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<110> Alder Biopharmaceuticals, Inc.

<120> Humanized Anti-PACAP Antibodies and Uses Thereof

<130> 43257.6374

<140> TBA

<141> 2017-04-14

<150> 62/322,939

<151> 2016-04-15

<150> 62/322,957

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<150> 62/366,902

<151> 2016-07-26

<150> 62/408,347

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

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

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

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

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

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

Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu
130 135 140

Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His
145 150 155 160

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

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

Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Ala Arg Val Glu
195 200 205

Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro
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Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys
225 230 235 240

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

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

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

Ala Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp
290 295 300

Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu
305 310 315 320

Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg
325 330 335

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

Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp
355 360 365

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

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

Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser
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Leu Thr Leu Thr Cys Thr Val Ser Gly Ile Asp Leu Asn Ser Tyr Tyr
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Met Thr Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Ile Gly
35 40 45

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

Arg Phe Thr Ile Ser Lys Thr Ser Thr Thr Val Asp Leu Lys Ile Thr
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Ser Pro Thr Thr Glu Asp Thr Ala Thr Tyr Phe Cys Ala Arg Asp Leu
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Asp Leu Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
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Ser Tyr Tyr Met Thr
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Phe Ile Asp Ala Gly Gly Asp Ala Tyr Tyr Ala Ser Trp Ala Lys Gly
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Arg Phe Thr Ile Ser Lys Thr Ser Thr Thr Val Asp Leu Lys Ile Thr
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Ser Pro Thr Thr Glu Asp Thr Ala Thr Tyr Phe Cys Ala Arg

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Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
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Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser Lys
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Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr
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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> 411
<211> 1317
<212> DNA
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 411
cagtcggtgg aggagtcgagg gggtcgcctg gtcacgcctg ggacacccct gacactcacc 60
tgcacagtct ctggaatcga cctcaatagc tactacatga cctgggtccg ccaggctcca 120
gggaaggggc tggaatggat cggattcatt gatgctgggt gtgacgcata ctacgcgagc 180
tgggcgaaaag gccgattcac catctccaaa acctcgacca cgggtggatct gaaaatcacc 240
agtccgacaa ccgaggacac ggccacctat ttctgtgcca gagatcttga cttgtggggc 300
cagggcaccc tggtcaccgt ctcgagcgcc tccaccaagg gcccatcggt cttccccctg 360
gcaccctcct ccaagagcac ctctgggggc acagcgcccc tgggctgcct ggtcaaggac 420
tacttccccg aaccggtgac ggtgtcgtgg aactcaggcg ccctgaccag cggcgtgcac 480

accttcccgg ctgtcctaca gtcctcagga ctctactccc tcagcagcgt ggtgaccgtg	540
ccctccagca gcttggggcac ccagacctac atctgcaacg tgaatcaca gcccagcaac	600
accaaggtgg acgcgagagt tgagcccaaa tcttgtgaca aaactcacac atgcccaccg	660
tgcccagcac ctgaactcct gggggggaccg tcagtcttcc tcttcccccc aaaaccaag	720
gacaccctca tgatctcccg gaccctgag gtcacatgcg tggtggtgga cgtgagccac	780
gaagaccctg aggtcaagtt caactggtac gtggacggcg tggaggtgca taatgccaag	840
acaaagccgc gggaggagca gtacgccagc acgtaccgtg tggtcagcgt cctcaccgtc	900
ctgcaccagg actggctgaa tggcaaggag tacaagtgca aggtctccaa caaagccctc	960
ccagccccca tcgagaaaac catctccaaa gccaaagggc agccccgaga accacaggtg	1020
tacaccctgc ccccatcccg ggaggagatg accaagaacc aggtcagcct gacctgcctg	1080
gtcaaaggct tctatcccag cgacatcgcc gtggagtggg agagcaatgg gcagccggag	1140
aacaactaca agaccacgcc tcccgtgctg gactccgacg gctccttctt cctctacagc	1200
aagctcaccg tggacaagag caggtggcag caggggaacg tcttctcatg ctccgtgatg	1260
catgaggctc tgcacaacca ctacacgcag aagagcctct ccctgtctcc gggtaaa	1317

<210> 412

<211> 327

<212> DNA

<213> Artificial

<220>

<223> Humanized antibody sequence

<400> 412

cagtcggtgg aggagtccgg gggtcgcctg gtcacgcctg ggacacccct gacactcacc	60
tgcacagtct ctggaatcga cctcaatagc tactacatga cctgggtccg ccaggctcca	120
gggaaggggc tggaatggat cggattcatt gatgctggtg gtgacgcata ctacgcgagc	180
tgggcgaaaag gccgattcac catctccaaa acctcgacca cggtgatct gaaaatcacc	240
agtccgacaa ccgaggacac ggccacctat ttctgtgcca gagatcttga cttgtggggc	300
cagggcaccc tggtcaccgt ctcgagc	327

<210> 413
 <211> 87
 <212> DNA
 <213> *Oryctolagus cuniculus*

 <400> 413
 cagtcggtgg aggagtccgg gggtcgcctg gtcacgcctg ggacacccct gacactcacc 60
 tgcacagtct ctggaatcga cctcaat 87

 <210> 414
 <211> 15
 <212> DNA
 <213> *Oryctolagus cuniculus*

 <400> 414
 agctactaca tgacc 15

 <210> 415
 <211> 42
 <212> DNA
 <213> *Oryctolagus cuniculus*

 <400> 415
 tgggtccgcc aggctccagg gaaggggctg gaatggatcg ga 42

 <210> 416
 <211> 48
 <212> DNA
 <213> *Oryctolagus cuniculus*

 <400> 416
 ttcattgatg ctggtggtga cgcatactac gcgagctggg cgaaaggc 48

 <210> 417
 <211> 90
 <212> DNA
 <213> *Oryctolagus cuniculus*

 <400> 417
 cgattcacca tctccaaaac ctcgaccacg gtggatctga aaatcaccag tccgacaacc 60
 gaggacacgg ccacctatit ctgtgccaga 90

<210> 418
 <211> 12
 <212> DNA
 <213> Oryctolagus cuniculus

<400> 418
 gatcttgact tg 12

<210> 419
 <211> 33
 <212> DNA
 <213> Artificial

<220>
 <223> Humanized antibody sequence

<400> 419
 tggggccagg gcaccctggg caccgtctcg agc 33

<210> 420
 <211> 990
 <212> DNA
 <213> Artificial

<220>
 <223> Humanized antibody sequence

<400> 420
 gcctccacca agggcccatc ggtcttcccc ctggcaccct cctccaagag cacctctggg 60
 ggcacagcgg ccctgggctg 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
 aaatcttggt acaaaaactca cacatgcccc cgtgcccag cacctgaact cctgggggga 360
 ccgtcagtct tcctcttccc cccaaaaccc aaggacaccc tcatgatctc ccggaccct 420
 gaggtcacat gcgtgggtgg 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
 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 gagcagggtg 900
 cagcagggga acgtcttctc atgctccgtg atgcatgagg ctctgcacaa ccactacacg 960
 cagaagagcc tctccctgtc tccgggtaaa 990

<210> 421
 <211> 216
 <212> PRT
 <213> Artificial

<220>
 <223> Humanized antibody sequence

<400> 421

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 Glu Ser Val Tyr Gly Asn
 20 25 30

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

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

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

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

85

90

95

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

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

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

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

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

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

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

Lys Ser Phe Asn Arg Gly Glu Cys
 210 215

<210> 422

<211> 110

<212> PRT

<213> Artificial

<220>

<223> Humanized antibody sequence

<400> 422

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 Glu Ser Val Tyr Gly Asn
20 25 30

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

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

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

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

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

<210> 423
<211> 23
<212> PRT
<213> Oryctolagus cuniculus

<400> 423

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> 424
<211> 12
<212> PRT
<213> Oryctolagus cuniculus

<400> 424

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

<210> 425
<211> 15
<212> PRT
<213> Oryctolagus cuniculus

<400> 425

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

<210> 426
<211> 7
<212> PRT
<213> Oryctolagus cuniculus

<400> 426

Glu	Ala	Ser	Lys	Leu	Glu	Ser
1				5		

<210> 427
<211> 32
<212> PRT
<213> Oryctolagus cuniculus

<400> 427

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	Gln	Cys	Asp	Asp	Ala	Ala	Thr	Tyr	Tyr	Cys
			20					25					30		

<210> 428
<211> 10
<212> PRT
<213> Oryctolagus cuniculus

<400> 428

Ala	Gly	Gly	Asp	Ile	Ser	Glu	Gly	Val	Ala
1				5					10

<210> 429
<211> 11
<212> PRT
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 429

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

<210> 430
<211> 106
<212> PRT
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 430

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

<210> 431
 <211> 648
 <212> DNA
 <213> Artificial

<220>
 <223> Humanized antibody sequence

<400> 431
 gccgccgtgc tgaccagac tccatctccc gtgtctgcag ctgtgggagg cacagtcacc 60
 atcaattgcc agtccagtga gagtggttac ggtaactact tagcctgggtt tcagcagaaa 120
 ccagggcagc ctcccaagct cctgatctac gaagcatcca aactggaatc tgggggtccca 180
 tcgcggttca gcggcagtgg atctgggaca cagttcactc tcaccatcag cgacttgcag 240
 tgtgacgatg ctgccactta ctactgtgca ggcggtgata ttagtgaagg tgttgctttc 300
 ggcgaggaggga ccgaggtggt ggtcaaactg 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 ctacgagaaa cacaaagtct acgcctgcga agtcacccat 600
 cagggcctga gctcgcccgt cacaaagagc ttcaacaggg gagagtgt 648

<210> 432
 <211> 330
 <212> DNA
 <213> Artificial

<220>
 <223> Humanized antibody sequence

<400> 432
 gccgccgtgc tgaccagac tccatctccc gtgtctgcag ctgtgggagg cacagtcacc 60
 atcaattgcc agtccagtga gagtggttac ggtaactact tagcctgggtt tcagcagaaa 120
 ccagggcagc ctcccaagct cctgatctac gaagcatcca aactggaatc tgggggtccca 180

tcgcggttca gcggcagtgg atctgggaca cagttcactc tcaccatcag cgacttgag	240
tgtgacgatg ctgccactta ctactgtgca ggcggtgata ttagtgaagg tggtgctttc	300
ggcggaggga ccgaggtggt ggtcaaact	330

<210> 433
 <211> 69
 <212> DNA
 <213> *Oryctolagus cuniculus*

<400> 433	
gccgccgtgc tgaccagac tccatctccc gtgtctgcag ctgtgggagg cacagtcacc	60
atcaattgc	69

<210> 434
 <211> 36
 <212> DNA
 <213> *Oryctolagus cuniculus*

<400> 434	
cagtccagtg agagtgttta cggtaactac ttagcc	36

<210> 435
 <211> 45
 <212> DNA
 <213> *Oryctolagus cuniculus*

<400> 435	
tggtttcagc agaaaccagg gcagcctccc aagctcctga tctac	45

<210> 436
 <211> 21
 <212> DNA
 <213> *Oryctolagus cuniculus*

<400> 436	
gaagcatcca aactggaatc t	21

<210> 437
 <211> 96
 <212> DNA

<213> Oryctolagus cuniculus

<400> 437

ggggtcccat cgcggttcag cggcagtgga tctgggacac agttcactct caccatcagc 60

gacttgcaat gtgacgatgc tgccacttac tactgt 96

<210> 438

<211> 30

<212> DNA

<213> Oryctolagus cuniculus

<400> 438

gcaggcgggtg atattagtga aggtgttgct 30

<210> 439

<211> 33

<212> DNA

<213> Artificial

<220>

<223> Humanized antibody sequence

<400> 439

ttcggcggag ggaccgaggt ggtgggtcaaa cgt 33

<210> 440

<211> 318

<212> DNA

<213> Artificial

<220>

<223> Humanized antibody sequence

<400> 440

acggtagcgg ccccatctgt cttcatcttc ccgcatctg atgagcagtt gaaatctgga 60

actgcctctg ttgtgtgcct gctgaataac ttctatccca gagaggccaa agtacagtgg 120

aagggtggata acgccctcca atcgggtaac tcccaggaga gtgtcacaga gcaggacagc 180

aaggacagca cctacagcct cagcagcacc ctgacgctga gcaaagcaga ctacgagaaa 240

cacaaagtct acgcctgcga agtcacccat cagggcctga gctcgcccgt cacaaagagc 300

ttcaacaggg gagagtgt 318

<210> 441
<211> 439
<212> PRT
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 441

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

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

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

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

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

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

Asp Leu Trp Gly Pro Gly Thr Leu Val Thr Val Ser Ser Ala Ser Thr
100 105 110

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

Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu
130 135 140

Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His

145		150		155		160									
Thr	Phe	Pro	Ala	Val	Leu	Gln	Ser	Ser	Gly	Leu	Tyr	Ser	Leu	Ser	Ser
				165					170					175	
Val	Val	Thr	Val	Pro	Ser	Ser	Ser	Leu	Gly	Thr	Gln	Thr	Tyr	Ile	Cys
			180					185					190		
Asn	Val	Asn	His	Lys	Pro	Ser	Asn	Thr	Lys	Val	Asp	Lys	Lys	Val	Glu
		195					200					205			
Pro	Lys	Ser	Cys	Asp	Lys	Thr	His	Thr	Cys	Pro	Pro	Cys	Pro	Ala	Pro
	210					215					220				
Glu	Leu	Leu	Gly	Gly	Pro	Ser	Val	Phe	Leu	Phe	Pro	Pro	Lys	Pro	Lys
225					230					235					240
Asp	Thr	Leu	Met	Ile	Ser	Arg	Thr	Pro	Glu	Val	Thr	Cys	Val	Val	Val
				245					250					255	
Asp	Val	Ser	His	Glu	Asp	Pro	Glu	Val	Lys	Phe	Asn	Trp	Tyr	Val	Asp
			260					265					270		
Gly	Val	Glu	Val	His	Asn	Ala	Lys	Thr	Lys	Pro	Arg	Glu	Glu	Gln	Tyr
		275					280					285			
Ala	Ser	Thr	Tyr	Arg	Val	Val	Ser	Val	Leu	Thr	Val	Leu	His	Gln	Asp
	290					295					300				
Trp	Leu	Asn	Gly	Lys	Glu	Tyr	Lys	Cys	Lys	Val	Ser	Asn	Lys	Ala	Leu
305					310					315					320
Pro	Ala	Pro	Ile	Glu	Lys	Thr	Ile	Ser	Lys	Ala	Lys	Gly	Gln	Pro	Arg
				325					330					335	
Glu	Pro	Gln	Val	Tyr	Thr	Leu	Pro	Pro	Ser	Arg	Glu	Glu	Met	Thr	Lys
			340					345					350		

Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp
355 360 365

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

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

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

Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser
420 425 430

Leu Ser Leu Ser Pro Gly Lys
435

<210> 442
<211> 109
<212> PRT
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 442

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

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

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

Phe Ile Asp Thr Asp Gly Ser Ala Tyr Tyr Ala Thr Trp Ala Lys Gly

50

55

60

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

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

Asp Leu Trp Gly Pro Gly Thr Leu Val Thr Val Ser Ser
100 105

<210> 443
<211> 29
<212> PRT
<213> Oryctolagus cuniculus

<400> 443

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

Leu Thr Leu Thr Cys Thr Val Ser Gly Ile Asp Leu Ser
20 25

<210> 444
<211> 5
<212> PRT
<213> Oryctolagus cuniculus

<400> 444

Ser Tyr Tyr Met Ser
1 5

<210> 445
<211> 14
<212> PRT
<213> Oryctolagus cuniculus

<400> 445

Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Ile Gly

1 5 10

<210> 446
<211> 16
<212> PRT
<213> Oryctolagus cuniculus

<400> 446

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

<210> 447
<211> 30
<212> PRT
<213> Oryctolagus cuniculus

<400> 447

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

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

<210> 448
<211> 4
<212> PRT
<213> Oryctolagus cuniculus

<400> 448

Asp Leu Asp Leu
1

<210> 449
<211> 11
<212> PRT
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 449

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

<210> 450
<211> 330
<212> PRT
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 450

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

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

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

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

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

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

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> 451
<211> 1317
<212> DNA
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 451
cagtcggtgg aggagtccgg gggtcgcctg gtcacgcctg ggacacccct gacactcacc 60
tgcacagtct ctggaatcga cctcagtagc tactacatga gctgggtccg ccaggctcca 120
gggaaggggc tggaatggat cggattcatt gatactgatg gtagcgcata ctacgcgacc 180
tgggcgaaaag gccgattcac catctccaaa acctcgacca cggtggtatct gaaaatcacc 240
agtccgacaa ccgaggacac ggccacctat ttctgtgcca gagatcttga cttgtggggc 300
ccgggcaccc tcgtcaccgt ctcgagcgcc tccaccaagg gcccatcggc cttccccctg 360
gcaccctcct ccaagagcac ctctgggggc acagcggccc tgggctgcct ggtcaaggac 420
tacttccccg aaccggtgac ggtgtcgtgg aactcaggcg ccctgaccag cggcgtgcac 480
accttccccg ctgtcctaca gtcctcagga ctctactccc tcagcagcgt ggtgaccgtg 540
ccctccagca gcttgggcac ccagacctac atctgcaacg tgaatcaca gcccagcaac 600
accaaggtgg acaagaaaagt tgagcccaaa tcttgtgaca aaactcacac atgcccaccg 660
tgcccagcac ctgaactcct ggggggaccg tcagtcttcc tcttcccccc aaaacccaag 720
gacaccctca tgatctcccg gaccctgag gtcacatgcg tggtggtgga cgtgagccac 780
gaagaccctg aggtcaagtt caactggtac gtggacggcg tggaggtgca taatgccaag 840
acaaagccgc gggaggagca gtacgccagc acgtaccgtg tggtcagcgt cctcaccgtc 900
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aacaactaca agaccacgcc tcccgtgctg gactccgacg gctccttctt cctctacagc 1200

aagctcaccg tggacaagag caggtggcag caggggaacg tcttctcatg ctccgtgatg	1260
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gggaaggggc tggaatggat cggattcatt gatactgatg gtagcgcata ctacgcgacc	180
tgggcgaaag gccgattcac catctccaaa acctcgacca cgggtggatct gaaaatcacc	240
agtccgacaa ccgaggacac ggccacctat ttctgtgcca gagatcttga cttgtggggc	300
ccgggcaccc tcgtcaccgt ctcgagc	327

