

LISTADO DE SECUENCIAS

<110> Daiichi Sankyo Company, Limited

5 <120> CONJUGADO ANTICUERPO ANTI-FACTOR DE CRECIMIENTO EPIDÉRMICO HUMANO 3
(ANTI-HER3-FÁRMACO)

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<151> 2014-04-10

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

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

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

55 Val Ser Val Lys Ser Arg Ile Thr Ile Asn Pro Asp Thr Ser Lys Asn
 65 70 75 80

Gln Phe Ser Leu Gln Leu Asn Ser Val Thr Pro Glu Asp Thr Ala Val
 85 90 95

5 Tyr Tyr Cys Ala Arg Asp Leu Tyr Asp Phe Trp Ser Gly Tyr Pro Tyr
 100 105 110

10 Tyr Tyr Gly Met Asp Val Trp Gly Gln Gly Thr Thr Val Thr Val Ser
 115 120 125

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20 <220>
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 cagtcgccat cgagaggcct tgagtggctg ggaaggacat actacaggtc caagtggat 180
 aatgattatg cagtatctgt gaaaagtcga ataaccatca acccagacac atccaagaac 240
 30 cagttctccc tgcagctgaa ctctgtgact cccgaggaca cggctgtgta ttactgtgca 300
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35 <210> 36
 <211> 127
 <212> PRT
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40 <220>
 <223> Anticuerpo

45 <400> 36
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 1 5 10 15

50 Thr Leu Ser Leu Thr Cys Ala Ile Ser Gly Asp Ser Val Ser Ser Asn
 20 25 30

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

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

5 Val Ser Val Lys Ser Arg Ile Thr Ile Asn Pro Asp Thr Ser Lys Asn
 65 70 75 80

10 Gln Phe Ser Leu Gln Leu Asn Ser Val Thr Pro Glu Asp Thr Ala Val
 85 90 95

15 Tyr Tyr Cys Ala Arg Asp Tyr Tyr Gly Ser Gly Ser Phe Tyr Tyr Tyr
 100 105 110

Tyr Gly Met Asp Val Trp Gly Gln Gly Thr Thr Val Thr Val Ser
 115 120 125

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 <211> 321
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 35 aggttcagtg gcagtggatc tgggacagat ttcactctca ccatcagcag tctgcaacct 240
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 40 gggaccaagg tggaaatcaa a 321

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 <211> 107
 <212> PRT
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50
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55 <400> 38
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 1 5 10 15
 Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Ser Tyr
 20 25 30

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

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

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

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

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

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 <211> 371
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25 <220>
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 35 ccctccctca agagtcgagt caccatgtca gtagacacgt ccaagaacca gttctccctg 240
 aagctgagct ctgtgaccgc cgcggaacag gccgtgtatt actgtgcgag agaagcgatt 300
 40 tttggagtg gcccctacta ctactacggt atggacgtct ggggccaagg gaccacggtc 360
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45 <210> 40
 <211> 123
 <212> PRT
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50 <220>
 <223> Anticuerpo

 <400> 40

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 1 5 10 15

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

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

10 Gly His Ile Tyr Thr Ser Gly Ser Thr Asn Tyr Asn Pro Ser Leu Lys
 50 55 60

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

20 Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr Cys Ala
 85 90 95

Arg Glu Ala Ile Phe Gly Val Gly Pro Tyr Tyr Tyr Tyr Gly Met Asp
 100 105 110

25 Val Trp Gly Gln Gly Thr Thr Val Thr Val Ser
 115 120

30 <210> 41
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 <212> ADN
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35 <220>
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45 gcacagaagt ttcagggcag ggtcaccatg accagggaca cgtccatcag cacagcctac 240
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50 acggtcaccg tctcctc 377

55 <210> 42
 <211> 125
 <212> PRT
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<220>
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<400> 42

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

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

10 Tyr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
 35 40 45

15 Gly Trp Ile Asn Pro Asn Ile Gly Gly Thr Asn Cys Ala Gln Lys Phe
 50 55 60

20 Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser Ile Ser Thr Ala Tyr
 65 70 75 80

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

Ala Arg Gly Gly Arg Tyr Ser Ser Ser Trp Ser Tyr Tyr Tyr Tyr Gly
 100 105 110

30 Met Asp Val Trp Gly Gln Gly Thr Thr Val Thr Val Ser
 115 120 125

35 <210> 43
 <211> 336
 <212> ADN
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40 <220>
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<400> 43

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 1 5 10 15
 Gln Pro Ala Ser Ile Ser Cys Lys Ser Ser Gln Ser Leu Leu Ser
 20 25 30
 15 Asp Gly Gly Thr Tyr Leu Tyr Trp Tyr Leu Gln Lys Pro Gly Gln Pro
 35 40 45
 20 Pro Gln Leu Leu Ile Tyr Glu Val Ser Asn Arg Phe Ser Gly Val Pro
 50 55 60
 25 Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile
 65 70 75 80
 Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln Ser
 85 90 95
 30 Met Gln Leu Pro Ile Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys
 100 105 110
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 cagccccag ggaagggact ggagtggatt gggatatatct attacagtgg gagcaccaac 180
 50 tacaaccct ccctcaagag tcgagtcacc atatcagtag acacgtccaa gaaccagttc 240
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 55 ggggacagta actacagga ttactactac tactacggta tggacgtctg gggccaaggg 360
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 <212> PRT
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 <220>
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 <400> 46
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 1 5 10 15
 15 Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Gly Ser Val Ser Ser Gly
 20 20 25 30
 20 Gly Tyr Tyr Trp Ser Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu Glu
 35 40 45
 25 Trp Ile Gly Tyr Ile Tyr Tyr Ser Gly Ser Thr Asn Tyr Asn Pro Ser
 50 55 60
 30 Leu Lys Ser Arg Val Thr Ile Ser Val Asp Thr Ser Lys Asn Gln Phe
 65 70 75 80
 35 Ser Leu Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr
 85 90 95
 40 Gly Met Asp Val Trp Gly Gln Gly Thr Thr Val Thr Val Ser
 115 120 125
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 55 gggaaagccc ctaagctctt gatctctgct gcatccagtt tgcaaagtgg ggtcccgta 180
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 gggacacgac tggagattaa a 321

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 <210> 48
 <211> 107
 <212> PRT
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10
 <220>
 <223> Anticuerpo

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 1 5 10 15

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

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

30 Ser Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser Gly
 50 55 60

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

40 Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Thr Ser Pro Ile
 85 90 95

40 Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys
 100 105

45
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 <211> 380
 <212> ADN
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 ccaggaagg gactggagtg gattgggtat atctattaca gtgggagcac caactacaac 180
 ccctccctca agagtcgagt caccatatca gtagacacgt ccaagcacca gttctccctg 240

aagctgagct ctgtgaccgc tgcggacacg gccgtgtatt actgtgcgag agattcgagt 300
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 5 accacgggtca ccgtctcctc 380

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 10 <212> PRT
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 15 <400> 50

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 1 5 10 15
 20 Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Gly Ser Ile Ser Ser Tyr
 20 25 30
 25 Tyr Trp Ser Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu Glu Trp Ile
 35 40 45
 30 Gly Tyr Ile Tyr Tyr Ser Gly Ser Thr Asn Tyr Asn Pro Ser Leu Lys
 50 55 60
 35 Ser Arg Val Thr Ile Ser Val Asp Thr Ser Lys His Gln Phe Ser Leu
 65 70 75 80
 40 Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr Cys Ala
 85 90 95
 Arg Asp Ser Ser Tyr Tyr Asp Ser Ser Gly Tyr Tyr Leu Tyr Tyr Tyr
 100 105 110
 45 Ala Met Asp Val Trp Gly Gln Gly Thr Thr Val Thr Val Ser
 115 120 125

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 <211> 339
 <212> ADN
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 5 gaatccgggg tccctgaccg attcagtggc agcgggtctg ggacagattt cactctcacc 240
 atcagcagcc tgcaggctga agatgtggca gtttattact gtcagcaata ttatactact 300
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<210> 52
 <211> 113
 <212> PRT
 15 <213> Artificial
 <220>
 <223> Anticuerpo

20 <400> 52
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 1 5 10 15
 25 Glu Arg Ala Thr Ile Asn Cys Lys Ser Ser Gln Ser Val Leu Tyr Ser
 20 25 30
 30 Ser Asn Asn Lys Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln
 35 40 45
 35 Pro Pro Lys Leu Leu Ile Ser Trp Ala Ser Thr Arg Glu Ser Gly Val
 50 55 60
 40 Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr
 65 70 75 80
 45 Ile Ser Ser Leu Gln Ala Glu Asp Val Ala Val Tyr Tyr Cys Gln Gln
 85 90 95
 50 Tyr Tyr Thr Thr Pro Leu Thr Phe Gly Pro Gly Thr Lys Val Asp Ile
 100 105 110
 50 Lys

55 <210> 53
 <211> 357
 <212> ADN
 <213> Artificial
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<223> Anticuerpo

<400> 53

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 ctgcaaatac acagcctgag agacgaggac acggctgtgt attactgtgc gagagatagg 300
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<210> 54

<211> 119

<212> PRT

20 <213> Artificial

<220>

<223> Anticuerpo

25 <400> 54

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
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 30 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ile Tyr
 20 25 30
 35 Ser Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45
 40 Ser Tyr Ile Ser Ser Ser Ser Ser Thr Ile Tyr Tyr Ala Asp Ser Val
 50 55 60
 45 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr
 65 70 75 80
 Leu Gln Met Asn Ser Leu Arg Asp Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 50 Ala Arg Asp Arg Gly Asp Phe Asp Ala Phe Asp Ile Trp Gly Gln Gly
 100 105 110
 55 Thr Met Val Thr Val Ser Ser
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<210> 55

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<211> 321
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    atcacttgcc aggcgagtcg ggacattacc aactatttga attggtatca gcagaaacca      120
    gggaaagccc ctaagctcct gatctacgat gcatccaatt tggaaacagg ggtcccatca      180
15  aggttcagtg gaagtggatc tgggacagat ttacttttca ccatcagcag cctgcagcct      240
    gaagatattg caacatataa ctgtcaacag tgtgaaaatt tcccgatcac cttcggccaa      300
    gggacacgac tggagattaa a                                          321
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   <210> 56
   <211> 107
   <212> PRT
25  <213> Artificial

   <220>
   <223> Anticuerpo

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

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

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

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

50  Glu Asp Ile Ala Thr Tyr Asn Cys Gln Gln Cys Glu Asn Phe Pro Ile
    85          90          95

55  Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys
    100          105

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 <211> 336
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 15 tccgggggtcc ctgacagggtt cagtggcagt ggatcaggca cagattttac actgaaaatc 240
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 20 atcaccttcg gccaaaggac acgactggag attaaa 336
 <210> 58
 <211> 112
 25 <212> PRT
 <213> Artificial
 <220>
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 30 <400> 58
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 1 5 10 15
 35 Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu Tyr Ser
 20 25 30
 40 Asn Gly Tyr Lys Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln Ser
 35 40 45
 45 Pro Gln Leu Leu Ile Tyr Leu Gly Ser Asn Arg Ala Ser Gly Val Pro
 50 55 60
 50 Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile
 65 70 75 80
 Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln Ala
 85 90 95
 55 Leu Gln Thr Pro Ile Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys
 100 105 110

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 <211> 374
 <212> ADN
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 15 cagccccccag ggaagggact ggagtggatt gggatatatca attacagtgg gagcaccaac 180
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 20 cgagaactgg aactttacta ctactactac ggtatggacg tctggggcca agggaccacg 360
 gtcaccgtct cctc 374
 25 <210> 60
 <211> 124
 <212> PRT
 <213> Artificial
 30 <220>
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 1 5 10 15
 40 Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Gly Ser Val Ser Ser Gly
 20 25 30
 45 Gly Tyr Tyr Trp Asn Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu Glu
 35 40 45
 Trp Ile Gly Tyr Ile Asn Tyr Ser Gly Ser Thr Asn Tyr Asn Pro Ser
 50 55 60
 50 Leu Lys Ser Arg Val Thr Ile Ser Val Asp Thr Ser Lys Asn Gln Phe
 65 70 75 80
 55 Ser Leu Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr
 85 90 95

