240
gaagatgctg ccacttacta ctgtcaaggt gttgcttgga gtagtaatac tggttatggt	300
tccgctttcg gcggagggac cgaggtggtg gtcaaacgt	339

<210> 953
 <211> 69
 <212> DNA
 <213> *Oryctolagus cuniculus*

<400> 953	
gccatcaaaa tgaccagac tccatcctcc gtgtctgcag ctgtgggagg cacagtcacc	60
atcaattgc	69

<210> 954
 <211> 33
 <212> DNA
 <213> *Oryctolagus cuniculus*

<400> 954	
caggccagtg aggacattta caccaattta gcc	33

<210> 955
 <211> 45
 <212> DNA
 <213> *Oryctolagus cuniculus*

<400> 955	
tggtatcagc agaaaccagg gcagcctccc aacctcctga tctat	45

<210> 956
 <211> 21
 <212> DNA
 <213> *Oryctolagus cuniculus*

<400> 956	
gatgcatccg atctggcatc t	21

<210> 957
 <211> 96
 <212> DNA
 <213> *Oryctolagus cuniculus*

<400> 957	
ggggtcccg cgcggttcag cggcagtgga gatgggacac agttcactct caccatcagc	60
gccgtgcagt gtgaagatgc tgccacttac tactgt	96

<210> 958
<211> 42
<212> DNA
<213> Oryctolagus cuniculus

<400> 958
caaggtgttg cttggagtag taatactggt tatggttccg ct 42

<210> 959
<211> 33
<212> DNA
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 959
ttcggcggag ggaccgaggt ggtggtcaaa cgt 33

<210> 960
<211> 318
<212> DNA
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 960
acggtagcgg ccccatctgt cttcatcttc ccgcatctg atgagcagtt gaaatctgga 60
actgcctctg ttgtgtgcct gctgaataac ttctatccca gagaggccaa agtacagtgg 120
aaggtggata acgccctcca atcgggtaac tcccaggaga gtgtcacaga gcaggacagc 180
aaggacagca cctacagcct cagcagcacc ctgacgctga gcaaagcaga ctacgagaaa 240
cacaaagtct acgcctgcga agtcacccat cagggcctga gctcgcccgt cacaaagagc 300
ttcaacaggg gagagtgt 318

<210> 961

<400> 961
000

<210> 962

<400> 962
000

<210> 963

<400> 963
000

<210> 964

<400> 964
000

<210> 965

<400> 965
000

<210> 966

<400> 966
000

<210> 967

<400> 967
000

<210> 968

<400> 968
000

<210> 969

<400> 969
000

<210> 970

<400> 970
000

<210> 971

<400> 971
000

<210> 972

<400> 972
000

<210> 973

<400> 973

000

<210> 974

<400> 974
000

<210> 975

<400> 975
000

<210> 976

<400> 976
000

<210> 977

<400> 977
000

<210> 978

<400> 978
000

<210> 979

<400> 979
000

<210> 980

<400> 980
000

<210> 981

<400> 981
000

<210> 982

<400> 982
000

<210> 983

<400> 983
000

<210> 984

<400> 984
000

<210> 985

<400> 985
000

<210> 986

<400> 986
000

<210> 987

<400> 987
000

<210> 988

<400> 988
000

<210> 989

<400> 989
000

<210> 990

<400> 990
000

<210> 991

<400> 991
000

<210> 992

<400> 992
000

<210> 993

<400> 993
000

<210> 994

<400> 994
000

<210> 995

<400> 995
000

<210> 996

<400> 996
000

<210> 997

<400> 997
000

<210> 998

<400> 998
000

<210> 999

<400> 999
000

<210> 1000

<400> 1000
000

<210> 1001

<211> 448

<212> PRT

<213> Artificial

<220>

<223> Humanized antibody sequence

<400> 1001

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 Ile Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
35 40 45

Gly Ile Ile Tyr Asp Asn Gly Asp Thr Tyr Tyr Ala Ser Ser 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 Val Tyr Phe Cys Ala
85 90 95

Arg Glu Pro Gly Ser Thr Thr Gln Asn Asp Leu Trp Gly Gln 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 Lys 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> 1002

<211> 118

<212> PRT

<213> Artificial

<220>

<223> Humanized antibody sequence

<400> 1002

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 Ile Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45
 Gly Ile Ile Tyr Asp Asn Gly Asp Thr Tyr Tyr Ala Ser Ser 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 Val Tyr Phe Cys Ala
 85 90 95
 Arg Glu Pro Gly Ser Thr Thr Gln Asn Asp Leu Trp Gly Gln Gly Thr
 100 105 110
 Leu Val Thr Val Ser Ser
 115

<210> 1003
 <211> 30
 <212> PRT
 <213> Artificial

<220>
 <223> Humanized antibody sequence

<400> 1003

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> 1004
 <211> 5
 <212> PRT
 <213> Oryctolagus cuniculus

<400> 1004

Ser Tyr Ala Met Ile
1 5

<210> 1005

<211> 14

<212> PRT

<213> Artificial

<220>

<223> Humanized antibody sequence

<400> 1005

Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Gly
1 5 10

<210> 1006

<211> 16

<212> PRT

<213> Artificial

<220>

<223> Humanized antibody sequence

<400> 1006

Ile Ile Tyr Asp Asn Gly Asp Thr Tyr Tyr Ala Ser Ser Ala Lys Gly
1 5 10 15

<210> 1007

<211> 32

<212> PRT

<213> Artificial

<220>

<223> Humanized antibody sequence

<400> 1007

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 Phe Cys Ala Arg
20 25 30

<210> 1008

<211> 10

<212> PRT
<213> Oryctolagus cuniculus

<400> 1008

Glu Pro Gly Ser Thr Thr Gln Asn Asp Leu
1 5 10

<210> 1009
<211> 11
<212> PRT
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 1009

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
1 5 10

<210> 1010
<211> 330
<212> PRT
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 1010

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

Lys 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> 1011
 <211> 1344
 <212> DNA
 <213> Artificial

<220>
 <223> Humanized antibody sequence

<400> 1011

gaggtgcagc ttgtggagtc tgggggaggc ttggtccagc ctgggggggtc cctgagactc	60
tcctgtgcag cctctggatt ctccctcagt agctatgcga tgatctgggt ccgtcaggct	120
ccagggaagg ggctggagtg ggtcggaatc atttatgata atggtgacac atactacgcg	180
agctctgcga aaggccgatt caccatctcc agagacaatt ccaagaacac cgtgtatctt	240
caaatgaaca gcctgagagc tgaggacact gctgtgtatt tctgtgctag agagcctggt	300
agtactactc agaatgactt gtggggccaa gggaccctcg tcaccgtctc gagcgcctcc	360
accaagggcc catcggctctt ccccctggca ccctcctcca agagcacctc tgggggcaca	420
gcggccctgg gctgcctggt caaggactac ttccccgaac cggtgacggt gtcgtggaac	480
tcaggcgccc tgaccagcgg cgtgcacacc ttcccggctg tcctacagtc ctcaggactc	540
tactccctca gcagcgtggt gaccgtgccc tccagcagct tgggcacca gacctacatc	600
tgcaacgtga atcacaagcc cagcaacacc aaggtggaca agaaagtga gcccaaattct	660
tgtgacaaaa ctcacacatg cccaccgtgc ccagcacctg aactcctggg gggaccgtca	720
gtcttcctct tcccccaaa acccaaggac accctcatga tctcccggac ccctgaggtc	780
acatgcgtgg tgggtggacgt gagccacgaa gaccctgagg tcaagttcaa ctggtacgtg	840
gacggcgtgg aggtgcataa tgccaagaca aagccgcggg aggagcagta cgccagcacg	900
taccgtgtgg tcagcgtcct caccgtcctg caccaggact ggctgaatgg caaggagtac	960
aagtgcaagg tctccaacaa agccctcca gccccatcg agaaaaccat ctcaaagcc	1020
aaagggcagc cccgagaacc acaggtgtac accctgcccc catcccggga ggagatgacc	1080

aagaaccagg tcagcctgac ctgcctggtc aaaggcttct atcccagcga catcgccgtg	1140
gagtgggaga gcaatgggca gccggagaac aactacaaga ccacgcctcc cgtgctggac	1200
tccgacggct ctttcttcct ctacagcaag ctcaccgtgg acaagagcag gtggcagcag	1260
gggaacgtct tctcatgctc cgtgatgcat gaggctctgc acaaccacta cacgcagaag	1320
agcctctccc tgtctccggg taaa	1344

<210> 1012
 <211> 354
 <212> DNA
 <213> Artificial

<220>
 <223> Humanized antibody sequence

<400> 1012	
gaggtgcagc ttgtggagtc tgggggaggc ttggtccagc ctgggggggtc cctgagactc	60
tcctgtgcag cctctggatt ctccctcagt agctatgcga tgatctgggt ccgtcaggct	120
ccagggaaagg ggctggagtg ggtcggaatc atttatgata atggtgacac atactacgcg	180
agctctgcga aaggccgatt caccatctcc agagacaatt ccaagaacac cgtgtatctt	240
caaatgaaca gcctgagagc tgaggacact gctgtgtatt tctgtgctag agagcctgggt	300
agtactactc agaatgactt gtggggccaa gggaccctcg tcaccgtctc gagc	354

<210> 1013
 <211> 90
 <212> DNA
 <213> Artificial

<220>
 <223> Humanized antibody sequence

<400> 1013	
gaggtgcagc ttgtggagtc tgggggaggc ttggtccagc ctgggggggtc cctgagactc	60
tcctgtgcag cctctggatt ctccctcagt	90

<210> 1014
 <211> 15
 <212> DNA
 <213> *Oryctolagus cuniculus*

<400> 1014	
agctatgcga tgatc	15

<210>	1015	
<211>	42	
<212>	DNA	
<213>	Artificial	
<220>		
<223>	Humanized antibody sequence	
<400>	1015	
	tgggtccgtc aggctccagg gaaggggctg gagtgggtcg ga	42
<210>	1016	
<211>	48	
<212>	DNA	
<213>	Artificial	
<220>		
<223>	Humanized antibody sequence	
<400>	1016	
	atcatttatg ataatggatga cacatactac gcgagctctg cgaaaggc	48
<210>	1017	
<211>	96	
<212>	DNA	
<213>	Artificial	
<220>		
<223>	Humanized antibody sequence	
<400>	1017	
	cgattcacca tctccagaga caattccaag aacaccgtgt atcttcaaat gaacagcctg	60
	agagctgagg acactgctgt gtatttctgt gctaga	96
<210>	1018	
<211>	30	
<212>	DNA	
<213>	Oryctolagus cuniculus	
<400>	1018	
	gagcctggta gtactactca gaatgacttg	30
<210>	1019	
<211>	33	
<212>	DNA	
<213>	Artificial	