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 <212> DNA
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<400> 453	
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tgcacagtct ctggaatcga cctcagt	87

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<400> 454	
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<210> 455

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 <212> DNA
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 <400> 455
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 <210> 456
 <211> 48
 <212> DNA
 <213> *Oryctolagus cuniculus*

 <400> 456
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 <211> 90
 <212> DNA
 <213> *Oryctolagus cuniculus*

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 <400> 458
 gatcttgact tg 12

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<210> 460
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<400> 460
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gaggtcacat gcgtgggtgt ggacgtgagc cacgaagacc ctgaggtcaa gttcaactgg 480
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Ala Ala Val Leu Thr Gln Thr Pro Ser Pro Val Ser Ala Ala Val Gly
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Gly Thr Val Ser Ile Ser Cys Gln Ser Ser Glu Ser Val Tyr Ser Asn
20 25 30

Tyr Leu Ala 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 Lys
50 55 60

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

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

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

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

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

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

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

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

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

Lys Ser Phe Asn Arg Gly Glu Cys
210 215

<210> 462

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<212> PRT

<213> Artificial

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

Tyr Leu Ala 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 Lys
50 55 60

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

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

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

<210> 463
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<212> PRT
<213> Oryctolagus cuniculus

<400> 463

Ala	Ala	Val	Leu	Thr	Gln	Thr	Pro	Ser	Pro	Val	Ser	Ala	Ala	Val	Gly
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Gly	Thr	Val	Ser	Ile	Ser	Cys
			20			

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<212> PRT
<213> Oryctolagus cuniculus

<400> 464

Gln	Ser	Ser	Glu	Ser	Val	Tyr	Ser	Asn	Tyr	Leu	Ala
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<212> PRT
<213> Oryctolagus cuniculus

<400> 465

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

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<212> PRT
<213> Oryctolagus cuniculus

<400> 466

Glu	Ala	Ser	Lys	Leu	Ala	Ser
1				5		

<210> 467
<211> 32
<212> PRT
<213> *Oryctolagus cuniculus*

<400> 467

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

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

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<212> PRT
<213> *Oryctolagus cuniculus*

<400> 468

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

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<212> PRT
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<400> 469

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

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<400> 470

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

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 ccagggcagc ctctaagtt cttgatctac gaagcatcca aactggcatc tgggggtccca 180
 tcgcggttca aaggcagtgg atctgggaca cagttcactc tcaccatcag cgacgtgcag 240
 tgtgacgatg ctggcactta ctactgtgca ggcggctata gtagtgaagg tgttgctttc 300
 ggcggaggga ccgaggtggt ggtcaaacgt acggtagcgg ccccatctgt cttcatcttc 360

ccgccatctg atgagcagtt gaaatctgga actgcctctg ttgtgtgcct gctgaataac	420
ttctatccca gagaggccaa agtacagtgg aaggtaggata acgccctcca atcgggtaac	480
tcccaggaga gtgtcacaga gcaggacagc aaggacagca cctacagcct cagcagcacc	540
ctgacgctga gcaaagcaga ctacgagaaa cacaaagtct acgcctgcga agtcacccat	600
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 <211> 330
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ccagggcagc ctctaagtt ctgatctac gaagcatcca aactggcatc tgggggtccca	180
tcgcggttca aaggcagtgg atctgggaca cagttcactc tcaccatcag cgacgtgcag	240
tgtgacgatg ctggcactta ctactgtgca ggcggctata gtagtgaagg tgttgctttc	300
ggcggaggga ccgaggtggt ggtcaaactgt	330

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 <213> *Oryctolagus cuniculus*

<400> 473	
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atcagttgc	69

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<400> 474
 cagtccagtg agagtgttta tagtaactac ttagcc 36

<210> 475
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<400> 477
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 gacgtgcagt gtgacgatgc tggcacttac tactgt 96

<210> 478
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 gcaggcggct atagtagtga aggtgttgct 30

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aaggtggata acgccctcca atcgggtaac tcccaggaga gtgtcacaga gcaggacagc 180

aaggacagca cctacagcct cagcagcacc ctgacgctga gcaaagcaga ctacgagaaa 240

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

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

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

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

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

Asp Leu Trp Gly Pro Gly Thr Leu Val Thr Val Ser Ser Ala Ser Thr

100	105	110
Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr Ser		
115	120	125
Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu		
130	135	140
Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His		
145	150	155
Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser		
165	170	175
Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys		
180	185	190
Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys Lys Val Glu		
195	200	205
Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro		
210	215	220
Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys		
225	230	235
Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val		
245	250	255
Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp		
260	265	270
Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr		
275	280	285
Ala Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp		
290	295	300

Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu
305 310 315 320

Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg
325 330 335

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

Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp
355 360 365

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

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

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

Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser
420 425 430

Leu Ser Leu Ser Pro Gly Lys
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<211> 109
<212> PRT
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 842

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

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

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

<400> 843

Gln Ser Val Glu Glu Ser Gly Gly Arg Leu Val Thr Pro Gly Thr Pro	1	5	10	15
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Leu Thr Leu Thr Cys Thr Val Ser Gly Ile Asp Leu Ser	20	25
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 <212> PRT
 <213> Oryctolagus cuniculus

<400> 844

Ser Tyr Tyr Met Thr
1 5

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<212> PRT
<213> Oryctolagus cuniculus

<400> 845

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

<210> 846
<211> 16
<212> PRT
<213> Oryctolagus cuniculus

<400> 846

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

<210> 847
<211> 30
<212> PRT
<213> Oryctolagus cuniculus

<400> 847

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

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

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Asp Leu Asp Leu

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Trp Gly Pro Gly Thr Leu Val Thr Val Ser Ser
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<400> 850

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

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

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

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

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

Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp 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

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 gggaaggggc tggaaatgggt cggattcatt gatgctgggt gtagcgcata ctacgcgacc 180
 tgggcaaaaag gccgattcac catctccaaa gcctcgacca cgggtggatct gaaaatcacc 240
 agtccgacaa ccgaggacac ggccacctat ttctgtgcca gagatcttga cttgtggggc 300
 ccgggcaccc tggtcaccgt ctcgagcgcc tccaccaagg gcccatcggg cttccccctg 360
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 tacttccccg aaccggtgac ggtgtcgtgg aactcaggcg ccctgaccag cggcgtgcac 480
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 ccctccagca gcttgggcac ccagacctac atctgcaacg tgaatcaca gcccagcaac 600
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 gacaccctca tgatctcccg gaccctgag gtcacatgcg tggtggtgga cgtgagccac 780
 gaagaccctg aggtcaagtt caactggtac gtggacggcg tggaggtgca taatgccaag 840

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ccagccccca tcgagaaaac catctccaaa gccaaagggc agccccgaga accacaggtg	1020
tacaccctgc ccccatcccc ggaggagatg accaagaacc aggtcagcct gacctgcctg	1080
gtcaaaggct tctatcccag cgacatcgcc gtggagtggg agagcaatgg gcagccggag	1140
aacaactaca agaccacgcc tcccgtgctg gactccgacg gctccttctt cctctacagc	1200
aagctcaccg tggacaagag caggtggcag caggggaacg tcttctcatg ctccgtgatg	1260
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 <213> Artificial

<220>
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gggaaggggc tggaatgggt cggattcatt gatgctgggt gtagcgcata ctacgcgacc	180
tgggcaaaaag gccgattcac catctccaaa gcctcgacca cggtggatct gaaaatcacc	240
agtccgacaa ccgaggacac ggccacctat ttctgtgcca gagatcttga cttgtggggc	300
ccgggcaccc tggtcaccgt ctcgagc	327

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tgcacagtct ctggaatcga cctcagt	87

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<210>	855	
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<400>	855	
	tgggtccgcc aggctccagg gaaggggctg gaatgggtcg ga	42
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	ttcattgatg ctggtggtag cgcatactac gcgacctggg caaaaggc	48
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<212>	DNA	
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	cgattcacca tctccaaagc ctcgaccacg gtggatctga aaatcaccag tccgacaacc	60
	gaggacacgg ccacctatct ctgtgccaga	90
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	gatcttgact tg	12

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 <212> DNA
 <213> Artificial

<220>
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 ggactctact ccctcagcag cgtgggtgacc gtgccctcca gcagcttggg caccagacc 240
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cagaagagcc tctccctgtc tccgggtaaa 990

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<212> PRT
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 861

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

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

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

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

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

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

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

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

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

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

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

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

Lys Ser Phe Asn Arg Gly Glu Cys
210 215

<210> 862

<211> 110

<212> PRT

<213> Artificial

<220>

<223> Humanized antibody sequence

<400> 862

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

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

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

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

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

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

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

<400> 863

Ala Ala Val Leu Thr Gln Thr Pro Ser Pro Val Ser Ala Ala Val Gly
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Gly Thr Val Ser Ile Ser Cys
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<212> PRT
<213> Oryctolagus cuniculus

<400> 864

Lys Ser Ser Glu Ser Val Tyr Gly Asp Tyr Leu Ala
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<210> 865
<211> 15
<212> PRT
<213> Oryctolagus cuniculus

<400> 865

Trp Phe Gln Gln Lys Pro Gly Gln Pro Pro Lys Gln Leu Ile Tyr
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<210> 866
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<212> PRT
<213> Oryctolagus cuniculus

<400> 866

Asp Ala Ser Thr Leu Ala Ser
1 5

<210> 867
<211> 32
<212> PRT
<213> Oryctolagus cuniculus

<400> 867

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

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

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

<400> 868

Ala Gly Gly Tyr Val Ser Ala Gly Val Ala
1 5 10

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

<220>
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<400> 869

Phe Gly Gly Gly Thr Glu Val Val Val Lys Arg

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

<220>
<223> Humanized antibody sequence

<400> 870

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

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<212> DNA
<213> Artificial

<220>
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atcagttgca agtccagtga gagcgtttat ggtgactact tagcctgggtt tcagcagaaa 120
ccagggcagc ctcccaagca actgatctat gatgcatcca ctctggcatc tgggggtccca 180
tcgcggttca aaggcagtgg atctgggaca cagttcactc tcaccatcag cggcgtgcag 240
tgtgacgatg ctgccactta ctactgtgca ggcggttatg ttagtgcagg tgttgctttc 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 ctacgagaaa cacaaagtct acgcctgcga agtcacccat 600
cagggcctga gctcgccgt cacaagagc ttcaacaggg gagagtgt 648

<210> 872
<211> 330
<212> DNA
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 872
gccgccgtgc tgacccagac tccatctccc gtgtctgcag ctgtgggagg cacagtcagc 60
atcagttgca agtccagtga gagcgtttat ggtgactact tagcctgggtt tcagcagaaa 120
ccagggcagc ctcccaagca actgatctat gatgcatcca ctctggcatc tgggggtccca 180
tcgcggttca aaggcagtgg atctgggaca cagttcactc tcaccatcag cggcgtgcag 240
tgtgacgatg ctgccactta ctactgtgca ggcggttatg ttagtgcagg tgttgctttc 300
ggcggaggga ccgaggtggt ggtcaaactg 330

<210> 873
<211> 69
<212> DNA

<213> Oryctolagus cuniculus

<400> 873

gccgccgtgc tgacccagac tccatctccc gtgtctgcag ctgtgggagg cacagtcagc 60

atcagttgc 69

<210> 874

<211> 36

<212> DNA

<213> Oryctolagus cuniculus

<400> 874

aagtccagtg agagcgttta tggtagtac ttagcc 36

<210> 875

<211> 45

<212> DNA

<213> Oryctolagus cuniculus

<400> 875

tggtttcagc agaaaccagg gcagcctccc aagcaactga tctat 45

<210> 876

<211> 21

<212> DNA

<213> Oryctolagus cuniculus

<400> 876

gatgcatcca ctctggcatc t 21

<210> 877

<211> 96

<212> DNA

<213> Oryctolagus cuniculus

<400> 877

gggggtcccat cgcggttcaa aggcagtgga tctgggacac agttcactct caccatcagc 60

ggcgtgcagt gtgacgatgc tgccacttac tactgt 96

<210> 878

<211> 30

<212> DNA

<213> Oryctolagus cuniculus

<400> 878
gcaggcgggtt atgttagtgc aggtgttgct 30

<210> 879
<211> 33
<212> DNA
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 879
ttcggcggag ggaccgaggt ggtgggtcaaa cgt 33

<210> 880
<211> 318
<212> DNA
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 880
acggtagcgg ccccatctgt cttcatcttc ccgcatctg atgagcagtt gaaatctgga 60
actgcctctg ttgtgtgcct gctgaataac ttctatccca gagaggccaa agtacagtgg 120
aagggtggata acgccctcca atcgggtaac tcccaggaga gtgtcacaga gcaggacagc 180
aaggacagca cctacagcct cagcagcacc ctgacgctga gcaaagcaga ctacgagaaa 240
cacaaagtct acgcctgcga agtcacccat cagggcctga gctcgcccgt cacaaagagc 300
ttcaacaggg gagagtgt 318

<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 tggaggagtc cgggggaggc ctgggtccagc 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 tctgtgcgag agactttgac	300
ttgtggggcc agggcacctt cgtcaccgtc tcgagcgcct ccaccaaggg cccatcggtc	360
ttccccctgg caccctctc caagagcacc tctgggggca cagcggccct gggctgcctg	420
gtcaaggact acttccccga accggtgacg gtgtcgtgga actcaggcgc cctgaccagc	480
ggcgtgcaca ctttcccggc tgtcctacag tcctcaggac tctactccct cagcagcgtg	540
gtgaccgtgc cctccagcag cttgggcacc cagacctaca tctgcaacgt gaatcacaag	600
cccagcaaca ccaagggtgga cgcgagagtt gagcccaaatt cttgtgacaa aactcacaca	660
tgccccaccgt gcccagcacc tgaactcctg gggggaccgt cagtcttcct cttcccccca	720
aaaccaagg acaccctcat gatctcccgg acccctgagg tcacatgcgt ggtggtggac	780
gtgagccacg aagaccctga ggtcaagttc aactggtacg tggacggcgt ggaggtgcat	840
aatgccaaaga caaagccgcg ggaggagcag tacgccagca cgtaccgtgt ggtcagcgtc	900
ctcaccgtcc tgcaccagga ctggctgaat ggcaaggagt acaagtgcaa ggtctccaac	960
aaagccctcc cagcccccat cgagaaaacc atctccaaag ccaaagggca gccccgagaa	1020
ccacaggtgt acaccctgcc cccatcccgg gaggagatga ccaagaacca ggtcagcctg	1080
acctgcctgg tcaaaggctt ctatcccagc gacatcgccg tggagtggga gagcaatggg	1140
cagccggaga acaactacaa gaccacgcct cccgtgctgg actccgacgg ctcttcttc	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 ctgggtccagc 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 cgcgggacacg gccacctatt tctgtgcgag agactttgac 300
ttgtggggcc agggcaccct cgtcaccgtc tcgagc 336

<210> 893
<211> 90
<212> DNA
<213> Oryctolagus cuniculus

<400> 893
caggagcagc tggaggagtc cgggggaggc ctgggtccagc 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

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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
aaatcttggt acaaaaactca cacatgcccc ccgtgcccag 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 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
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<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 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 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> 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
85 90 95

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 agtcagtcag gagtggttat gataacgact ggtagcctg gttccagcag 120
aaaccagggc agcctcccaa gtcctgatc tatctgacat ccactctggc atctggagtc 180
ccatcgcggt tcagcggcag tggatctggg acacagttca ctctcaccat cagtgggtgtg 240
cagtgtgacg atgtgtccac ttactactgt ctaggcggct atgatgaaga tgggtgatacg 300
catgttttcg gcggagggac cgaggtgggtg 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
agcagcaccc tgacgctgag caaagcagac tacgagaaac acaaagtcta cgcctgcgaa	600
gtcacccatc agggcctgag ctgccccgtc 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 gagtgtttat gataacgact ggtagcctg gttccagcag	120
aaaccagggc agcctcccaa gtcctgatc tatctgacat ccactctggc atctggagtc	180
ccatcgcggt tcagcggcag tggatctggg acacagttca ctctcaccat cagtgggtgtg	240
cagtgtgacg atgctgccac ttactactgt ctaggcggct atgatgaaga tggtgatacg	300
catgttttcg gcggaggagc cgaggtgggtg 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 aagtcctga 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 tggatgatacg catggt 36

<210> 919
<211> 33
<212> DNA
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 919
 ttccggcggag ggaccgaggt ggtggtcaaa cgt 33