Cys Ala Arg Asp Arg Glu Leu Glu Leu Tyr Tyr Tyr Tyr Tyr Gly Met
 100 105 110

5 Asp Val Trp Gly Gln Gly Thr Thr Val Thr Val Ser
 115 120

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 <211> 374
 <212> ADN
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25 tacaaccctt ccctcaagag tcgagtcacc atatcagtag acacgtccaa gaaccagttc 240
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30 gtcaccgtct cctc 374

35 <210> 62
 <211> 124
 <212> PRT
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 <220>
 <223> Anticuerpo

40 <400> 62

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

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

50 Gly Tyr Tyr Trp Asn Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu Glu
 35 40 45

55 Trp Ile Gly Tyr Ile Asn Tyr Ser Gly Ser Thr Asn Tyr Asn Pro Ser
 50 55 60

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

5 Ser Leu Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr
 85 90 95

10 Cys Ala Arg Asp Arg Glu Leu Glu Leu Tyr Tyr Tyr Tyr Tyr Gly Met
 100 105 110

15 Asp Val Trp Gly Gln Gly Thr Thr Val Thr Val Ser
 115 120

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 <211> 112
 <212> PRT
 <213> Artificial
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 45 <223> Anticuerpo
 <400> 64

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 20 25 30

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

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

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

10 Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln Ala
 85 90 95

15 Leu Gln Thr Pro Ile Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys
 100 105 110

<210> 65
 <211> 363
 <212> ADN
 20 <213> Artificial
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 30 ccaggcaagg ggctggagtg ggtggcagtt atatggtatg atggaagtaa taaatactat 180
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 ctgcaaatac acagcctgag agccgaggac acggctgtgt attactgtgc gagagcagct 300
 35 cgccttgact actactacgg tatggacgtc tggggccaag ggaccacggt caccgtctcc 360
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40 <210> 66
 <211> 121
 <212> PRT
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 45 <220>
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 <400> 66

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

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

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

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

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

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

20 Ala Arg Ala Ala Arg Leu Asp Tyr Tyr Tyr Gly Met Asp Val Trp Gly
 100 105 110

25 Gln Gly Thr Thr Val Thr Val Ser Ser
 115 120

25 <210> 67
 <211> 321
 <212> ADN
 <213> Artificial

30 <220>
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35 <400> 67
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 gggaaagccc ctcagctcct gatctttggt gcatccggtt tgcaaagtgg ggtcccatca 180
 40 aggttcagtg gcagtggatc tgggacagat ttactctca ccatcaacag tctgcaacct 240
 gaagattttg caacttacta ctgtcaacag agttacagtt ccccgctcac cttcggccaa 300
 45 gggacacgac tggagattaa a 321

50 <210> 68
 <211> 107
 <212> PRT
 <213> Artificial

55 <220>
 <223> Anticuerpo

55 <400> 68
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 1 5 10 15

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

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

10 Phe Gly Ala Ser Gly Leu Gln Ser Gly Val Pro Ser Arg Phe Ser Gly
 50 55 60

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

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

25 Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys
 100 105

25 <210> 69
 <211> 351
 <212> ADN
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30 <220>
 <223> Anticuerpo

35 <400> 69
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 ccaggggaagg ggctggagtg gattggggaa atcaatcata gtggaagcac caactacaac 180
 ccgtccctca agagtcgagt caccatatca gtagaaacgt ccaagaacca gttctccctg 240
 aagctgagct ctgtgaccgc cgcggaacag gctgtgtatt actgtgagag agataagtgg 300
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45 <210> 70
 <211> 117
 <212> PRT
 <213> Artificial

50 <220>
 <223> Anticuerpo

55 <400> 70
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 1 5 10 15

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

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

10 Gly Glu Ile Asn His Ser Gly Ser Thr Asn Tyr Asn Pro Ser Leu Lys
 50 55 60

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

20 Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr Cys Ala
 85 90 95

25 Arg Asp Lys Trp Thr Trp Tyr Phe Asp Leu Trp Gly Arg Gly Thr Leu
 100 105 110

30 Val Thr Val Ser Ser
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30 <210> 71
 <211> 339
 <212> ADN
 <213> Artificial

35 <220>
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45 atcaactgca ggtccagcca gagtgtttta tacagctcca gcaataggaa ctacttagct 120

50 tggtaccagc agaaccagg acagcctcct aagctgctca ttactgggc ttctaccgg 180

55 gaatccgggg tccctgaccg attcagtggc agcgggtctg ggacagattt cactctcacc 240

60 atcagcagcc tgcaggctga agatgtggca gtttattact gtcagcaata ttatagtact 300

65 cctcggacgt tcggccaagg gaccaaggtg gaaatcaaa 339

50 <210> 72
 <211> 113
 <212> PRT
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55 <220>
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60 <400> 72

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<213> Artificial
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 <223> Anticuerpo
 5 <400> 74
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 10 1 5 10 15
 Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Gly Ser Ile Ser Ser Gly
 15 20 25 30
 Gly Tyr Tyr Trp Ser Trp Ile Arg Gln His Pro Gly Lys Gly Leu Glu
 35 40 45
 20 Trp Met Gly Asn Ile Tyr Tyr Ser Gly Ser Thr Tyr Tyr Asn Pro Ser
 50 55 60
 25 Leu Lys Ser Arg Val Thr Ile Ser Val Asp Thr Ser Glu Asn Gln Phe
 65 70 75 80
 Ser Leu Lys Leu Asn Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr
 85 90 95
 30 Cys Ala Arg Gly Gly Thr Gly Thr Asn Tyr Tyr Tyr Tyr Tyr Gly Met
 100 105 110
 35 Asp Val Trp Gly Gln Gly Thr Thr Val Thr Val Ser
 115 120
 40 <210> 75
 <211> 324
 <212> ADN
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 45 <220>
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 <400> 75
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 cctggccagg ctcccaggct cctcatctat ggtgcatcca gctgggccac tggcatccca 180
 55 aacaggttca gtggcagtggt gtctgggaca gacttcactc tcaccatcag cagactggag 240
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<210> 76
 <211> 108
 <212> PRT
 <213> Artificial
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 <220>
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 <400> 76
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 1 5 10 15
 15 Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Ser Ser Ser
 20 25 30
 20 Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu
 35 40 45
 25 Ile Tyr Gly Ala Ser Ser Trp Ala Thr Gly Ile Pro Asn Arg Phe Ser
 50 55 60
 Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Arg Leu Glu
 65 70 75 80
 30 Pro Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Gly Ser Ser Pro
 85 90 95
 35 Leu Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
 100 105
 40 <210> 77
 <211> 377
 <212> ADN
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 45 <220>
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 <400> 77
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 cagcaccagc ggatgggcct ggagtggatt gggatcatct attacagtgg gagcacctac 180
 55 tacaaccgct ccctcaagag tcgagtcacc atatcagaag acacgtctaa gaaccagttc 240
 tccctgaagc tgagctctgt gactgccgcg gacacggccg tgtattactg tgcgagagat 300
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acggtcaccg tctcctc

377

5 <210> 78
 <211> 125
 <212> PRT
 <213> Artificial
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 10 <223> Anticuerpo
 <400> 78
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 1 5 10 15
 Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Val Ser Ile Ser Ser Gly
 20 20 25 30
 Gly Tyr Tyr Trp Ser Trp Ile Arg Gln His Pro Gly Met Gly Leu Glu
 35 40 45
 25 Trp Ile Gly Tyr Ile Tyr Tyr Ser Gly Ser Thr Tyr Tyr Asn Pro Ser
 50 55 60
 30 Leu Lys Ser Arg Val Thr Ile Ser Glu Asp Thr Ser Lys Asn Gln Phe
 65 70 75 80
 35 Ser Leu Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr
 85 90 95
 Cys Ala Arg Asp Ser Glu Ser Glu Tyr Ser Ser Ser Ser Asn Tyr Gly
 100 105 110
 40 Met Asp Val Trp Gly Gln Gly Thr Thr Val Thr Val Ser
 115 120 125
 45 <210> 79
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 50 <220>
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 cagcaccagc ggatgggcct ggagtggatt gggtacatct attacagtgg gagcacctac 180

tacaaccggt ccctcaagag tcgagtcacc atatcagaag acacgtctaa gaaccagttc 240
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 5 tccgagtcg agtatagcag ctcgtcgaac tacggtatgg acgtctgggg ccaagggacc 360
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10 <210> 80
 <211> 125
 <212> PRT
 <213> Artificial

15 <220>
 <223> Anticuerpo
 <400> 80

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 1 5 10 15

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

30 Gly Tyr Tyr Trp Ser Trp Ile Arg Gln His Pro Gly Met Gly Leu Glu
 35 40 45

35 Trp Ile Gly Tyr Ile Tyr Tyr Ser Gly Ser Thr Tyr Tyr Asn Pro Ser
 50 55 60

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

45 Ser Leu Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr
 85 90 95

50 Cys Ala Arg Asp Ser Glu Ser Glu Tyr Ser Ser Ser Ser Asn Tyr Gly
 100 105 110

55 Met Asp Val Trp Gly Gln Gly Thr Thr Val Thr Val Ser
 115 120 125

<210> 81
 <211> 321
 <212> ADN
 <213> Artificial

<220>
 <223> Anticuerpo

<400> 81
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 5 atcacttgcc gggcaagtca gaccattagc agctatttaa attggtatca gcagaaacca 120
 gggaaagccc ctaagctcct gatctatgct gcatccagtt tgcaaggtgg ggtcccatca 180
 aggttcagtg gcagtgtatc tgggacagat ttcacctca ccgtcagcag tctgcaacct 240
 10 gaagattttg caacttacta ctgtcaacag agttacagta acccgctcac tttcggcgga 300
 gggaccaagg tggagatcaa a 321

15 <210> 82
 <211> 107
 <212> PRT
 <213> Artificial

20 <220>
 <223> Anticuerpo
 <400> 82

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

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

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

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

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

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

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

55 <210> 83
 <211> 371
 <212> ADN
 <213> Artificial

<220>
 <223> Anticuerpo

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 cccgggaaag gcctggagtg gatggggatc atctatcctg gtgactctga taccagatac 180
 agcccgtcct tccaaggcca ggtcaccatg tcagccgaca agtccatcag taccgcctac 240
 10 ctgcagctga gcagccatga aggcctcgga caccgccatg tattactgtg cgagacagat 300
 ggctggaaac tacgtacatc acgggtgac gagacgtcct ggggccaagg gaccacggtc 360
 accgtctcct c 371
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<210> 84
 <211> 123
 <212> PRT
 20 <213> Artificial

<220>
 <223> Anticuerpo

25 <400> 84

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Glu
 1 5 10 15
 30 Ser Leu Lys Ile Ser Cys Lys Gly Ser Gly Tyr Ser Phe Thr Ser Tyr
 20 25 30
 35 Trp Ile Gly Trp Val Arg Gln Met Pro Gly Lys Gly Leu Glu Trp Met
 35 40 45
 40 Gly Ile Ile Tyr Pro Gly Asp Ser Asp Thr Arg Tyr Ser Pro Ser Phe
 50 55 60
 45 Gln Gly Gln Val Thr Met Ser Ala Asp Lys Ser Ile Ser Thr Ala Tyr
 65 70 75 80
 Leu Gln Leu Ser Ser His Glu Gly Leu Gly His Arg His Val Leu Leu
 85 90 95
 50 Cys Glu Thr Asp Gly Trp Lys Leu Arg Thr Ser Arg Val Ile Glu Thr
 100 105 110
 55 Ser Trp Gly Gln Gly Thr Thr Val Thr Val Ser
 115 120

<210> 85

<211> 324
 <212> ADN
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5 <220>
 <223> Anticuerpo

<400> 85
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 cctggccagg ctcccaggct cctcatctat ggtgcatcca gcagggccac tggcatccca 180
 15 gacaggttca gtggcagtgg gtctgggaca gacttcactc tcaccatcag cagactggag 240
 cctgaagatt ttgcagtgtg ttactgtcag cagtatggta gctcaccgtg cagttttggc 300
 caggggacca aactggagat caaa 324
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<210> 86
 <211> 108
 <212> PRT
 25 <213> Artificial