<220>

<223> Humanized antibody sequence

<400> 1019

tggggccaag ggaccctcgt caccgtctcg agc

33

<210> 1020

<211> 990

<212> DNA

<213> Artificial

<220>

<223> Humanized antibody sequence

<400> 1020

gcctccacca agggcccatc ggtcttcccc ctggcaccct cctccaagag cacctctggg 60

ggcacagcgg ccctgggctg cctgggtcaag gactacttcc ccgaaccggt gacgggtgtcg 120

tggaactcag gcgccctgac cagcggcgtg cacaccttcc cggctgtcct acagtcctca 180

ggactctact ccctcagcag cgtgggtgacc gtgccctcca gcagcttggg caccagacc 240

tacatctgca acgtgaatca caagcccagc aacaccaagg tggacaagaa agttgagccc 300

aaatcttgtg acaaaaactca cacatgcccc ccgtgcccag cacctgaact cctgggggga 360

ccgtcagtct tcctcttccc cccaaaaccc aaggacaccc tcatgatctc ccggaccctt 420

gaggtcacat gcgtgggtgt ggacgtgagc cacgaagacc ctgaggtcaa gttcaactgg 480

tacgtggacg gcgtggaggt gcataatgcc aagacaaagc cgcgggagga gcagtacgcc 540

agcacgtacc gtgtgggtcag cgtcctcacc gtcctgcacc aggactggct gaatggcaag 600

gagtacaagt gcaaggtctc caacaaagcc ctcccagccc ccatcgagaa aaccatctcc 660

aaagccaaag ggcagccccg agaaccacag gtgtacaccc tgcccccatc ccgggaggag 720

atgaccaaga accaggtcag cctgacctgc ctgggtcaaag gcttctatcc cagcgacatc 780

gccgtggagt gggagagcaa tgggcagccg gagaacaact acaagaccac gcctcccgtg 840

ctggactccg acggctcctt cttcctctac agcaagctca ccgtggacaa gagcaggtgg 900

cagcagggga acgtcttctc atgctccgtg atgcatgagg ctctgcacaa cactacacg 960

cagaagagcc tctccctgtc tccgggtaaa 990

<210> 1021

<211> 217

<212> PRT

<213> Artificial

<220>

<223> Humanized antibody sequence

<400> 1021

Asp Val 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 Glu Asn Ile Tyr Asn Ser
20 25 30

Leu Leu Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile
35 40 45

Tyr Arg 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 Gln Asn Tyr Tyr Asn Ile Trp Thr
85 90 95

Asn Gly Ala Ala Phe Gly Gly Gly Thr Lys Val Glu Ile 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> 1022
<211> 111
<212> PRT
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 1022

Asp Val 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 Glu Asn Ile Tyr Asn Ser
20 25 30

Leu Leu Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile
35 40 45

Tyr Arg 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 Gln Asn Tyr Tyr Asn Ile Trp Thr
85 90 95

Asn Gly Ala Ala Phe Gly Gly Gly Thr Lys Val Glu Ile Lys Arg
100 105 110

<210> 1023
<211> 23
<212> PRT
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 1023

Asp Val 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> 1024

<211> 11

<212> PRT

<213> *Oryctolagus cuniculus*

<400> 1024

Gln Ala Ser Glu Asn Ile Tyr Asn Ser Leu Leu
1 5 10

<210> 1025

<211> 15

<212> PRT

<213> Artificial

<220>

<223> Humanized antibody sequence

<400> 1025

Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile Tyr
1 5 10 15

<210> 1026

<211> 7

<212> PRT

<213> *Oryctolagus cuniculus*

<400> 1026

Arg Ala Ser Thr Leu Ala Ser
1 5

<210> 1027

<211> 32

<212> PRT

<213> Artificial

<220>

<223> Humanized antibody sequence

<400> 1027

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> 1028

<211> 12

<212> PRT

<213> Oryctolagus cuniculus

<400> 1028

Gln Asn Tyr Tyr Asn Ile Trp Thr Asn Gly Ala Ala
1 5 10

<210> 1029

<211> 11

<212> PRT

<213> Artificial

<220>

<223> Humanized antibody sequence

<400> 1029

Phe Gly Gly Gly Thr Lys Val Glu Ile Lys Arg
1 5 10

<210> 1030

<211> 106

<212> PRT

<213> Artificial

<220>

<223> Humanized antibody sequence

<400> 1030

Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln
1 5 10 15

Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr
20 25 30

Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser
35 40 45

Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr
50 55 60

Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys
65 70 75 80

His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro
85 90 95

Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
100 105

<210> 1031
<211> 651
<212> DNA
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 1031
gacgttcaga tgaccagtc tccttcacc ctgtctgcat ctgtaggaga cagagtcacc 60
atcacttgtc aggccagtga gaacatttac aactctttac tctggtatca gcagaaacca 120
ggaaaagccc ctaagctcct gatctatagg gcatccactc tggcatctgg agtcccatca 180
aggttcagcg gcagtggatc tggaacagaa ttcactctca ccatcagcag cctgcagcct 240
gatgattttg caacttacta ctgtcaaaac tattataata tatggactaa tgggtgctgct 300
ttcggcggag gaaccaaggt ggaaatcaaa cgtacggtag cggccccatc tgtcttcatc 360
ttcccgccat ctgatgagca gttgaaatct ggaactgcct ctgttggtgtg 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 cgtcaciaag agcttcaaca ggggagagtg t 651

<210> 1032
<211> 333

<212> DNA
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 1032
gacgttcaga tgaccagtc tccttcacc ctgtctgcat ctgtaggaga cagagtcacc 60
atcacttgtc aggccagtga gaacatttac aactctttac tctggtatca gcagaaacca 120
ggaaaagccc ctaagctcct gatctatagg gcatccactc tggcatctgg agtcccatca 180
aggttcagcg gcagtggatc tggaacagaa ttcactctca ccatcagcag cctgcagcct 240
gatgattttg caacttacta ctgtcaaaac tattataata tatggactaa tggtgctgct 300
ttcggcggag gaaccaaggt ggaaatcaaa cgt 333

<210> 1033
<211> 69
<212> DNA
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 1033
gacgttcaga tgaccagtc tccttcacc ctgtctgcat ctgtaggaga cagagtcacc 60
atcacttgt 69

<210> 1034
<211> 33
<212> DNA
<213> *Oryctolagus cuniculus*

<400> 1034
caggccagtg agaacattta caactcttta ctc 33

<210> 1035
<211> 45
<212> DNA
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 1035
tggtatcagc agaaaccagg aaaagcccct aagctcctga tctat 45

<210> 1036
 <211> 21
 <212> DNA
 <213> *Oryctolagus cuniculus*

 <400> 1036
 agggcatcca ctctggcatc t 21

<210> 1037
 <211> 96
 <212> DNA
 <213> Artificial

 <220>
 <223> Humanized antibody sequence

 <400> 1037
 ggagtcccat caagggtcag cggcagtgga tctggaacag aattcactct caccatcagc 60
 agcctgcagc ctgatgattt tgcaacttac tactgt 96

<210> 1038
 <211> 36
 <212> DNA
 <213> *Oryctolagus cuniculus*

 <400> 1038
 caaaactatt ataatatatg gactaatggt gctgct 36

<210> 1039
 <211> 33
 <212> DNA
 <213> Artificial

 <220>
 <223> Humanized antibody sequence

 <400> 1039
 ttcggcggag gaaccaaggt ggaaatcaaa cgt 33

<210> 1040
 <211> 318
 <212> DNA
 <213> Artificial

 <220>
 <223> Humanized antibody sequence

 <400> 1040

acggtagcgg ccccatctgt cttcatcttc ccgcatctg atgagcagtt gaaatctgga 60
 actgcctctg ttgtgtgcct gctgaataac ttctatccca gagaggccaa agtacagtgg 120
 aaggtggata acgccctcca atcgggtaac tcccaggaga gtgtcacaga gcaggacagc 180
 aaggacagca cctacagcct cagcagcacc ctgacgctga gcaaagcaga ctacgagaaa 240
 cacaaagtct acgcctgcga agtcacccat cagggcctga gctcgcccgt cacaaagagc 300
 ttcaacaggg gagagtgt 318

<210> 1041
 <211> 444
 <212> PRT
 <213> Artificial

<220>
 <223> Humanized antibody sequence

<400> 1041

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 Gly Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Ile
 35 40 45

Gly Asp Ile Ser Thr Tyr Gly Thr Thr Asp Tyr Ala Ser Trp Val Tyr
 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 Phe Cys Ala
 85 90 95

Arg Asp Tyr Trp Leu Ser Leu Trp Gly Gln 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 Lys 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

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> 1042

<211> 114

<212> PRT

<213> Artificial

<220>

<223> Humanized antibody sequence

<400> 1042

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 Gly Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Ile
 35 40 45

Gly Asp Ile Ser Thr Tyr Gly Thr Thr Asp Tyr Ala Ser Trp Val Tyr
 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	Phe	Cys	Ala
				85					90					95	

Arg	Asp	Tyr	Trp	Leu	Ser	Leu	Trp	Gly	Gln	Gly	Thr	Leu	Val	Thr	Val
			100					105					110		

Ser Ser

<210> 1043
 <211> 30
 <212> PRT
 <213> Artificial

<220>
 <223> Humanized antibody sequence

<400> 1043

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> 1044
 <211> 5
 <212> PRT
 <213> Oryctolagus cuniculus