<210> 920
 <211> 318
 <212> DNA
 <213> Artificial

<220>
 <223> Humanized antibody sequence

<400> 920
 acggtagcgg ccccatctgt cttcatcttc ccgccatctg atgagcagtt gaaatctgga 60
 actgcctctg ttgtgtgcct gctgaataac ttctatccca gagaggccaa agtacagtgg 120
 aagggtggata acgcccctcca atcgggtaac tcccaggaga gtgtcacaga gcaggacagc 180
 aaggacagca cctacagcct cagcagcacc ctgacgctga gcaaagcaga ctacgagaaa 240
 cacaaagtct acgcctgcga agtcacccat cagggcctga gctcgcccgt cacaaagagc 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
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
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 ggacacccct gacactcacc 60
 tgcaccgtct ctggattctc cctcaataac tatgcaatga gctgggtccg ccaggctcca 120
 gggaaggggc tggaatggat cggaatcatg ggtgttaatg atatcacata ctacgcgagc 180
 tgggcgaaaag gccgattcac catctccaaa acctcgacca cggtggatct gaaaatgacc 240
 agtctgacaa ccgaggacac ggccacctat ttctgtacta gagagatccg tgatgatggt 300

gatagttctg ataagttgtg gggcccgggc accctcgtca ccgtctcgag cgcctccacc	360
aagggcccat cggctcttccc cctggcaccc tcctccaaga gcacctctgg gggcacagcg	420
gccctgggct gcctgggtcaa ggactacttc cccgaaccgg tgacgggtgtc 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 tcctggggggg accgtcagtc	720
ttcctcttcc ccccaaaacc caaggacacc ctcatgatct cccggacccc tgaggtcaca	780
tgctgtgggtg tggacgtgag ccacgaagac cctgagggtca agttcaactg gtacgtggac	840
ggcgtggagg tgcataatgc caagacaaag ccgcggggagg agcagtacgc cagcacgtac	900
cgtgtgggtca gcgtcctcac cgtcctgcac caggactggc tgaatggcaa ggagtacaag	960
tgcaagggtct ccaacaaagc cctcccagcc cccatcgaga aaaccatctc caaagccaaa	1020
gggcagcccc gagaaccaca ggtgtacacc ctgcccccat cccgggagga gatgaccaag	1080
aaccagggtca gcctgacctg cctgggtcaaa ggcttctatc ccagcgacat cgccgtggag	1140
tgggagagca atgggcagcc ggagaacaac tacaagacca cgcctcccgt gctggactcc	1200
gacggctcct tcttcctcta cagcaagctc accgtggaca agagcagggtg 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

cagtcgggtgg aggagtccgg gggtcgcctg gtcacgcctg ggacaccctt gacactcacc	60
--	----

tgcaccgtct ctggattctc cctcaataac tatgcaatga gctgggtccg ccaggctcca	120
---	-----

gggaaggggc tggaatggat cggaatcatg ggtgttaatg atatcacata ctacgcgagc	180
tgggcgaaaag gccgattcac catctccaaa acctcgacca cggtggatct gaaaatgacc	240
agtctgacaa ccgaggacac ggccacctat ttctgtacta gagagatccg tgatgatggt	300
gatagttctg ataagttgtg gggcccgggc accctcgtca ccgtctcgag c	351

<210> 933
 <211> 87
 <212> DNA
 <213> *Oryctolagus cuniculus*

<400> 933	
cagtcggtgg aggagtccgg gggtcgcctg gtcacgcctg ggacaccctt 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 atgatgggtga tagttctgat aagttg 36

<210> 939
 <211> 33
 <212> DNA
 <213> Artificial

<220>
 <223> Humanized antibody sequence

<400> 939
 tggggcccg 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
 ggacacgcgg ccctgggctg cctgggtcaag gactacttcc ccgaaccggt gacggtgtcg 120
 tggaactcag gcgccctgac cagcggcgtg cacaccttcc cggtgtcct acagtcctca 180
 ggactctact ccctcagcag cgtggtgacc gtgccctcca gcagcttggg caccagacc 240
 tacatctgca acgtgaatca caagcccagc aacaccaagg tggacgcgag agttgagccc 300

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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 cgcggggagga gcagtacgcc      540
agcacgtacc gtgtgggtcag cgtcctcacc gtcctgcacc aggactggct gaatggcaag      600
gagtacaagt gcaagggtctc 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

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<210> 941
 <211> 219
 <212> PRT
 <213> Artificial

<220>
 <223> Humanized antibody sequence

<400> 941

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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 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> 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
85 90 95

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

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atcaattgcc aggccagtga ggacatttac accaatttag cctgggtatca gcagaaacca      120
gggcagcctc ccaacctcct gatctatgat gcatccgatac tggcatctgg ggtcccgtcg      180
cggttcagcg gcagtggaga tgggacacag ttactctca ccatcagcgc cgtgcagtgt      240
gaagatgctg ccacttacta ctgtcaaggt gttgcttgga gtagtaatac tggttatggt      300
tccgctttcg gcggagggac cgaggtgggtg 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
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<210> 952

<211> 339

<212> DNA
 <213> Artificial

 <220>
 <223> Humanized antibody sequence

 <400> 952
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 atcaattgcc aggccagtga ggacatttac accaatttag cctggatatca 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 tgacccagac 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
 tggatatcagc 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
 ggggtcccgt cgcggttcag cggcagtgga gatgggacac agttcactct caccatcagc 60
 gccgtgcagt gtgaagatgc tgccacttac tactgt 96

 <210> 958
 <211> 42
 <212> DNA
 <213> *Oryctolagus cuniculus*

 <400> 958
 caaggtgttg cttggagtag taatactggg tatggttccg ct 42

 <210> 959
 <211> 33
 <212> DNA
 <213> Artificial

 <220>
 <223> Humanized antibody sequence

 <400> 959
 ttcggcggag ggaccgaggt ggtgggtcaaa cgt 33

 <210> 960
 <211> 318
 <212> DNA
 <213> Artificial

 <220>
 <223> Humanized antibody sequence

<400> 960
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> 961
<211> 442
<212> PRT
<213> Artificial

<220>
<223> Humanized antibody sequence

<400> 961

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ile Asp Leu Asn Ser Tyr
20 25 30

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

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

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

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

Arg Asp Leu 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
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 Lys		
195	200	205
Lys 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
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
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<210> 962

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<220>

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<400> 962

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

<400> 964

Ser Tyr Tyr Met Thr
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<213> Artificial

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Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Ile Gly
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<210> 966

<211> 16

<212> PRT

<213> Oryctolagus cuniculus

<400> 966

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

<210> 967

<211> 32

<212> PRT

<213> Artificial

<220>

<223> Humanized antibody sequence

<400> 967

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> 968
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<213> *Oryctolagus cuniculus*

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Asp Leu Asp Leu
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<213> Artificial

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Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
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<211> 330
<212> PRT
<213> Artificial

<220>
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<400> 970

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
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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

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

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cagccggaga acaactacaa gaccacgcct cccgtgctgg actccgacgg ctccttcttc	1200
ctctacagca agctcaccgt ggacaagagc aggtggcagc aggggaacgt cttctcatgc	1260
tccgtgatgc atgaggctct gcacaaccac tacacgcaga agagcctctc cctgtctccg	1320
ggtaaa	1326

<210> 972
 <211> 336
 <212> DNA
 <213> Artificial

<220>
 <223> Humanized antibody sequence

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ccagggaagg ggctggagtg gatcggattc attgatgctg gtggtgacgc atactacgcg	180
agctgggcga aaggccgatt caccatctcc agagacaatt ccaagaacac cgtgtatctt	240
caaatgaaca gcctgagagc tgaggacact gctgtgtatt tctgtgctag agatcttgac	300
ttgtggggcc aagggaccct cgtcaccgtc tcgagc	336

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 <211> 90
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 <213> Artificial

 <220>
 <223> Humanized antibody sequence

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 tcctgtgcag cctctggaat cgacctcaat 90

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

 <400> 974
 agctactaca tgacc 15

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 <211> 42
 <212> DNA
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 <400> 975
 tgggtccgtc aggctccagg gaaggggctg gagtggatcg ga 42

 <210> 976
 <211> 48
 <212> DNA
 <213> Oryctolagus cuniculus

 <400> 976
 ttcattgatg ctggtggtga cgcatactac gcgagctggg cgaaaggc 48

 <210> 977
 <211> 96
 <212> DNA

<213> Artificial
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 <210> 978
 <211> 12
 <212> DNA
 <213> Oryctolagus cuniculus
 <400> 978
 gatcttgact tg 12
 <210> 979
 <211> 33
 <212> DNA
 <213> Artificial
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 <223> Humanized antibody sequence
 <400> 979
 tggggccaag ggaccctcgt caccgtctcg agc 33
 <210> 980
 <211> 990
 <212> DNA
 <213> Artificial
 <220>
 <223> Humanized antibody sequence
 <400> 980
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 ggacagcgg ccctgggctg cctgggtcaag gactacttcc ccgaaccggg gacgggtgtcg 120
 tggaactcag ggcacctgac cagcggcgtg cacaccttcc cggctgtcct acagtcctca 180
 ggactctact ccctcagcag cgtgggtgacc gtgccctcca gcagcttggg caccagacc 240

tacatctgca acgtgaatca caagcccagc aacaccaagg tggacaagaa agttgagccc	300
aaatcttgtg acaaaaactca cacatgcccc ccggtgcccag cacctgaact cctgggggga	360
ccgtcagtct tcctcttccc cccaaaaccc aaggacaccc tcatgatctc ccggaccct	420
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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 accagggtcag cctgacctgc ctggtcaaag gcttctatcc cagcgacatc	780
gccgtggagt gggagagcaa tgggcagccg gagaacaact acaagaccac gcctcccgtg	840
ctggactccg acggctcctt cttcctctac agcaagctca ccggtggacaa gagcagggtg	900
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<211> 216

<212> PRT

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<400> 981

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

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

Ile Tyr Glu Ala Ser Lys Leu Glu 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 Asp Ile Ser Glu
85 90 95

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

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

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

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

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

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

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

Lys Ser Phe Asn Arg Gly Glu Cys
210 215

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

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

Ile Tyr Glu Ala Ser Lys Leu Glu 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 Asp Ile Ser Glu
85 90 95

Gly Val Ala Phe Gly Gly Gly Thr Lys Val Glu Ile Lys Arg
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<210> 983

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<213> Artificial

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Asp Ala Gln Leu Thr Gln Ser Pro Ser Thr Leu Ser Ala Ser Val Gly
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Asp Arg Val Thr Ile Thr Cys
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<210> 984
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<212> PRT
<213> Oryctolagus cuniculus

<400> 984

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

<210> 985
<211> 15
<212> PRT
<213> Artificial

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<400> 985

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

<210> 986
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<212> PRT
<213> Oryctolagus cuniculus

<400> 986

Glu Ala Ser Lys Leu Glu Ser
1 5

<210> 987
<211> 32
<212> PRT
<213> Artificial

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

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Leu Thr Ile Ser Ser Leu Gln Pro Asp Asp Phe Ala Thr Tyr Tyr Cys			
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 <213> Oryctolagus cuniculus

<400> 988

Ala Gly Gly Asp Ile Ser Glu Gly Val Ala
1 5 10

<210> 989
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 <212> PRT
 <213> Artificial

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<400> 989

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

<210> 990
 <211> 106
 <212> PRT
 <213> Artificial

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<400> 990

Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln
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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

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ccaggaaaag cccctaagtt cctgatctat gaagcatcca aactggaatc tggagtccca 180
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Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ile Asp Leu Ser Ser Tyr
20 25 30

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35 40 45

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

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

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

Arg Asp Leu 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 Lys
195 200 205

Lys 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

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365

Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn
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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
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Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr
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Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
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Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ile Asp Leu Ser Ser Tyr
 20 25 30

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

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

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

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

Arg Asp Leu Asp Leu Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
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Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ile Asp Leu Ser
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<213> *Oryctolagus cuniculus*

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

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

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

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

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

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

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

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

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

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

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

Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys His Lys
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Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro Val Thr
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Lys Ser Phe Asn Arg Gly Glu Cys
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Tyr Leu Ala Trp Phe Gln Gln Lys Pro Gly Lys Ala Pro Lys Gln Leu
35 40 45

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

Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln
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Gly Val Ala Phe Gly Gly Gly Thr Lys Val Glu Ile Lys Arg
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Asp Arg Val Thr Ile Thr Cys
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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		

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Phe Gly Gly Gly Thr Lys Val Glu Ile Lys Arg
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Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr
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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
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Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
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ccaggaaaag cccctaagca actgatctat gatgcatcca ctctggcatc tggagtccca 180
tcaaggttca gcggcagtgg atctggaaca gaattcactc tcaccatcag cagcctgcag 240
cctgatgatt ttgcaactta ctactgtgca ggcggttatg ttagtgcagg tgttgctttc 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 ctacgagaaa cacaaagtct acgcctgcga agtcacccat 600
cagggcctga gctcgcccggt cacaaagagc ttcaacaggg gagagtgt 648

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

<220>
<223> Humanized antibody sequence

<400> 1232
gacgcccagc tgacccagtc tccttccacc ctgtctgcat ctgtaggaga cagagtcacc 60

atcacttgta agtccagtga gagcgtttat ggtgactact tagcctgggtt tcagcagaaa	120
ccaggaaaag cccctaagca actgatctat gatgcatcca ctctggcatc tggagtccca	180
tcaagggttca gcggcagtgg atctggaaca gaattcactc tcaccatcag cagcctgcag	240
cctgatgatt ttgcaactta ctactgtgca ggcggttatg ttagtgcagg tgttgctttc	300
ggcggaggaa ccaaggtgga aatcaaacgt	330

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 <212> DNA
 <213> Artificial

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atcacttgt	69

<210> 1234
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 <212> DNA
 <213> Oryctolagus cuniculus

<400> 1234	
aagtcagtg agagcgttta tggtagtac ttagcc	36

<210> 1235
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 <212> DNA
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<400> 1235	
tggtttcagc agaaaccagg aaaagcccct aagcaactga tctat	45

<210> 1236
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 <212> DNA

<213> Oryctolagus cuniculus
 <400> 1236
 gatgcatcca ctctggcatc t 21

<210> 1237
 <211> 96
 <212> DNA
 <213> Artificial

<220>
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<400> 1237
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 agcctgcagc ctgatgattt tgcaacttac tactgt 96

<210> 1238
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 <212> DNA
 <213> Oryctolagus cuniculus

<400> 1238
 gcaggcggtt atgttagtgc aggtgttgct 30

<210> 1239
 <211> 33
 <212> DNA
 <213> Artificial

<220>
 <223> Humanized antibody sequence

<400> 1239
 ttcggcggag gaaccaaggt ggaaatcaaa cgt 33

<210> 1240
 <211> 318
 <212> DNA
 <213> Artificial

<220>
 <223> Humanized antibody sequence

<400> 1240
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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

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

<220>
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<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

<210> 1247

<400> 1247
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<210> 1281
<211> 442
<212> PRT
<213> Artificial

<220>

<223> Humanized Antibody

<400> 1281

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ile Asp Leu Asn Ser Tyr
20 25 30

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

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

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

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

Arg Asp Leu 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 Lys
 195 200 205

Lys 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> 1282

<211> 112

<212> PRT

<213> Artificial

<220>

<223> Humanized Antibody

<400> 1282

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ile Asp Leu Asn Ser Tyr
20 25 30

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

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

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

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

85

90

95

Arg Asp Leu Asp Leu Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 100 105 110

<210> 1283
 <211> 30
 <212> PRT
 <213> Artificial

<220>
 <223> Humanized Antibody

<400> 1283

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ile Asp Leu Asn
 20 25 30

<210> 1284
 <211> 5
 <212> PRT
 <213> Oryctolagus cuniculus

<400> 1284

Ser Tyr Tyr Met Thr
 1 5

<210> 1285
 <211> 14
 <212> PRT
 <213> Artificial

<220>
 <223> Humanized Antibody

<400> 1285

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

<210> 1286
<211> 16
<212> PRT
<213> Oryctolagus cuniculus

<400> 1286

Phe	Ile	Asp	Ala	Gly	Gly	Asp	Ala	Tyr	Tyr	Ala	Ser	Trp	Ala	Lys	Gly
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<210> 1287
<211> 32
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody

<400> 1287

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> 1288
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<212> PRT
<213> Oryctolagus cuniculus

<400> 1288

Asp	Leu	Asp	Leu
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<210> 1289
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<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody

<400> 1289

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

<210> 1290

<211> 330

<212> PRT

<213> Artificial

<220>

<223> Humanized Antibody

<400> 1290

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> 1291
<211> 1326
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody

<400> 1291
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ccagggaagg ggctggagtg gatcggattc attgatgctg gtgggtgacgc atactacgcg 180
agctggggcga aaggccgatt caccatctcc agagacaatt ccaagaacac cgtgtatctt 240
caaatgaaca gcctgagagc tgaggacact gctgtgtatt tctgtgctag agatcttgac 300
ttgtggggcc aagggaccct cgtcaccgtc tcgagcgcct ccaccaaggg cccatcggtc 360
ttccccctgg caccctcctc caagagcacc tctgggggca cagcggccct gggctgcctg 420
gtcaaggact acttccccga accggtgacg gtgtcgtgga actcaggcgc cctgaccagc 480
ggcgtgcaca ctttcccggc tgtcctacag tcctcaggac tctactccct cagcagcgtg 540
gtgaccgtgc cctccagcag cttgggcacc cagacctaca tctgcaacgt gaatcacaag 600
cccagcaaca ccaagggtgga caagaaagt gagcccaaatt cttgtgacaa aactcacaca 660
tgcccaccgt gcccagcacc tgaactcctg gggggaccgt cagtcttcct cttcccccca 720
aaaccaagg acaccctcat gatctcccgg acccctgagg tcacatgcgt ggtggtggac 780
gtgagccacg aagaccctga ggtcaagttc aactggtacg tggacggcgt ggaggtgcat 840
aatgccaaga caaagccgcg ggaggagcag tacgccagca cgtaccgtgt ggtcagcgtc 900
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cagccggaga acaactacaa gaccacgcct cccgtgctgg actccgacgg ctccttcttc	1200
ctctacagca agctcaccgt ggacaagagc aggtggcagc aggggaacgt cttctcatgc	1260
tccgtgatgc atgaggctct gcacaaccac tacacgcaga agagcctctc cctgtctccg	1320
ggtaaa	1326

<210> 1292
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 <212> DNA
 <213> Artificial

<220>
 <223> Humanized Antibody

<400> 1292	
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tcctgtgcag cctctggaat cgacctcaat agctactaca tgacctgggt ccgtcaggct	120
ccagggaagg ggctggagtg gatcggattc attgatgctg gtggtgacgc atactacgcg	180
agctgggcga aaggccgatt caccatctcc agagacaatt ccaagaacac cgtgtatctt	240
caaatgaaca gcctgagagc tgaggacact gctgtgtatt tctgtgctag agatcttgac	300
ttgtggggcc aaggggaccct cgtcaccgtc tcgagc	336