<220>
 <223> Anticuerpo

30 <400> 86
 Glu Ile Val Leu Thr Gln Ser Pro Gly Thr Leu Ser Leu Ser Pro Gly
 1 5 10 15
 35 Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Ile Ser Ile
 20 25 30
 40 Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu
 35 40 45
 45 Ile Tyr Gly Ala Ser Ser Arg Ala Thr Gly Ile Pro Asp Arg Phe Ser
 50 55 60
 50 Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Arg Leu Glu
 65 70 75 80
 Pro Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Gly Ser Ser Pro
 85 90 95
 55 Cys Ser Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
 100 105

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<210> 87
<211> 366
<212> ADN
<213> Artificial
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<220>
<223> Anticuerpo

<400> 87
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    acctgcactg tctctggtgg ctccatcagc agtgggtgatt actactggag ctggatccgc      120
    cagcaccagc ggaagggcct ggagtggatt gggtagatct attacagtgg gagcacctac      180
15 tacaaccgct ccctcaggag tcgagttacc atatcagtag acacgtctaa gaaccagttc      240
    tccctgaagc tgagctctgt gactgccgcg gacacggccg tgtattactg tgcgagagcg      300
20 gattacgatt tttggagtgg ttattttgac tactggggcc agggaaccct ggtcaccgtc      360
    tcctca                                     366

25 <210> 88
    <211> 122
    <212> PRT
    <213> Artificial
30 <220>
    <223> Anticuerpo

    <400> 88
35 Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Gln
    1          5          10          15

40 Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Gly Ser Ile Ser Ser Gly
    20          25          30

45 Asp Tyr Tyr Trp Ser Trp Ile Arg Gln His Pro Gly Lys Gly Leu Glu
    35          40          45

    Trp Ile Gly Tyr Ile Tyr Tyr Ser Gly Ser Thr Tyr Tyr Asn Pro Ser
    50          55          60

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

55 Ser Leu Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr
    85          90          95

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Cys Ala Arg Ala Asp Tyr Asp Phe Trp Ser Gly Tyr Phe Asp Tyr Trp
 100 105 110

5 Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

10 <210> 89
 <211> 322
 <212> ADN
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15 <220>
 <223> Anticuerpo

 <400> 89
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20 atcacttgcc gggcaagtca gggcattaga aatgatttag gctggtatca gcagatacct 120
 gggaaagccc ctaagcgct gatctatgct gcatccagtt tgcaaagtgg ggtcccatca 180

25 aggttcagcg gcagtggatc tgggacagaa ttactctca caatcaacag cctgcagcct 240
 gaagattttg caacttatta ctgtctacag cataatgggt acccgtggac gttcggccaa 300
 gggaccaagg tggaaatcaa ac 322

30 <210> 90
 <211> 107
 <212> PRT
 <213> Artificial

35 <220>
 <223> Anticuerpo

 <400> 90

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

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

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

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

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

Glu Asp Phe Ala Thr Tyr Tyr Cys Leu Gln His Asn Gly Tyr Pro Trp
 85 90 95

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

10 <210> 91
 <211> 366
 <212> ADN
 <213> Artificial

15 <220>
 <223> Anticuerpo

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 cagcaccag ggaagggcct ggagtggatt ggatacatct attacagtgg gagcacctac 180

25 tacaaccgct ccctcaagag tcgagttacc atatcagtag acacgtctaa gaaccagttc 240
 tccttgaagc tgagctctgt gactgccgcg gacacggccg tgtattactg tgcgagagcg 300
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30 tcctca 366

35 <210> 92
 <211> 122
 <212> PRT
 <213> Artificial

40 <220>
 <223> Anticuerpo

<400> 92

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

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

50 Asp Tyr Tyr Trp Ser Trp Ile Arg Gln His Pro Gly Lys Gly Leu Glu
 35 40 45

55 Trp Ile Gly Tyr Ile Tyr Tyr Ser Gly Ser Thr Tyr Tyr Asn Pro Ser
 50 55 60

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

5 Ser Leu Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr
 85 90 95

10 Cys Ala Arg Ala Asp Tyr Asp Phe Trp Ser Gly Tyr Phe Asp Tyr Trp
 100 105 110

15 Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 93
 <211> 322
 <212> ADN
 20 <213> Artificial
 <220>
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25 <400> 93
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 30 gggaaagccc ctaagcgct gatctatgct gcatccagtt tgcaaagtgg ggtcccatca 180
 aggttcagcg gcagtggatc tgggacagaa ttactctca caatcagcag cctgcagcct 240
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 35 gggaccaagg tggaaatcaa ac 322

40 <210> 94
 <211> 107
 <212> PRT
 <213> Artificial
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 45 <223> Anticuerpo
 <400> 94

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

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

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

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

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

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

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

<210> 95
 <211> 366
 <212> ADN
 20 <213> Artificial
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 30 cagcaccag ggaagggcct ggagtggatt ggatacatct attacagtgg gagcacctac 180
 tacaaccgct ccctcaagag tcgagttacc atatcaatag acacgtctaa gaaccagttc 240
 35 tcctgaagc tgagctctgt gactgccgcg gacacggccg tgtattactg tgcgagagcg 300
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 tcctca 366

40 <210> 96
 <211> 122
 <212> PRT
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 45 <220>
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 <400> 96

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

55 Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Gly Ser Ile Ser Ser Gly
 20 25 30

Asp Tyr Tyr Trp Ser Trp Ile Arg Gln His Pro Gly Lys Gly Leu Glu
 35 40 45

5 Trp Ile Gly Tyr Ile Tyr Tyr Ser Gly Ser Thr Tyr Tyr Asn Pro Ser
 50 55 60

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

15 Ser Leu Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr
 85 90 95

20 Cys Ala Arg Ala Asp Tyr Asp Phe Trp Asn Gly Tyr Phe Asp Tyr Trp
 100 105 110

25 Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

25 <210> 97
 <211> 321
 <212> ADN
 <213> Artificial

30 <220>
 <223> Anticuerpo

35 <400> 97
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 gggaaagccc ctaagcgcct gatctatgct gcatccagtt tgcaaagtgg ggtcccatca 180
 40 aggttcagcg gcagtggatc tgggacagaa ttactctca caatcagcag cctgcagcct 240
 gaagattttg caacttatta ctgtctacag cataatagtt acccgtggac gttcggccaa 300
 45 gggaccaagg tggaaatcaa a 321

50 <210> 98
 <211> 107
 <212> PRT
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 <220>
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55 <400> 98
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[illegible]

<220>

<223> Anticuerpo

<400> 102

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

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

20 Tyr Ala Ala Ser Ser Leu Gln 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

25 Glu Asp Phe Ala Thr Tyr Tyr Cys Leu Gln His Asn Asn Tyr Pro Trp
 85 90 95

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

<210> 103

35

<211> 366

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<220>

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<223> Anticuerpo

<400> 103

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 cagcaccag ggaagggcct ggagtggatt gggtagatct attacagtgg gagcacctac 180
 50 tacaaccgct ccctcaagag tcgagttacc atatcagtag acacgtctaa gaaccagttc 240
 tccctgaagt tgagctctgt gactgccgcg gacacggccg tgtattactg tgcgagagcc 300
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 55 tcctca 366

<210> 104

<211> 122

<212> PRT
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 <220>
 5 <223> Anticuerpo

 <400> 104

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

 Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Gly Ser Ile Ser Ser Gly
 15 20 25 30

 Asp Tyr Tyr Trp Ser Trp Ile Arg Gln His Pro Gly Lys Gly Leu Glu
 35 40 45
 20 Trp Ile Gly Tyr Ile Tyr Tyr Ser Gly Ser Thr Tyr Tyr Asn Pro Ser
 50 55 60

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

 30 Ser Leu Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr
 85 90 95

 Cys Ala Arg Ala Asp Tyr Asp Phe Trp Ser Gly Tyr Phe Asp Tyr Trp
 100 105 110
 35 Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120
 40
 <210> 105
 <211> 321
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 45
 <220>
 <223> Anticuerpo

 <400> 105
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 gggaaagccc ctaagcgct gatctatgct gcatccagtt tgcaaagtgg ggtcccatca 180
 55 aggttcagcg gcagtggatc tgggacagaa ttactctca caatcagcag cctgcagcct 240
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gggaccaagg tggaaatcaa a

321

5 <210> 106
 <211> 107
 <212> PRT
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10 <220>
 <223> Anticuerpo
 <400> 106

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

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

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

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

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

40 Glu Asp Phe Ala Thr Tyr Tyr Cys Leu Gln His Asn Asn Tyr Pro Trp
 85 90 95

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

50 <210> 107
 <211> 351
 <212> ADN
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55 <220>
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 <400> 107

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 cagcaccag ggaagggcct ggagtggatt gggtacatct attacagtgg gagcacctac 180
 tacaaccgct ccctcaagag tcgagttacc atatcagtag acacgtctaa gaaccagttc 240
 tccctgaagc tgagctctgt gactgccgcg gacacggccg tgtattactg tgcgagagag 300

gacgacggta tggacgtctg gggccaaggg accacgggtca ccgtctcctc a 351

5 <210> 108
 <211> 117
 <212> PRT
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10 <220>
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 <400> 108

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

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

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

25 Trp Ile Gly Tyr Ile Tyr Tyr Ser Gly Ser Thr Tyr Tyr Asn Pro Ser
 50 55 60

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

35 Ser Leu Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr
 85 90 95

40 Cys Ala Arg Glu Asp Asp Gly Met Asp Val Trp Gly Gln Gly Thr Thr
 100 105 110

Val Thr Val Ser Ser
 115

45 <210> 109
 <211> 336
 <212> ADN
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50 <220>
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 <400> 109

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 tacctgcaga agccagggca gtccccacag ttcattgattt atttgggggc taatcggggc 180

tccgggggtcc ctgacagggtt cagtggcagt ggatcaggca cagatTTTtac actgaaaatc 240
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 5 atcaccttcg gccaaaggac acgactggag attaaa 336

<210> 110
 <211> 112
 10 <212> PRT
 <213> Artificial

<220>
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 15 <400> 110

Asp Ile Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro Gly
 1 5 10 15
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Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu His Ser
 20 25 30
 25

Asn Gly Tyr Asn Tyr Leu Glu Trp Tyr Leu Gln Lys Pro Gly Gln Ser
 35 40 45
 30

Pro Gln Phe Met Ile Tyr Leu Gly Ser Asn Arg Ala Ser Gly Val Pro
 50 55 60
 35

Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile
 65 70 75 80
 40

Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln Ala
 85 90 95
 45

Leu Gln Thr Pro Ile Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys
 100 105 110
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<210> 111
 <211> 366
 <212> ADN
 <213> Artificial
 50 <220>
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<400> 111
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 cagtacccag ggaagggcct ggagtggatt gggtacatct attacagtgg gagcacctac 180

tacaaccggt ccctcaagag tcgagttacc atatcagtag acacgtctaa gaaccagttc 240
 tccctgaagc tgaggtctgt gactgccgcg gacacggccg tgtattactg tgcgagagcg 300
 5 gattacgatt tttggagtgg ttattttgac tactggggcc agggaaccct ggtcaccgtc 360
 tcctca 366

10 <210> 112
 <211> 122
 <212> PRT
 <213> Artificial

15 <220>
 <223> Anticuerpo
 <400> 112

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

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

30 Asp Tyr Tyr Trp Ser Trp Ile Arg Gln Tyr Pro Gly Lys Gly Leu Glu
 35 40 45

35 Trp Ile Gly Tyr Ile Tyr Tyr Ser Gly Ser Thr Tyr Tyr Asn Pro Ser
 50 55 60

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

45 Ser Leu Lys Leu Arg Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr
 85 90 95

50 Cys Ala Arg Ala Asp Tyr Asp Phe Trp Ser Gly Tyr Phe Asp Tyr Trp
 100 105 110

55 Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 113
 <211> 322
 <212> ADN
 <213> Artificial