<400> 1044

Ser	Tyr	Ala	Met	Gly
1				5

<210> 1045
 <211> 14
 <212> PRT
 <213> Artificial

<220>
 <223> Humanized antibody sequence

<400> 1045

Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Ile Gly
1 5 10

<210> 1046
<211> 16
<212> PRT
<213> *Oryctolagus cuniculus*

<400> 1046

Asp Ile Ser Thr Tyr Gly Thr Thr Asp Tyr Ala Ser Trp Val Tyr Gly
1 5 10 15

<210> 1047
<211> 32
<212> PRT
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 1047

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 Phe Cys Ala Arg
20 25 30

<210> 1048
<211> 6
<212> PRT
<213> *Oryctolagus cuniculus*

<400> 1048

Asp Tyr Trp Leu Ser Leu
1 5

<210> 1049
<211> 11
<212> PRT
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 1049

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
1 5 10

<210> 1050
<211> 330
<212> PRT
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 1050

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

Lys 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> 1051
<211> 1332
<212> DNA
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 1051
gaggtgcagc ttgtggagtc tgggggaggc ttggtccagc ctgggggggtc cctgagactc

tcctgtgcag cctctggatt ctccctcagt agctatgcaa tgggctgggt ccgtcaggct	120
ccaggggaagg ggctggagtg gatcggagac attagtactt atggtaccac agactacgcg	180
agctgggtgt atggccgatt caccatctcc agagacaatt ccaagaacac cgtgtatctt	240
caaatgaaca gcctgagagc tgaggacact gctgtgtatt tctgtgctag agactattgg	300
ttgagcttgt ggggccaagg gaccctcgtc accgtctcga gcgcctccac caagggccca	360
tcggtcttcc ccctggcacc ctccccaag agcacctctg ggggcacagc ggccctgggc	420
tgcttggtca aggactactt ccccgaaccg gtgacggtgt cgtggaactc aggcgccttg	480
accagcggcg tgcacacctt cccggctgtc ctacagtcct caggactcta ctccctcagc	540
agcgtggtga ccgtgccctc cagcagcttg ggcaccaga cctacatctg caacgtgaat	600
cacaagccca gcaacaccaa ggtggacaag aaagttgagc ccaaactctg tgacaaaact	660
cacacatgcc caccgtgccc agcacctgaa ctcttggggg gaccgtcagt cttcctcttc	720
cccccaaac ccaaggacac cctcatgata tcccggaccc ctgaggtcac atgcgtggtg	780
gtggacgtga gccacgaaga ccctgaggtc aagttcaact ggtacgtgga cggcgtggag	840
gtgcataatg ccaagacaaa gccgcgggag gagcagtagc ccagcacgta ccgtgtggtc	900
agcgtcctca ccgtcctgca ccaggactgg ctgaatggca aggagtacaa gtgcaaggctc	960
tccaacaaag ccctcccagc ccccatcgag aaaaccatct ccaaagccaa agggcagccc	1020
cgagaaccac aggtgtacac cctgccccca tcccgggagg agatgaccaa gaaccaggctc	1080
agcctgacct gcctgggtcaa aggcttctat ccagcgcaca tcgccgtgga gtgggagagc	1140
aatgggcagc cggagaacaa ctacaagacc acgcctcccg tgctggactc cgacggctcc	1200
ttcttcctct acagcaagct caccgtggac aagagcaggt ggcagcaggg gaacgtcttc	1260
tcatgtcccg tgatgcatga ggctctgcac aaccactaca cgcagaagag cctctccctg	1320
tctccgggta aa	1332

<210> 1052

<211> 342

<212> DNA

<213> Artificial

<220>

<223> Humanized antibody sequence

<400> 1052
 gaggtgcagc ttgtggagtc tgggggaggc ttgtccagc ctggggggtc cctgagactc 60
 tcctgtgcag cctctggatt ctccctcagt agctatgcaa tgggctgggt ccgtcaggct 120
 ccagggaagg ggctggagtg gatcggagac attagtactt atggtaccac agactacgcg 180
 agctgggtgt atggccgatt caccatctcc agagacaatt ccaagaacac cgtgtatctt 240
 caaatgaaca gcctgagagc tgaggacact gctgtgtatt tctgtgctag agactattgg 300
 ttgagcttgt ggggccaagg gaccctcgtc accgtctcga gc 342

<210> 1053
 <211> 90
 <212> DNA
 <213> Artificial

<220>
 <223> Humanized antibody sequence

<400> 1053
 gaggtgcagc ttgtggagtc tgggggaggc ttgtccagc ctggggggtc cctgagactc 60
 tcctgtgcag cctctggatt ctccctcagt 90

<210> 1054
 <211> 15
 <212> DNA
 <213> *Oryctolagus cuniculus*

<400> 1054
 agctatgcaa tgggc 15

<210> 1055
 <211> 42
 <212> DNA
 <213> Artificial

<220>
 <223> Humanized antibody sequence

<400> 1055
 tgggtccgtc aggctccagg gaaggggctg gagtggatcg ga 42

<210> 1056
 <211> 48
 <212> DNA
 <213> *Oryctolagus cuniculus*

<400> 1056
gacattagta cttatggtac cacagactac gcgagctggg tgtatggc 48

<210> 1057
<211> 96
<212> DNA
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 1057
cgattcacca tctccagaga caattccaag aacaccgtgt atcttcaaat gaacagcctg 60
agagctgagg aactgctgt gtatttctgt gctaga 96

<210> 1058
<211> 18
<212> DNA
<213> Oryctolagus cuniculus

<400> 1058
gactattggt tgagcttg 18

<210> 1059
<211> 33
<212> DNA
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 1059
tggggccaag ggaccctcgt caccgtctcg agc 33

<210> 1060
<211> 990
<212> DNA
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 1060
gcctccacca agggcccatc ggtcttcccc ctggcaccct cctccaagag cacctctggg 60
ggcacagcgg ccctgggctg cctgggtcaag gactacttcc ccgaaccggt gacggtgtcg 120
tggaactcag gcgccctgac cagcggcgtg cacaccttcc cggctgtcct acagtcctca 180


```

ggactctact ccctcagcag cgtggtgacc gtgccctcca gcagcttggg caccagacc      240
tacatctgca acgtgaatca caagcccagc aacaccaagg tggacaagaa agttgagccc      300
aaatcttgtg acaaaaactca cacatgcccc ccgtgcccag cacctgaact cctgggggga      360
ccgtcagtct tcctcttccc cccaaaaccc aaggacaccc tcatgatctc ccggaccctt      420
gaggtcacat gcgtggtggt ggacgtgagc cacgaagacc ctgaggtcaa gttcaactgg      480
tacgtggacg gcgtggaggt gcataatgcc aagacaaagc cgcgggagga gcagtacgcc      540
agcacgtacc gtgtggtcag cgtcctcacc gtcctgcacc aggactggct gaatggcaag      600
gagtacaagt gcaaggcttc 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> 1061
 <211> 218
 <212> PRT
 <213> Artificial

<220>
 <223> Humanized antibody sequence

<400> 1061

```

Ala Ala Gln Leu Thr Gln Ser Pro Ser Thr Leu Ser Ala Ser Val Gly
1           5           10           15

```

```

Asp Arg Val Thr Ile Thr Cys Gln Ser Ser Gln Ser Val Tyr Asp Asn
          20           25           30

```

```

Asn Ala Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu
          35           40           45

```

