

LISTADO DE SECUENCIAS

<110> DAIICHI SANKYO COMPANY, LIMITED

<120> ANTICUERPO ANTI-GPRC5D Y MOLÉCULA QUE COMPRENDE EL ANTICUERPO

<130> FP-1804

<150> JP2017/020220

<151> 2017-02-07

<160> 255

<170> PatentIn version 3.5

<210> SEQ ID NO: 1

<211> 27

<212> PRT

<213> *Homo sapiens*

<220>

<221> misc_feature

<222> (27)..(27)

<223> (27) Xaa es ácido glutámico biotinilado

<400> 1

Met	Tyr	Lys	Asp	Cys	Ile	Glu	Ser	Thr	Gly	Asp	Tyr	Phe	Leu	Leu	Cys
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Asp	Ala	Glu	Gly	Pro	Trp	Gly	Ile	Ile	Leu	Xaa
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<210> SEQ ID NO: 2

<211> 28

<212> PRT

<213> *Homo sapiens*

<220>

<221> misc_feature

<222> (28)..(28)

<223> (28) Xaa es lisina biotinilada

<400> 2

Met Tyr Lys Asp Cys Ile Glu Ser Thr Gly Asp Tyr Phe Leu Leu Cys
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Asp Ala Glu Gly Pro Trp Gly Ile Ile Leu Glu Xaa
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<210> SEQ ID NO: 3
 <211> 29
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 <213> Secuencia artificial

<220>
 <223> cebador para amplificar ADNc que codifica 2A4 VH por PCR

<400> 3
 ctccagagtt ccaggtcacg gtgactggc 29

<210> SEQ ID NO: 4
 <211> 366
 <212> ADN
 <213> *Rattus norvegicus*

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 tcctgcaagg cttctggcta taccttcacc agctactata ttactgggt aaagcagagg 120
 cctggacagg gccttgagtg gatcgatat gttatcctg gatatggtgg tacttactac 180
 agtgataagt tcaagggcaa agccacattt actgcagaca catcctccag cacagcctac 240
 atgctactgg gcagcctgac acctgaggac tctgctact atttctgtgc aagacggaag 300
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 tcctca 366

<210> SEQ ID NO: 5
 <211> 122
 <212> PRT
 <213> *Rattus norvegicus*

<400> 5

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

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

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

Gly Tyr Val Tyr Pro Gly Tyr Gly Gly Thr Tyr Tyr Ser Asp Lys Phe
 50 55 60

Lys Gly Lys Ala Thr Phe Thr Ala Asp Thr Ser Ser Ser Thr Ala Tyr
 65 70 75 80

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

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

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

<210> SEQ ID NO: 6

<211> 369

<212> ADN

<213> *Rattus norvegicus*

<400> 6

cagggttactc tgaaagagtc tggccctggg atattgcagc cctcccagac cctcagtctg 60

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cagccttcag ggaaggggtct ggagtggctg gcaaacattt ggtgggatga tgataagtac 180

tacaatccat ctctgagaaa ccgggtcaca atctccaagg acacctccaa caaccaagca 240

ttcctcaaga tcaccaatgt ggacactgca gatactgcca catactactg tgctcggatc 300

gaaactgtcc gggtttcccg taaggggttt gctcactggg gccaaaggcac tctggtcact 360

gtctctttca

369

<210> SEQ ID NO: 7
 <211> 123
 <212> PRT
 <213> *Rattus norvegicus*

 <400> 7

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

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

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

Trp Leu Ala Asn Ile Trp Trp Asp Asp Asp Lys Tyr Tyr Asn Pro Ser
 50 55 60

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

Phe Leu Lys Ile Thr Asn Val Asp Thr Ala Asp Thr Ala Thr Tyr Tyr
 85 90 95

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

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

<210> SEQ ID NO: 8
 <211> 369
 <212> ADN
 <213> *Rattus norvegicus*

<400> 8
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60

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acctgttctg tcactgggta caccattacc agtgggttatg attggagctg gatccggaag      120
ttcccaggaa ataaaatgga gtggatggca tacatgagct atagaggtag cactaactac      180
aaccctctgc tcaaaagtcg aatctccatt acaagagaca catccaagaa tcagttcttc      240
ctgcagttga attctgtcac tactgaggat acagccacat attactgtgc cctaacaagg      300
acctattggg ataactatta ctatgttttg gatgcctggg gtcaaggagc ttcagtcact      360
gtctcctca                                                                    369