<220>
 <223> Anticuerpo

<400> 113
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 5 atcacttgcc gggcaagtca gggcattaga aatgatttag gctgggtatca gcagaaacca 120
 gggaaagccc ctaagcgcct gatctatgct gcatccagtt tgcaaagtgg ggtcccatca 180
 aggttcagcg gcagtggatc tgggacagaa ttactctca caatcagcag cctgcagcct 240
 10 gaagattttg caacttatta ctgtctacag cataatactt acccgtggac gttcggccaa 300
 gggaccaagg tggaaatcaa ac 322

15 <210> 114
 <211> 107
 <212> PRT
 <213> Artificial

20 <220>
 <223> Anticuerpo
 <400> 114

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

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

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

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

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

50 Glu Asp Phe Ala Thr Tyr Tyr Cys Leu Gln His Asn Thr Tyr Pro Trp
 85 90 95

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

<210> 115
 <211> 372
 <212> ADN
 <213> Artificial

<220>
 <223> Anticuerpo

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 5 acctgcactg tctctggtgg ctccgtcagc agtgggtggtt actactggag ctggatccgg 120
 cagccccag ggaagggact ggagtggatt gggatatatct attacagtgg gagcaccaac 180
 tacaaccct ccctcaagag tcgagtcacc atatcagtag acacgtccaa gaaccagttc 240
 10 tccctgaagc tgagctctgt gaccgctgcg gacacggccg tgtattactg tgcgagagat 300
 ggggacgtgg atacagctat ggtcgatgct tttgatatact ggggccaagg gacaatggtc 360
 accgtctcct ca 372
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<210> 116
 <211> 124
 <212> PRT
 20 <213> Artificial

<220>
 <223> Anticuerpo

25 <400> 116
 Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Glu
 1 5 10 15
 30 Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Gly Ser Val Ser Ser Gly
 20 25 30
 35 Gly Tyr Tyr Trp Ser Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu Glu
 35 40 45
 40 Trp Ile Gly Tyr Ile Tyr Tyr Ser Gly Ser Thr Asn Tyr Asn Pro Ser
 50 55 60
 45 Leu Lys Ser Arg Val Thr Ile Ser Val Asp Thr Ser Lys Asn Gln Phe
 65 70 75 80
 Ser Leu Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr
 85 90 95
 50 Cys Ala Arg Asp Gly Asp Val Asp Thr Ala Met Val Asp Ala Phe Asp
 100 105 110
 55 Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser
 115 120

<210> 117

<211> 324
 <212> ADN
 <213> Artificial

5 <220>
 <223> Anticuerpo

<400> 117
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 cctggccagg ctcccaggct catcatctgt ggtgcatcca gcagggccac tggcatccca 180
 15 gacaggttca gtggcagtgg gtctgggaca gacttcactc tcaccatcac aagactggag 240
 cctgaagatt ttgcagtgtg ttactgtcag cagtatgata ggtcaccgct cactttcggc 300
 ggagggacca aggtggagat caaa 324

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<210> 118
 <211> 108
 <212> PRT
 25 <213> Artificial

<220>
 <223> Anticuerpo

30 <400> 118

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

35 Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Leu Ser Gly Asn
 20 25 30

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

45 Ile Cys Gly Ala Ser Ser Arg Ala Thr Gly Ile Pro Asp Arg Phe Ser
 50 55 60

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

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

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

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    <210> 119
    <211> 366
    <212> ADN
    <213> Artificial
5
    <220>
    <223> Anticuerpo

    <400> 119
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    acctgcactg tctctggtgg ctccatcagc agtgggtgatt actactggag ctggatccgc      120
    cagcaccagc ggaagggcct ggagtggatt gggtagatct attacagtgg gagcacctac      180
15 tacaaccgct ccctcaagag tcgagttacc atatcagtag acacgtctaa gaaccagttc      240
    tcctgaagc tgagctctgt gactgccgcg gacacggccg tgtattactg tgcgagagga      300
20 gattacgatt tttggagtgg agagtttgac tactggggcc agggaaccct ggtcaccgtc      360
    tcctca                                366

25 <210> 120
    <211> 122
    <212> PRT
    <213> Artificial

30 <220>
    <223> Anticuerpo

    <400> 120

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

40 Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Gly Ser Ile Ser Ser Gly
    20          25          30

45 Asp Tyr Tyr Trp Ser Trp Ile Arg Gln His Pro Gly Lys Gly Leu Glu
    35          40          45

50 Trp Ile Gly Tyr Ile Tyr Tyr Ser Gly Ser Thr Tyr Tyr Asn Pro Ser
    50          55          60

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

55 Ser Leu Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr
    85          90          95

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Cys Ala Arg Gly Asp Tyr Asp Phe Trp Ser Gly Glu Phe Asp Tyr Trp
 100 105 110

5 Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

10 <210> 121
 <211> 386
 <212> ADN
 <213> Artificial

15 <220>
 <223> Anticuerpo

 <400> 121
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20 acctgcactg tctctggtgg ctccatcagc agtgggtggtt actactggag ctggatccgc 120
 cagcaccag ggaagggcct ggagtggatt gggtagatct atgacagtgg gagcacctac 180

25 tacaaccggt ccctcaagag tcgagttacc atatcagtag acacgtctaa gaaccagttc 240
 tccttgaagc tgaggtctgt gactgccgcg gacacggccg tgtattactg tgcgagagat 300
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30 caagggacca cggtcaccgt ctctctc 386

35 <210> 122
 <211> 128
 <212> PRT
 <213> Artificial

40 <220>
 <223> Anticuerpo

 <400> 122

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

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

50 Gly Tyr Tyr Trp Ser Trp Ile Arg Gln His Pro Gly Lys Gly Leu Glu
 35 40 45

55 Trp Ile Gly Tyr Ile Tyr Asp Ser Gly Ser Thr Tyr Tyr Asn Pro Ser
 50 55 60

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

5 Ser Leu Lys Leu Arg Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr
 85 90 95

10 Cys Ala Arg Asp Gln Gly Gln Asp Gly Tyr Ser Tyr Gly Tyr Gly Tyr
 100 105 110

15 Tyr Tyr Gly Met Asp Val Trp Gly Gln Gly Thr Thr Val Thr Val Ser
 115 120 125

<210> 123
 <211> 321
 <212> ADN
 20 <213> Artificial
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25 <400> 123
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 30 gggaaagccc ctaaactcct gatctacgtt gcatccaatt tggaacagg ggtcccatca 180
 aggttcagtg gaagtggatc tgggacagat ttactttca ccatcagcag cctgcagcct 240
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 35 gggaccaagg tggagatcaa a 321

<210> 124
 40 <211> 107
 <212> PRT
 <213> Artificial
 <220>
 45 <223> Anticuerpo
 <400> 124

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

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

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

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

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

10 Glu Asp Ile Ala Thr Tyr Tyr Cys Gln Gln Cys Asp Asn Leu Pro Leu
 85 90 95

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

<210> 125
 <211> 365
 <212> ADN
 20 <213> Artificial
 <220>
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25 <400> 125
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 30 cagcaccag ggaagggcct ggagtggatt ggatacatct attacagtgg gagcacctac 180
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 35 tccctgaagc tgagctctgt gactgccgcg gacacggccg tgtattactg tgcgagagcg 300
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 tcctc 365

40 <210> 126
 <211> 121
 <212> PRT
 <213> Artificial
 45 <220>
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 <400> 126

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

55 Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Gly Ser Ile Ser Ser Gly
 20 25 30

Asp Tyr Tyr Trp Ser Trp Ile Arg Gln His Pro Gly Lys Gly Leu Glu
 35 40 45

5 Trp Ile Gly Tyr Ile Tyr Tyr Ser Gly Ser Thr Tyr Tyr Asn Pro Ser
 50 55 60

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

15 Ser Leu Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr
 85 90 95

20 Cys Ala Arg Ala Asp Tyr Asp Phe Trp Ser Gly Tyr Phe Asp Tyr Trp
 100 105 110

25 Gly Gln Gly Thr Leu Val Thr Val Ser
 115 120

25 <210> 127
 <211> 322
 <212> ADN
 <213> Artificial

30 <220>
 <223> Anticuerpo

35 <400> 127
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 40 aggttcagcg gcagtggatc tgggacagaa ttactctca caatcagcag cctgcagcct 240
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 45 gggaccaagg tggaaatcaa ac 322

50 <210> 128
 <211> 107
 <212> PRT
 <213> Artificial

55 <220>
 <223> Anticuerpo

55 <400> 128

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

[illegible]

[illegible]

<220>

<223> Anticuerpo

<400> 132

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

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

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

20 Tyr Ala Ala Ser Ser Leu Gln Asn 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

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

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

<210> 133

<211> 365

<212> ADN

<213> Artificial

<220>

<223> Anticuerpo

<400> 133

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 cagcaccag ggaagggcct ggagtggatt gggtagatct attacagtgg gagcacctac 180
 50 tacaaccggt ccctcaagag tcgagttacc atatcagtag acacgtctaa gaaccagttc 240
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 55 tcctc 365

<210> 134

<211> 121

<212> PRT
 <213> Artificial

 <220>
 5 <223> Anticuerpo

 <400> 134

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

 Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Gly Ser Ile Ser Ser Gly
 15 20 25 30

 Asp Tyr Tyr Trp Ser Trp Ile Arg Gln His Pro Gly Lys Gly Leu Glu
 35 40 45
 20 Trp Ile Gly Tyr Ile Tyr Tyr Ser Gly Ser Thr Tyr Tyr Asn Pro Ser
 50 55 60

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

 30 Ser Leu Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr
 85 90 95

 Cys Ala Arg Ala Asp Tyr Asp Phe Trp Ser Gly Tyr Phe Asp Tyr Trp
 100 105 110
 35 Gly Gln Gly Ile Leu Val Thr Val Ser
 115 120
 40
 <210> 135
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 45
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 <400> 135
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 gggaaagccc ctaagcgctt gatttatgct gcatccagtt tgcaaagtgg ggtcccatca 180
 55 aggttcagcg gcagtggatc tgggacagaa ttactctca caatcagcag cctgcagcct 240
 gaagattttg caacttatta ctgtctacag cataatagtt acccgtggac gttcggccaa 300

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5	<210> 136 <211> 107 <212> PRT <213> Artificial	
10	<220> <223> Anticuerpo <400> 136	
15	Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly 1 5 10 15	
20	Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Gly Ile Arg Asn Asp 20 25 30	
25	Leu Gly Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Arg Leu Ile 35 40 45	
30	Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser Gly 50 55 60	
35	Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro 65 70 75 80	
40	Glu Asp Phe Ala Thr Tyr Tyr Cys Leu Gln His Asn Ser Tyr Pro Trp 85 90 95	
45	Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys 100 105	
50	<210> 137 <211> 366 <212> ADN <213> Artificial <220> <223> Anticuerpo <400> 137	
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55	cagcaccag ggaagggcct ggagtggatt gggtacatct attacagtgg gagcacctac	180
	tacaaccgct ccctcaagag tcgagttacc atatcagtag acacgtctaa gaaccagttc	240
	tccctgaagt tgagctctgt gactgccgcg gacacggccg tgtattactg tgcgagagcc	300

gattacgatt ttggaatgg ttattttgac tactggggcc agggaaccct ggtcaccgtc 360
tcctca 366

5
<210> 138
<211> 122
<212> PRT
<213> Artificial

10
<220>
<223> Anticuerpo

15
<400> 138
Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Gln
1 5 10 15

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

25 Asp Tyr Tyr Trp Ser Trp Ile Arg Gln His Pro Gly Lys Gly Leu Glu
35 40 45

30 Trp Ile Gly Tyr Ile Tyr Tyr Ser Gly Ser Thr Tyr Tyr Asn Pro Ser
50 55 60

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

40 Ser Leu Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr
85 90 95

45 Gly Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

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<400> 139
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gggaaagccc ctaagcgctt gatctatgct gcatccagtt tgcaaagtgg ggtcccatca 180
 aggttcagcg gcagtggatc tgggacagaa ttcactctca caatcagcag cctgcagcct 240
 5 gaagattttg caacttatta ctgtctacag cataataatt acccgtggac gttcggccaa 300
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10 <210> 140
 <211> 107
 <212> PRT
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15 <220>
 <223> Anticuerpo
 <400> 140