```

Leu Ile Tyr Ala Ala Ser Thr Leu Ala Ser Gly Val Pro Ser Arg Phe
          50           55           60

```

Ser Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu
65 70 75 80

Gln Pro Asp Asp Phe Ala Thr Tyr Tyr Cys Leu Gly Gly Tyr Tyr Asp
85 90 95

Pro Ala Asp Asn Ala Phe Gly Gly Gly Thr Lys Val Glu Ile 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

<210> 1062

<211> 112

<212> PRT

<213> Artificial

<220>

<223> Humanized antibody sequence

<400> 1062

Ala Ala Gln Leu Thr Gln Ser Pro Ser Thr Leu Ser Ala Ser Val Gly
1 5 10 15

Asp Arg Val Thr Ile Thr Cys Gln Ser Ser Gln Ser Val Tyr Asp Asn
20 25 30

Asn Ala Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu
35 40 45

Leu Ile Tyr Ala Ala Ser Thr Leu Ala Ser Gly Val Pro Ser Arg Phe
50 55 60

Ser Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu
65 70 75 80

Gln Pro Asp Asp Phe Ala Thr Tyr Tyr Cys Leu Gly Gly Tyr Tyr Asp
85 90 95

Pro Ala Asp Asn Ala Phe Gly Gly Gly Thr Lys Val Glu Ile Lys Arg
100 105 110

<210> 1063
<211> 23
<212> PRT
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 1063

Ala Ala Gln Leu 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> 1064
<211> 13
<212> PRT
<213> Oryctolagus cuniculus

<400> 1064

Gln Ser Ser Gln Ser Val Tyr Asp Asn Asn Ala Leu Ala
1 5 10

<210> 1065
<211> 15
<212> PRT
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 1065

Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Lys	Ala	Pro	Lys	Leu	Leu	Ile	Tyr
1				5					10					15

<210> 1066
<211> 7
<212> PRT
<213> *Oryctolagus cuniculus*

<400> 1066

Ala	Ala	Ser	Thr	Leu	Ala	Ser
1				5		

<210> 1067
<211> 32
<212> PRT
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 1067

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> 1068
<211> 11
<212> PRT
<213> *Oryctolagus cuniculus*

<400> 1068

Leu	Gly	Gly	Tyr	Tyr	Asp	Pro	Ala	Asp	Asn	Ala
1				5					10	

<210> 1069
<211> 11
<212> PRT
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 1069

Phe Gly Gly Gly Thr Lys Val Glu Ile Lys Arg
1 5 10

<210> 1070
<211> 106
<212> PRT
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 1070

Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln
1 5 10 15

Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr
20 25 30

Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser
35 40 45

Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr
50 55 60

Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys
65 70 75 80

His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro
85 90 95

Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
100 105

<210> 1071
<211> 654

<212> DNA
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 1071
gcagcccagc tgaccagtc tccttcacc ctgtctgcat ctgtaggaga cagagtcacc 60
atcacttgtc agtccagtca gagggtttat gataacaatg ctttagcctg gtatcagcag 120
aaaccaggaa aagcccctaa gtcctgatc tatgtctgcat ccactctggc atctggagtc 180
ccatcaaggt tcagcggcag tggatctgga acagaattca ctctcaccat cagcagcctg 240
cagcctgatg attttgcaac ttactactgt ctaggcggtt attatgatcc tgctgataat 300
gctttcggcg gaggaacaa ggtggaaatc aaacgtacgg tagcggcccc atctgtcttc 360
atcttcccg cactctgatg gcagttgaaa tctggaactg cctctgttgt gtgcctgctg 420
aataacttct atcccagaga ggccaaagta cagtgggaagg 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> 1072
<211> 336
<212> DNA
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 1072
gcagcccagc tgaccagtc tccttcacc ctgtctgcat ctgtaggaga cagagtcacc 60
atcacttgtc agtccagtca gagggtttat gataacaatg ctttagcctg gtatcagcag 120
aaaccaggaa aagcccctaa gtcctgatc tatgtctgcat ccactctggc atctggagtc 180
ccatcaaggt tcagcggcag tggatctgga acagaattca ctctcaccat cagcagcctg 240
cagcctgatg attttgcaac ttactactgt ctaggcggtt attatgatcc tgctgataat 300
gctttcggcg gaggaacaa ggtggaaatc aaacgt 336

<210> 1073
<211> 69

<212> DNA
 <213> Artificial

 <220>
 <223> Humanized antibody sequence

 <400> 1073
 gcagcccagc tgaccagtc tccttcacc ctgtctgcat ctgtaggaga cagagtcacc 60
 atcacttgt 69

 <210> 1074
 <211> 39
 <212> DNA
 <213> *Oryctolagus cuniculus*

 <400> 1074
 cagtccagtc agagtgttta tgataacaat gctttagcc 39

 <210> 1075
 <211> 45
 <212> DNA
 <213> Artificial

 <220>
 <223> Humanized antibody sequence

 <400> 1075
 tggatcagc agaaaccagg aaaagcccct aagctcctga tctat 45

 <210> 1076
 <211> 21
 <212> DNA
 <213> *Oryctolagus cuniculus*

 <400> 1076
 gctgcatcca ctctggcatc t 21

 <210> 1077
 <211> 96
 <212> DNA
 <213> Artificial

 <220>
 <223> Humanized antibody sequence

 <400> 1077
 ggagtcccat caaggttcag cggcagtgga tctggaacag aattcactct caccatcagc 60
 agcctgcagc ctgatgattt tgcaacttac tactgt 96

<210> 1078
 <211> 33
 <212> DNA
 <213> *Oryctolagus cuniculus*

 <400> 1078
 ctaggcgggtt attatgatcc tgctgataat gct 33

<210> 1079
 <211> 33
 <212> DNA
 <213> Artificial

 <220>
 <223> Humanized antibody sequence

 <400> 1079
 ttcggcggag gaaccaaggt ggaaatcaaa cgt 33

<210> 1080
 <211> 318
 <212> DNA
 <213> Artificial

 <220>
 <223> Humanized antibody sequence

 <400> 1080
 acggtagcgg ccccatctgt cttcatcttc ccgccatctg atgagcagtt gaaatctgga 60
 actgcctctg ttgtgtgcct gctgaataac ttctatccca gagaggccaa agtacagtgg 120
 aaggtggata acgccctcca atcgggtaac tcccaggaga gtgtcacaga gcaggacagc 180
 aaggacagca cctacagcct cagcagcacc ctgacgctga gcaaagcaga ctacgagaaa 240
 cacaaagtct acgcctgcga agtcacccat cagggcctga gctcgcccgt caciaagagc 300
 ttcaacaggg gagagtgt 318

<210> 1081
 <211> 453
 <212> PRT
 <213> Artificial

 <220>
 <223> Humanized antibody sequence

 <400> 1081

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

Asp Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Ile
35 40 45

Gly Ile Ile Asn Thr Asn Asp Asp Thr Trp Tyr Ala Ser Trp Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala
85 90 95

Arg Ile Ser Asp Ala Tyr Val Phe Asp Tyr Ala Tyr Tyr Phe Thr Leu
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 Lys 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> 1082
<211> 123
<212> PRT
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 1082

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

Asp Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Ile
35 40 45

Gly Ile Ile Asn Thr Asn Asp Asp Thr Trp Tyr Ala Ser Trp Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala
85 90 95

Arg Ile Ser Asp Ala Tyr Val Phe Asp Tyr Ala Tyr Tyr Phe Thr Leu
100 105 110

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 1083
<211> 30
<212> PRT

<213> Artificial

<220>

<223> Humanized antibody sequence

<400> 1083

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> 1084

<211> 5

<212> PRT

<213> *Oryctolagus cuniculus*

<400> 1084

Ser Tyr Asp Met Ser
1 5

<210> 1085

<211> 14

<212> PRT

<213> Artificial

<220>

<223> Humanized antibody sequence

<400> 1085

Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Ile Gly
1 5 10

<210> 1086

<211> 16

<212> PRT

<213> *Oryctolagus cuniculus*

<400> 1086

Ile Ile Asn Thr Asn Asp Asp Thr Trp Tyr Ala Ser Trp Val Lys Gly
1 5 10 15

<210> 1087

<211> 32

<212> PRT

<213> Artificial

<220>

<223> Humanized antibody sequence

<400> 1087

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	Arg
			20					25					30		

<210> 1088

<211> 15

<212> PRT

<213> Oryctolagus cuniculus

<400> 1088

Ile	Ser	Asp	Ala	Tyr	Val	Phe	Asp	Tyr	Ala	Tyr	Tyr	Phe	Thr	Leu
1				5					10					15

<210> 1089

<211> 11

<212> PRT

<213> Artificial

<220>

<223> Humanized antibody sequence

<400> 1089

Trp	Gly	Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser
1				5					10	

<210> 1090

<211> 330

<212> PRT

<213> Artificial

<220>

<223> Humanized antibody sequence

<400> 1090

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

Lys 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> 1091
<211> 1359
<212> DNA
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 1091
gaggtgcagc ttgtggagtc tgggggaggc ttggtccagc ctgggggggtc cctgagactc 60
tcctgtgcag cctctggatt ctccctcagt agctacgaca tgagctgggt ccgtcaggct 120
ccaggaagg ggctggagtg gatcggatc attaatacta atgatgacac atggtacgcg 180
agctgggtga aaggccgatt caccatctcc agagacaatt ccaagaacac cctgtatctt 240
caaatgaaca gcctgagagc tgaggacact gctgtgtatt actgtgctag aatatccgat 300
gcttatgttt ttgattatgc gtattacttt actttgtggg gccaaaggac cctcgtcacc 360
gtctcgagcg cctccaccaa gggcccatcg gtcttcccc tggcaccctc ctccaagagc 420
acctctgggg gcacagcggc cctgggctgc ctggtcaagg actacttccc cgaaccggtg 480
acggtgtcgt ggaactcagg cgccctgacc agcggcgtgc acaccttccc ggctgtccta 540
cagtcctcag gactctactc cctcagcagc gtggtgaccg tgccctccag cagcttgggc 600

accagacct acatctgcaa cgtgaatcac aagcccagca acaccaaggt ggacaagaaa	660
gttgagccca aatcttgtga caaaactcac acatgcccac cgtgcccagc acctgaactc	720
ctggggggac cgtcagtctt cctcttcccc ccaaaaccca aggacaccct catgatctcc	780
cggaccctg aggtcacatg cgtgggtgtg gacgtgagcc acgaagacc tgaggtcaag	840
ttcaactggg acgtggacgg cgtggaggtg cataatgcca agacaaagcc gcgggaggag	900