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<210>  SEQ ID NO: 9
<211>  123
<212>  PRT
<213>  Rattus norvegicus

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<400>  9

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

```

```

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

```

```

Tyr Asp Trp Ser Trp Ile Arg Lys Phe Pro Gly Asn Lys Met Glu Trp
      35              40              45

```

```

Met Ala Tyr Met Ser Tyr Arg Gly Ser Thr Asn Tyr Asn Pro Ser Leu
      50              55              60

```

```

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

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

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```

Ala Leu Thr Arg Thr Tyr Trp Tyr Asn Tyr Tyr Tyr Val Leu Asp Ala
      100              105              110

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

<210> SEQ ID NO: 10

<211> 28

<212> ADN

<213> Secuencia artificial

<220>

<223> cebador para amplificar ADNc de 2A4_VH por PCR

<400> 10

tcagtaacac tgtccaggac accatctc 28

<210> SEQ ID NO: 11

<211> 321

<212> ADN

<213> *Rattus norvegicus*

<400> 11

gacatccaga tgacacagtc tccagcttcc ctgtctgcat ctctgggaga aactgtctcc 60

atcgaatgtc ttgcaagtga gggcatttcc aatagtttag cgtgggtatca gcagaagcca 120

gggaaatctc ctcagctcct gatctatggg gcaagtagct tgcaagacgg ggtcccatca 180

cggttcagtg gcagtgggtc tggcacgcag tattctctca agatcagcgg catgcaacct 240

gaagatgaag ggctttatta ctgtcaacag ggttacaagt atcctccgac gttcgggtgga 300

ggcaccaagc tggaattgaa a 321

<210> SEQ ID NO: 12

<211> 107

<212> PRT

<213> *Rattus norvegicus*

<400> 12

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

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

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

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

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

Glu Asp Glu Gly Leu Tyr Tyr Cys Gln Gln Gly Tyr Lys Tyr Pro Pro
 85 90 95

Thr Phe Gly Gly Gly Thr Lys Leu Glu Leu Lys
 100 105

<210> SEQ ID NO: 13
 <211> 321
 <212> ADN
 <213> *Rattus norvegicus*

<400> 13
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 ctgaactgca aggccagtca gagtgtgggt attaattgtag actggtacca acagacacca 120
 gggcagtcctc ctaaactgct gatatatggg gcatccaacc ggcacactgg ggtccctgat 180
 cgcttcacag gcagtggatt tgggagagat ttcactctca ccatcagcaa cgtggaggct 240
 gaagacctgg ctgtttatta ctgtctgcag catgggtcca ttcctccgac gttcggtgga 300
 ggcaccaagc tggaattgaa a 321

<210> SEQ ID NO: 14
 <211> 107
 <212> PRT
 <213> *Rattus norvegicus*

<400> 14

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

Glu Arg Val Thr Leu Asn Cys Lys Ala Ser Gln Ser Val Gly Ile Asn
 20 25 30

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

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

Ser Gly Phe Gly Arg Asp Phe Thr Leu Thr Ile Ser Asn Val Glu Ala
 65 70 75 80
 Glu Asp Leu Ala Val Tyr Tyr Cys Leu Gln His Gly Ser Ile Pro Pro
 85 90 95

Thr Phe Gly Gly Gly Thr Lys Leu Glu Leu Lys
 100 105

<210> SEQ ID NO: 15
 <211> 318
 <212> ADN
 <213> *Rattus norvegicus*

<400> 15
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 ggagaacctc ccaaactcct gatataataat acaaacaatt tgcatacggg catcccatca 180
 aggttcagtg gcagtggatc tggtacagat tacacactca ccatcagcgg cctgcagcct 240
 gaagatgttg ccacatattt ctgcttgcag cgtaatagtt ggtacacggt tggagctggg 300
 accaagctgg aactgaaa 318