<210> 1293
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 <212> DNA
 <213> Artificial

<220>
 <223> Humanized Antibody

<400> 1293	
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tcctgtgcag cctctggaat cgacctcaat	90

<210> 1294
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 <212> DNA
 <213> Oryctolagus cuniculus

<400> 1294	
agctactaca tgacc	15
<210> 1295	
<211> 42	
<212> DNA	
<213> Artificial	
<220>	
<223> Humanized Antibody	
<400> 1295	
tgggtccgtc aggctccagg gaaggggctg gagtggatcg ga	42
<210> 1296	
<211> 48	
<212> DNA	
<213> Oryctolagus cuniculus	
<400> 1296	
ttcattgatg ctggtggtga cgcatactac gcgagctggg cgaaaggc	48
<210> 1297	
<211> 96	
<212> DNA	
<213> Artificial	
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<223> Humanized Antibody	
<400> 1297	
cgattcacca tctccagaga caattccaag aacaccgtgt atcttcaa at gaacagcctg	60
agagctgagg aactgctgt gtatttctgt gctaga	96
<210> 1298	
<211> 12	
<212> DNA	
<213> Oryctolagus cuniculus	
<400> 1298	
gatcttgact tg	12

<210> 1299
 <211> 33
 <212> DNA
 <213> Artificial

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<400> 1299
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<210> 1300
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 <212> DNA
 <213> Artificial

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 <223> Humanized Antibody

<400> 1300
 gcctccacca agggcccatc ggtcttcccc ctggcaccct cctccaagag cacctctggg 60
 ggacacagcgg ccctgggctg cctgggtcaag gactacttcc ccgaaccggg 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 cacatgcccc ccgtgcccag cacctgaact cctggggggga 360
 ccgtcagtct tcctcttccc cccaaaaccc aaggacaccc tcatgatctc ccggaccct 420
 gaggtcacat gcgtgggtggg ggacgtgagc cacgaagacc ctgagggtcaa gttcaactgg 480
 tacgtggacg gcgtggaggt gcataatgcc aagacaaagc cgcgggagga gcagtacgcc 540
 agcacgtacc gtgtgggtcag cgtcctcacc gtcctgcacc aggactggct gaatggcaag 600
 gagtacaagt gcaaggtctc caacaaagcc ctcccagccc ccatcgagaa aaccatctcc 660
 aaagccaaaag ggagccccg 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> 1301
<211> 215
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody

<400> 1301

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

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

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

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

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

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

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

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

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

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

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

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

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

Ser Phe Asn Arg Gly Glu Cys
210 215

<210> 1302
<211> 109
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody

<400> 1302

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

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

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

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

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

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

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

<210> 1303
<211> 22
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody

<400> 1303

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

Arg Val Thr Ile Thr Cys
20

<210> 1304
<211> 12
<212> PRT
<213> Oryctolagus cuniculus

<400> 1304

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

<210> 1305
<211> 15
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody

<400> 1305

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

<210> 1306

<211> 7

<212> PRT

<213> Oryctolagus cuniculus

<400> 1306

Glu Ala Ser Lys Leu Glu Ser
1 5

<210> 1307

<211> 32

<212> PRT

<213> Artificial

<220>

<223> Humanized Antibody

<400> 1307

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> 1308

<211> 10

<212> PRT

<213> Oryctolagus cuniculus

<400> 1308

Ala Gly Gly Asp Ile Ser Glu Gly Val Ala
1 5 10

<210> 1309

<211> 11

<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody

<400> 1309

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

<210> 1310
<211> 106
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody

<400> 1310

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> 1311
<211> 645
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody

<400> 1311
gccgtgctga cccagtctcc ttccaccctg tctgcatctg taggagacag agtcaccatc 60
acttgtcagt ccagtgagag tgtttacggg aactacttag cctggtttca gcagaaacca 120
ggaaaagccc ctaagttcct gatctatgaa gcatccaaac tggaatctgg agtcccatca 180
aggttcagcg gcagtggatc tggaacagaa ttactctca ccatcagcag cctgcagcct 240
gatgattttg caacttacta ctgtgcaggc ggtgatatta gtgaagggtg tgctttcggc 300
ggaggaacca aggtggaaat caaacgtacg gtagcggccc catctgtctt catcttcccg 360
ccatctgatg agcagttgaa atctggaact gcctctgttg tgtgcctgct gaataacttc 420
tatcccagag aggccaaaagt acagtggaaag gtggataacg cctccaatc gggtaactcc 480
caggagagtg tcacagagca ggacagcaag gacagcacct acagcctcag cagcaccctg 540
acgctgagca aagcagacta cgagaaacac aaagtctacg cctgcgaagt caccatcag 600
ggcctgagct cgcccgtcac aaagagcttc aacagggggag agtgt 645

<210> 1312
<211> 327
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody

<400> 1312
gccgtgctga cccagtctcc ttccaccctg tctgcatctg taggagacag agtcaccatc 60
acttgtcagt ccagtgagag tgtttacggg aactacttag cctggtttca gcagaaacca 120
ggaaaagccc ctaagttcct gatctatgaa gcatccaaac tggaatctgg agtcccatca 180
aggttcagcg gcagtggatc tggaacagaa ttactctca ccatcagcag cctgcagcct 240

gatgatTTTtg caacttacta ctgtgcaggc ggtgatatta gtgaagggtgt tgctttcggc	300
ggaggaacca aggtggaaat caaacgt	327

<210> 1313
 <211> 66
 <212> DNA
 <213> Artificial

<220>
 <223> Humanized Antibody

<400> 1313	
gccgtgctga cccagtctcc ttccaccctg tctgcatctg taggagacag agtcaccatc	60
acttgt	66

<210> 1314
 <211> 36
 <212> DNA
 <213> Oryctolagus cuniculus

<400> 1314	
cagtccagtg agagtgttta cggtaactac ttagcc	36

<210> 1315
 <211> 45
 <212> DNA
 <213> Artificial

<220>
 <223> Humanized Antibody

<400> 1315	
tggtttcagc agaaaccagg aaaagcccct aagttcctga tctat	45

<210> 1316
 <211> 21
 <212> DNA
 <213> Oryctolagus cuniculus

<400> 1316	
gaagcatcca aactggaatc t	21

<210> 1317
 <211> 96
 <212> DNA
 <213> Artificial

 <220>
 <223> Humanized Antibody

 <400> 1317
 ggagtcccat caaggttcag cggcagtgga tctggaacag aattcactct caccatcagc 60
 agcctgcagc ctgatgattt tgcaacttac tactgt 96

 <210> 1318
 <211> 30
 <212> DNA
 <213> Oryctolagus cuniculus

 <400> 1318
 gcaggcgggtg atattagtga aggtgttgct 30

 <210> 1319
 <211> 33
 <212> DNA
 <213> Artificial

 <220>
 <223> Humanized Antibody

 <400> 1319
 ttcggcggag gaaccaaggt ggaaatcaaa cgt 33

 <210> 1320
 <211> 318
 <212> DNA
 <213> Artificial

 <220>
 <223> Humanized Antibody

 <400> 1320
 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> 1321
<211> 442
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody

<400> 1321

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ile Asp Leu Asn Ser Tyr
20 25 30

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

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

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

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

Arg Asp Leu 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 Lys
195 200 205

Lys 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> 1322

<211> 112

<212> PRT

<213> Artificial

<220>

<223> Humanized Antibody

<400> 1322

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ile Asp Leu Asn Ser Tyr
20 25 30

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

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

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

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

Arg Asp Leu Asp Leu Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
100 105 110

<210> 1323
<211> 30
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody

<400> 1323

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ile Asp Leu Asn
20 25 30

<210> 1324
<211> 5
<212> PRT
<213> Oryctolagus cuniculus

<400> 1324

Ser Tyr Tyr Met Thr
1 5

<210> 1325
<211> 14
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody

<400> 1325

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

<210> 1326
<211> 16
<212> PRT
<213> Oryctolagus cuniculus

<400> 1326

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

<210> 1327
<211> 32
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody

<400> 1327

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> 1328
<211> 4
<212> PRT
<213> Oryctolagus cuniculus

<400> 1328

Asp Leu Asp Leu
1

<210> 1329

<211> 11

<212> PRT

<213> Artificial

<220>

<223> Humanized Antibody

<400> 1329

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

<210> 1330

<211> 330

<212> PRT

<213> Artificial

<220>

<223> Humanized Antibody

<400> 1330

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> 1331

<211> 1326

<212> DNA

<213> Artificial

<220>

<223> Humanized Antibody

<400> 1331

gaggtgcagc ttgtggagtc tgggggaggc ttggtccagc ctgggggggtc cctgagactc	60
tcctgtgcag cctctggaat cgacctcaat agctactaca tgacctgggt ccgtcaggct	120
ccagggaagg ggctggagtg gatcggattc attgatgctg gtggtgacgc atactacgcg	180
agctgggcga aaggccgatt caccatctcc agagacaatt ccaagaacac cgtgtatctt	240
caaatgaaca gcctgagagc tgaggacact gctgtgtatt tctgtgctag agatcttgac	300
ttgtggggcc aagggaccct cgtcaccgtc tcgagcgcct ccaccaaggg cccatcggtc	360
ttccccctgg caccctcctc caagagcacc tctgggggca cagcggccct gggctgcctg	420
gtcaaggact acttccccga accggtgacg gtgtcgtgga actcaggcgc cctgaccagc	480
ggcgtgcaca ctttccggc tgtcctacag tcctcaggac tctactccct cagcagcgtg	540
gtgaccgtgc cctccagcag cttgggcacc cagacctaca tctgcaacgt gaatcacaag	600
cccagcaaca ccaaggtgga caagaaaagt gagcccaaatt cttgtgacaa aactcacaca	660
tgcccaccgt gcccagcacc tgaactcctg gggggaccgt cagtcttcct cttcccccca	720

aaacccaagg 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 ccaaagggca gccccgagaa	1020
ccacaggtgt acaccctgcc cccatcccgg gaggagatga ccaagaacca ggtcagcctg	1080
acctgcctgg tcaaaggctt ctatcccagc gacatcgccg tggagtggga gagcaatggg	1140
cagccggaga acaactacaa gaccacgcct cccgtgctgg actccgacgg ctctttcttc	1200
ctctacagca agctcaccgt ggacaagagc aggtggcagc aggggaacgt cttctcatgc	1260
tccgtgatgc atgaggctct gcacaaccac tacacgcaga agagcctctc cctgtctccg	1320
ggtaaa	1326

<210> 1332
 <211> 336
 <212> DNA
 <213> Artificial

<220>
 <223> Humanized Antibody

<400> 1332	
gaggtgcagc ttgtggagtc tgggggaggc ttggtccagc ctgggggggc cctgagactc	60
tcctgtgcag cctctggaat cgacctcaat agctactaca tgacctgggt ccgtcaggct	120
ccagggaagg ggctggagtg gatcggattc attgatgctg gtggtgacgc atactacgcg	180
agctgggcga aaggccgatt caccatctcc agagacaatt ccaagaacac cgtgtatctt	240
caaatgaaca gcctgagagc tgaggacact gctgtgtatt tctgtgctag agatcttgac	300
ttgtggggcc aagggaccct cgtcaccgtc tcgagc	336

<210> 1333
 <211> 90
 <212> DNA

<213> Artificial
 <220>
 <223> Humanized Antibody
 <400> 1333
 gaggtgcagc ttgtggagtc tgggggaggc ttggtccagc ctgggggggtc cctgagactc 60
 tcctgtgcag cctctggaat cgacctcaat 90
 <210> 1334
 <211> 15
 <212> DNA
 <213> Oryctolagus cuniculus
 <400> 1334
 agctactaca tgacc 15
 <210> 1335
 <211> 42
 <212> DNA
 <213> Artificial
 <220>
 <223> Humanized Antibody
 <400> 1335
 tgggtccgtc aggctccagg gaaggggctg gagtggatcg ga 42
 <210> 1336
 <211> 48
 <212> DNA
 <213> Oryctolagus cuniculus
 <400> 1336
 ttcattgatg ctggtggtga cgcatactac gcgagctggg cgaaaggc 48
 <210> 1337
 <211> 96
 <212> DNA
 <213> Artificial
 <220>
 <223> Humanized Antibody

<400> 1337
cgattcacca tctccagaga caattccaag aacaccgtgt atcttcaa at gaacagcctg 60
agagctgagg acactgctgt gtatttctgt gctaga 96

<210> 1338
<211> 12
<212> DNA
<213> Oryctolagus cuniculus

<400> 1338
gatcttgact tg 12

<210> 1339
<211> 33
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody

<400> 1339
tggggccaag ggaccctcgt caccgtctcg agc 33

<210> 1340
<211> 990
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody

<400> 1340
gcctccacca agggcccatc ggtcttcccc ctggcacct 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 tggacaagaa agttgagccc 300
aaatcttgtg acaaaaactca cacatgcccc ccgtgcccag cacctgaact cctggggggga 360
ccgtcagtct tcctcttccc cccaaaaccc aaggacaccc tcatgatctc ccggaccct 420

gaggtcacat gcgtgggtgt ggacgtgagc cacgaagacc ctgaggtcaa gttcaactgg 480
tacgtggacg gcgtggaggt gcataatgcc aagacaaaagc cgcgaggagga gcagtacgcc 540
agcacgtacc gtgtgggtcag cgtcctcacc gtcctgcacc aggactggct gaatggcaag 600
gagtacaagt gcaaggtctc caacaaagcc ctcccagccc ccatcgagaa aaccatctcc 660
aaagccaaaag 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
cagcaggggga acgtcttctc atgctccgtg atgcatgagg ctctgcacaa ccactacacg 960
cagaagagcc tctccctgtc tccgggtaaa 990

<210> 1341
<211> 216
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody

<400> 1341

Asp Ile 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 Glu Ser Val Tyr Gly Asn
20 25 30

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

Ile Tyr Glu Ala Ser Lys Leu Glu 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 Asp	Ile Ser Glu			
	85	90	95			
Gly Val Ala Phe	Gly Gly Gly Thr	Lys Val Glu Ile	Lys Arg Thr Val			
	100	105	110			
Ala Ala Pro Ser	Val Phe Ile Phe	Pro Pro Ser Asp	Glu Gln Leu Lys			
	115	120	125			
Ser Gly Thr Ala	Ser Val Val Cys	Leu Leu Asn Asn	Phe Tyr Pro Arg			
	130	135	140			
Glu Ala Lys Val	Gln Trp Lys Val	Asp Asn Ala Leu	Gln Ser Gly Asn			
145	150	155	160			
Ser Gln Glu Ser	Val Thr Glu Gln	Asp Ser Lys Asp	Ser Thr Tyr Ser			
	165	170	175			
Leu Ser Ser Thr	Leu Thr Leu Ser	Lys Ala Asp Tyr	Glu Lys His Lys			
	180	185	190			
Val Tyr Ala Cys	Glu Val Thr His	Gln Gly Leu Ser	Ser Pro Val Thr			
	195	200	205			
Lys Ser Phe Asn	Arg Gly Glu Cys					
	210	215				

<210> 1342
 <211> 110
 <212> PRT
 <213> Artificial

<220>
 <223> Humanized Antibody

<400> 1342

Asp Ile 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 Glu Ser Val Tyr Gly Asn
20 25 30

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

Ile Tyr Glu Ala Ser Lys Leu Glu 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 Asp Ile Ser Glu
85 90 95

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

<210> 1343
<211> 23
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody

<400> 1343

Asp Ile 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> 1344
<211> 12
<212> PRT

<213> Oryctolagus cuniculus

<400> 1344

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

<210> 1345

<211> 15

<212> PRT

<213> Artificial

<220>

<223> Humanized Antibody

<400> 1345

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

<210> 1346

<211> 7

<212> PRT

<213> Oryctolagus cuniculus

<400> 1346

Glu Ala Ser Lys Leu Glu Ser
1 5

<210> 1347

<211> 32

<212> PRT

<213> Artificial

<220>

<223> Humanized Antibody

<400> 1347

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> 1348
<211> 10
<212> PRT
<213> Oryctolagus cuniculus

<400> 1348

Ala Gly Gly Asp Ile Ser Glu Gly Val Ala
1 5 10

<210> 1349
<211> 11
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody

<400> 1349

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

<210> 1350
<211> 106
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody

<400> 1350

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> 1351

<211> 648

<212> DNA

<213> Artificial

<220>

<223> Humanized Antibody

<400> 1351

gacatccagc tgacccagtc tccttccacc ctgtctgcat ctgtaggaga cagagtcacc	60
atcacttgtc agtcagtgga gagtggttac ggtaactact tagcctgggtt tcagcagaaa	120
ccaggaaaag cccctaagtt cctgatctat gaagcatcca aactggaatc tggagtccca	180
tcaaggttca gcggcagtgga atctggaaca gaattcactc tcaccatcag cagcctgcag	240
cctgatgatt ttgcaactta ctactgtgca ggcggtgata ttagtgaagg tgttgctttc	300
ggcggaggaa ccaaggtgga aatcaaactg acggtagcgg ccccatctgt cttcatcttc	360
ccgccatctg atgagcagtt gaaatctgga actgcctctg ttgtgtgcct gctgaataac	420
ttctatccca gagaggccaa agtacagtgg aaggtaggata acgccctcca atcgggtaac	480
tcccaggaga gtgtcacaga gcaggacagc aaggacagca cctacagcct cagcagcacc	540
ctgacgctga gcaaagcaga ctacgagaaa cacaaggtct acgcctgcga agtcacccat	600
cagggcctga gctcgcccgt cacaagagc ttcaacaggg gagagtgt	648