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

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

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

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

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

45 Glu Asp Phe Ala Thr Tyr Tyr Cys Leu Gln His Asn Asn Tyr Pro Trp
 85 90 95

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

55 <210> 141
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 tacaaccggt ccctcaagag tcgagttacc atatcagtag acacgtctaa gaaccagttc 240
 5 tccctgaagc tgagctctgt gactgccgcg gacacggccg tgtattactg tgcgagagcc 300
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 10 tcctca 366
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 15 <213> Artificial
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 20 <400> 142
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 1 5 10 15
 25 Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Gly Ser Ile Ser Ser Gly
 20 25 30
 30 Asp Tyr Tyr Trp Ser Trp Ile Arg Gln His Pro Gly Lys Gly Leu Glu
 35 40 45
 35 Trp Ile Gly Tyr Ile Tyr Tyr Ser Gly Ser Thr Tyr Tyr Asn Pro Ser
 50 55 60
 40 Leu Lys Ser Arg Val Thr Ile Ser Val Asp Thr Ser Lys Asn Gln Phe
 65 70 75 80
 Ser Leu Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr
 85 90 95
 45 Cys Ala Arg Ala Asp Tyr Asp Phe Trp Ser Gly Tyr Phe Asp Tyr Trp
 100 105 110
 50 Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120
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gggaaagccc ctaagcgctt gatctatgct gcatccagtt tgcaaaatgg ggtcccatca 180

10 aggttcagcg gcagtggatc tgggacagaa ttcactctca caatcagcag cctgcagcct 240

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15 gggaccaagg tggaaatcaa ac 322

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<211> 107

<212> PRT

20 <213> Artificial

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<223> Anticuerpo

25 <400> 144

Asp Ile Gln Leu Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly

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

20 25 30

35 Leu Gly Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Arg Leu Ile

35 40 45

40 Tyr Ala Ala Ser Ser Leu Gln Asn Gly Val Pro Ser Arg Phe Ser Gly

50 55 60

45 Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro

65 70 75 80

Glu Asp Phe Ala Thr Tyr Tyr Cys Leu Gln His Asn Ser Tyr Pro Trp

85 90 95

50 Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys

100 105

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<211> 365

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 10 cagtacccag ggaagggcct ggagtggatt gggtagatct attacagtgg gagcacctac 180
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20 <210> 146
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 <212> PRT
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25 <220>
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<400> 146

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

35 Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Gly Ser Ile Ser Ser Gly
 20 25 30

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

45 Trp Ile Gly Tyr Ile Tyr Tyr Ser Gly Ser Thr Tyr Tyr Asn Pro Ser
 50 55 60

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

55 Ser Leu Lys Leu Gly Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Phe
 85 90 95

Cys Ala Arg Ala Asp Tyr Asp Phe Trp Ser Gly Tyr Phe Asp Phe Trp
 100 105 110

Gly Gln Gly Thr Leu Val Thr Val Ser
 115 120

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    gggaaagccc ctaagcgctt gatctatgct gcatccagtt tgcaaagtgg ggtcccatca      180
15 aggttcagcg gcagtggatc tgggacagaa ttactctca caatcagcag cctgcagcct      240
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20 gggaccaagg tggaaatcaa ac      322

    <210> 148
    <211> 107
25 <212> PRT
    <213> Artificial

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30
    <400> 148

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

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 15 cagtacccag ggaagggcct ggagtggatt gggtagatct attacagtgg gagcacctac 180
 tacaaccctg ccctcaagag tcgagttacc atatcagtag acacgtctaa gaaccagttc 240
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 30 <220>
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 35 Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Gln
 1 5 10 15
 40 Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Gly Ser Ile Ser Ser Gly
 20 25 30
 45 Asp Tyr Tyr Trp Ser Trp Ile Arg Gln Tyr Pro Gly Lys Gly Leu Glu
 35 40 45
 50 Trp Ile Gly Tyr Ile Tyr Tyr Ser Gly Ser Thr Tyr Tyr Asn Pro Ser
 50 55 60
 55 Leu Lys Ser Arg Val Thr Ile Ser Val Asp Thr Ser Lys Asn Gln Phe
 65 70 75 80
 60 Ser Leu Lys Leu Gly Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Phe
 85 90 95

Cys Ala Arg Ala Asp Tyr Asp Phe Trp Ser Gly Tyr Phe Asp Phe Trp
 100 105 110

5 Gly Gln Gly Thr Leu Val Thr Val Ser
 115 120

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 <212> ADN
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15 <220>
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 gggaaagccc ctaagcgctt gatctatgct gcatccagtt tgcaaagtgg ggtcccatca 180

25 aggttcagcg gcagtggatc tgggacagaa ttactctca caatcagcag cctgcagcct 240
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 <211> 107
 <212> PRT
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35 <220>
 <223> Anticuerpo

<400> 152

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 1 5 10 15

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

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

55 Tyr Ala Ala Ser Ser Leu Gln 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

Glu Asp Phe Ala Thr Tyr Tyr Cys Leu Gln His Asn Gly Tyr Pro Trp
 85 90 95

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

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 <211> 366
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25 tacaaccgct ccctcaagag tcgagttacc atatcagtag acacgtctaa gaaccagttc 240
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30 tcctca 366

35 <210> 154
 <211> 122
 <212> PRT
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40 <220>
 <223> Anticuerpo

 <400> 154

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

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

50 Asp Tyr Tyr Trp Ser Trp Ile Arg Gln His Pro Gly Lys Gly Leu Glu
 35 40 45

55 Trp Ile Gly Tyr Ile Tyr Tyr Ser Gly Ser Thr Tyr Tyr Asn Pro Ser
 50 55 60

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

5 Ser Leu Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr
 85 90 95

10 Cys Ala Arg Ala Asp Tyr Asp Phe Trp Ser Gly Tyr Phe Asp Ser Trp
 100 105 110

15 Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 155
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 20 <213> Artificial
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 30 gggaaagccc ctaagcgct gatctatgct gcatccagtt tgcaaagtgg ggtcccatca 180
 aggttcagcg gcagtggatc tgggacagaa ttactctca caatcagcag cctgcagcct 240
 35 gaagattttg caacttatta ctgtctacag cataatgggt acccgtggac gttcggccaa 300
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40 <210> 156
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 <212> PRT
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 <220>
 45 <223> Anticuerpo
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50 Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
 1 5 10 15

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

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

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

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

10 Glu Asp Phe Ala Thr Tyr Tyr Cys Leu Gln His Asn Gly Tyr Pro Trp
 85 90 95

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

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 <212> ADN
 20 <213> Artificial
 <220>
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 30 cctggacaag ggcttgagtg gatgggatgg atcagcgctt acgatggta cagaaactat 180
 gcacagaagc tccagggcag agtcaccatg accacagaca catccacgac cactgcctac 240
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 35 caagactacg gtgactacga ctactttgac tactggggcc agggaaccct ggtcaccgtc 360
 tcctca 366

40 <210> 158
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 45 <220>
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 <400> 158

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

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

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

5 Gly Trp Ile Ser Ala Tyr Asp Gly Tyr Arg Asn Tyr Ala Gln Lys Leu
 50 55 60

10 Gln Gly Arg Val Thr Met Thr Thr Asp Thr Ser Thr Thr Thr Ala Tyr
 65 70 75 80

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

20 Ala Arg Asp Val Gln Asp Tyr Gly Asp Tyr Asp Tyr Phe Asp Tyr Trp
 100 105 110

25 Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

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 40 agattcaggg gcagtggatc tgggacagat ttactctca ccatcagcag tctgcaacct 240
 gaagattttg caacttacta ctgtcaacag agttacagta ccccatcac cttcggccaa 300
 45 gggacacgac tggagattaa a 321

50 <210> 160
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55 <220>
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55 <400> 160
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<400> 164

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

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

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

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

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

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

<210> 165

35 <211> 369

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40 <223> Anticuerpo

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 50 ctgcaaatac acagcctgag agccgaggac acggccgtgt attactgtgc gagagagaga 300
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 55 gtctcttca 369

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<211> 123

<212> PRT
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 <400> 166

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 1 5 10 15

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 15 20 25 30

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

 20 Ser Tyr Ile Ser Ser Ser Gly Asn Asn Ile Tyr His Ala Asp Ser Val
 50 55 60

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

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

 Ala Arg Glu Arg Tyr Ser Gly Tyr Asp Asp Pro Asp Gly Phe Asp Ile
 35 100 105 110

 Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser
 115 120

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 gggaaagccc ctaagctcct gatccacgat gcatccaatt tggaacagg ggtcccttca 180
 55 aggttcagtg gaagtggatc tgggacagat ttacttttca ccatcagcag cctgcagcct 240

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5 <210> 168
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10 <220>
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15 Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
 1 5 10 15

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

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

30 His Asp Ala Ser Asn Leu Glu Thr Gly Val Pro Ser Arg Phe Ser Gly
 50 55 60

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

40 Glu Asp Ile Ala Thr Tyr Tyr Cys Gln Gln Tyr Asp Asn Pro Pro Cys
 85 90 95

45 Ser Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
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50 <210> 169
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 tcctca 366

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 1 5 10 15

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

25 Tyr Tyr Tyr Trp Ser Trp Ile Arg Gln His Pro Gly Lys Gly Leu Glu
 35 40 45

30 Trp Ile Gly Tyr Ile Tyr Tyr Ser Gly Thr Thr Tyr Tyr Asn Pro Ser
 50 55 60

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

40 Ser Leu Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr
 85 90 95

45 Cys Ala Arg Ala Asp Tyr Asp Phe Trp Ser Gly His Phe Asp Tyr Trp
 100 105 110

50 Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

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 <212> ADN
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10 <210> 172
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15 <220>
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 <400> 172

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

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

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

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

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

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

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

55 <210> 173
 <211> 365
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<220>
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 5 atggagctga ggagcctgag atctgacgac acggccgttt attactgtgc gagagacccc 300
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 tcctc 365
 10
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 <211> 121
 <212> PRT
 15 <213> Artificial
 <220>
 <223> Anticuerpo
 20 <400> 174
 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
 1 5 10 15
 25 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr
 20 25 30
 30 Gly Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
 35 40 45
 35 Gly Trp Ile Ser Ala Tyr Asp Gly His Thr Asn Tyr Ala Gln Lys Leu
 50 55 60
 Gln Gly Arg Val Thr Met Thr Thr Asp Thr Ser Thr Asn Thr Ala Tyr
 65 70 75 80
 40 Met Glu Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 45 Ala Arg Asp Pro His Asp Tyr Ser Asn Tyr Glu Ala Phe Asp Phe Trp
 100 105 110
 50 Gly Gln Gly Thr Leu Val Thr Val Ser
 115 120
 55 <210> 175
 <211> 519
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<223> Anticuerpo

<400> 175

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    atcacttgcc gggcaagtca gagcattagc agttatttaa attggtatca gcagaaacca      180
10 gggaaagccc ctaacctcct gatctatgct gcatccagtt tgcaaagtgg ggtcccatca      240
    agattcagtg gcagtggatc tgggacagat ttactctca ccatcagcag tctgcaacct      300
15 gaagattttg caacttacta ctgtcaacag agttacagta ccccatcac cttcggccaa      360
    gggacacgac tggagattaa acgaactgtg gctgcaccat ctgtcttcat cttcccgcca      420
      tctgatgagc agttgaaatc tggaactgcc tctgttgtgt gcctgctgaa taacttctat      480
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<211> 107