<210> SEQ ID NO: 16
 <211> 106
 <212> PRT
 <213> *Rattus norvegicus*

<400> 16

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

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

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

Tyr Asn Thr Asn Asn Leu His Thr Gly Ile Pro Ser Arg Phe Ser Gly
 50 55 60

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

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

Phe Gly Ala Gly Thr Lys Leu Glu Leu Lys
 100 105

<210> SEQ ID NO: 17

<211> 449

<212> ADN

<213> Secuencia artificial

<220>

<223> fragmento de ADN que comprende la secuencia de ADN que codifica la
 secuencia de aminoácidos de cadena-k humana de la secuencia señal de secreción
 y cadena-k humana de región constante.

<400> 17

gcctccggac tctagagcca ccatggtgct gcagaccag gtgttcatct ccctgctgct 60

gtggatctcc ggcgcgtagc gcgatatcgt gatgattaaa cgtacgggtgg ccgccccctc 120

cgtgttcatc ttccccccct ccgacgagca gctgaagtcc ggcaccgcct ccgtgggtgtg 180

cctgctgaat aacttctacc ccagagagggc caaggtgcag tggaaggtgg acaacgcct 240

gcagtccggg aactcccagg agagcgtgac cgagcaggac agcaaggaca gcacctacag 300

cctgagcagc accctgaccc tgagcaaagc cgactacgag aagcacaagg tgtacgcctg 360
 cgagggtgacc caccagggcc tgagctcccc cgtcaccaag agcttcaaca ggggggagtg 420
 ttagggggccc gtttaaacgg gggaggcta 449

<210> SEQ ID NO: 18
 <211> 30
 <212> ADN
 <213> Secuencia artificial

<220>

<223> cebador F para expression del vector de VL

<400> 18
 tataccgtcg acctctagct agagcttggc 30

<210> SEQ ID NO: 19
 <211> 30
 <212> ADN
 <213> Secuencia artificial

<220>

<223> cebador R para expression del vector de VL

<400> 19
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<210> SEQ ID NO: 20
 <211> 1132
 <212> ADN
 <213> Secuencia artificial

<220>

<223> fragmento de ADN que comprende la secuencia de ADN que codifica la
 secuencia de aminoácidos de cadena pesada de humano de la secuencia señal y la
 región constante IgG1 humana

<400> 20
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 tcccagatgg gtgctgagcc aggtgcaatt gtgcaggcgg ttagctcagc ctccaccaag 120
 ggcccaagcg tcttccccct ggcaccctcc tccaagagca cctctggcgg cacagccgcc 180
 ctgggctgcc tggtaagga ctacttcccc gaaccctga ccgtgagctg gaactcaggc 240

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gccctgacca gcggcgtgca caccttcccc gctgtcctgc agtcctcagg actctactcc 300
ctcagcagcg tgggtgaccgt gccctccagc agcttgggca cccagaccta catctgcaac 360
gtgaatcaca agcccagcaa caccaaggtg gacaagagag ttgagcccaa atcttgtgac 420
aaaactcaca catgcccacc ctgcccagca cctgaactcc tgggggggacc ctcagtcttc 480
ctcttcccc caaaacccaa ggacaccctc atgatctccc ggaccctga ggtcacatgc 540
gtggtggtgg acgtgagcca cgaagaccct gaggtcaagt tcaactggta cgtggacggc 600
gtggaggtgc ataatgcaa gacaaagccc cgaggagagc agtacaacag cacgtaccgg 660
gtggtcagcg tcctcaccgt cctgcaccag gactggctga atggcaagga gtacaagtgc 720
aaggtctcca acaaagccct cccagcccc atcgagaaaa ccatctccaa agccaaaggc 780
cagccccggg aaccacaggt gtacaccctg ccccatccc gggaggagat gaccaagaac 840
caggtcagcc tgacctgcct ggtcaaaggc ttctatccca gcgacatcgc cgtggagtgg 900
gagagcaatg gccagcccga gaacaactac aagaccacce ctcccgtgct ggactccgac 960
ggctccttct tcctctacag caagctcacc gtggacaaga gcaggtggca gcagggcaac 1020
gtcttctcat gctccgtgat gcatgaggct ctgcacaacc actacacca gaagagcctc 1080
tcctgtctc ccggcaaagt agatatcggg cccgtttaaa cgggggaggc ta 1132