<210> 1352

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

<220>
<223> Humanized Antibody

<400> 1352
gacatccagc tgacccagtc tccttccacc ctgtctgcat ctgtaggaga cagagtcacc 60
atcacttgtc agtccagtga gagtgtttac ggtaactact tagcctgggtt tcagcagaaa 120
ccaggaaaag cccctaagtt cctgatctat gaagcatcca aactggaatc tggagtccca 180
tcaaggttca gcggcagtgg atctggaaca gaattcactc tcaccatcag cagcctgcag 240
cctgatgatt ttgcaactta ctactgtgca ggcggtgata ttagtgaagg tgttgctttc 300
ggcggaggaa ccaaggtgga aatcaaactg 330

<210> 1353
<211> 69
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody

<400> 1353
gacatccagc tgacccagtc tccttccacc ctgtctgcat ctgtaggaga cagagtcacc 60
atcacttgt 69

<210> 1354
<211> 36
<212> DNA
<213> *Oryctolagus cuniculus*

<400> 1354
cagtccagtg agagtgttta cggtaactac ttagcc 36

<210> 1355
<211> 45
<212> DNA
<213> Artificial

<220>
 <223> Humanized Antibody

<400> 1355
 tggtttcagc agaaaccagg aaaagcccct aagttcctga tctat 45

<210> 1356
 <211> 21
 <212> DNA
 <213> Oryctolagus cuniculus

<400> 1356
 gaagcatcca aactggaatc t 21

<210> 1357
 <211> 96
 <212> DNA
 <213> Artificial

<220>
 <223> Humanized Antibody

<400> 1357
 ggagtcccat caaggttcag cggcagtgga tctggaacag aattcactct caccatcagc 60
 agcctgcagc ctgatgattt tgcaacttac tactgt 96

<210> 1358
 <211> 30
 <212> DNA
 <213> Oryctolagus cuniculus

<400> 1358
 gcaggcgggtg atattagtga aggtgttgct 30

<210> 1359
 <211> 33
 <212> DNA
 <213> Artificial

<220>
 <223> Humanized Antibody

<400> 1359
 ttcggcggag gaaccaaggt ggaaatcaaa cgt 33

<210> 1360
<211> 318
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody

<400> 1360
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> 1361
<211> 442
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody

<400> 1361

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ile Asp Leu Asn Ser Tyr
20 25 30

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

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

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

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

Arg Asp Leu 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 Lys
195 200 205

Lys 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> 1362

<211> 112
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody

<400> 1362

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ile Asp Leu Asn Ser Tyr
20 25 30

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

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

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

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

Arg Asp Leu Asp Leu Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
100 105 110

<210> 1363
<211> 30
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody

<400> 1363

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ile Asp Leu Asn
20 25 30

<210> 1364
<211> 5
<212> PRT
<213> Oryctolagus cuniculus

<400> 1364

Ser Tyr Tyr Met Thr
1 5

<210> 1365
<211> 14
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody

<400> 1365

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

<210> 1366
<211> 16
<212> PRT
<213> Oryctolagus cuniculus

<400> 1366

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

<210> 1367
<211> 32
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody

<400> 1367

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> 1368

<211> 4

<212> PRT

<213> Oryctolagus cuniculus

<400> 1368

Asp Leu Asp Leu
1

<210> 1369

<211> 11

<212> PRT

<213> Artificial

<220>

<223> Humanized Antibody

<400> 1369

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

<210> 1370

<211> 330

<212> PRT

<213> Artificial

<220>

<223> Humanized Antibody

<400> 1370

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> 1371
 <211> 1326
 <212> DNA
 <213> Artificial

<220>
 <223> Humanized Antibody

<400> 1371
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 tcctgtgcag cctctggaat cgacctcaat agctactaca tgacctgggt ccgtcaggct 120
 ccagggaagg ggctggagtg gatcggattc attgatgctg gtggtgacgc atactacgcg 180
 agctgggcca aaggccgatt caccatctcc agagacaatt ccaagaacac cgtgtatctt 240

caaatgaaca gcctgagagc tgaggacact gctgtgtatt tctgtgctag agatcttgac	300
ttgtggggcc aagggaccct cgtcaccgtc tcgagcgct ccaccaagg cccatcggtc	360
ttccccctgg caccctcctc caagagcacc tctgggggca cagcggccct gggctgcctg	420
gtcaaggact acttccccga accggtgacg gtgtcgtgga actcaggcgc cctgaccagc	480
ggcgtgcaca ctttcccggtc tgccttacag tcctcaggac tctactccct cagcagcgtg	540
gtgaccgtgc cctccagcag cttgggcacc cagacctaca tctgcaacgt gaatcacaag	600
cccagcaaca ccaaggtgga caagaaagt gagcccaaatt cttgtgacaa aactcacaca	660
tgcccaccgt gcccagcacc tgaactcctg gggggaccgt cagtcttcct cttcccccca	720
aaacccaagg 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 ccaaagggca 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> 1372

<211> 336

<212> DNA

<213> Artificial

<220>

<223> Humanized Antibody

<400> 1372

gaggtgcagc ttgtggagtc tgggggaggc ttggtccagc ctgggggggtc cctgagactc	60
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tcctgtgcag cctctggaat cgacctcaat agctactaca tgacctgggt ccgtcaggct	120
ccagggaagg ggctggagtg gatcggattc attgatgctg gtgggtgacgc atactacgcg	180
agctgggcca aaggccgatt caccatctcc agagacaatt ccaagaacac cgtgtatctt	240
caaatgaaca gcctgagagc tgaggacact gctgtgtatt tctgtgctag agatcttgac	300
ttgtggggcc aagggaccct cgtcaccgtc tcgagc	336

<210> 1373
 <211> 90
 <212> DNA
 <213> Artificial

<220>
 <223> Humanized Antibody

<400> 1373	
gaggtgcagc ttgtggagtc tgggggaggc ttgggtccagc ctgggggggtc cctgagactc	60
tcctgtgcag cctctggaat cgacctcaat	90

<210> 1374
 <211> 15
 <212> DNA
 <213> Oryctolagus cuniculus

<400> 1374	
agctactaca tgacc	15

<210> 1375
 <211> 42
 <212> DNA
 <213> Artificial

<220>
 <223> Humanized Antibody

<400> 1375	
tgggtccgtc aggctccagg gaaggggctg gagtggatcg ga	42

<210> 1376
 <211> 48

<212> DNA
 <213> Oryctolagus cuniculus

 <400> 1376
 ttcatatgatg ctggtggtga cgcatactac gcgagctggg cgaaaggc 48

 <210> 1377
 <211> 96
 <212> DNA
 <213> Artificial

 <220>
 <223> Humanized Antibody

 <400> 1377
 cgattcacca tctccagaga caattccaag aacaccgtgt atcttcaa at gaacagcctg 60
 agagctgagg acactgctgt gtatttctgt gctaga 96

 <210> 1378
 <211> 12
 <212> DNA
 <213> Oryctolagus cuniculus

 <400> 1378
 gatcttgact tg 12

 <210> 1379
 <211> 33
 <212> DNA
 <213> Artificial

 <220>
 <223> Humanized Antibody

 <400> 1379
 tggggccaag ggaccctcgt caccgtctcg agc 33

 <210> 1380
 <211> 990
 <212> DNA
 <213> Artificial

 <220>
 <223> Humanized Antibody

<400> 1380
 gcctccacca agggcccatc ggtcttcccc ctggcaccct cctccaagag cacctctggg 60
 ggacacagcgg ccctgggctg cctgggtcaag gactacttcc ccgaaccggt gacgggtgtcg 120
 tggaaactcag gcgccctgac cagcggcgtg cacaccttcc cggctgtcct acagtcctca 180
 ggactctact ccctcagcag cgtggtgacc gtgccctcca gcagcttggg caccagacc 240
 tacatctgca acgtgaatca caagcccagc aacaccaagg tggacaagaa agttgagccc 300
 aaatcttgtg aaaaaactca cacatgcccc ccgtgcccag 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 gtgtgggtcag cgtcctcacc gtcctgcacc aggactggct gaatggcaag 600
 gagtacaagt gcaagggtct caacaaagcc ctcccagccc ccatcgagaa aaccatctcc 660
 aaagccaaaag ggacgccccg 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
 cagcaggggga acgtcttctc atgctccgtg atgcatgagg ctctgcacaa ccactacacg 960
 cagaagagcc tctccctgtc tccgggtaaa 990

<210> 1381
 <211> 216
 <212> PRT
 <213> Artificial

<220>
 <223> Humanized Antibody

<400> 1381

Asp	Ile	Val	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 Glu Ser Val Tyr Gly Asn
20 25 30

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

Ile Tyr Glu Ala Ser Lys Leu Glu 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 Asp Ile Ser Glu
85 90 95

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

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

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

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

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

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

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

Lys Ser Phe Asn Arg Gly Glu Cys
210 215

<210> 1382
<211> 110
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody

<400> 1382

Asp Ile Val 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 Glu Ser Val Tyr Gly Asn
20 25 30

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

Ile Tyr Glu Ala Ser Lys Leu Glu 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 Asp Ile Ser Glu
85 90 95

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

<210> 1383
<211> 23
<212> PRT
<213> Artificial

<220>

<223> Humanized Antibody

<400> 1383

Asp Ile Val 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> 1384

<211> 12

<212> PRT

<213> Oryctolagus cuniculus

<400> 1384

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

<210> 1385

<211> 15

<212> PRT

<213> Artificial

<220>

<223> Humanized Antibody

<400> 1385

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

<210> 1386

<211> 7

<212> PRT

<213> Oryctolagus cuniculus

<400> 1386

Glu Ala Ser Lys Leu Glu Ser
1 5

<210> 1387

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

<220>
<223> Humanized Antibody

<400> 1387

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> 1388
<211> 10
<212> PRT
<213> Oryctolagus cuniculus

<400> 1388

Ala Gly Gly Asp Ile Ser Glu Gly Val Ala
1 5 10

<210> 1389
<211> 11
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody

<400> 1389

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

<210> 1390
<211> 106
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody

<400> 1390

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> 1391

<211> 648

<212> DNA

<213> Artificial

<220>

<223> Humanized Antibody

<400> 1391

gacatcgtgc tgaccagtc tccttccacc ctgtctgcat ctgtaggaga cagagtcacc 60
atcacttgtc agtcagtg gagtggttac ggtaactact tagcctgggtt tcagcagaaa 120
ccaggaaaag cccctaagtt cctgatctat gaagcatcca aactggaatc tggagtccca 180
tcaaggttca gcggcagtg atctggaaca gaattcactc tcaccatcag cagcctgcag 240
cctgatgatt ttgcaactta ctactgtgca ggcggtgata ttagtgaagg tgttgctttc 300

ggcggaggaa ccaaggtgga aatcaaactg acggtagcgg ccccatctgt cttcatcttc	360
ccgccatctg atgagcagtt gaaatctgga actgcctctg ttgtgtgcct gctgaataac	420
ttctatccca gagaggccaa agtacagtgg aaggtggata acgccctcca atcgggtaac	480
tcccaggaga gtgtcacaga gcaggacagc aaggacagca cctacagcct cagcagcacc	540
ctgacgctga gcaaagcaga ctacgagaaa cacaaagtct acgcctgcga agtcacccat	600
cagggcctga gctcgcccgt cacaaagagc ttcaacaggg gagagtgt	648

<210> 1392

<211> 330

<212> DNA

<213> Artificial

<220>

<223> Humanized Antibody

<400> 1392

gacatcgtgc tgacccagtc tccttccacc ctgtctgcat ctgtaggaga cagagtcacc	60
atcacttgtc agtccagtga gagtgtttac ggtaactact tagcctgggtt tcagcagaaa	120
ccaggaaaag cccctaagtt cctgatctat gaagcatcca aactggaatc tggagtccca	180
tcaaggttca gcggcagtgg atctggaaca gaattcactc tcaccatcag cagcctgcag	240
cctgatgatt ttgcaactta ctactgtgca ggcggtgata ttagtgaagg tgttgctttc	300
ggcggaggaa ccaaggtgga aatcaaactg	330

<210> 1393

<211> 69

<212> DNA

<213> Artificial

<220>

<223> Humanized Antibody

<400> 1393

gacatcgtgc tgacccagtc tccttccacc ctgtctgcat ctgtaggaga cagagtcacc	60
atcacttgt	69

<210> 1394
 <211> 36
 <212> DNA
 <213> *Oryctolagus cuniculus*

 <400> 1394
 cagtccagtg agagtgttta cggtaactac ttagcc 36

 <210> 1395
 <211> 45
 <212> DNA
 <213> Artificial

 <220>
 <223> Humanized Antibody

 <400> 1395
 tggtttcagc agaaaccagg aaaagcccct aagttcctga tctat 45

 <210> 1396
 <211> 21
 <212> DNA
 <213> *Oryctolagus cuniculus*

 <400> 1396
 gaagcatcca aactggaatc t 21

 <210> 1397
 <211> 96
 <212> DNA
 <213> Artificial

 <220>
 <223> Humanized Antibody

 <400> 1397
 ggagtcccat caaggttcag cggcagtgga tctggaacag aattcactct caccatcagc 60

 agcctgcagc ctgatgattt tgcaacttac tactgt 96

 <210> 1398
 <211> 30
 <212> DNA
 <213> *Oryctolagus cuniculus*

<400> 1398
gcaggcgggtg atattagtga aggtgttgct 30

<210> 1399
<211> 33
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody

<400> 1399
ttcggcggag gaaccaaggt ggaaatcaaa cgt 33

<210> 1400
<211> 318
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody

<400> 1400
acggtagcgg ccccatctgt cttcatcttc ccgcatctg atgagcagtt gaaatctgga 60
actgcctctg ttgtgtgcct gctgaataac ttctatcca gagaggccaa agtacagtgg 120
aagggtggata acgccctcca atcgggtaac tcccaggaga gtgtcacaga gcaggacagc 180
aaggacagca cctacagcct cagcagcacc ctgacgctga gcaaagcaga ctacgagaaa 240
cacaaagtct acgcctgcga agtcacccat cagggcctga gctcgcccgt cacaaagagc 300
ttcaacaggg gagagtgt 318

<210> 1401
<211> 442
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody

<400> 1401

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ile Asp Leu Asn Ser Tyr
20 25 30

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

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

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

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

Arg Asp Leu 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 Lys

195

200

205

Lys 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> 1402

<211> 112

<212> PRT

<213> Artificial

<220>

<223> Humanized Antibody

<400> 1402

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ile Asp Leu Asn Ser Tyr
20 25 30

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

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

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

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

Arg Asp Leu Asp Leu Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser

100

105

110

<210> 1403
 <211> 30
 <212> PRT
 <213> Artificial

<220>
 <223> Humanized Antibody

<400> 1403

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ile Asp Leu Asn
 20 25 30

<210> 1404
 <211> 5
 <212> PRT
 <213> Oryctolagus cuniculus

<400> 1404

Ser Tyr Tyr Met Thr
 1 5

<210> 1405
 <211> 14
 <212> PRT
 <213> Artificial

<220>
 <223> Humanized Antibody

<400> 1405

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

<210> 1406
 <211> 16
 <212> PRT

<213> Oryctolagus cuniculus

<400> 1406

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

<210> 1407

<211> 32

<212> PRT

<213> Artificial

<220>

<223> Humanized Antibody

<400> 1407

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> 1408

<211> 4

<212> PRT

<213> Oryctolagus cuniculus

<400> 1408

Asp	Leu	Asp	Leu
1			

<210> 1409

<211> 11

<212> PRT

<213> Artificial

<220>

<223> Humanized Antibody

<400> 1409

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

<210> 1410
<211> 330
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody

<400> 1410

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

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

$\langle 210 \rangle$	1411
$\langle 211 \rangle$	1326

<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody

<400> 1411
gaggtgcagc ttgtggagtc tgggggaggc ttggtccagc ctgggggggtc cctgagactc 60
tcctgtgcag cctctggaat cgacctcaat agctactaca tgacctgggt ccgtcaggct 120
ccagggaagg ggctggagtg gatcggattc attgatgctg gtggtgacgc atactacgcg 180
agctgggcga aaggccgatt caccatctcc agagacaatt ccaagaacac cgtgtatctt 240
caaatgaaca gcctgagagc tgaggacact gctgtgtatt tctgtgctag agatcttgac 300
ttgtggggcc aaggggaccct cgtcaccgtc tcgagcgcct ccaccaaggg cccatcggtc 360
ttccccctgg caccctcctc caagagcacc tctgggggca cagcggccct gggctgcctg 420
gtcaaggact acttccccga accggtgacg gtgtcgtgga actcaggcgc cctgaccagc 480
ggcgtgcaca cttccccggc tgtcctacag tcctcaggac tctactccct cagcagcgtg 540
gtgaccgtgc cctccagcag cttgggcacc cagacctaca tctgcaacgt gaatcacaag 600
cccagcaaca ccaaggtgga caagaaagt gagcccaaatt cttgtgacaa aactcacaca 660
tgcccaccgt gcccagcacc tgaactcctg ggggggaccgt cagtcttcct cttcccccca 720
aaacccaagg 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 ccaaagggca gccccgagaa 1020
ccacaggtgt acaccctgcc cccatcccgg gaggagatga ccaagaacca ggtcagcctg 1080
acctgcctgg tcaaaggctt ctatcccagc gacatcgccg tggagtggga gagcaatggg 1140
cagccggaga acaactacaa gaccacgcct cccgtgctgg actccgacgg ctctttcttc 1200
ctctacagca agctcaccgt ggacaagagc aggtggcagc aggggaacgt cttctcatgc 1260

tccgtgatgc atgaggctct gcacaaccac tacacgcaga agagcctctc cctgtctccg	1320
ggtaaa	1326