25 <212> PRT

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<220>

30 <223> Anticuerpo

<400> 176

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

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

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

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

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

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

55 Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys
   100           105

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<210> 177
 <211> 534
 <212> ADN
 <213> Artificial
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 <400> 177
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 caggttcagc tgggtgcagtc tggagctgag gtgaagaagc ctggggcctc agtgaaggtc 120
 15 tcctgcaagg cttctggtta cacctttacc aactatggta tcagctgggt gcggcaggcc 180
 cctggacaag ggcttgagtg gatgggatgg atcagcgctt acgatggtta cagaaactat 240
 gcacagaagc tccagggcag agtcaccatg accacagaca catccacgac cactgcctac 300
 20 atggagctga ggagcctgag atctgacgac acggccgtgt attactgtgc gagagatgtt 360
 caagactacg gtgactacga ctactttgac tactggggcc agggaaccct ggtcaccgtc 420
 25 tcctcagctt ccaccaaggg cccatccgtc ttccccctgg tgccctgctc caggagcacc 480
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 30 <211> 122
 <212> PRT
 <213> Artificial
 <220>
 35 <223> Anticuerpo
 <400> 178
 40 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
 1 5 10 15
 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asn Tyr
 20 25 30
 45 Gly Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
 35 40 45
 50 Gly Trp Ile Ser Ala Tyr Asp Gly Tyr Arg Asn Tyr Ala Gln Lys Leu
 50 55 60
 55 Gln Gly Arg Val Thr Met Thr Thr Asp Thr Ser Thr Thr Thr Ala Tyr
 65 70 75 80

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

5 Ala Arg Asp Val Gln Asp Tyr Gly Asp Tyr Asp Tyr Phe Asp Tyr Trp
100 105 110

10 Gly Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

15 <210> 179
<211> 504
<212> ADN
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20 <220>
<223> Anticuerpo

25 <400> 179
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agtcagagca ttagcagtta tttaaattgg tatcagcaga aaccagggaa agcccctaac 180
ctcctgatct atgctgcatac cagtttgcaa agtgggggtcc catcaagatt cagtggcagt 240
30 ggatctggga cagatttcac tctcaccatc agcagtctgc aacctgaaga ttttgcaact 300
tactactgtc aacagagtta cagtaccccc atcaccttcg gccaaaggac acgactggag 360
35 attaaacgaa ctgtggctgc accatctgtc ttcattcttc cgccatctga tgagcagttg 420
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gtacagtgga aggtggataa cgcc 504

40 <210> 180
<211> 107
<212> PRT
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45 <220>
<223> Anticuerpo

50 <400> 180
Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
1 5 10 15

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

	Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Asn Leu Leu Ile	
	35 40 45	
5	Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser Gly	
	50 55 60	
10	Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro	
	65 70 75 80	
15	Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Ser Thr Pro Ile	
	85 90 95	
20	Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys	
	100 105	
25	<210> 181	
	<211> 493	
	<212> ADN	
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30	<220>	
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	<400> 181	
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35	gtctctggtg gtcctcatcaa cagtggatgat tactactgga gctggatccg ccagcaccca 180	
	gggaagggcc tggagtggat tgggtacatc tattacagtg ggagcaccta ctacaaccg 240	
	tccctcaaga gtcgagttac catatcagta gacacgtcta agaaccagtt ctccctgaag 300	
40	ctgagctctg tgactgccgc ggacacggcc gtgtattact gtgcgagagc agattacgat 360	
	ttttggagtg gttactttga ctactggggc cagggaaacc tggtcaccgt ctctcagcc 420	
45	tccaccaagg gcccatcggc cttccccctg gcaccctcct ccaagagcac ctctgggggc 480	
	acaacggccc tgg 493	
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	<211> 122	
	<212> PRT	
	<213> Artificial	
55	<220>	
	<223> Anticuerpo	
	<400> 182	

	Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Gln	
	1 5 10 15	
5	Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Gly Ser Ile Asn Ser Gly	
	20 25 30	
10	Asp Tyr Tyr Trp Ser Trp Ile Arg Gln His Pro Gly Lys Gly Leu Glu	
	35 40 45	
15	Trp Ile Gly Tyr Ile Tyr Tyr Ser Gly Ser Thr Tyr Tyr Asn Pro Ser	
	50 55 60	
20	Leu Lys Ser Arg Val Thr Ile Ser Val Asp Thr Ser Lys Asn Gln Phe	
	65 70 75 80	
25	Ser Leu Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr	
	85 90 95	
30	Cys Ala Arg Ala Asp Tyr Asp Phe Trp Ser Gly Tyr Phe Asp Tyr Trp	
	100 105 110	
35	Gly Gln Gly Thr Leu Val Thr Val Ser Ser	
	115 120	
40	<210> 183 <211> 518 <212> ADN <213> Artificial	
45	<220> <223> Anticuerpo	
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	atcacttgcc gggcaagtca gggcattaga aatgathtag gctggatatca gcagaaacca	180
	gggaaaagccc ctaagcgct gatctatgct gcatccagtt tgcaaagtgg ggtcccatca	240
	aggttcagcg gcagtggatc tgggacagaa ttactctca caatcagcag cctgcagcct	300
	gaagattttg caacttatta ctgtctacag cataatagtt acccgtggac gttcggccaa	360
	gggaccaagg tggaaatcaa acgaactgtg gctgcaccat ctgtcttcat cttcccgcca	420
	tctgatgagc agttgaaatc tggaactgcc tctgttgtgt gcctgctgaa taacttctat	480
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 <211> 107
 <212> PRT
 <213> Artificial
 5
 <220>
 <223> Anticuerpo
 <400> 184
 10 Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
 1 5 10 15
 15 Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Gly Ile Arg Asn Asp
 20 25 30
 20 Leu Gly Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Arg Leu Ile
 35 40 45
 25 Tyr Ala Ala Ser Ser Leu Gln 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
 30 Glu Asp Phe Ala Thr Tyr Tyr Cys Leu Gln His Asn Ser Tyr Pro Trp
 85 90 95
 35 Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105
 40 <210> 185
 <211> 436
 <212> ADN
 <213> Artificial
 45 <220>
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 <400> 185
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 ggtggctcca tcagcagtgg tggttactac tggagctgga tccgccagca cccagggag 180
 55 ggcctggagt ggattgggta catctattac agtgggagca cctactacaa cccgtccctc 240
 aagagtcgag ttaccatata agtagacacg tctaagaacc agttctccct gaagctgagc 300
 tctgtgactg ccgcggacac ggccgtgtat tactgtgcga gagatggcta tgatagtagt 360

gggttattacc acggctactt tgactactgg ggccaggggaa ccctgggtcac cgtctcctca 420
 gcctccacca agggcc 436
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 <210> 186
 <211> 125
 <212> PRT
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 10
 <220>
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 Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Gln
 1 5 10 15
 20 Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Gly Ser Ile Ser Ser Gly
 20 25 30
 25 Gly Tyr Tyr Trp Ser Trp Ile Arg Gln His Pro Gly Lys Gly Leu Glu
 35 40 45
 Trp Ile Gly Tyr Ile Tyr Tyr Ser Gly Ser Thr Tyr Tyr Asn Pro Ser
 50 55 60
 30
 Leu Lys Ser Arg Val Thr Ile Ser Val Asp Thr Ser Lys Asn Gln Phe
 65 70 75 80
 35
 Ser Leu Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr
 85 90 95
 40 Cys Ala Arg Asp Gly Tyr Asp Ser Ser Gly Tyr Tyr His Gly Tyr Phe
 100 105 110
 45 Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120 125
 50
 <210> 187
 <211> 521
 <212> ADN
 <213> Artificial
 <220>
 <223> Anticuerpo
 55
 <400> 187
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 cagtctccag actccctggc tgtgtctctg ggcgagaggg ccaccatcaa ctgcaagtcc 120

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agccagagtg ttttatacag ctccaacaat aagaactact tagcttggtta ccagcagaaa      180
ccaggacagc ctcctaagct gctcatttac tgggcatcta cccgggaatc cggggtcctt      240
5  gaccgattca gtggcagcgg gtctgggaca gatttcactc tcaccatcag cagcctgcag      300
gctgaagatg tggcagttta ttactgtcag caatattata gtactccgct cactttcggc      360
ggagggacca aggtggagat caaacgaact gtggctgcac catctgtctt catcttcccg      420
10 ccatctgatg agcagttgaa atctggaact gcctctgttg tgtgcctgct gaataacttc      480
tatcccagag aggccaaagt acagtggaag gtggataacg c                          521

15  <210> 188
    <211> 113
    <212> PRT
    <213> Artificial
20  <220>
    <223> Anticuerpo
25  <400> 188
    Asp Ile Val Met Thr Gln Ser Pro Asp Ser Leu Ala Val Ser Leu Gly
    1          5          10          15
30  Glu Arg Ala Thr Ile Asn Cys Lys Ser Ser Gln Ser Val Leu Tyr Ser
    20          25          30
35  Ser Asn Asn Lys Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln
    35          40          45
40  Pro Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Val
    50          55          60
45  Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr
    65          70          75          80
50  Ile Ser Ser Leu Gln Ala Glu Asp Val Ala Val Tyr Tyr Cys Gln Gln
    85          90          95
55  Tyr Tyr Ser Thr Pro Leu Thr Phe Gly Gly Gly Thr Lys Val Glu Ile
    100          105          110
    Lys
55  <210> 189
    <211> 455

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<212> ADN
 <213> Artificial

5 <220>
 <223> Anticuerpo

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 tctggtggct ccatcagtag tgggtgattac tactggagct ggatccgcca gcaccaggg 180
 15 aagggcctgg agtggattgg gtacatctat tacagtggga gcacctacta caaccgtcc 240
 ctcaagagtc gagttaccat atcagtagac acgtctaaga accagttctc cctgaagttg 300
 agctctgtga ctgccgcgga cacggccgtg tattactgtg cgagagccga ttacgatttt 360
 20 tggagtggtt attttgacta ctggggccag ggaaccctgg tcaccgtctc ctcagcctcc 420
 accaagggcc catcgggtctt cccctggca ccctc 455

25 <210> 190
 <211> 122
 <212> PRT
 <213> Artificial

30 <220>
 <223> Anticuerpo

<400> 190

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

40 Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Gly Ser Ile Ser Ser Gly
 20 25 30

45 Asp Tyr Tyr Trp Ser Trp Ile Arg Gln His Pro Gly Lys Gly Leu Glu
 35 40 45

50 Trp Ile Gly Tyr Ile Tyr Tyr Ser Gly Ser Thr Tyr Tyr Asn Pro Ser
 50 55 60

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

55 Ser Leu Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr
 85 90 95

Cys Ala Arg Ala Asp Tyr Asp Phe Trp Ser Gly Tyr Phe Asp Tyr Trp
 100 105 110

5 Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

10 <210> 191
 <211> 442
 <212> ADN
 <213> Artificial

15 <220>
 <223> Anticuerpo

 <400> 191
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20 cagatgaccc agtctccatc ctccctgtct gcatctgtag gagacagagt caccatcact 120
 tgccgggcaa gtcagggcat tagaaatgat ttaggctggt atcagcagaa accagggaaa 180

25 gcccctaagc gcctgatcta tgctgcatcc agtttgcaaa gtgggggtccc atcaagggttc 240
 agcggcagtg gatctgggac agaattcact ctcaaatca gcagcctgca gcctgaagat 300
 tttgcaactt attactgtct acagcataat aattaccgtt ggacgttcgg ccaagggacc 360

30 aaggtggaaa tcaaacgaac tgtggctgca ccatctgtct tcattctccc gccatctgat 420
 gagcagttga aatctggaac tg 442

35 <210> 192
 <211> 107
 <212> PRT
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40 <220>
 <223> Anticuerpo

 <400> 192

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

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

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

Tyr Ala Ala Ser Ser Leu Gln 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

5 Glu Asp Phe Ala Thr Tyr Tyr Cys Leu Gln His Asn Asn Tyr Pro Trp
 85 90 95

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

15 <210> 193
 <211> 427
 <212> ADN
 <213> Artificial

20 <220>
 <223> Anticuerpo

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 ggtggctcca tcagcagtgg tgattactac tggagctgga tccgccagca cccaggggaag 180
 ggcctggagt ggattgggta catctattac agtgggagca cctactacaa cccgtccctc 240
 30 aagagtcgag ttaccatata agtagacacg tctaagaacc agttctccct gaagctgagc 300
 tctgtgactg ccgcggacac ggccgtgtat ttctgtgcga gagccgatta cgatttttgg 360
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 35 aagggcc 427

40 <210> 194
 <211> 122
 <212> PRT
 <213> Artificial

45 <220>
 <223> Anticuerpo

<400> 194

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

55 Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Gly Ser Ile Ser Ser Gly
 20 25 30