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<210> SEQ ID NO: 21

<211> 702

<212> ADN

<213> Secuencia artificial

<220>

<223> secuencia nucleotídica de c2A4 L

<400> 21

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atggtgctgc agaccaggt gttcatctcc ctgctgctgt ggatctccgg cgcgtacggc 60
gacatccaga tgacacagtc tccagcttcc ctgtctgcat ctctgggaga aactgtctcc 120
atcgaatgtc ttgcaagtga gggcatttcc aatagtttag cgtggatatca gcagaagcca 180
gggaaatctc ctcagctcct gatctatggt gcaagtagct tgcaagacgg ggtcccatca 240
cggttcagtg gcagtggttc tggcacgcag tattctctca agatcagcgg catgcaacct 300

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gaagatgaag ggctttatta ctgtcaacag ggttacaagt atcctccgac gttcgggtgga      360
ggcaccaagc tggaattgaa acgggctgtg gccgccccct ccgtgttcat cttccccccc      420
tccgacgagc agctgaagtc cggcaccgcc tccgtggtgt gcctgctgaa taacttctac      480
cccagagagg ccaaggtgca gtggaagggtg gacaacgccc tgcagtccgg gaactcccag      540
gagagcgtga ccgagcagga cagcaaggac agcacctaca gcctgagcag caccctgacc      600
ctgagcaaag ccgactacga gaagcacaag gtgtacgcct gcgaggtgac ccaccagggc      660
ctgagctccc ccgtcaccaa gagcttcaac aggggggagt gt                          702

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<210> SEQ ID NO: 22

<211> 234

<212> PRT

<213> Secuencia artificial

<220>

<223> secuencia de aminoácidos de c2A4 L

<400> 22

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Met Val Leu Gln Thr Gln Val Phe Ile Ser Leu Leu Leu Trp Ile Ser
1              5              10              15

```

```

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

```

```

Ala Ser Leu Gly Glu Thr Val Ser Ile Glu Cys Leu Ala Ser Glu Gly
35              40              45

```