<210> 1412
 <211> 336
 <212> DNA
 <213> Artificial

<220>
 <223> Humanized Antibody

<400> 1412	
gaggtgcagc ttgtggagtc tgggggaggc ttgggtccagc ctgggggggtc cctgagactc	60
tcctgtgcag cctctggaat cgacctcaat agctactaca tgacctgggt ccgtcaggct	120
ccagggaagg ggctggagtg gatcggattc attgatgctg gtgggtgacgc atactacgcg	180
agctgggcga aaggccgatt caccatctcc agagacaatt ccaagaacac cgtgtatctt	240
caaatgaaca gcctgagagc tgaggacact gctgtgtatt tctgtgctag agatcttgac	300
ttgtggggcc aaggggaccct cgtcacccgtc tcgagc	336

<210> 1413
 <211> 90
 <212> DNA
 <213> Artificial

<220>
 <223> Humanized Antibody

<400> 1413	
gaggtgcagc ttgtggagtc tgggggaggc ttgggtccagc ctgggggggtc cctgagactc	60
tcctgtgcag cctctggaat cgacctcaat	90

<210> 1414
 <211> 15
 <212> DNA
 <213> Oryctolagus cuniculus

<400> 1414	
agctactaca tgacc	15

<210> 1415
 <211> 42
 <212> DNA
 <213> Artificial

 <220>
 <223> Humanized Antibody

 <400> 1415
 tgggtccgtc aggctccagg gaaggggctg gaggatcg ga 42

 <210> 1416
 <211> 48
 <212> DNA
 <213> *Oryctolagus cuniculus*

 <400> 1416
 ttcattgatg ctggtggtga cgcatactac gcgagctggg cgaaaggc 48

 <210> 1417
 <211> 96
 <212> DNA
 <213> Artificial

 <220>
 <223> Humanized Antibody

 <400> 1417
 cgattcacca tctccagaga caattccaag aacaccgtgt atcttcaa at gaacagcctg 60
 agagctgagg aactgctgt gtatttctgt gctaga 96

 <210> 1418
 <211> 12
 <212> DNA
 <213> *Oryctolagus cuniculus*

 <400> 1418
 gatcttgact tg 12

 <210> 1419
 <211> 33
 <212> DNA
 <213> Artificial

<220>

<223> Humanized Antibody

<400> 1419

tggggccaag ggaccctcgt caccgtctcg agc

33

<210> 1420

<211> 990

<212> DNA

<213> Artificial

<220>

<223> Humanized Antibody

<400> 1420

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 tggacaagaa agttgagccc 300

aaatcttgtg aaaaaactca cacatgcccc ccgtgcccag cacctgaact cctggggggga 360

ccgtcagtct tcctcttccc cccaaaaccc aaggacaccc tcatgatctc ccggaccct 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

aaagccaaaag 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 gagcagggtg 900

cagcagggga acgtcttctc atgctccgtg atgcatgagg ctctgcacaa ccactacacg 960

cagaagagcc tctccctgtc tccgggtaaa

990

<210> 1421

<211> 214

<212> PRT

<213> Artificial

<220>

<223> Humanized Antibody

<400> 1421

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

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

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

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

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

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

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

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

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

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

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

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

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

Phe Asn Arg Gly Glu Cys
 210

<210> 1422
 <211> 108
 <212> PRT
 <213> Artificial

<220>
 <223> Humanized Antibody

<400> 1422

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

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

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

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

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

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

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

<210> 1423
<211> 21
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody

<400> 1423

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

Val Thr Ile Thr Cys
20

<210> 1424
<211> 12
<212> PRT
<213> *Oryctolagus cuniculus*

<400> 1424

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

<210> 1425
<211> 15
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody

<400> 1425

Trp Phe Gln Gln Lys Pro Gly Lys Ala Pro Lys Phe Leu Ile Tyr

1 5 10 15

<210> 1426
<211> 7
<212> PRT
<213> Oryctolagus cuniculus

<400> 1426

Glu Ala Ser Lys Leu Glu Ser
1 5

<210> 1427
<211> 32
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody

<400> 1427

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> 1428
<211> 10
<212> PRT
<213> Oryctolagus cuniculus

<400> 1428

Ala Gly Gly Asp Ile Ser Glu Gly Val Ala
1 5 10

<210> 1429
<211> 11
<212> PRT
<213> Artificial

<220>

<223> Humanized Antibody

<400> 1429

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

<210> 1430

<211> 106

<212> PRT

<213> Artificial

<220>

<223> Humanized Antibody

<400> 1430

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> 1431

<211> 642

<212> DNA

<213> Artificial

<220>

<223> Humanized Antibody

<400> 1431

cagctgaccc agtctccttc caccctgtct gcatctgtag gagacagagt caccatcact	60
tgtagtcca gtgagagtgt ttacggtaac tacttagcct ggtttcagca gaaaccagga	120
aaagccccta agttcctgat ctatgaagca tccaaactgg aatctggagt cccatcaagg	180
ttcagcggca gtggatctgg aacagaattc actctacca tcagcagcct gcagcctgat	240
gattttgcaa cttactactg tgcaggcggg gatattagtg aagggtgttc tttcggcgga	300
ggaaccaagg tggaaatcaa acgtacggta gcggcccat ctgtcttcat cttcccgcca	360
tctgatgagc agttgaaatc tggaaactgcc tctgttgtgt gcctgctgaa taacttctat	420
cccagagagg ccaaagtaca gtggaagggtg gataacgccc tccaatcggg taactcccag	480
gagagtgtca cagagcagga cagcaaggac agcacctaca gcctcagcag caccctgacg	540
ctgagcaaag cagactacga gaaacacaaa gtctacgcct gcgaagtcac ccatcagggc	600
ctgagctcgc ccgtcacaaa gagcttcaac aggggagagt gt	642

<210> 1432

<211> 324

<212> DNA

<213> Artificial

<220>

<223> Humanized Antibody

<400> 1432

cagctgaccc agtctccttc caccctgtct gcatctgtag gagacagagt caccatcact	60
tgtagtcca gtgagagtgt ttacggtaac tacttagcct ggtttcagca gaaaccagga	120
aaagccccta agttcctgat ctatgaagca tccaaactgg aatctggagt cccatcaagg	180
ttcagcggca gtggatctgg aacagaattc actctacca tcagcagcct gcagcctgat	240
gattttgcaa cttactactg tgcaggcggg gatattagtg aagggtgttc tttcggcgga	300
ggaaccaagg tggaaatcaa acgt	324

<210> 1433
 <211> 63
 <212> DNA
 <213> Artificial

 <220>
 <223> Humanized Antibody

 <400> 1433
 cagctgaccc agtctccttc caccctgtct gcatctgtag gagacagagt caccatcact 60
 tgt 63

 <210> 1434
 <211> 36
 <212> DNA
 <213> Oryctolagus cuniculus

 <400> 1434
 cagtccagtg agagtgttta cggtaactac ttagcc 36

 <210> 1435
 <211> 45
 <212> DNA
 <213> Artificial

 <220>
 <223> Humanized Antibody

 <400> 1435
 tggtttcagc agaaaccagg aaaagcccct aagttcctga tctat 45

 <210> 1436
 <211> 21
 <212> DNA
 <213> Oryctolagus cuniculus

 <400> 1436
 gaagcatcca aactggaatc t 21

 <210> 1437
 <211> 96
 <212> DNA

<213> Artificial

 <220>
 <223> Humanized Antibody

 <400> 1437
 ggagtcccat caaggttcag cggcagtgga tctggaacag aattcactct caccatcagc 60
 agcctgcagc ctgatgattt tgcaacttac tactgt 96

 <210> 1438
 <211> 30
 <212> DNA
 <213> Oryctolagus cuniculus

 <400> 1438
 gcaggcgggtg atattagtga aggtgttgct 30

 <210> 1439
 <211> 33
 <212> DNA
 <213> Artificial

 <220>
 <223> Humanized Antibody

 <400> 1439
 ttcggcggag gaaccaaggt ggaaatcaaa cgt 33

 <210> 1440
 <211> 318
 <212> DNA
 <213> Artificial

 <220>
 <223> Humanized Antibody

 <400> 1440
 acggtagcgg ccccatctgt cttcatcttc ccgccatctg atgagcagtt gaaatctgga 60
 actgcctctg ttgtgtgcct gctgaataac ttctatccca gagaggccaa agtacagtgg 120
 aagggtggata acgccctcca atcgggtaac tcccaggaga gtgtcacaga gcaggacagc 180
 aaggacagca cctacagcct cagcagcacc ctgacgctga gcaaagcaga ctacgagaaa 240

cacaaagtct acgcctgcga agtcacccat cagggcctga gctcgcccggt cacaaagagc 300

ttcaacaggg gagagtgt 318

<210> 1441

<211> 442

<212> PRT

<213> Artificial

<220>

<223> Humanized Antibody

<400> 1441

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ile Asp Leu Asn Ser Tyr
20 25 30

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

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

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

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

Arg Asp Leu 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 Lys
195 200 205

Lys 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> 1442
<211> 112
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody

<400> 1442

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ile Asp Leu Asn Ser Tyr
20 25 30

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

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

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

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

Arg Asp Leu Asp Leu Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
100 105 110

<210> 1443
<211> 30
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody

<400> 1443

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ile Asp Leu Asn
20 25 30

<210> 1444
<211> 5
<212> PRT
<213> Oryctolagus cuniculus

<400> 1444

Ser Tyr Tyr Met Thr
1 5

<210> 1445
<211> 14

<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody

<400> 1445

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

<210> 1446
<211> 16
<212> PRT
<213> Oryctolagus cuniculus

<400> 1446

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

<210> 1447
<211> 32
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody

<400> 1447

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> 1448
<211> 4
<212> PRT
<213> Oryctolagus cuniculus

<400> 1448

Asp Leu Asp Leu

1

<210> 1449
<211> 11
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody

<400> 1449

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

<210> 1450
<211> 330
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody

<400> 1450

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> 1451

<211> 1326

<212> DNA

<213> Artificial

<220>

<223> Humanized Antibody

<400> 1451

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tcctgtgcag cctctggaat cgacctcaat agctactaca tgacctgggt ccgtcaggct	120
ccagggaagg ggctggagtg gatcggattc attgatgctg gtggtgacgc atactacgcg	180
agctgggcga aaggccgatt caccatctcc agagacaatt ccaagaacac cgtgtatctt	240
caaatgaaca gcctgagagc tgaggacact gctgtgtatt tctgtgctag agatcttgac	300
ttgtggggcc aagggaccct cgtcaccgtc tcgagcgcct ccaccaaggg cccatcggtc	360
ttccccctgg caccctcctc caagagcacc tctgggggca cagcggccct gggctgcctg	420
gtcaaggact acttccccga accggtgacg gtgtcgtgga actcaggcgc cctgaccagc	480
ggcgtgcaca cttccccggc tgtcctacag tcctcaggac tctactccct cagcagcgtg	540
gtgaccgtgc cctccagcag cttgggcacc cagacctaca tctgcaacgt gaatcacaag	600
cccagcaaca ccaagggtgga caagaaagtt gagcccaaatt cttgtgacaa aactcacaca	660
tgcccaccgt gcccagcacc tgaactcctg gggggaccgt cagtcttcct cttcccccca	720
aaacccaagg 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 ccaaagggca gccccgagaa	1020
ccacaggtgt acaccctgcc cccatcccgg gaggagatga ccaagaacca ggtcagcctg	1080
acctgcctgg tcaaaggctt ctatcccagc gacatcgccg tggagtggga gagcaatggg	1140
cagccggaga acaactacaa gaccacgcct cccgtgctgg actccgacgg ctctttcttc	1200
ctctacagca agctcaccgt ggacaagagc aggtggcagc aggggaacgt cttctcatgc	1260
tccgtgatgc atgaggctct gcacaaccac tacacgcaga agagcctctc cctgtctccg	1320
ggtaaa	1326

<210> 1452
 <211> 336
 <212> DNA
 <213> Artificial

<220>
 <223> Humanized Antibody

<400> 1452	
gaggtgcagc ttgtggagtc tgggggaggc ttggtccagc ctgggggggtc cctgagactc	60
tcctgtgcag cctctggaat cgacctcaat agctactaca tgacctgggt ccgtcaggct	120
ccagggaagg ggctggagtg gatcggattc attgatgctg gtggtgacgc atactacgcg	180
agctgggcga aaggccgatt caccatctcc agagacaatt ccaagaacac cgtgtatctt	240
caaatgaaca gcctgagagc tgaggacact gctgtgtatt tctgtgctag agatcttgac	300
ttgtggggcc aagggaccct cgtcaccgtc tcgagc	336

<210> 1453
 <211> 90
 <212> DNA
 <213> Artificial

<220>
 <223> Humanized Antibody

<400> 1453
gaggtgcagc ttgtggagtc tgggggaggc ttggtccagc ctgggggggc cctgagactc 60
tcctgtgcag cctctggaat cgacctcaat 90

<210> 1454
<211> 15
<212> DNA
<213> Oryctolagus cuniculus

<400> 1454
agctactaca tgacc 15

<210> 1455
<211> 42
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody

<400> 1455
tgggtccgtc aggctccagg gaaggggctg gagtggatcg ga 42

<210> 1456
<211> 48
<212> DNA
<213> Oryctolagus cuniculus

<400> 1456
ttcattgatg ctggtggtga cgcatactac gcgagctggg cgaaaggc 48

<210> 1457
<211> 96
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody

<400> 1457
cgattcacca tctccagaga caattccaag aacaccgtgt atcttcaa at gaacagcctg 60
agagctgagg acactgctgt gtatttctgt gctaga 96

<210> 1458
 <211> 12
 <212> DNA
 <213> Oryctolagus cuniculus

<400> 1458
 gatcttgact tg 12

<210> 1459
 <211> 33
 <212> DNA
 <213> Artificial

<220>
 <223> Humanized Antibody

<400> 1459
 tggggccaag ggaccctcgt caccgtctcg agc 33

<210> 1460
 <211> 990
 <212> DNA
 <213> Artificial

<220>
 <223> Humanized Antibody

<400> 1460
 gcctccacca agggcccatc ggtcttcccc ctggcaccct cctccaagag cacctctggg 60
 ggacacagcgg 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
 aaatcttggtg aaaaaactca cacatgcccc cctggtccag cacctgaact cctggggggga 360
 ccgtcagtct tcctcttccc cccaaaaccc aaggacaccc tcatgatctc ccggaccct 420
 gaggtcacat gcgtgggtgt ggacgtgagc cacgaagacc ctgaggtcaa gttcaactgg 480
 tacgtggacg gcgtggaggt gcataatgcc aagacaaagc cgcggggagga 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 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> 1461
 <211> 215
 <212> PRT
 <213> Artificial

<220>
 <223> Humanized Antibody

<400> 1461

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

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

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

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

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

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

85

90

95

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

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

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

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

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

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

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

Ser Phe Asn Arg Gly Glu Cys
 210 215

<210> 1462

<211> 109

<212> PRT

<213> Artificial

<220>

<223> Humanized Antibody

<400> 1462

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

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

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

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

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

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

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

<210> 1463
<211> 22
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody

<400> 1463

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

Arg Val Thr Ile Thr Cys
20

<210> 1464
<211> 12
<212> PRT
<213> Oryctolagus cuniculus

<400> 1464

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

<210> 1465
<211> 15
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody

<400> 1465

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

<210> 1466
<211> 7
<212> PRT
<213> Oryctolagus cuniculus

<400> 1466

Glu Ala Ser Lys Leu Glu Ser
1 5

<210> 1467
<211> 32
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody

<400> 1467

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> 1468
<211> 10

<212> PRT
<213> Oryctolagus cuniculus

<400> 1468

Ala Gly Gly Asp Ile Ser Glu Gly Val Ala
1 5 10

<210> 1469
<211> 11
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody

<400> 1469

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

<210> 1470
<211> 106
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody

<400> 1470

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> 1471
<211> 645
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody

<400> 1471
caggtgctga cccagtcctcc ttccaccctg tctgcatctg taggagacag agtcaccatc 60
acttgtcagt ccagtgagag tgtttacggg aactacttag cctggtttca gcagaaacca 120
ggaaaagccc ctaagttcct gatctatgaa gcatccaaac tggaatctgg agtcccatca 180
aggttcagcg gcagtggatc tggaacagaa ttcactctca ccatcagcag cctgcagcct 240
gatgatattg caacttacta ctgtgcaggc ggtgatatta gtgaagggtg tgctttcggc 300
ggaggaacca aggtggaaat caaacgtacg gtagcggccc catctgtctt catcttcccg 360
ccatctgatg agcagttgaa atctggaact gcctctgttg tgtgcctgct gaataacttc 420
tatcccagag aggccaaagt acagtggaag gtggataacg cctccaatc gggtaactcc 480
caggagagtg tcacagagca ggacagcaag gacagcacct acagcctcag cagcaccctg 540
acgctgagca aagcagacta cgagaaacac aaagtctacg cctgcgaagt caccatcag 600
ggcctgagct cgcccgtcac aaagagcttc aacagggggag agtgt 645

<210> 1472
<211> 327
<212> DNA
<213> Artificial

<220>
 <223> Humanized Antibody

<400> 1472
 caggtgctga cccagtctcc ttccaccctg tctgcatctg taggagacag agtcaccatc 60
 acttgtcagt ccagtgagag tgtttacggg aactacttag cctggtttca gcagaaacca 120
 ggaaaagccc ctaagttcct gatctatgaa gcatccaaac tggaatctgg agtcccatca 180
 aggttcagcg gcagtggatc tggaacagaa ttcacttca ccatcagcag cctgcagcct 240
 gatgattttg caacttacta ctgtgcaggc ggtgatatta gtgaagggtg tgctttcggc 300
 ggaggaacca aggtggaaat caaacgt 327

<210> 1473
 <211> 66
 <212> DNA
 <213> Artificial

<220>
 <223> Humanized Antibody

<400> 1473
 caggtgctga cccagtctcc ttccaccctg tctgcatctg taggagacag agtcaccatc 60
 acttgt 66