cagtacgcca gcacgtaccg tgtgggtcagc gtcctcaccg tcctgcacca ggactggctg	960
aatggcaagg agtacaagt caaggtctcc aacaaagccc tcccagcccc catcgagaaa	1020
accatctcca aagccaaagg gcagccccga gaaccacagg tgtacaccct gccccatcc	1080
cgggaggaga tgaccaagaa ccaggtcagc ctgacctgcc tgggtcaaagg cttctatccc	1140
agcgacatcg ccgtggagtg ggagagcaat gggcagccgg agaacaacta caagaccacg	1200
cctcccgtag tggactccga cggctcctt ttctctaca gcaagctcac cgtggacaag	1260
agcaggtggc agcaggggaa cgtcttctca tgctccgtga tgcatgaggc tctgcacaac	1320
cactacacgc agaagagcct ctccctgtct ccgggtaaa	1359

<210> 1092
 <211> 369
 <212> DNA
 <213> Artificial

<220>
 <223> Humanized antibody sequence

<400> 1092	
gaggtgcagc ttgtggagtc tgggggaggc ttggtccagc ctggggggtc cctgagactc	60
tcctgtgcag cctctggatt ctccctcagt agctacgaca tgagctgggt ccgtcaggct	120
ccagggaagg ggctggagtg gatcggaatc attaatacta atgatgacac atggtacgcg	180
agctgggtga aaggccgatt caccatctcc agagacaatt ccaagaacac cctgtatctt	240
caaatgaaca gcctgagagc tgaggacact gctgtgtatt actgtgctag aatatccgat	300
gcttatgttt ttgattatgc gtattacttt actttgtggg gccaaaggac cctcgtcacc	360
gtctcgagc	369

<210> 1093
 <211> 90

<212> DNA
 <213> Artificial

<220>
 <223> Humanized antibody sequence

<400> 1093
 gaggtgcagc ttgtggagtc tgggggaggc ttggtccagc ctggggggtc cctgagactc 60
 tcctgtgcag cctctggatt ctccctcagt 90

<210> 1094
 <211> 15
 <212> DNA
 <213> *Oryctolagus cuniculus*

<400> 1094
 agctacgaca tgagc 15

<210> 1095
 <211> 42
 <212> DNA
 <213> Artificial

<220>
 <223> Humanized antibody sequence

<400> 1095
 tgggtccgtc aggctccagg gaaggggctg gagtggatcg ga 42

<210> 1096
 <211> 48
 <212> DNA
 <213> *Oryctolagus cuniculus*

<400> 1096
 atcattaata ctaatgatga cacatgggtac gcgagctggg tgaaaggc 48

<210> 1097
 <211> 96
 <212> DNA
 <213> Artificial

<220>
 <223> Humanized antibody sequence

<400> 1097
 cgattcacca tctccagaga caattccaag aacaccctgt atcttcaa at gaacagcctg 60
 agagctgagg aactgctgt gtattactgt gctaga 96

<210> 1098
<211> 45
<212> DNA
<213> *Oryctolagus cuniculus*

<400> 1098
atatccgatg cttatgtttt tgattatgcg tattacttta ctttg 45

<210> 1099
<211> 33
<212> DNA
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 1099
tggggccaag ggaccctcgt caccgtctcg agc 33

<210> 1100
<211> 990
<212> DNA
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 1100
gcctccacca agggcccatc ggtcttcccc ctggcaccct cctccaagag cacctctggg 60
ggcacagcgg ccctgggctg cctgggtcaag gactacttcc ccgaaccggt gacggtgtcg 120
tggaactcag gcgccctgac cagcggcgtg cacaccttcc cggtctgcct acagtcctca 180
ggactctact ccctcagcag cgtgggtgacc gtgccctcca gcagcttggg caccagacc 240
tacatctgca acgtgaatca caagcccagc aacaccaagg tggacaagaa agttgagccc 300
aaatcttgtg acaaaaactca cacatgccca ccgtgcccag cacctgaact cctgggggga 360
ccgtcagtct tcctcttccc cccaaaaccc aaggacaccc tcatgatctc ccggaccctt 420
gaggtcacat gcgtgggtgtt ggacgtgagc cacgaagacc ctgaggtcaa gttcaactgg 480
tacgtggacg gcgtggaggt gcataatgcc aagacaaagc cgcgggagga gcagtacgcc 540
agcacgtacc gtgtgggtcag cgtcctcacc gtcctgcacc aggactggct gaatggcaag 600
gagtacaagt gcaaggcttc 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> 1101
 <211> 217
 <212> PRT
 <213> Artificial

<220>
 <223> Humanized antibody sequence

<400> 1101

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 Leu Ala Ser Gln Asn Ile Tyr Asn Ser
 20 25 30

Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile
 35 40 45

Tyr Arg 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 Gln Gln Gly Ala Gly Ala Asp Asn
 85 90 95

Ile Gly Asn Pro Phe Gly Gly Gly Thr Lys Val Glu Ile 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> 1102

<211> 111

<212> PRT

<213> Artificial

<220>

<223> Humanized antibody sequence

<400> 1102

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 Leu Ala Ser Gln Asn Ile Tyr Asn Ser
20 25 30

Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile
35 40 45

Tyr Arg 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 Gln Gln Gly Ala Gly Ala Asp Asn
85 90 95

Ile Gly Asn Pro Phe Gly Gly Gly Thr Lys Val Glu Ile Lys Arg
100 105 110

<210> 1103
<211> 23
<212> PRT
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 1103

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> 1104
<211> 11
<212> PRT
<213> *Oryctolagus cuniculus*

<400> 1104

Leu Ala Ser Gln Asn Ile Tyr Asn Ser Leu Ala
1 5 10

<210> 1105
<211> 15
<212> PRT
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 1105

Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile Tyr
1 5 10 15

<210> 1106
<211> 7

<212> PRT
<213> *Oryctolagus cuniculus*

<400> 1106

Arg Ala Ser Thr Leu Ala Ser
1 5

<210> 1107
<211> 32
<212> PRT
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 1107

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> 1108
<211> 12
<212> PRT
<213> *Oryctolagus cuniculus*

<400> 1108

Gln Gln Gly Ala Gly Ala Asp Asn Ile Gly Asn Pro
1 5 10

<210> 1109
<211> 11
<212> PRT
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 1109

Phe Gly Gly Gly Thr Lys Val Glu Ile Lys Arg
1 5 10

<210> 1110
<211> 106

<212> PRT
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 1110

Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln
1 5 10 15

Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr
20 25 30

Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser
35 40 45

Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr
50 55 60

Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys
65 70 75 80

His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro
85 90 95

Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
100 105

<210> 1111
<211> 651
<212> DNA
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 1111

gacatccaga tgaccagtc tccttcacc ctgtctgcat ctgtaggaga cagagtcacc	60
atcacttgtc tggccagtca gaacatttac aattctttag cctggtatca gcagaaacca	120
ggaaaagccc ctaagctcct gatctatagg gcatccactc tggcatctgg agtcccatca	180
aggttcagcg gcagtggatc tggaacagaa ttcactctca ccatcagcag cctgcagcct	240
gatgattttg caacttacta ctgtcaacag ggtgctggtg ctgataatat tggtaatcct	300

ttcggcggag gaaccaaggt ggaaatcaaa cgtacggtag cggcccatc tgtcttcac	360
ttcccgccat ctgatgagca gttgaaatct ggaactgcct ctgttggtg 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> 1112
 <211> 333
 <212> DNA
 <213> Artificial

<220>
 <223> Humanized antibody sequence

<400> 1112	
gacatccaga tgaccagtc tccttcacc ctgtctgcat ctgtaggaga cagagtcacc	60
atcacttgtc tggccagtca gaacatttac aattcttttag cctggtatca gcagaaacca	120
ggaaaagccc ctaagctcct gatctatagg gcatccactc tggcatctgg agtcccatca	180
aggttcagcg gcagtggatc tggaacagaa ttcactctca ccatcagcag cctgcagcct	240
gatgattttg caacttacta ctgtcaacag ggtgctggtg ctgataatat tggtaatcct	300
ttcggcggag gaaccaaggt ggaaatcaaa cgt	333

<210> 1113
 <211> 69
 <212> DNA
 <213> Artificial

<220>
 <223> Humanized antibody sequence

<400> 1113	
gacatccaga tgaccagtc tccttcacc ctgtctgcat ctgtaggaga cagagtcacc	60
atcacttgt	69

<210> 1114
 <211> 33
 <212> DNA
 <213> Oryctolagus cuniculus

<400> 1114
ctggccagtc agaacattta caattcttta gcc 33

<210> 1115
<211> 45
<212> DNA
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 1115
tggtatcagc agaaaccagg aaaagcccct aagctcctga tctat 45

<210> 1116
<211> 21
<212> DNA
<213> Oryctolagus cuniculus

<400> 1116
agggcatcca ctctggcatc t 21

<210> 1117
<211> 96
<212> DNA
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 1117
ggagtcccat caaggttcag cggcagtgga tctggaacag aattcactct caccatcagc 60

agcctgcagc ctgatgattt tgcaacttac tactgt 96

<210> 1118
<211> 36
<212> DNA
<213> Oryctolagus cuniculus

<400> 1118
caacagggtg ctggtgctga taatattggt aatcct 36

<210> 1119
<211> 33
<212> DNA
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 1119
ttcggcggag gaaccaaggt ggaaatcaaa cgt 33

<210> 1120
<211> 318
<212> DNA
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 1120
acggtagcgg ccccatctgt cttcatcttc ccgccatctg atgagcagtt gaaatctgga 60
actgcctctg ttgtgtgcct gctgaataac ttctatccca gagaggccaa agtacagtgg 120
aaggtggata acgccctcca atcgggtaac tcccaggaga gtgtcacaga gcaggacagc 180
aaggacagca cctacagcct cagcagcacc ctgacgctga gcaaagcaga ctacgagaaa 240
caciaagtct acgcctgcga agtcacccat cagggcctga gctcgcccgt caciaagagc 300
ttcaacaggg gagagtgt 318

<210> 1121
<211> 452
<212> PRT
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 1121

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 Phe Ser Ser Ser
20 25 30

Asp Tyr Met Cys Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp
35 40 45

Ile Gly Cys Ile Asp Ala Gly Ser Ser Gly Asp Thr Tyr Phe Ala Ser
50 55 60

Ser Ala Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr
65 70 75 80

Val Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr
85 90 95

Phe Cys Ala Arg His Leu Tyr Gly Ser Ile Thr Phe Ala Phe Gly Leu
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 Lys 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
 450

<210> 1122

<211> 123

<212> PRT