Asp Tyr Tyr Trp Ser Trp Ile Arg Gln His Pro Gly Lys Gly Leu Glu
 35 40 45

[illegible]

[illegible]

<220>

<223> Anticuerpo

<400> 198

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

10

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

15

Asp Tyr Tyr Trp Ser Trp Ile Arg Gln His Pro Gly Lys Gly Leu Glu
35 40 45

20

Trp Ile Gly Tyr Ile Tyr Tyr Ser Gly Ser Thr Tyr Tyr Asn Pro Ser
50 55 60

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

25

Ser Leu Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Phe
85 90 95

30

Cys Ala Arg Ala Asp Tyr Asp Phe Trp Asn Gly Tyr Phe Asp Tyr Trp
100 105 110

35

Gly Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 199

<211> 519

40

<212> ADN

<213> Artificial

<220>

<223> Anticuerpo

45

<400> 199

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atcacttgcc gggcaagtca gggcattaga aatgatttag gctggtatca gcagaaacca 180

gggaaagccc ctaagcgct gatctatgct gcttccagtt tgcaaagtgg ggtcccatca 240

55

aggttcagcg gcagtggatc tgggacagaa ttactctca caatcagcag cctgcagcct 300

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gggaccaagg tggaaatcaa acgaactgtg gctgcacat ctgtcttcat cttcccgcca 420

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 <210> 200
 <211> 107
 <212> PRT
 <213> Artificial

10
 <220>
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15
 <400> 200

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

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

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

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

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

35 Glu Asp Phe Ala Thr Tyr Tyr Cys Leu Gln His Asn Thr Tyr Pro Trp
 85 90 95

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

45
 <210> 201
 <211> 398
 <212> ADN
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50
 <220>
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<400> 201

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55 gtgaagaagc ctggggcctc agtgaagggtc tcctgcaagg tttccggata caccctcact 120

gaattatcca tgtactgggt gcgacagggt cctggaaaag ggcttgagtg gatgggaggt 180

tttgatcctg aagatgggtga aacaatctac gcacagaagt tccagggcag agtcaccatg 240

accgaggaca catctacaga cacagcctac atggagctga gcagcctgag atctgaggac 300
acggccgtgt attactgtgc aactgggtgg aactacgtct ttgactactg gggccaggga 360
5 accctgggtca cgtctcctc agcctccacc aagggccc 398

<210> 202
<211> 117
10 <212> PRT
<213> Artificial

<220>
15 <223> Anticuerpo
<400> 202

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

50 <210> 203
<211> 388
<212> ADN
<213> Artificial

55 <220>
<223> Anticuerpo
<400> 203
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 tatttggatt ggtacctgca gaagccaggg cagtctccac agctcctgat ctatttggat 180
 5 tctcatcggg cctccggggg ccctgacagg ttcagtggca gtggatcagg cacagatttt 240
 aactgaaaa tcagcagagt ggaggctgag gatgttgggg tttattactg catgcaagct 300
 ctacaaactc cgctcacttt cggcggaggg accaaggtgg agatcaaacg aactgtggct 360
 10 gcaccatctg tcttcatctt cccgccat 388

<210> 204
 15 <211> 112
 <212> PRT
 <213> Artificial

<220>
 20 <223> Anticuerpo
 <400> 204

25 Asp Ile Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro Gly
 1 5 10 15

Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu His Ser
 20 25 30

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

35 Pro Gln Leu Leu Ile Tyr Leu Asp Ser His Arg Ala Ser Gly Val Pro
 50 55 60

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

45 Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln Ala
 85 90 95

50 Leu Gln Thr Pro Leu Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
 100 105 110

<210> 205
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 ggtggctcca tcagcagtgg tgattactac tggagctgga tccgccagca cccaggaag 180
 ggcctggagt ggattgggta catctattac agtgggagca cctactacaa cccgtccctc 240
 10 aagagtcgag ttaccatata agtagacacg tctaagaacc agttctccct gaagctgagc 300
 tctgtgactg ccgcggacac ggccgtgtat ttctgtgcga gagccgatta cgatttttgg 360
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 20 <211> 122
 <212> PRT
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<220>
 25 <223> Anticuerpo

<400> 206
 30 Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Gln
 1 5 10 15
 Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Gly Ser Ile Ser Ser Gly
 35 20 25 30
 Asp Tyr Tyr Trp Ser Trp Ile Arg Gln His Pro Gly Lys Gly Leu Glu
 40 35 40 45
 Trp Ile Gly Tyr Ile Tyr Tyr Ser Gly Ser Thr Tyr Tyr Asn Pro Ser
 50 55 60
 45 Leu Lys Ser Arg Val Thr Ile Ser Val Asp Thr Ser Lys Asn Gln Phe
 65 70 75 80
 Ser Leu Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Phe
 50 85 90 95
 Cys Ala Arg Ala Asp Tyr Asp Phe Trp Ser Gly Tyr Phe Asp Tyr Trp
 55 100 105 110
 Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

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 <211> 519
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 15 atcacttgcc gggcaagtca gggcattaga aatgatttag gctgggtatca gcagaaacca 180
 gggaaagccc ctaagcgcct gatctatgct gcatccagtt tgcaaagtgg ggtcccatca 240
 aggttcagcg gcagtggatc tgggacaaaa ttcactctca ctatcagcag cctgcagcct 300
 20 gaagattttg caacttatta ctgtctacag cataatactt acccgtggac gttcggccaa 360
 gggaccaagg tggaaatcag acgaactgtg gctgcaccat ctgtcttcat cttcccgcca 420
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 35 <223> Anticuerpo
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 40 Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
 1 5 10 15
 Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Gly Ile Arg Asn Asp
 45 20 25 30
 Leu Gly Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Arg Leu Ile
 35 40 45
 50 Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser Gly
 50 55 60
 55 Ser Gly Ser Gly Thr Lys Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
 65 70 75 80

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

5 Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Arg
 100 105

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 <212> ADN
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15 <220>
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 acctgcactg tctctggtgg ctccatcagc agtgggtgatt actactggag ctggatccgc 180

25 cagcaccacag ggaagggcct ggagtggatt gggtagatct attacagtgg gagcacctac 240
 tacaaccctg ccctcaagag tcgagttacc atatcagtag acacgtctaa gaaccagttc 300
 tccctgaagc tgagctctgt gactgccgcg gacacggccg tgtattactg tgcgagagcg 360

30 gattacgatt tttggagtgg ttattttgac tactggggcc agggaaatcct ggtcaccgtc 420
 tcctcagcct ccaccaaggg cccatcggtc ttccccctgg caccctcctc caagaacacc 480

35 tctgggggca cagcggccct gggctgcctg gtcaaggact acttccccga accggtgacg 540
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40 <210> 210
 <211> 122
 <212> PRT
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45 <220>
 <223> Anticuerpo

 <400> 210

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

55 Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Gly Ser Ile Ser Ser Gly
 20 25 30

Asp Tyr Tyr Trp Ser Trp Ile Arg Gln His Pro Gly Lys Gly Leu Glu
 35 40 45

[illegible]

[illegible]

<220>
 <223> Anticuerpo

 <400> 214
 5 Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Gln
 1 5 10 15
 10 Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Gly Ser Ile Ser Ser Gly
 20 25 30
 15 Asp Tyr Tyr Trp Ser Trp Ile Arg Gln His Pro Gly Lys Gly Leu Glu
 35 40 45
 20 Trp Ile Gly Tyr Ile Tyr Tyr Ser Gly Ser Thr Tyr Tyr Asn Ser Ser
 50 55 60
 Leu Lys Ser Arg Val Thr Ile Ser Val Asp Thr Ser Lys Asn Gln Phe
 65 70 75 80
 25 Ser Leu Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr
 85 90 95
 30 Cys Ala Arg Ala Asp Tyr Asp Phe Trp Ser Gly Tyr Phe Asp Tyr Trp
 100 105 110
 35 Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

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 <211> 372
 40 <212> ADN
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 <220>
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 45 <400> 215
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 50 cagcagaaac ctgggaaagc ccctaagcgc ctgatctatg ctgcatccag tttgcaaagt 180
 ggggtcccat caaggttcag cggcagtgga tctgggacag aattcactct cacaatcagc 240
 55 agcctgcagc ctgaagattt tgcaacttat tactgtctac agcacaatag ttaccctggtg 300
 acgttcggcc aagggaacaa ggtggaaatc aaacgaactg tggctgcacc atctgtcttc 360
 atcttcccgc ca 372

<210> 216
 <211> 107
 <212> PRT
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 <220>
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 <400> 216
 10 Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
 1 5 10 15
 15 Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Gly Ile Arg Asn Asp
 20 25 30
 20 Leu Gly Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Arg Leu Ile
 35 40 45
 25 Tyr Ala Ala Ser Ser Leu Gln 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
 30 Glu Asp Phe Ala Thr Tyr Tyr Cys Leu Gln His Asn Ser Tyr Pro Trp
 85 90 95
 35 Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105
 40 <210> 217
 <211> 548
 <212> ADN
 <213> Artificial
 45 <220>
 <223> Anticuerpo
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 55 ggcctggagt ggattggata catctattac agtgggagca cctactacaa cccgtccctc 240
 aagagtcgag ttaccatata agtagacacg tctaagaacc agttctccct gaagctgagc 300
 tctgtgactg ccgcggacac ggccgtgtat tactgtgcga gagccgatta cgatttttgg 360

agtgggttatt ttgactactg gggccaggga accctgggtca ccgtctcctc agcctccacc 420
 aagggcccat cggtcttccc cctggcaccc tcctccaaga gcacctctgg gggcacagcg 480
 5 gccctgggct gcctgggtcaa ggactacttc cccgaaccgg tgacgggtgtc gtggaactca 540
 ggcgccct 548

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 <211> 122
 <212> PRT
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15 <220>
 <223> Anticuerpo
 <400> 218

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

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

30 Asp Tyr Tyr Trp Ser Trp Ile Arg Gln His Pro Gly Lys Gly Leu Glu
 35 40 45

35 Trp Ile Gly Tyr Ile Tyr Tyr Ser Gly Ser Thr Tyr Tyr Asn Pro Ser
 50 55 60

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

45 Ser Leu Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr
 85 90 95

50 Cys Ala Arg Ala Asp Tyr Asp Phe Trp Ser Gly Tyr Phe Asp Tyr Trp
 100 105 110

55 Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 219
 <211> 517
 <212> ADN
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<220>
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5 atcacttgcc gggcaagtca gggcattaga aatgatttag gctggtatca gcagaaacca      180
gggaaagccc ctaagcgctt gatctatgct gcatccagtt tgcaaagtgg ggtcccatca      240
10 aggttcagcg gcagtggatc tgggacagaa ttcactctca caatcagcag cctgcagcct      300
gaagattttg caacttatta ctgtctacag cataatagtt acccgtggac gttcggccaa      360
15 gggaccaagg tggaatcaa acgaactgtg gctgcaccat ctgtcttcat cttcccgcca      420
tctgatgagc agttgaaatc tggaactgcc tctgttgtgt gcctgctgaa taacttctat      480
cccagagagg ccaaagtaca gtggaaggtg gataacg      517

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<210> 220
<211> 107
<212> PRT
25 <213> Artificial
<220>
<223> Anticuerpo

30 <400> 220
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1 5 10 15

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

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

45 Tyr Ala Ala Ser Ser Leu Gln 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

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

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

<210> 221

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<211> 446
<212> ADN
<213> Artificial

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   tctggtggct ccatcagcag tggtgattac tactggagct ggatccgcca gcacccaggg      180
15 aagggcctgg agtggattgg gtacatctat tacagtggga gcacctacta caaccgtcc      240
   ctcaagagtc gagttacat gtcagtagac acgtctaaga accagttctc cctgaagctg      300
   agctctgtga ctgccgcgga cacggccgtg tattactgtg cgagagccga ttacgatttt      360
20 tggagtggtc actttgactg ctggggccag ggaaccctgg tcaccgtctc ctcagcttcc      420
   accaagggcc ccatccgtct tcccc      446