```

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

```

```

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

```

```

Arg Phe Ser Gly Ser Gly Ser Gly Thr Gln Tyr Ser Leu Lys Ile Ser
85              90              95

```

Gly Met Gln Pro Glu Asp Glu Gly Leu Tyr Tyr Cys Gln Gln Gly Tyr
 100 105 110

Lys Tyr Pro Pro Thr Phe Gly Gly Gly Thr Lys Leu Glu Leu Lys Arg
 115 120 125

Ala Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln
 130 135 140

Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr
 145 150 155 160

Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser
 165 170 175

Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr
 180 185 190

Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys
 195 200 205

His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro
 210 215 220

Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
 225 230

<210> SEQ ID NO: 23

<211> 44

<212> ADN

<213> Secuencia artificial

<220>

<223> conjunto de cebadores F para c2A4 L

<400> 23

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44

<210> SEQ ID NO: 24

<211> 44
 <212> ADN
 <213> Secuencia artificial

<220>
 <223> conjunto de cebadores R para c2A4 L

<400> 24
 ggagggggcg gccacagccc gtttcaattc cagcttggtg cctc 44

<210> SEQ ID NO: 25
 <211> 1413
 <212> ADN
 <213> Secuencia artificial

<220>
 <223> secuencia nucleotídica de c2A4 H

<400> 25
 atgaaacacc tgtggttctt cctcctgctg gtggcagctc ccagatgggt gctgagccag 60
 gtccagttgc agcaatctgg agctgagctg gctaaacctg ggacttcagt gaagctgtcc 120
 tgcaaggctt ctggctatac cttcaccagc tactatatatt actgggtaaa gcagaggcct 180
 ggacagggcc ttgagtggat cggatatggt tatcctggat atggtggtac ttactacagt 240
 gataagttca agggcaaagc cacatttact gcagacacat cctccagcac agcctacatg 300
 ctactgggca gcctgacacc tgaggactct gcgtactatt tctgtgcaag acggaagggt 360
 ataattcggg gtccggggta ctttgattac tggggccaag gagtcatggt cacagtcagc 420
 tcagcctcca ccaagggcc aagcgtcttc cccctggcac cctcctccaa gagcacctct 480
 ggcggcacag ccgccctggg ctgcctggtc aaggactact tccccgaacc cgtgaccgtg 540
 agctggaact caggcgccct gaccagcggc gtgcacacct tccccgctgt cctgcagtcc 600
 tcaggactct actccctcag cagcgtgggt accgtgccct ccagcagctt gggcacccag 660
 acctacatct gcaacgtgaa tcacaagccc agcaacacca aggtggacaa gagagttgag 720
 cccaaatctt gtgacaaaac tcacacatgc ccaccctgcc cagcacctga actcctgggg 780
 ggaccctcag tcttcctctt cccccaaaa cccaaggaca ccctcatgat ctcccggacc 840
 cctgaggtca catgcgtggt ggtggacgtg agccacgaag accctgaggt caagttcaac 900

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tggtacgtgg acggcgtgga ggtgcataat gccaaagaaa agccccggga ggagcagtag      960
aacagcacgt accgggtggt cagcgtcctc accgtcctgc accaggactg gctgaatggc      1020
aaggagtaca agtgcaaggt ctccaacaaa gccctcccag ccccatcga gaaaaccatc      1080
tccaaagcca aaggccagcc ccgggaacca caggtgtaca cctgcccc atcccgggag      1140
gagatgacca agaaccaggt cagcctgacc tgcttggtca aaggcttcta tcccagcgac      1200
atcgccgtgg agtgggagag caatggccag cccgagaaca actacaagac caccctccc      1260
gtgctggact ccgacggctc cttcttcctc tacagcaagc tcaccgtgga caagagcagg      1320
tggcagcagg gcaacgtctt ctcatgctcc gtgatgcatg aggtctgca caaccactac      1380
accagaaga gcctctccct gtctcccggc aaa                                     1413

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<210> SEQ ID NO: 26

<211> 471

<212> PRT

<213> Secuencia artificial

<220>

<223> secuencia de aminoácidos de c2A4 H

<400> 26

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Met Lys His Leu Trp Phe Phe Leu Leu Leu Val Ala Ala Pro Arg Trp
1              5              10              15

```

```

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

```

```

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

```

```

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

```

```

Glu Trp Ile Gly Tyr Val Tyr Pro Gly Tyr Gly Gly Thr Tyr Tyr Ser
65              70              75              80

```

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

Thr Ala Tyr Met Leu Leu Gly Ser Leu Thr Pro Glu Asp Ser Ala Tyr
 100 105 110

Tyr Phe Cys Ala Arg Arg Lys Gly Ile Ile Arg Gly Pro Gly Tyr Phe
 115 120 125

Asp Tyr Trp Gly Gln Gly Val Met Val Thr Val Ser Ser Ala Ser Thr
 130 135 140

Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr Ser
 145 150 155 160

Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu
 165 170 175

Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His
 180 185 190

Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser
 195 200 205

Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys
 210 215 220

Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys Arg Val Glu
 225 230 235 240

Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro
 245 250 255

Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys
 260 265 270

Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val
 275 280 285

Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp
 290 295 300

Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr
 305 310 315 320

Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp
 325 330 335

Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu
 340 345 350

Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg
 355 360 365

Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu Met Thr Lys
 370 375 380

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

Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys
 405 410 415

Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser
 420 425 430

Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser
 435 440 445

Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser
 450 455 460

Leu Ser Leu Ser Pro Gly Lys
465 470

<210> SEQ ID NO: 27

<211> 45

<212> ADN

<213> Secuencia artificial

<220>

<223> conjunto de cebadores F para c2A4 H

<400> 27

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<210> SEQ ID NO: 28

<211> 46

<212> ADN

<213> Secuencia artificial

<220>

<223> conjunto de cebadores R para c2A4 H

<400> 28

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<210> SEQ ID NO: 29

<211> 702

<212> ADN

<213> Secuencia artificial

<220>

<223> secuencia nucleotídica de c2B1 L

<400> 29

atggtgctgc agaccaggt gttcatctcc ctgctgctgt ggatctccgg cgcgtacggc 60

gaaactgtga tgaccagtc tcccacatcc atgtccacat caataggaga gagggtcacc 120

ctgaactgca aggccagtca gagtgtgggt attaatgtag actggtacca acagacacca 180

gggcagtctc ctaaactgct gatatatggg gcatccaacc ggcacactgg ggtccctgat 240

cgcttcacag gcagtggatt tgggagagat ttcactctca ccatcagcaa cgtggaggct 300

gaagacctgg ctgtttatta ctgtctgcag catggctcca ttcctccgac gttcggtgga 360

```

ggcaccaagc tggaattgaa acgggctgtg gccgccccct ccgtgttcat cttccccccc 420
tccgacgagc agctgaagtc cggcaccgcc tccgtggtgt gcctgctgaa taacttctac 480
cccagagagg ccaaggtgca gtggaagggtg gacaacgccc tgcagtccgg gaactcccag 540
gagagcgtga ccgagcagga cagcaaggac agcacctaca gcctgagcag caccctgacc 600
ctgagcaaag ccgactacga gaagcacaag gtgtacgcct gcgaggtgac ccaccagggc 660
ctgagctccc ccgtcaccaa gagcttcaac aggggggagt gt 702

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<210> SEQ ID NO: 30

<211> 234

<212> PRT

<213> Secuencia artificial

<220>

<223> secuencia de aminoácidos de c2B1 L

<400> 30

```

Met Val Leu Gln Thr Gln Val Phe Ile Ser Leu Leu Leu Trp Ile Ser
1           5           10           15

```

```

Gly Ala Tyr Gly Glu Thr Val Met Thr Gln Ser Pro Thr Ser Met Ser
20           25           30

```

```

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

```

```

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

```

```

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

```

```

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

```

```

Asn Val Glu Ala Glu Asp Leu Ala Val Tyr Tyr Cys Leu Gln His Gly
100          105          110

```

Ser Ile Pro Pro Thr Phe Gly Gly Gly Thr Lys Leu Glu Leu Lys Arg
 115 120 125

Ala Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln
 130 135 140

Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr
 145 150 155 160

Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser
 165 170 175

Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr
 180 185 190

Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys
 195 200 205

His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro
 210 215 220

Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
 225 230

<210> SEQ ID NO: 31

<211> 44

<212> ADN

<213> Secuencia artificial

<220>

<223> conjunto de cebadores F para c2B1 L

<400> 31

atctccggcg cgtacggcga aactgtgatg acccagtctc ccac

44

<210> SEQ ID NO: 32

<211> 44

<212> ADN

<213> Secuencia artificial

<220>

<223> conjunto de cebadores R para c2B1 L

<400> 32

ggagggggcg gccacagccc gtttcaattc cagcttggtg cctc

44

<210> SEQ ID NO: 33

<211> 1416

<212> ADN

<213> Secuencia artificial

<220>

<223> secuencia nucleotídica de c2B1 H

<400> 33

atgaaacacc tgtggttctt cctcctgctg gtggcagctc ccagatgggt gctgagccag	60
gttactctga aagagtctgg ccctgggata ttgcagccct ccagaccct cagtctgact	120
tgcactttct ctgggttttc actgaacact tatgatatgg gtgtgggctg gattcgtcag	180
ccttcaggga agggctctga gtggctggca aacatttgggt gggatgatga taagtactac	240
aatccatctc tgagaaaccg gtcacaatc tccaaggaca cctccaaca ccaagcattc	300
ctcaagatca ccaatgtgga cactgcagat actgccacat actactgtgc tcggatcgaa	360
actgtccggg tttcccgtaa ggggtttgct cactggggcc aaggcactct ggtcactgtc	420
agctcagcct ccaccaaggg cccaagcgtc ttccccctgg caccctctc caagagcacc	480
tctggcggca cagccgcctt gggctgcctg gtcaaggact acttccccga acccgtgacc	540
gtgagctgga actcaggcgc cctgaccagc ggcgtgcaca ccttccccgc tgtcctgcag	600
tcctcaggac tctactcctt cagcagcgtg gtgaccgtgc cctccagcag cttgggcacc	660
cagacctaca tctgcaacgt gaatcacaag ccagcaaca ccaaggtgga caagagagtt	720
gagcccaaatt cttgtgacaa aactcacaca tgcccaccct gcccagcacc tgaactcctg	780
ggggggaccct cagtcttcct cttcccccca aaaccaagg acaccctcat gatctccggg	840
acccttgagg tcacatgcgt ggtggtggac gtgagccacg aagaccctga ggtcaagttc	900
aactggtacg tggacggcgt ggaggtgcat aatgccaaga caaagccccg ggaggagcag	960
tacaacagca cgtaccgggt ggtcagcgtc ctaccgtcc tgcaccagga ctggctgaat	1020