<210> 1474
 <211> 36
 <212> DNA
 <213> Oryctolagus cuniculus

<400> 1474
 cagtccagtg agagtgttta cggtactac ttagcc 36

<210> 1475
 <211> 45
 <212> DNA
 <213> Artificial

<220>
 <223> Humanized Antibody

<400> 1475

tggtttcagc agaaaccagg aaaagcccct aagttcctga tctat 45

<210> 1476
<211> 21
<212> DNA
<213> Oryctolagus cuniculus

<400> 1476
gaagcatcca aactggaatc t 21

<210> 1477
<211> 96
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody

<400> 1477
ggagtcccat caaggttcag cggcagtgga tctggaacag aattcactct caccatcagc 60

agcctgcagc ctgatgattt tgcaacttac tactgt 96

<210> 1478
<211> 30
<212> DNA
<213> Oryctolagus cuniculus

<400> 1478
gcaggcgggtg atattagtga aggtgttgct 30

<210> 1479
<211> 33
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody

<400> 1479
ttcggcggag gaaccaaggt ggaaatcaaa cgt 33

<210> 1480
<211> 318

<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody

<400> 1480
acggtacgcg 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> 1481
<211> 442
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody

<400> 1481

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

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

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

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

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

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

Arg Asp Leu 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 Lys
195 200 205

Lys 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> 1482

<211> 112

<212> PRT

<213> Artificial

<220>

<223> Humanized Antibody

<400> 1482

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

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

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

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

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

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

Arg Asp Leu Asp Leu Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
100 105 110

<210> 1483

<211> 30

<212> PRT

<213> Artificial

<220>

<223> Humanized Antibody

<400> 1483

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ile Asp Leu Ser
20 25 30

<210> 1484
<211> 5
<212> PRT
<213> *Oryctolagus cuniculus*

<400> 1484

Ser Tyr Tyr Met Thr
1 5

<210> 1485
<211> 14
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody

<400> 1485

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

<210> 1486
<211> 16
<212> PRT
<213> *Oryctolagus cuniculus*

<400> 1486

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

<210> 1487
<211> 32
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody

<400> 1487

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> 1488
 <211> 4
 <212> PRT
 <213> Oryctolagus cuniculus

<400> 1488

Asp Leu Asp Leu
 1

<210> 1489
 <211> 11
 <212> PRT
 <213> Artificial

<220>
 <223> Humanized Antibody

<400> 1489

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

<210> 1490
 <211> 330
 <212> PRT
 <213> Artificial

<220>
 <223> Humanized Antibody

<400> 1490

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> 1491
 <211> 1326
 <212> DNA
 <213> Artificial

<220>
 <223> Humanized Antibody

<400> 1491
 gaggtgcagc ttgtggagtc tgggggaggc ttggtccagc ctgggggggtc cctgagactc 60
 tcctgtgcag cctctggaat cgacctcagt agctactaca tgacctgggt ccgtcaggct 120
 ccagggaagg ggctggagtg gatcggattc attgatgctg gtggtagcgc atactacgcg 180
 acctgggcaa aaggccgatt caccatctcc agagacaatt ccaagaacac cgtgtatctt 240
 caaatgaaca gcctgagagc tgaggacact gctgtgtatt tctgtgctag agatcttgac 300
 ttgtggggcc aaggggaccct cgtcaccgtc tcgagcgcct ccaccaaggg cccatcggtc 360

ttccccctgg caccctcctc caagagcacc tctgggggca cagcggccct gggctgcctg	420
gtcaaggact acttccccga accggtgacg gtgtcgtgga actcaggcgc cctgaccagc	480
ggcgtgcaca ctttcccggc tgtcctacag tcctcaggac tctactccct cagcagcgtg	540
gtgaccgtgc cctccagcag cttgggcacc cagacctaca tctgcaacgt gaatcacaag	600
cccagcaaca ccaaggtgga caagaaagt gagcccaaat cttgtgacaa aactcacaca	660
tgccccaccgt gcccagcacc tgaactcctg gggggaccgt cagtcttcct cttcccccca	720
aaacccaagg acaccctcat gatctcccgg acccctgagg tcacatgcgt ggtggtggac	780
gtgagccacg aagaccctga ggtcaagttc aactggtacg tggacggcgt ggaggtgcat	840
aatgccaaaga caaagccgcg ggaggagcag tacgccagca cgtaccgtgt ggtcagcgtc	900
ctcaccgtcc tgcaccagga ctggctgaat ggcaaggagt acaagtgcaa ggtctccaac	960
aaagccctcc cagcccccat cgagaaaacc atctccaaag ccaaagggca gccccgagaa	1020
ccacaggtgt acaccctgcc cccatcccgg gaggagatga ccaagaacca ggtcagcctg	1080
acctgcctgg tcaaaggctt ctatcccagc gacatcgccg tggagtggga gagcaatggg	1140
cagccggaga acaactacaa gaccacgcct cccgtgctgg actccgacgg ctcttcttc	1200
ctctacagca agctcaccgt ggacaagagc aggtggcagc aggggaacgt cttctcatgc	1260
tccgtgatgc atgaggctct gcacaaccac tacacgcaga agagcctctc cctgtctccg	1320
ggtaaa	1326

<210> 1492

<211> 336

<212> DNA

<213> Artificial

<220>

<223> Humanized Antibody

<400> 1492

gaggtgcagc ttgtggagtc tgggggaggc ttgtccagc ctggggggtc cctgagactc	60
tcctgtgcag cctctggaat cgacctcagt agctactaca tgacctgggt ccgtcaggct	120
ccagggaagg ggctggagtg gatcggattc attgatgctg gtggtagcgc atactacgcg	180

acctgggcaa aaggccgatt caccatctcc agagacaatt ccaagaacac cgtgtatctt	240
caaatgaaca gcctgagagc tgaggacact gctgtgtatt tctgtgctag agatcttgac	300
ttgtggggcc aaggggaccct cgtcaccgtc tcgagc	336

<210> 1493
 <211> 90
 <212> DNA
 <213> Artificial

<220>
 <223> Humanized Antibody

<400> 1493 gaggtgcagc ttgtggagtc tgggggaggc ttggtccagc ctgggggggtc cctgagactc tcctgtgcag cctctggaat cgacctcagt	60 90
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<210> 1494
 <211> 15
 <212> DNA
 <213> Oryctolagus cuniculus

<400> 1494 agctactaca tgacc	15
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<210> 1495
 <211> 42
 <212> DNA
 <213> Artificial

<220>
 <223> Humanized Antibody

<400> 1495 tgggtccgtc aggctccagg gaaggggctg gagtggatcg ga	42
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<210> 1496
 <211> 48
 <212> DNA
 <213> Oryctolagus cuniculus

<400> 1496

ttcattgatg ctggtggtag cgcatactac gcgacctggg caaaaggc 48

<210> 1497
<211> 96
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody

<400> 1497
cgattcacca tctccagaga caattccaag aacaccgtgt atcttcaa at gaacagcctg 60

agagctgagg acactgctgt gtatttctgt gctaga 96

<210> 1498
<211> 12
<212> DNA
<213> Oryctolagus cuniculus

<400> 1498
gatcttgact tg 12

<210> 1499
<211> 33
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody

<400> 1499
tggggccaag ggaccctcgt caccgtctcg agc 33

<210> 1500
<211> 990
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody

<400> 1500
gcctccacca agggcccatc ggtcttcccc ctggcaccct cctccaagag cacctctggg 60

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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 gcgtgggtgg 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

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<210> 1501
 <211> 215
 <212> PRT
 <213> Artificial

<220>
 <223> Humanized Antibody

<400> 1501

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

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

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Leu Ala Trp Phe Gln Gln Lys Pro Gly Lys Ala Pro Lys Gln 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 Ala Gly Gly Tyr Val Ser Ala Gly
85 90 95

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

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

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

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

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

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

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

Ser Phe Asn Arg Gly Glu Cys
210 215

<210> 1502
<211> 109
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody

<400> 1502

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

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

Leu Ala Trp Phe Gln Gln Lys Pro Gly Lys Ala Pro Lys Gln 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 Ala Gly Gly Tyr Val Ser Ala Gly
85 90 95

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

<210> 1503
<211> 22
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody

<400> 1503

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

Arg Val Thr Ile Thr Cys
20

<210> 1504
<211> 12
<212> PRT
<213> *Oryctolagus cuniculus*

<400> 1504

Lys Ser Ser Glu Ser Val Tyr Gly Asp Tyr Leu Ala
1 5 10

<210> 1505
<211> 15
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody

<400> 1505

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

<210> 1506
<211> 7
<212> PRT
<213> *Oryctolagus cuniculus*

<400> 1506

Asp Ala Ser Thr Leu Ala Ser
1 5

<210> 1507
<211> 32
<212> PRT
<213> Artificial

<220>

<223> Humanized Antibody

<400> 1507

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> 1508

<211> 10

<212> PRT

<213> Oryctolagus cuniculus

<400> 1508

Ala Gly Gly Tyr Val Ser Ala Gly Val Ala
1 5 10

<210> 1509

<211> 11

<212> PRT

<213> Artificial

<220>

<223> Humanized Antibody

<400> 1509

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

<210> 1510

<211> 106

<212> PRT

<213> Artificial

<220>

<223> Humanized Antibody

<400> 1510

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
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> 1511
 <211> 645
 <212> DNA
 <213> Artificial

<220>
 <223> Humanized Antibody

<400> 1511
 gccgtgctga ccagctctcc ttccaccctg tctgcatctg taggagacag agtcaccatc 60
 acttgtaagt ccagtgagag cgtttatggg gactacttag cctggtttca gcagaaacca 120
 ggaaaagccc ctaagcaact gatctatgat gcatccactc tggcatctgg agtcccatca 180
 aggttcagcg gcagtggatc tggaacagaa ttcactctca ccatcagcag cctgcagcct 240
 gatgattttg caacttacta ctgtgcaggc ggttatgtta gtgcagggtg tgctttcggc 300
 ggaggaacca aggtggaaat caaacgtacg gtagcggccc catctgtctt catcttcccg 360
 ccatctgatg agcagttgaa atctggaact gcctctgttg tgtgcctgct gaataacttc 420

tatcccagag aggccaaagt acagtggaag gtggataacg ccctccaatc gggtaactcc	480
caggagagtg tcacagagca ggacagcaag gacagcacct acagcctcag cagcaccctg	540
acgctgagca aagcagacta cgagaaacac aaagtctacg cctgcgaagt cacccatcag	600
ggcctgagct cgcccgtcac aaagagcttc aacaggggag agtgt	645

<210> 1512
 <211> 327
 <212> DNA
 <213> Artificial

<220>
 <223> Humanized Antibody

<400> 1512	
gccgtgctga ccagtcctcc ttccaccctg tctgcatctg taggagacag agtcaccatc	60
acttgtaagt ccagtgagag cgtttatggg gactacttag cctggtttca gcagaaacca	120
ggaaaagccc ctaagcaact gatctatgat gcatccactc tggcatctgg agtcccatca	180
aggttcagcg gcagtggatc tggaacagaa ttcactctca ccatcagcag cctgcagcct	240
gatgattttg caacttacta ctgtgcaggc ggttatgtta gtgcagggtgt tgctttcggc	300
ggaggaacca aggtggaaat caaacgt	327

<210> 1513
 <211> 66
 <212> DNA
 <213> Artificial

<220>
 <223> Humanized Antibody

<400> 1513	
gccgtgctga ccagtcctcc ttccaccctg tctgcatctg taggagacag agtcaccatc	60
acttgt	66

<210> 1514
 <211> 36
 <212> DNA

<213> Oryctolagus cuniculus
 <400> 1514
 aagtcacgtg agagcgttta tggtagtac ttagcc 36

<210> 1515
 <211> 45
 <212> DNA
 <213> Artificial

<220>
 <223> Humanized Antibody

<400> 1515
 tggtttcagc agaaaccagg aaaagcccct aagcaactga tctat 45

<210> 1516
 <211> 21
 <212> DNA
 <213> Oryctolagus cuniculus

<400> 1516
 gatgcatcca ctctggcatc t 21

<210> 1517
 <211> 96
 <212> DNA
 <213> Artificial

<220>
 <223> Humanized Antibody

<400> 1517
 ggagtcccat caagggttcag cggcagtgga tctggaacag aattcactct caccatcagc 60

agcctgcagc ctgatgattt tgcaacttac tactgt 96

<210> 1518
 <211> 30
 <212> DNA
 <213> Oryctolagus cuniculus

<400> 1518
 gcaggcgggtt atgttagtgc aggtgttgct 30

<210> 1519
<211> 33
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody

<400> 1519
ttcggcggag gaaccaaggt ggaaatcaaa cgt 33

<210> 1520
<211> 318
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody

<400> 1520
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> 1521
<211> 442
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody

<400> 1521

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

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

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

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

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

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

Arg Asp Leu 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 Lys
195 200 205

Lys 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> 1522
<211> 112
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody

<400> 1522

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

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

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

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

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

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

Arg Asp Leu Asp Leu Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
100 105 110

<210> 1523

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

<220>
<223> Humanized Antibody

<400> 1523

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ile Asp Leu Ser
20 25 30

<210> 1524
<211> 5
<212> PRT
<213> Oryctolagus cuniculus

<400> 1524

Ser Tyr Tyr Met Thr
1 5

<210> 1525
<211> 14
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody

<400> 1525

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

<210> 1526
<211> 16
<212> PRT
<213> Oryctolagus cuniculus

<400> 1526

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

<210> 1527
<211> 32
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody

<400> 1527

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> 1528
<211> 4
<212> PRT
<213> Oryctolagus cuniculus

<400> 1528

Asp Leu Asp Leu
1

<210> 1529
<211> 11
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody

<400> 1529

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

<210> 1530
<211> 330

<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody

<400> 1530

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> 1531

<211> 1326

<212> DNA

<213> Artificial

<220>

<223> Humanized Antibody

<400> 1531

gaggtgcagc ttgtggagtc tgggggaggc ttgggtccagc ctgggggggtc cctgagactc	60
tcctgtgcag cctctggaat cgacctcagt agctactaca tgacctgggt ccgtcaggct	120
ccagggaagg ggctggagtg gatcggattc attgatgctg gtggtagcgc atactacgcg	180
acctgggcaa aaggccgatt caccatctcc agagacaatt ccaagaacac cgtgtatctt	240
caaatgaaca gcctgagagc tgaggacact gctgtgtatt tctgtgctag agatcttgac	300
ttgtggggcc aagggaccct cgtcaccgtc tcgagcgcct ccaccaaggg cccatcggtc	360
ttccccctgg caccctctc caagagcacc tctgggggca cagcggccct gggctgcctg	420
gtcaaggact acttccccga accggtgacg gtgtcgtgga actcaggcgc cctgaccagc	480
ggcgtgcaca ctttcccggc tgtcctacag tcctcaggac tctactccct cagcagcgtg	540
gtgaccgtgc cctccagcag cttgggcacc cagacctaca tctgcaacgt gaatcacaag	600
cccagcaaca ccaaggtgga caagaaagt gagcccaaatt cttgtgacaa aactcacaca	660
tgccccaccgt gcccagcacc tgaactcctg gggggaccgt cagtcttcct cttcccccca	720
aaacccaagg 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 ccaaagggca gccccgagaa	1020
ccacaggtgt acaccctgcc cccatcccgg gaggagatga ccaagaacca ggtcagcctg	1080
acctgcctgg tcaaaggctt ctatcccagc gacatcgccg tggagtggga gagcaatggg	1140
cagccggaga acaactacaa gaccacgcct cccgtgctgg actccgacgg ctcttcttc	1200
ctctacagca agctcaccgt ggacaagagc aggtggcagc aggggaacgt cttctcatgc	1260
tccgtgatgc atgaggctct gcacaaccac tacacgcaga agagcctctc cctgtctccg	1320
ggtaaa	1326

<210> 1532
<211> 336
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody

<400> 1532
gaggtgcagc ttgtggagtc tgggggaggc ttggtccagc ctgggggggtc cctgagactc 60
tcctgtgcag cctctggaat cgacctcagt agctactaca tgacctgggt ccgtcaggct 120
ccagggaagg ggctggagtg gatcggattc attgatgctg gtggtagcgc atactacgcg 180
acctgggcaa aaggccgatt caccatctcc agagacaatt ccaagaacac cgtgtatctt 240
caaatgaaca gcctgagagc tgaggacact gctgtgtatt tctgtgctag agatcttgac 300
ttgtggggcc aagggaccct cgtcaccgtc tcgagc 336

<210> 1533
<211> 90
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody

<400> 1533
gaggtgcagc ttgtggagtc tgggggaggc ttggtccagc ctgggggggtc cctgagactc 60
tcctgtgcag cctctggaat cgacctcagt 90

<210> 1534
<211> 15
<212> DNA
<213> Oryctolagus cuniculus

<400> 1534
agctactaca tgacc 15

<210> 1535
<211> 42
<212> DNA

<213> Artificial
 <220>
 <223> Humanized Antibody
 <400> 1535
 tgggtccgtc aggctccagg gaaggggctg gagtggatcg ga 42
 <210> 1536
 <211> 48
 <212> DNA
 <213> Oryctolagus cuniculus
 <400> 1536
 ttcattgatg ctggtggtag cgcatactac gcgacctggg caaaaggc 48
 <210> 1537
 <211> 96
 <212> DNA
 <213> Artificial
 <220>
 <223> Humanized Antibody
 <400> 1537
 cgattcacca tctccagaga caattccaag aacaccgtgt atcttcaa at gaacagcctg 60
 agagctgagg aactgctgt gtatttctgt gctaga 96
 <210> 1538
 <211> 12
 <212> DNA
 <213> Oryctolagus cuniculus
 <400> 1538
 gatcttgact tg 12
 <210> 1539
 <211> 33
 <212> DNA
 <213> Artificial
 <220>
 <223> Humanized Antibody