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  <210> 222
  <211> 122
  <212> PRT
  <213> Artificial
30
  <220>
  <223> Anticuerpo

  <400> 222
35 Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Gln
   1          5          10          15

40 Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Gly Ser Ile Ser Ser Gly
   20          25          30

45 Asp Tyr Tyr Trp Ser Trp Ile Arg Gln His Pro Gly Lys Gly Leu Glu
   35          40          45

   Trp Ile Gly Tyr Ile Tyr Tyr Ser Gly Ser Thr Tyr Tyr Asn Pro Ser
   50          55          60

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

55 Ser Leu Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr
   85          90          95

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Cys Ala Arg Ala Asp Tyr Asp Phe Trp Ser Gly His Phe Asp Cys Trp
 100 105 110

5 Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

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 <211> 419
 <212> ADN
 <213> Artificial

15 <220>
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<400> 223
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20 gacatccaga tgaccagtc tccatcctcc ctgtctgcat ctgtaggaga cagagtcacc 120
 atcatttgcc gggcaagtca gggcattaga gatgatttag gctggtatca gcagaaacca 180

25 gggaaagccc ctaagcgctt gatctatgct gaatccagtt tgcaaagtgg ggtcccatca 240
 aggttcagcg gcagtggatc tgggacagaa ttcactctca caatcagcag cctgcagcct 300
 gaagattttg caacttatta ctgtctacag catcatagtt acccgtggac gttcggccaa 360

30 gggaccaagg tggaaatcaa acgaactgtg gctgcaccat ctgtcttcat cttcccgcc 419

35 <210> 224
 <211> 107
 <212> PRT
 <213> Artificial

40 <220>
 <223> Anticuerpo

<400> 224

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

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

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

55 Tyr Ala Glu Ser Ser Leu Gln 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

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

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

15 <210> 225
 <211> 504
 <212> ADN
 <213> Artificial

20 <220>
 <223> Anticuerpo

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 gtggagtctg ggggaggcgt ggtccagcct gggagggtccc tgagactctc ctgtgcagcg 120
 tctggattca ctttcaatag ctatgacatg cactgggtcc gccagggtcc aggcaagggg 180
 ctggagtggtg tggcagttat atggtatgat ggaagtaata aatactatgc agactccgtg 240
 30 aaggggccgat tcaccatctc tagagacaat tccaagaaca cgctgtatct gcaaatgaac 300
 agcctgagag ccgaggacac ggctgtgtat tactgtgcga gagaccgctt gtgtactaat 360
 35 ggtgtatgct atgaagacta cggtatggac gtctggggcc aaggggaccac ggtcaccgctc 420
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40 <210> 226
 <211> 126
 <212> PRT
 <213> Artificial

45 <220>
 <223> Anticuerpo

50 <400> 226

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

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

[illegible]

<400> 228

5 Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
 1 5 10 15
 Asp Arg Val Thr Ile Thr Cys Gln Ala Ser Gln Asp Ile Ser Asn Tyr
 20 25 30
 10 Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Val Leu Ile
 35 40 45
 15 Tyr Asp Ala Ser Asn Leu Glu Thr Gly Val Pro Ser Arg Phe Ser Gly
 50 55 60
 20 Ser Gly Ser Gly Thr Asp Phe Thr Phe Thr Ile Ser Ser Leu Gln Pro
 65 70 75 80
 25 Glu Asp Val Ala Thr Tyr Tyr Cys Gln His Tyr Asp Thr Leu Pro Leu
 85 90 95
 Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
 100 105
 30
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 <211> 472
 <212> ADN
 <213> Artificial
 35
 <220>
 <223> Anticuerpo
 <400> 229
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 45 accctgtccc tcacctgcac tgtctctggt ggctccatca gcagtgggtga ttactactgg 180
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 50 aagaaccagt tcgccctgaa gctgaactct gtgactgccg cggacacggc cgtgtattac 360
 tgtgcgagag ccgattacga tttttggagt ggttattttg actactgggg ccaggggaacc 420
 55 ctggtcaccg tctctcagc ttccaccaag ggcccatccg tcttcccct gg 472
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 <211> 122
 <212> PRT

<213> Artificial
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 5 <400> 230
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 10 1 5 10 15
 Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Gly Ser Ile Ser Ser Gly
 15 20 25 30
 Asp Tyr Tyr Trp Ser Trp Ile Arg Gln His Pro Gly Lys Gly Leu Glu
 35 40 45
 20 Trp Ile Gly Tyr Ile Tyr Tyr Ser Gly Thr Thr Tyr Tyr Asn Pro Ser
 50 55 60
 25 Leu Lys Ser Arg Val Thr Ile Ser Val Asp Thr Ser Lys Asn Gln Phe
 65 70 75 80
 Ala Leu Lys Leu Asn Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr
 30 85 90 95
 Cys Ala Arg Ala Asp Tyr Asp Phe Trp Ser Gly Tyr Phe Asp Tyr Trp
 100 105 110
 35 Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120
 40 <210> 231
 <211> 531
 <212> ADN
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 45 <220>
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 <400> 231
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 55 gggaaagccc ctcagcgcct gatctatgct gcatccagtt tgcaaagtgg ggtcccatca 240
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 10 <212> PRT
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<220>
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 15 <400> 232

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

45 <210> 233
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50 <220>
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55 <220>
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5 <210> 234
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 <212> PRT
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25 <220>
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30 <400> 235
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 1 5 10

35 <210> 236
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 <212> PRT
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40 <220>
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45 Tyr Ile Tyr Tyr Ser Gly Ser Thr Tyr Tyr Asn Pro Ser Leu Lys Ser
 1 5 10 15

50 <210> 237
 <211> 12
 <212> PRT
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55 <220>
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 <400> 237

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

5 <210> 238
 <211> 11
 <212> PRT
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10 <220>
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 <400> 238

15 Arg Ala Ser Gln Gly Ile Arg Asn Asp Leu Gly
 1 5 10

20 <210> 239
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 <212> PRT
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25 <220>
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 <400> 239

30 Ala Ala Ser Ser Leu Gln Ser
 1 5

35 <210> 240
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 <212> PRT
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40 <220>
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 <400> 240

45 Leu Gln His Asn Ser Tyr Pro Trp Thr
 1 5

50 <210> 241
 <211> 12
 <212> PRT
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<220>
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55 <400> 241

Gly Gly Ser Ile Ser Ser Gly Asp Tyr Tyr Trp Ser
 1 5 10

5 <210> 242
 <211> 16
 <212> PRT
 <213> Artificial
 <220>
 <223> U 1 - 2-CDR-2h
 <400> 242
 10 Tyr Ile Tyr Tyr Ser Gly Ser Thr Tyr Tyr Asn Pro Ser Leu Arg Ser
 1 5 10 15
 15 <210> 243
 <211> 12
 <212> PRT
 <213> Artificial
 20 <220>
 <223> U 1 - 2-CDR-3h
 <400> 243
 25 Ala Asp Tyr Asp Phe Trp Ser Gly Tyr Phe Asp Tyr
 1 5 10
 30 <210> 244
 <211> 11
 <212> PRT
 <213> Artificial
 35 <220>
 <223> U 1 - 2-CDR-1l
 <400> 244
 40 Arg Ala Ser Gln Gly Ile Arg Asn Asp Leu Gly
 1 5 10
 45 <210> 245
 <211> 7
 <212> PRT
 <213> Artificial
 50 <220>
 <223> U 1 - 2-CDR-2l
 <400> 245
 55 Ala Ala Ser Ser Leu Gln Ser
 1 5
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 <211> 9
 <212> PRT

<213> Artificial
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 5 <400> 246
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 1 5
 10
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 15 <213> Artificial
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 20 <400> 247
 Gly Gly Ser Ile Ser Ser Gly Gly Tyr Tyr Trp Ser
 1 5 10
 25
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 <211> 16
 <212> PRT
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 30
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 <400> 248
 35 Tyr Ile Tyr Tyr Ser Gly Ser Thr Tyr Tyr Asn Pro Ser Leu Lys Ser
 1 5 10 15
 40 <210> 249
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 <212> PRT
 <213> Artificial
 45 <220>
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 <400> 249
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 1 5 10 15
 55 <210> 250
 <211> 17
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<223> U 1 - 3-CDR-1l

<400> 250

5 Lys Ser Ser Gln Ser Val Leu Tyr Ser Ser Asn Asn Lys Asn Tyr Leu
1 5 10 15

Ala

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20 Thr Leu Ser Leu Thr Cys Ala Val Tyr Gly Gly Ser Phe Ser Gly Tyr
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25 Tyr Trp Ser Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu Glu Trp Ile
 35 40 45

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

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

35 Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr Cys Ala
 85 90 95

40 Arg Asp Lys Trp Thr Trp Tyr Phe Asp Leu Trp Gly Arg Gly Thr Leu
 100 105 110

45 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

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

55 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			
5	Leu	Gly	Thr	Gln	Thr	Tyr	Ile	Cys	Asn	Val	Asn	His	Lys	Pro	Ser	Asn	
			195					200					205				
10	Thr	Lys	Val	Asp	Lys	Arg	Val	Glu	Pro	Lys	Ser	Cys	Asp	Lys	Thr	His	
		210					215					220					
15	Thr	Cys	Pro	Pro	Cys	Pro	Ala	Pro	Glu	Leu	Leu	Gly	Gly	Pro	Ser	Val	
	225					230					235					240	
20	Phe	Leu	Phe	Pro	Pro	Lys	Pro	Lys	Asp	Thr	Leu	Met	Ile	Ser	Arg	Thr	
					245					250					255		
25	Pro	Glu	Val	Thr	Cys	Val	Val	Val	Asp	Val	Ser	His	Glu	Asp	Pro	Glu	
				260					265					270			
30	Val	Lys	Phe	Asn	Trp	Tyr	Val	Asp	Gly	Val	Glu	Val	His	Asn	Ala	Lys	
			275					280					285				
35	Thr	Lys	Pro	Arg	Glu	Glu	Gln	Tyr	Asn	Ser	Thr	Tyr	Arg	Val	Val	Ser	
		290					295					300					
40	Val	Leu	Thr	Val	Leu	His	Gln	Asp	Trp	Leu	Asn	Gly	Lys	Glu	Tyr	Lys	
	305					310					315					320	
45	Cys	Lys	Val	Ser	Asn	Lys	Ala	Leu	Pro	Ala	Pro	Ile	Glu	Lys	Thr	Ile	
					325					330					335		
50	Ser	Lys	Ala	Lys	Gly	Gln	Pro	Arg	Glu	Pro	Gln	Val	Tyr	Thr	Leu	Pro	
				340					345					350			
55	Pro	Ser	Arg	Glu	Glu	Met	Thr	Lys	Asn	Gln	Val	Ser	Leu	Thr	Cys	Leu	
			355					360					365				
60	Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp	Ile	Ala	Val	Glu	Trp	Glu	Ser	Asn	
	370						375					380					
65	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys	Thr	Thr	Pro	Pro	Val	Leu	Asp	Ser	
	385					390					395				400		
70	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

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

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15 <220>
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25 Glu Arg Ala Thr Ile Asn Cys Arg Ser Ser Gln Ser Val Leu Tyr Ser
 20 25 30

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

35 Pro Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Val
 50 55 60

40 Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr
 65 70 75 80

45 Ile Ser Ser Leu Gln Ala Glu Asp Val Ala Val Tyr Tyr Cys Gln Gln
 85 90 95

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

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

60 Glu Gln Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn
 130 135 140

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

	Gln	Ser	Gly	Asn	Ser	Gln	Glu	Ser	Val	Thr	Glu	Gln	Asp	Ser	Lys	Asp
					165					170					175	
5	Ser	Thr	Tyr	Ser	Leu	Ser	Ser	Thr	Leu	Thr	Leu	Ser	Lys	Ala	Asp	Tyr
				180					185					190		
10	Glu	Lys	His	Lys	Val	Tyr	Ala	Cys	Glu	Val	Thr	His	Gln	Gly	Leu	Ser
			195					200					205			
15	Ser	Pro	Val	Thr	Lys	Ser	Phe	Asn	Arg	Gly	Glu	Cys				
		210					215					220				