<213> Artificial

<220>

<223> Humanized antibody sequence

<400> 1122

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 Phe Ser Ser Ser
20 25 30

Asp Tyr Met Cys Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp
35 40 45

Ile Gly Cys Ile Asp Ala Gly Ser Ser Gly Asp Thr Tyr Phe Ala Ser
50 55 60

Ser Ala Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr
65 70 75 80

Val Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr
85 90 95

Phe Cys Ala Arg His Leu Tyr Gly Ser Ile Thr Phe Ala Phe Gly Leu
100 105 110

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 1123

<211> 30

<212> PRT

<213> Artificial

<220>

<223> Humanized antibody sequence

<400> 1123

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 Phe Ser
20 25 30

<210> 1124

<211> 6
<212> PRT
<213> *Oryctolagus cuniculus*

<400> 1124

Ser Ser Asp Tyr Met Cys
1 5

<210> 1125
<211> 14
<212> PRT
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 1125

Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Ile Gly
1 5 10

<210> 1126
<211> 18
<212> PRT
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 1126

Cys Ile Asp Ala Gly Ser Ser Gly Asp Thr Tyr Phe Ala Ser Ser Ala
1 5 10 15

Lys Gly

<210> 1127
<211> 32
<212> PRT
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 1127

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 Phe Cys Ala Arg
20 25 30

<210> 1128
<211> 12
<212> PRT
<213> *Oryctolagus cuniculus*

<400> 1128

His Leu Tyr Gly Ser Ile Thr Phe Ala Phe Gly Leu
1 5 10

<210> 1129
<211> 11
<212> PRT
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 1129

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
1 5 10

<210> 1130
<211> 329
<212> PRT
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 1130

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

Lys 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
325

<210> 1131

<211> 1356

<212> DNA

<213> Artificial

<220>

<223> Humanized antibody sequence

<400> 1131

gaggtgcagc ttgtggagtc tgggggaggc ttggtccagc ctgggggggtc cctgagactc	60
tcctgtgcag cctctggatt ctccttcagt agcagcgact acatgtgctg ggtccgtcag	120
gctccaggga aggggctgga gtggatcgga tgcattgatg ctggtagtag tggtgacact	180
tacttcgcga gctctgcgaa aggccgattc accatctcca gagacaattc caagaacacc	240
gtgtatcttc aaatgaacag cctgagagct gaggacactg ctgtgtatctt ctgtgctaga	300
catctttatg gtagtattac tttcgccttt ggcttgtggg gccaaaggac cctcgtcacc	360
gtctcgagcg cctccaccaa gggcccatcg gtcttcccc tggcaccctc ctccaagagc	420
acctctgggg gcacagcggc cctgggctgc ctgggtcaagg actacttccc cgaaccggtg	480
acgggtgtcgt ggaactcagg cgccctgacc agcggcgtgc acaccttccc ggctgtccta	540
cagtcctcag gactctactc cctcagcagc gtgggtgaccg tgccctccag cagcttgggc	600
accagacct acatctgcaa cgtgaatcac aagcccagca acaccaaggt ggacaagaaa	660
gttgagccca aatcttgtga caaaactcac acatgcccac cgtgcccagc acctgaactc	720
ctgggggggac cgtcagtcctt cctcttcccc ccaaaacca aggacaccct catgatctcc	780
cggaccctg aggtcacatg cgtgggtggtg gacgtgagcc acgaagacc tgaggtcaag	840

ttcaactggg	acgtggacgg	cgtggagggtg	cataatgcc	agacaaagcc	gcgggaggag	900
cagtacgcca	gcacgtaccg	tgtgggtcagc	gtcctcaccg	tcctgcacca	ggactggctg	960
aatggcaagg	agtacaagt	caaggtctcc	aacaaagccc	tcccagcccc	catcgagaaa	1020
accatctcca	aagccaaagg	gcagccccga	gaaccacagg	tgtacaccct	gcccccatcc	1080
cgggaggaga	tgaccaagaa	ccaggtcagc	ctgacctgcc	tgggtcaaagg	cttctatccc	1140
agcgacatcg	ccgtggagtg	ggagagcaat	gggcagccgg	agaacaacta	caagaccacg	1200
cctcccgtgc	tggactccga	cggctccttc	ttcctctaca	gcaagctcac	cgtggacaag	1260
agcaggtggc	agcaggggaa	cgtctttctca	tgctccgtga	tgcatgaggc	tctgcacaac	1320
cactacacgc	agaagagcct	ctccctgtct	ccgggt			1356

<210> 1132
 <211> 369
 <212> DNA
 <213> Artificial

<220>
 <223> Humanized antibody sequence

<400> 1132	
gaggtgcagc	ttgtggagtc
tgggggaggc	ttggtccagc
ctgggggggtc	cctgagactc
	60
tcctgtgcag	cctctggatt
ctccttcagt	agcagcgact
acatgtgctg	gggccgtcag
	120
gctccaggga	aggggctgga
gtggatcgga	tgcatatgat
ctggtagtag	tggtgacact
	180
tacttcgcga	gctctgcgaa
aggccgattc	accatctcca
gagacaattc	caagaacacc
	240
gtgtatcttc	aaatgaacag
cctgagagct	gaggacactg
ctgtgtatctt	ctgtgctaga
	300
catctttatg	gtagtattac
tttcgccttt	ggcttgtggg
gccaaaggac	cctcgtcacc
	360
gtctcgagc	
	369

<210> 1133
 <211> 90
 <212> DNA
 <213> Artificial

<220>
 <223> Humanized antibody sequence

<400> 1133	
gaggtgcagc	ttgtggagtc
tgggggaggc	ttggtccagc
ctgggggggtc	cctgagactc
	60

tcctgtgcag cctctggatt ctccttcagt	90
<210> 1134	
<211> 18	
<212> DNA	
<213> Oryctolagus cuniculus	
<400> 1134	
agcagcgact acatgtgc	18
<210> 1135	
<211> 42	
<212> DNA	
<213> Artificial	
<220>	
<223> Humanized antibody sequence	
<400> 1135	
tgggtccgtc aggctccagg gaaggggctg gagtggatcg ga	42
<210> 1136	
<211> 54	
<212> DNA	
<213> Artificial	
<220>	
<223> Humanized antibody sequence	
<400> 1136	
tgcattgatg ctggtagtag tggtgacact tacttcgcga gctctgcgaa aggc	54
<210> 1137	
<211> 96	
<212> DNA	
<213> Artificial	
<220>	
<223> Humanized antibody sequence	
<400> 1137	
cgattcacca tctccagaga caattccaag aacaccgtgt atcttcaa at gaacagcctg	60
agagctgagg acactgctgt gtatttctgt gctaga	96
<210> 1138	
<211> 36	
<212> DNA	
<213> Oryctolagus cuniculus	

<400> 1138
catctttatg gtagtattac tttcgccttt ggcttg 36

<210> 1139
<211> 33
<212> DNA
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 1139
tggggccaag ggaccctcgt caccgtctcg agc 33

<210> 1140
<211> 987
<212> DNA
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 1140
gcctccacca agggcccatc ggtcttcccc ctggcaccct cctccaagag cacctctggg 60
ggcacagcgg ccctgggctg cctgggtcaag gactacttcc ccgaaccggt gacgggtgtcg 120
tggaactcag gcgccctgac cagcggcgtg cacaccttcc cggctgtcct acagtcctca 180
ggactctact ccctcagcag cgtgggtgacc gtgccctcca gcagcttggg caccagacc 240
tacatctgca acgtgaatca caagcccagc aacaccaagg tggacaagaa agttgagccc 300
aaatcttgtg acaaaaactca cacatgcccc ccgtgcccag cacctgaact cctgggggga 360
ccgtcagtct tcctcttccc cccaaaaccc aaggacaccc tcatgatctc ccggaccctt 420
gaggtcacat gcgtgggtgtt ggacgtgagc cacgaagacc ctgaggtcaa gttcaactgg 480
tacgtggacg gcgtggaggt gcataatgcc aagacaaagc cgcgggagga gcagtacgcc 540
agcacgtacc gtgtgggtcag cgtcctcacc gtcctgcacc aggactggct gaatggcaag 600
gagtacaagt gcaaggcttc caacaaagcc ctcccagccc ccatcgagaa aaccatctcc 660
aaagccaaag ggcagccccg agaaccacag gtgtacaccc tgcccccatc ccgggaggag 720
atgaccaaga accaggctcag cctgacctgc ctgggtcaaag 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 tccgggt 987

<210> 1141
<211> 217
<212> PRT
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 1141

Ala Ala 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 Gly Ser Asp
20 25 30

Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile
35 40 45

Tyr Asp 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 Gln Gly Thr Tyr Tyr Ser Ser Gly
85 90 95

Trp Tyr Thr Ala Phe Gly Gly Gly Thr Lys Val Glu Ile 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> 1142
 <211> 111
 <212> PRT
 <213> Artificial

<220>
 <223> Humanized antibody sequence

<400> 1142

Ala	Ala	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	Gly	Ser	Asp
			20					25					30		
Leu	Ala	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Lys	Ala	Pro	Lys	Leu	Leu	Ile
		35					40					45			
Tyr	Asp	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	Gln	Gly	Thr	Tyr	Tyr	Ser	Ser	Gly
				85					90					95	
Trp	Tyr	Thr	Ala	Phe	Gly	Gly	Gly	Thr	Lys	Val	Glu	Ile	Lys	Arg	

100

105

110

<210> 1143
<211> 23
<212> PRT
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 1143

Ala Ala 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> 1144
<211> 11
<212> PRT
<213> *Oryctolagus cuniculus*

<400> 1144

Gln Ala Ser Gln Ser Ile Gly Ser Asp Leu Ala
1 5 10

<210> 1145
<211> 15
<212> PRT
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 1145

Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile Tyr
1 5 10 15

<210> 1146
<211> 7
<212> PRT
<213> *Oryctolagus cuniculus*

<400> 1146

Asp Ala Ser Thr Leu Ala Ser

1

5

<210> 1147
<211> 32
<212> PRT
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 1147

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> 1148
<211> 12
<212> PRT
<213> *Oryctolagus cuniculus*

<400> 1148

Gln Gly Thr Tyr Tyr Ser Ser Gly Trp Tyr Thr Ala
1 5 10

<210> 1149
<211> 11
<212> PRT
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 1149

Phe Gly Gly Gly Thr Lys Val Glu Ile Lys Arg
1 5 10

<210> 1150
<211> 106
<212> PRT
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 1150

Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln
1 5 10 15

Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr
20 25 30

Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser
35 40 45

Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr
50 55 60

Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys
65 70 75 80

His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro
85 90 95

Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