<400> 1539
 tggggccaag ggacccctcgt caccgtctcg agc 33

<210> 1540
 <211> 990
 <212> DNA
 <213> Artificial

<220>
 <223> Humanized Antibody

<400> 1540
 gcctccacca agggcccatc ggtcttcccc ctggcaccct cctccaagag cacctctggg 60
 ggacacagcgg ccctgggctg cctgggtcaag gactacttcc ccgaaccggt gacgggtgtcg 120
 tggaactcag gcgcccctgac cagcggcgtg cacaccttcc cggctgtcct acagtcctca 180
 ggactctact ccctcagcag cgtgggtgacc gtgcccctcca gcagcttggg caccagacc 240
 tacatctgca acgtgaatca caagcccagc aacaccaagg tggacaagaa agttgagccc 300
 aaatcttgtg aaaaaactca cacatgcccc ccgtgcccag cacctgaact cctgggggga 360
 ccgtcagtct tcctcttccc cccaaaaccc aaggacaccc tcatgatctc ccggacccct 420
 gaggtcacat gcgtgggtgg ggacgtgagc cacgaagacc ctgagggtcaa 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 accagggtcag cctgacctgc ctgggtcaaag gcttctatcc cagcgacatc 780
 gccgtggagt gggagagcaa tgggcagccg gagaacaact acaagaccac gcctcccgtg 840
 ctggactccg acggctcctt cttcctctac agcaagctca ccgtggacaa gagcagggtgg 900
 cagcagggga acgtcttctc atgctccgtg atgcatgagg ctctgcacaa ccactacacg 960
 cagaagagcc tctccctgtc tccgggtaaa 990

<210> 1541

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

<220>
<223> Humanized Antibody

<400> 1541

Asp Ile 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 Lys Ser Ser Glu Ser Val Tyr Gly Asp
20 25 30

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

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

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

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

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

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

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

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

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

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

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

Lys Ser Phe Asn Arg Gly Glu Cys
210 215

<210> 1542

<211> 110

<212> PRT

<213> Artificial

<220>

<223> Humanized Antibody

<400> 1542

Asp Ile 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 Lys Ser Ser Glu Ser Val Tyr Gly Asp
20 25 30

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

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

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

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

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

<210> 1543
<211> 23
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody

<400> 1543

Asp Ile 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> 1544
<211> 12
<212> PRT
<213> Oryctolagus cuniculus

<400> 1544

Lys Ser Ser Glu Ser Val Tyr Gly Asp Tyr Leu Ala
1 5 10

<210> 1545
<211> 15
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody

<400> 1545

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

<210> 1546

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

<400> 1546

Asp Ala Ser Thr Leu Ala Ser
1 5

<210> 1547
<211> 32
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody

<400> 1547

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> 1548
<211> 10
<212> PRT
<213> Oryctolagus cuniculus

<400> 1548

Ala Gly Gly Tyr Val Ser Ala Gly Val Ala
1 5 10

<210> 1549
<211> 11
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody

<400> 1549

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

<210> 1550
<211> 106
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody

<400> 1550

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> 1551
<211> 648
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody

<400> 1551
gacatccagc tgacccagtc tccttccacc ctgtctgcat ctgtaggaga cagagtcacc 60
atcacttgta agtccagtga gagcgtttat ggtgactact tagcctgggtt tcagcagaaa 120
ccaggaaaag cccctaagca actgatctat gatgcatcca ctctggcatc tggagtccca 180
tcaaggttca gcggcagtgg atctggaaca gaattcactc tcaccatcag cagcctgcag 240
cctgatgatt ttgcaactta ctactgtgca ggcggttatg ttagtgcagg tgttgctttc 300
ggcggaggaa ccaaggtgga aatcaaactg acggtagcgg ccccatctgt cttcatcttc 360
ccgccatctg atgagcagtt gaaatctgga actgcctctg ttgtgtgcct gctgaataac 420
ttctatccca gagaggccaa agtacagtgg aaggtaggata acgccctcca atcgggtaac 480
tcccaggaga gtgtcacaga gcaggacagc aaggacagca cctacagcct cagcagcacc 540
ctgacgctga gcaaagcaga ctacgagaaa cacaaagtct acgcctgcga agtcacccat 600
cagggcctga gctcgcccggt cacaaagagc ttcaacaggg gagagtgt 648

<210> 1552
<211> 330
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody

<400> 1552
gacatccagc tgacccagtc tccttccacc ctgtctgcat ctgtaggaga cagagtcacc 60
atcacttgta agtccagtga gagcgtttat ggtgactact tagcctgggtt tcagcagaaa 120
ccaggaaaag cccctaagca actgatctat gatgcatcca ctctggcatc tggagtccca 180
tcaaggttca gcggcagtgg atctggaaca gaattcactc tcaccatcag cagcctgcag 240
cctgatgatt ttgcaactta ctactgtgca ggcggttatg ttagtgcagg tgttgctttc 300
ggcggaggaa ccaaggtgga aatcaaactg 330

<210> 1553
<211> 69

<212> DNA
 <213> Artificial

 <220>
 <223> Humanized Antibody

 <400> 1553
 gacatccagc tgacccagtc tccttccacc ctgtctgcat ctgtaggaga cagagtcacc 60
 atcacttgt 69

 <210> 1554
 <211> 36
 <212> DNA
 <213> Oryctolagus cuniculus

 <400> 1554
 aagtcaggag agagcggtta tggtagctac ttagcc 36

 <210> 1555
 <211> 45
 <212> DNA
 <213> Artificial

 <220>
 <223> Humanized Antibody

 <400> 1555
 tggtttcagc agaaaccagg aaaagcccct aagcaactga tctat 45

 <210> 1556
 <211> 21
 <212> DNA
 <213> Oryctolagus cuniculus

 <400> 1556
 gatgcatcca ctctggcatc t 21

 <210> 1557
 <211> 96
 <212> DNA
 <213> Artificial

 <220>
 <223> Humanized Antibody

<400> 1557
 ggagtcccat caaggttcag cggcagtgga tctggaacag aattcactct caccatcagc 60
 agcctgcagc ctgatgattt tgcaacttac tactgt 96

<210> 1558
 <211> 30
 <212> DNA
 <213> *Oryctolagus cuniculus*

<400> 1558
 gcaggcgggtt atgttagtgc aggtgttgct 30

<210> 1559
 <211> 33
 <212> DNA
 <213> Artificial

<220>
 <223> Humanized Antibody

<400> 1559
 ttcggcggag gaaccaaggt ggaaatcaaa cgt 33

<210> 1560
 <211> 318
 <212> DNA
 <213> Artificial

<220>
 <223> Humanized Antibody

<400> 1560
 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> 1561
<211> 442
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody

<400> 1561

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

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

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

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

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

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

Arg Asp Leu 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 Lys
195 200 205

Lys 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> 1562

<211> 112

<212> PRT

<213> Artificial

<220>

<223> Humanized Antibody

<400> 1562

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

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

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

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

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

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

Arg Asp Leu Asp Leu Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
100 105 110

<210> 1563

<211> 30

<212> PRT

<213> Artificial

<220>

<223> Humanized Antibody

<400> 1563

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ile Asp Leu Ser
20 25 30

<210> 1564

<211> 5

<212> PRT

<213> Oryctolagus cuniculus

<400> 1564

Ser Tyr Tyr Met Thr
1 5

<210> 1565

<211> 14

<212> PRT

<213> Artificial

<220>

<223> Humanized Antibody

<400> 1565

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

<210> 1566

<211> 16

<212> PRT

<213> Oryctolagus cuniculus

<400> 1566

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

<210> 1567

<211> 32

<212> PRT

<213> Artificial

<220>

<223> Humanized Antibody

<400> 1567

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> 1568

<211> 4

<212> PRT

<213> Oryctolagus cuniculus

<400> 1568

Asp Leu Asp Leu
1

<210> 1569

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

<220>
<223> Humanized Antibody

<400> 1569

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

<210> 1570
<211> 330
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody

<400> 1570

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> 1571
 <211> 1326
 <212> DNA
 <213> Artificial

<220>
 <223> Humanized Antibody

<400> 1571

gaggtgcagc ttgtggagtc tgggggaggc ttgggtccagc ctgggggggtc cctgagactc	60
tcctgtgcag cctctggaat cgacctcagt agctactaca tgacctgggt ccgtcaggct	120
ccagggaagg ggctggagtg gatcggattc attgatgctg gtggtagcgc atactacgcg	180
acctgggcaa aaggccgatt caccatctcc agagacaatt ccaagaacac cgtgtatctt	240
caaatgaaca gcctgagagc tgaggacact gctgtgtatt tctgtgctag agatcttgac	300
ttgtggggcc aaggggacct cgtcaccgtc tcgagcgcct ccaccaaggg cccatcggtc	360
ttccccctgg caccctctc caagagcacc tctgggggca cagcggccct gggtgcctg	420
gtcaaggact acttccccga accggtgacg gtgtcgtgga actcaggcgc cctgaccagc	480
ggcgtgcaca ccttcccggc tgtcctacag tcctcaggac tctactccct cagcagcgtg	540
gtgaccgtgc cctccagcag cttgggcacc cagacctaca tctgcaacgt gaatcacaag	600
cccagcaaca ccaagggtgga caagaaaagt gagcccaaatt cttgtgacaa aactcacaca	660
tgccccaccgt gcccagcacc tgaactcctg gggggaccgt cagtcttcct cttcccccca	720
aaaccaagg acaccctcat gatctcccg acccctgagg tcacatgcgt ggtggtggac	780
gtgagccacg aagaccctga ggtcaagttc aactggtacg tggacggcgt ggaggtgcat	840
aatgccaaaga caaagccgcg ggaggagcag tacgccagca cgtaccgtgt ggtcagcgtc	900
ctcaccgtcc tgcaccagga ctggctgaat ggcaaggagt acaagtgcaa ggtctccaac	960

aaagccctcc cagcccccat cgagaaaacc atctccaaag ccaaagggca 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> 1572
 <211> 336
 <212> DNA
 <213> Artificial

<220>
 <223> Humanized Antibody

<400> 1572	
gaggtgcagc ttgtggagtc tgggggaggc ttggtccagc ctgggggggc cctgagactc	60
tcctgtgcag cctctggaat cgacctcagt agctactaca tgacctgggt ccgtcaggct	120
ccagggaagg ggctggagtg gatcggattc attgatgctg gtggtagcgc atactacgcg	180
acctgggcaa aaggccgatt caccatctcc agagacaatt ccaagaacac cgtgtatctt	240
caaatgaaca gcctgagagc tgaggacact gctgtgtatt tctgtgctag agatcttgac	300
ttgtggggcc aagggaccct cgtcaccgtc tcgagc	336

<210> 1573
 <211> 90
 <212> DNA
 <213> Artificial

<220>
 <223> Humanized Antibody

<400> 1573	
gaggtgcagc ttgtggagtc tgggggaggc ttggtccagc ctgggggggc cctgagactc	60

tcctgtgcag cctctggaat cgacctcagt 90

<210> 1574
<211> 15
<212> DNA
<213> Oryctolagus cuniculus

<400> 1574
agctactaca tgacc 15

<210> 1575
<211> 42
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody

<400> 1575
tgggtccgtc aggctccagg gaaggggctg gagtggatcg ga 42

<210> 1576
<211> 48
<212> DNA
<213> Oryctolagus cuniculus

<400> 1576
ttcattgatg ctggtggtag cgcatactac gcgacctggg caaaaggc 48

<210> 1577
<211> 96
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody

<400> 1577
cgattcacca tctccagaga caattccaag aacaccgtgt atcttcaa at gaacagcctg 60

agagctgagg acactgctgt gtatttctgt gctaga 96

<210> 1578
<211> 12

<212> DNA
 <213> *Oryctolagus cuniculus*

 <400> 1578
 gatcttgact tg 12

 <210> 1579
 <211> 33
 <212> DNA
 <213> Artificial

 <220>
 <223> Humanized Antibody

 <400> 1579
 tggggccaag ggaccctcgt caccgtctcg agc 33

 <210> 1580
 <211> 990
 <212> DNA
 <213> Artificial

 <220>
 <223> Humanized Antibody

 <400> 1580
 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 tggacaagaa agttgagccc 300
 aaatcttgtg acaaaaactca cacatgcccc cctggtccag cacctgaact cctgggggga 360
 ccgtcagtct tcctcttccc cccaaaaccc aaggacaccc tcatgatctc ccggaccctt 420
 gaggtcacat gcgtgggtgg ggacgtgagc cacgaagacc ctgagggtcaa gttcaactgg 480
 tacgtggacg gcgtggaggt gcataatgcc aagacaaagc cgcgggagga gcagtacgcc 540
 agcacgtacc gtgtggtcag cgtcctcacc gtcctgcacc aggactggct gaatggcaag 600
 gagtacaagt gcaaggtctc caacaaagcc ctcccagccc ccatcgagaa aaccatctcc 660

aaagccaaag ggcagccccg agaaccacag gtgtacaccc tgcccccatc ccgggaggag	720
atgaccaaga accaggtcag cctgacctgc ctggtcaaag gcttctatcc cagcgacatc	780
gccgtggagt gggagagcaa tgggcagccg gagaacaact acaagaccac gcctcccgtg	840
ctggactccg acggctcctt cttcctctac agcaagctca ccgtggacaa gagcaggtgg	900
cagcagggga acgtcttctc atgctccgtg atgcatgagg ctctgcacaa ccactacacg	960
cagaagagcc tctccctgtc tccgggtaaa	990

<210> 1581
 <211> 216
 <212> PRT
 <213> Artificial

<220>
 <223> Humanized Antibody

<400> 1581

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

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

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

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

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

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

Gly	Val	Ala	Phe	Gly	Gly	Gly	Thr	Lys	Val	Glu	Ile	Lys	Arg	Thr	Val
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

100	105	110
Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu Lys		
115	120	125
Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro Arg		
130	135	140
Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly Asn		
145	150	155
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> 1582
 <211> 110
 <212> PRT
 <213> Artificial

<220>
 <223> Humanized Antibody

<400> 1582

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

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

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

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

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

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

<210> 1583
<211> 23
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody

<400> 1583

Asp Ile Val 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> 1584
<211> 12
<212> PRT
<213> Oryctolagus cuniculus

<400> 1584

Lys Ser Ser Glu Ser Val Tyr Gly Asp Tyr Leu Ala
1 5 10

<210> 1585
<211> 15
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody

<400> 1585

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

<210> 1586
<211> 7
<212> PRT
<213> *Oryctolagus cuniculus*

<400> 1586

Asp Ala Ser Thr Leu Ala Ser
1 5

<210> 1587
<211> 32
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody

<400> 1587

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> 1588
<211> 10
<212> PRT
<213> *Oryctolagus cuniculus*

<400> 1588

Ala Gly Gly Tyr Val Ser Ala Gly Val Ala
1 5 10

<210> 1589
<211> 11
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody

<400> 1589

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

<210> 1590
<211> 106
<212> PRT
<213> Artificial

<220>
<223> Humanized Antibody

<400> 1590

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> 1591
<211> 648
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody

<400> 1591
gacatcgtgc tgacccagtc tccttccacc ctgtctgcat ctgtaggaga cagagtcacc 60
atcacttgta agtccagtga gagcgtttat ggtgactact tagcctgggtt tcagcagaaa 120
ccaggaaaag cccctaagca actgatctat gatgcatcca ctctggcatc tggagtccca 180
tcaaggttca gcggcagtgg atctggaaca gaattcactc tcaccatcag cagcctgcag 240
cctgatgatt ttgcaactta ctactgtgca ggcggttatg ttagtgcagg tgttgctttc 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 ctacgagaaa cacaaagtct acgcctgcga agtcacccat 600
cagggcctga gctcgcccggt cacaaagagc ttcaacaggg gagagtgt 648

<210> 1592
<211> 330
<212> DNA
<213> Artificial

<220>
<223> Humanized Antibody

<400> 1592

gacatcgtgc tgacccagtc tccttccacc ctgtctgcat ctgtaggaga cagagtcacc	60
atcacttgta agtccagtga gagcgtttat ggtgactact tagcctgggtt tcagcagaaa	120
ccaggaaaag cccctaagca actgatctat gatgcatcca ctctggcatc tggagtccca	180
tcaaggttca gcggcagtgg atctggaaca gaattcactc tcaccatcag cagcctgcag	240
cctgatgatt ttgcaactta ctactgtgca ggcggttatg ttagtgcagg tgttgctttc	300
ggcggaggaa ccaagggtgga aatcaaactgt	330

<210> 1593
 <211> 69
 <212> DNA
 <213> Artificial

<220>
 <223> Humanized Antibody

<400> 1593	
gacatcgtgc tgacccagtc tccttccacc ctgtctgcat ctgtaggaga cagagtcacc	60
atcacttgt	69

<210> 1594
 <211> 36
 <212> DNA
 <213> Oryctolagus cuniculus

<400> 1594	
aagtcagtg agagcggtta tgggtgactac ttagcc	36

<210> 1595
 <211> 45
 <212> DNA
 <213> Artificial

<220>
 <223> Humanized Antibody

<400> 1595	
tggtttcagc agaaaccagg aaaagcccct aagcaactga tctat	45

<210> 1596

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

 <400> 1596
 gatgcatcca ctctggcatc t 21

 <210> 1597
 <211> 96
 <212> DNA
 <213> Artificial

 <220>
 <223> Humanized Antibody

 <400> 1597
 ggagtcccat caagggttcag cggcagtgga tctggaacag aattcactct caccatcagc 60
 agcctgcagc ctgatgattt tgcaacttac tactgt 96

 <210> 1598
 <211> 30
 <212> DNA
 <213> Oryctolagus cuniculus

 <400> 1598
 gcaggcggtt atgttagtgc aggtgttgct 30

 <210> 1599
 <211> 33
 <212> DNA
 <213> Artificial

 <220>
 <223> Humanized Antibody

 <400> 1599
 ttcggcggag gaaccaaggt ggaaatcaaa cgt 33

 <210> 1600
 <211> 318
 <212> DNA
 <213> Artificial

 <220>

<223> Humanized Antibody

<400> 1600

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