100 105

<210> 1151

<211> 651

<212> DNA

<213> Artificial

<220>

<223> Humanized antibody sequence

<400> 1151

gcagcccaga tgaccagtc tccttcacc ctgtctgcat ctgtaggaga cagagtcacc	60
atcacttgtc aggccagtca gagcattggt agcgacttag cctgggtatca gcagaaacca	120
ggaaaagccc ctaagctcct gatctatgat gcatccactc tggcatctgg agtcccatca	180
aggttcagcg gcagtggatc tggaacagaa ttcactctca ccatcagcag cctgcagcct	240
gatgattttg caacttacta ctgtcaaggc acttattata gtagtggttg gtacactgct	300
ttcggcggag gaaccaaggt ggaaatcaaa cgtacggtag cggcccatc tgtcttcac	360
ttcccgccat ctgatgagca gttgaaatct ggaactgcct ctgttggtg cctgctgaat	420
aacttctatc ccagagaggc caaagtacag tggaaggtgg ataacgcct ccaatcgggt	480

aactcccagg agagtgtcac agagcaggac agcaaggaca gcacctacag cctcagcagc	540
accctgacgc tgagcaaagc agactacgag aaacacaaag tctacgcctg cgaagtcacc	600
catcagggcc tgagctcgcc cgtcacaaag agcttcaaca ggggagagtg t	651

<210> 1152
 <211> 333
 <212> DNA
 <213> Artificial

<220>
 <223> Humanized antibody sequence

<400> 1152	
gcagcccaga tgaccagtc tccttcacc ctgtctgcat ctgtaggaga cagagtcacc	60
atcacttgtc aggccagtca gagcattggc agcgacttag cctgggtatca gcagaaacca	120
ggaaaagccc ctaagctcct gatctatgat gcatccactc tggcatctgg agtcccatca	180
aggttcagcg gcagtggatc tggaacagaa ttcactctca ccatcagcag cctgcagcct	240
gatgattttg caacttacta ctgtcaaggc acttattata gtagtggttg gtacactgct	300
ttcggcggag gaaccaaggt ggaaatcaaa cgt	333

<210> 1153
 <211> 69
 <212> DNA
 <213> Artificial

<220>
 <223> Humanized antibody sequence

<400> 1153	
gcagcccaga tgaccagtc tccttcacc ctgtctgcat ctgtaggaga cagagtcacc	60
atcacttgt	69

<210> 1154
 <211> 33
 <212> DNA
 <213> *Oryctolagus cuniculus*

<400> 1154	
caggccagtc agagcattgg tagcgactta gcc	33

<210> 1155

<211> 45
 <212> DNA
 <213> Artificial

 <220>
 <223> Humanized antibody sequence

 <400> 1155
 tggatcagc agaaaccagg aaaagcccct aagctcctga tctat 45

<210> 1156
 <211> 21
 <212> DNA
 <213> Oryctolagus cuniculus

 <400> 1156
 gatgcatcca ctctggcatc t 21

<210> 1157
 <211> 96
 <212> DNA
 <213> Artificial

 <220>
 <223> Humanized antibody sequence

 <400> 1157
 ggagtcccat caaggttcag cggcagtgga tctggaacag aattcactct caccatcagc 60
 agcctgcagc ctgatgattt tgcaacttac tactgt 96

<210> 1158
 <211> 36
 <212> DNA
 <213> Oryctolagus cuniculus

 <400> 1158
 caaggcactt attatagtag tggttggtac actgct 36

<210> 1159
 <211> 33
 <212> DNA
 <213> Artificial

 <220>
 <223> Humanized antibody sequence

 <400> 1159
 ttcggcggag gaaccaaggt ggaaatcaaa cgt 33

<210> 1160
<211> 318
<212> DNA
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 1160
acggtagcgg ccccatctgt cttcatcttc ccgcatctg atgagcagtt gaaatctgga 60
actgcctctg ttgtgtgcct gctgaataac ttctatccca gagaggccaa agtacagtgg 120
aaggtggata acgccctcca atcgggtaac tcccaggaga gtgtcacaga gcaggacagc 180
aaggacagca cctacagcct cagcagcacc ctgacgtga gcaaagcaga ctacgagaaa 240
cacaaagtct acgcctgcga agtcacccat cagggcctga gctcgcccgt cacaaagagc 300
ttcaacaggg gagagtgt 318

<210> 1161
<211> 444
<212> PRT
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 1161

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 Arg 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 Ser Ala Gly Gly Gly Ser Thr Asp Tyr Ala Asn Trp
50 55 60

Val Asn Gly Arg Phe Thr Ile Ser Arg Asp Ile Ser Lys Asn Thr Gly
65 70 75 80

Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr

85

90

95

Cys Ala Gly Asn Leu Glu Ile Trp Gly Gln 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 Lys 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

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> 1162
<211> 114
<212> PRT
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 1162

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 Arg 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 Ser Ala Gly Gly Gly Ser Thr Asp Tyr Ala Asn Trp
50 55 60

Val Asn Gly Arg Phe Thr Ile Ser Arg Asp Ile Ser Lys Asn Thr Gly
65 70 75 80

Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr
85 90 95

Cys Ala Gly Asn Leu Glu Ile Trp Gly Gln Gly Thr Leu Val Thr Val
100 105 110

Ser Ser

<210> 1163
<211> 30
<212> PRT
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 1163

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> 1164
<211> 6
<212> PRT
<213> Oryctolagus cuniculus

<400> 1164

Arg Asp Tyr Trp Ile Cys
1 5

<210> 1165
<211> 14
<212> PRT
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 1165

Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Ile Gly
1 5 10

<210> 1166
<211> 17
<212> PRT
<213> *Oryctolagus cuniculus*

<400> 1166

Cys Ile Ser Ala Gly Gly Gly Ser Thr Asp Tyr Ala Asn Trp Val Asn
1 5 10 15

Gly

<210> 1167
<211> 32
<212> PRT
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 1167

Arg Phe Thr Ile Ser Arg Asp Ile Ser Lys Asn Thr Gly Tyr Leu Gln
1 5 10 15

Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Gly
20 25 30

<210> 1168
<211> 4
<212> PRT
<213> *Oryctolagus cuniculus*

<400> 1168

Asn Leu Glu Ile
1

<210> 1169
<211> 11
<212> PRT
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 1169

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
1 5 10

<210> 1170
<211> 330
<212> PRT
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 1170

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

Lys 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> 1171
<211> 1332
<212> DNA
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 1171
gagggtgcagc ttgtggagtc tgggggaggc ttggtccagc ctgggggggtc cctgagactc 60
tcctgtgcag cctctggatt caccgtcagt agggactact ggatatgttg ggtccgtcag 120
gctccaggga aggggctgga gtggattgga tgcattagtg ctggtggtgg tagcacagac 180
tacgcgaact ggggtgaatgg ccgattcacc atctccagag acatctccaa gaacaccggt 240
tatcttcaaa tgaacagcct gagagctgag gacactgctg tgtattactg tgcgggaaat 300
ctagagatct ggggccaagg gaccctcgtc accgtctcga gcgcctccac caagggccca 360
tcggtcttcc ccctggcacc ctctccaag agcacctctg ggggcacagc ggccctgggc 420
tgcttggtca aggactactt ccccgaaccg gtgacgggtg cgtggaactc aggcgccttg 480
accagcggcg tgcacacctt cccggctgtc ctacagtcct caggactcta ctccctcagc 540
agcgtggtga ccgtgccctc cagcagcttg ggcacccaga cctacatctg caacgtgaat 600
cacaagccca gcaacaccaa ggtggacaag aaagttgagc ccaaattctg tgacaaaact 660
cacacatgcc caccgtgccc agcacctgaa ctcttggggg gaccgtcagt cttcctcttc 720
cccccaaac ccaaggacac cctcatgatc tcccggacct ctgaggtcac atgcgtggtg 780
gtggacgtga gccacgaaga ccctgaggtc aagttcaact ggtacgtgga cggcgtggag 840
gtgcataatg ccaagacaaa gccgcgggag gagcagtagc ccagcacgta ccgtgtggtc 900
agcgtcctca ccgtcctgca ccaggactgg ctgaatggca aggagtacaa gtgcaaggtc 960
tccaacaaaag ccctcccagc ccccatcgag aaaaccatct ccaaagccaa agggcagccc 1020
cgagaaccac aggtgtacac cctgccccca tcccgggagg agatgaccaa gaaccaggtc 1080
agcctgacct gcctgggtcaa 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> 1172
 <211> 342
 <212> DNA
 <213> Artificial

<220>
 <223> Humanized antibody sequence

<400> 1172	
gaggtgcagc ttgtggagtc tgggggaggc ttggtccagc ctggggggtc cctgagactc	60
tcctgtgcag cctctggatt caccgtcagt agggactact ggatatgttg ggtccgtcag	120
gctccagggga aggggctgga gtggattgga tgcattagtg ctggtggtgg tagcacagac	180
tacgcgaact ggggtgaatgg ccgattcacc atctccagag acatctccaa gaacaccggt	240
tatcttcaaa tgaacagcct gagagctgag gacactgctg tgtattactg tgcgggaaat	300
ctagagatct ggggccaagg gaccctcgtc accgtctcga gc	342

<210> 1173
 <211> 90
 <212> DNA
 <213> Artificial

<220>
 <223> Humanized antibody sequence

<400> 1173	
gaggtgcagc ttgtggagtc tgggggaggc ttggtccagc ctggggggtc cctgagactc	60
tcctgtgcag cctctggatt caccgtcagt	90

<210> 1174
 <211> 18
 <212> DNA
 <213> *Oryctolagus cuniculus*

<400> 1174	
agggactact ggatatgt	18

<210> 1175
 <211> 42
 <212> DNA

<213> Artificial

 <220>
 <223> Humanized antibody sequence

 <400> 1175
 tgggtccgtc aggctccagg gaaggggctg gagggtgattg ga 42

 <210> 1176
 <211> 51
 <212> DNA
 <213> *Oryctolagus cuniculus*

 <400> 1176
 tgcattagt ctggtggtgg tagcacagac tacgcgaact gggatgaatgg c 51

 <210> 1177
 <211> 96
 <212> DNA
 <213> Artificial

 <220>
 <223> Humanized antibody sequence

 <400> 1177
 cgattcacca tctccagaga catctccaag aacaccggtt atcttcaaat gaacagcctg 60
 agagctgagg aactgctgt gtattactgt gcggga 96

 <210> 1178
 <211> 12
 <212> DNA
 <213> *Oryctolagus cuniculus*

 <400> 1178
 aatctagaga tc 12

 <210> 1179
 <211> 33
 <212> DNA
 <213> Artificial

 <220>
 <223> Humanized antibody sequence

 <400> 1179
 tggggccaag ggaccctcgt caccgtctcg agc 33

 <210> 1180

<211> 990
<212> DNA
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 1180
gcctccacca agggcccatc ggtcttcccc ctggcaccct cctccaagag cacctctggg 60
ggcacagcgg ccctgggctg cctgggtcaag gactacttcc ccgaaccggt gacgggtgtcg 120
tggaactcag gcgccctgac cagcggcgtg cacaccttcc cggctgtcct acagtcctca 180
ggactctact ccctcagcag cgtgggtgacc gtgccctcca gcagcttggg caccagacc 240
tacatctgca acgtgaatca caagcccagc aacaccaagg tggacaagaa agttgagccc 300
aaatcttgtg acaaaaactca cacatgcccc ccgtgcccag cacctgaact cctggggggga 360
ccgtcagtct tcctcttccc cccaaaaccc aaggacaccc tcatgatctc ccggaccctt 420
gaggtcacat gcgtgggtgt ggacgtgagc cacgaagacc ctgaggtcaa gttcaactgg 480
tacgtggacg gcgtggaggt gcataatgcc aagacaaagc cgcgggagga gcagtacgcc 540
agcacgtacc gtgtgggtcag cgtcctcacc gtcctgcacc aggactggct gaatggcaag 600
gagtacaagt gcaaggctct caacaaagcc ctcccagccc ccatcgagaa aaccatctcc 660
aaagccaaag ggcagccccg agaaccacag gtgtacaccc tgcccccatc ccgggaggag 720
atgaccaaga accaggtcag cctgacctgc ctgggtcaaag 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> 1181
<211> 220
<212> PRT
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 1181

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 Ser Ser Pro Ser Ile Tyr Ser Gly	20	25	30
Ala Phe Leu Ser Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Phe	35	40	45
Leu Ile Tyr Glu Ala Ser Lys Leu Ala Ser Gly Val Pro Ser Arg Phe	50	55	60
Ser Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu	65	70	75
Gln Pro Asp Asp Phe Ala Thr Tyr Tyr Cys Leu Gly Phe Tyr Asp Cys	85	90	95
Ser Ser Val Asp Cys His Ala 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
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> 1182
<211> 114
<212> PRT
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 1182

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 Ser Ser Pro Ser Ile Tyr Ser Gly
20 25 30

Ala Phe Leu Ser Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Phe
35 40 45

Leu Ile Tyr Glu Ala Ser Lys Leu Ala Ser Gly Val Pro Ser Arg Phe
50 55 60

Ser Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu
65 70 75 80

Gln Pro Asp Asp Phe Ala Thr Tyr Tyr Cys Leu Gly Phe Tyr Asp Cys
85 90 95

Ser Ser Val Asp Cys His Ala Phe Gly Gly Gly Thr Lys Val Glu Ile
100 105 110

Lys Arg

<210> 1183
<211> 23
<212> PRT
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 1183

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> 1184
<211> 13
<212> PRT
<213> *Oryctolagus cuniculus*

<400> 1184

Gln Ser Ser Pro Ser Ile Tyr Ser Gly Ala Phe Leu Ser
1 5 10

<210> 1185
<211> 15
<212> PRT
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 1185

Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Phe Leu Ile Tyr
1 5 10 15

<210> 1186
<211> 7
<212> PRT
<213> *Oryctolagus cuniculus*

<400> 1186

Glu Ala Ser Lys Leu Ala Ser
1 5

<210> 1187
<211> 32
<212> PRT
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 1187

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> 1188
<211> 13
<212> PRT
<213> *Oryctolagus cuniculus*

<400> 1188

Leu Gly Phe Tyr Asp Cys Ser Ser Val Asp Cys His Ala
1 5 10

<210> 1189
<211> 11
<212> PRT
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 1189

Phe Gly Gly Gly Thr Lys Val Glu Ile Lys Arg
1 5 10

<210> 1190
<211> 106
<212> PRT
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 1190

Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln
1 5 10 15

Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr
20 25 30

Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser
35 40 45

Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr
50 55 60

Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys
65 70 75 80

His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro
85 90 95

Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
100 105

<210> 1191

<211> 660

<212> DNA

<213> Artificial

<220>

<223> Humanized antibody sequence

<400> 1191

gacatccaga tgacccagtc tccttcacc ctgtctgcat ctgtaggaga cagagtcacc	60
atcacttgtc agtccagtc gagtatctat agtggcgctt tcttatcctg gtatcagcag	120
aaaccaggaa aagcccctaa gttcctgata tatgaagcct ccaaactggc atctggagtc	180
ccatcaaggt tcagcggcag tggatctgga acagaattca ctctcaccat cagcagcctg	240
cagcctgatg attttgcaac ttactactgt ctaggcttct atgattgtag cagtgttgat	300
tgccatgctt tcggcggagg aaccaaggtg gaaatcaaac gtacggtagc ggccccatct	360
gtcttcatct tcccgccatc tgatgagcag ttgaaatctg gaactgcctc tgttggtgac	420
ctgctgaata acttctatcc cagagaggcc aaagtacagt ggaaggtgga taacgcctc	480
caatcgggta actcccagga gagtggtcaca gagcaggaca gcaaggacag cacctacagc	540
ctcagcagca ccctgacgct gagcaaagca gactacgaga aacacaaagt ctacgcctgc	600
gaagtcaccc atcagggcct gagctcgccc gtcacaaaga gcttcaacag gggagagtgt	660

<210> 1192

<211> 342

<212> DNA

<213> Artificial

<220>

<223> Humanized antibody sequence

<400> 1192

gacatccaga tgacccagtc tccttcacc ctgtctgcat ctgtaggaga cagagtcacc	60
atcacttgtc agtccagtc gagtatctat agtggcgctt tcttatcctg gtatcagcag	120
aaaccaggaa aagcccctaa gttcctgac tatgaagcct ccaaactggc atctggagtc	180
ccatcaaggt tcagcggcag tggatctgga acagaattca ctctaccat cagcagcctg	240
cagcctgatg attttgcaac ttactactgt ctaggcttct atgattgtag cagtgttgat	300
tgccatgctt tcggcggagg aaccaaggtg gaaatcaaac gt	342

<210> 1193

<211> 69

<212> DNA

<213> Artificial

<220>

<223> Humanized antibody sequence

<400> 1193

gacatccaga tgacccagtc tccttcacc ctgtctgcat ctgtaggaga cagagtcacc	60
atcacttgt	69

<210> 1194

<211> 39

<212> DNA

<213> Artificial

<220>

<223> Humanized antibody sequence

<400> 1194

cagtccagtc cgagtatcta tagtggcgcc ttcttatcc	39
--	----

<210> 1195

<211> 45

<212> DNA

<213> Artificial

<220>

<223> Humanized antibody sequence

<400> 1195

tggtatcagc agaaaccagg aaaagcccct aagttcctga tctat	45
---	----

<210>	1196	
<211>	21	
<212>	DNA	
<213>	Oryctolagus cuniculus	
<400>	1196	
	gaagcctcca aactggcatc t	21
<210>	1197	
<211>	96	
<212>	DNA	
<213>	Artificial	
<220>		
<223>	Humanized antibody sequence	
<400>	1197	
	ggagtcccat caaggttcag cggcagtgga tctggaacag aattcactct caccatcagc	60
	agcctgcagc ctgatgattt tgcaacttac tactgt	96
<210>	1198	
<211>	39	
<212>	DNA	
<213>	Artificial	
<220>		
<223>	Humanized antibody sequence	
<400>	1198	
	ctaggcttct atgattgtag cagtgttgat tgccatgct	39
<210>	1199	
<211>	33	
<212>	DNA	
<213>	Artificial	
<220>		
<223>	Humanized antibody sequence	
<400>	1199	
	ttcggcggag gaaccaaggt ggaaatcaaa cgt	33
<210>	1200	
<211>	318	
<212>	DNA	
<213>	Artificial	
<220>		
<223>	Humanized antibody sequence	

<400> 1200	
acggtagcgg ccccatctgt cttcatcttc ccgccatctg atgagcagtt gaaatctgga	60
actgcctctg ttgtgtgcct gctgaataac ttctatccca gagaggccaa agtacagtgg	120
aaggtggata acgccctcca atcgggtaac tcccaggaga gtgtcacaga gcaggacagc	180
aaggacagca cctacagcct cagcagcacc ctgacgctga gcaaagcaga ctacgagaaa	240
cacaaagtct acgcctgcga agtcacccat cagggcctga gctcgcccgt cacaaagagc	300
ttcaacaggg gagagtgt	318

<210> 1201

<400> 1201
000

<210> 1202

<400> 1202
000

<210> 1203

<400> 1203
000

<210> 1204

<400> 1204
000

<210> 1205

<400> 1205
000

<210> 1206

<400> 1206
000

<210> 1207

<400> 1207
000

<210> 1208

<400> 1208
000

<210> 1209

<400> 1209
000

<210> 1210

<400> 1210
000

<210> 1211

<400> 1211
000

<210> 1212

<400> 1212
000

<210> 1213

<400> 1213
000

<210> 1214

<400> 1214
000

<210> 1215

<400> 1215
000

<210> 1216

<400> 1216
000

<210> 1217

<400> 1217
000

<210> 1218

<400> 1218
000

<210> 1219

<400> 1219

000

<210> 1220

<400> 1220
000

<210> 1221

<400> 1221
000

<210> 1222

<400> 1222
000

<210> 1223

<400> 1223
000

<210> 1224

<400> 1224
000

<210> 1225

<400> 1225
000

<210> 1226

<400> 1226
000

<210> 1227

<400> 1227
000

<210> 1228

<400> 1228
000

<210> 1229

<400> 1229
000

<210> 1230

<400> 1230
000

<210> 1231

<400> 1231
000

<210> 1232

<400> 1232
000

<210> 1233

<400> 1233
000

<210> 1234

<400> 1234
000

<210> 1235

<400> 1235
000

<210> 1236

<400> 1236
000

<210> 1237

<400> 1237
000

<210> 1238

<400> 1238
000

<210> 1239

<400> 1239
000

<210> 1240

<400> 1240
000

<210> 1241

<211> 38
<212> PRT
<213> Homo sapiens

<220>
<221> MOD_RES
<222> (38)..(38)
<223> AMIDATION

<400> 1241

His	Ser	Asp	Gly	Ile	Phe	Thr	Asp	Ser	Tyr	Ser	Arg	Tyr	Arg	Lys	Gln
1				5					10					15	

Met	Ala	Val	Lys	Lys	Tyr	Leu	Ala	Ala	Val	Leu	Gly	Lys	Arg	Tyr	Lys
			20					25					30		

Gln	Arg	Val	Lys	Asn	Lys
			35		

<210> 1242
<211> 27
<212> PRT
<213> Homo sapiens

<220>
<221> MOD_RES
<222> (27)..(27)
<223> AMIDATION

<400> 1242

His	Ser	Asp	Gly	Ile	Phe	Thr	Asp	Ser	Tyr	Ser	Arg	Tyr	Arg	Lys	Gln
1				5					10					15	

Met	Ala	Val	Lys	Lys	Tyr	Leu	Ala	Ala	Val	Leu
			20					25		

<210> 1243
<211> 28
<212> PRT
<213> Homo sapiens

<220>
<221> MOD_RES
<222> (28)..(28)

<223> AMIDATION

<400> 1243

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
1 5 10 15

Met Ala Val Lys Lys Tyr Leu Asn Ser Ile Leu Asn
20 25

<210> 1244

<211> 330

<212> PRT

<213> Artificial

<220>

<223> Humanized antibody sequence

<400> 1244

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> 1245

<211> 330

<212> PRT
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 1245

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> 1246
<211> 330
<212> PRT
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 1246

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

Lys 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