```

ggcaaggagt acaagtgcaa ggtctccaac aaagccctcc cagcccccat cgagaaaacc      1080
atctccaaag ccaaaggcca gccccgggaa ccacaggtgt acaccctgcc cccatcccgg      1140
gaggagatga ccaagaacca ggtcagcctg acctgcctgg tcaaaggctt ctatcccagc      1200
gacatcgccg tggagtggga gagcaatggc cagcccgaga acaactacaa gaccaccct      1260
cccgtagctgg actccgacgg ctctttcttc ctctacagca agctcaccgt ggacaagagc      1320
aggtggcagc agggcaacgt cttctcatgc tccgtgatgc atgaggctct gcacaaccac      1380
tacaccaga agagcctctc cctgtctccc ggcaaa                                  1416

```

<210> SEQ ID NO: 34

<211> 472

<212> PRT

<213> Secuencia artificial

<220>

<223> secuencia de aminoácidos de c2B1 H

<400> 34

```

Met Lys His Leu Trp Phe Phe Leu Leu Leu Val Ala Ala Pro Arg Trp
1              5              10              15

```

```

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

```

```

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

```

```

Asn Thr Tyr Asp Met Gly Val Gly Trp Ile Arg Gln Pro Ser Gly Lys
50              55              60

```

```

Gly Leu Glu Trp Leu Ala Asn Ile Trp Trp Asp Asp Asp Lys Tyr Tyr
65              70              75              80

```

```

Asn Pro Ser Leu Arg Asn Arg Leu Thr Ile Ser Lys Asp Thr Ser Asn
85              90              95

```

Asn Gln Ala Phe Leu Lys Ile Thr Asn Val Asp Thr Ala Asp Thr Ala
 100 105 110

Thr Tyr Tyr Cys Ala Arg Ile Glu Thr Val Arg Val Ser Arg Lys Gly
 115 120 125

Phe Ala His Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Ala Ser
 130 135 140

Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr
 145 150 155 160

Ser Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro
 165 170 175

Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val
 180 185 190

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

Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile
 210 215 220

Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys Arg Val
 225 230 235 240

Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala
 245 250 255

Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro
 260 265 270

Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val
 275 280 285

Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val
 290 295 300

Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln
 305 310 315 320

Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln
 325 330 335

Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala
 340 345 350

Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro
 355 360 365

Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu Met Thr
 370 375 380

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

Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr
 405 410 415

Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr
 420 425 430

Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe
 435 440 445

Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys
 450 455 460

Ser Leu Ser Leu Ser Pro Gly Lys
 465 470

<210> SEQ ID NO: 35

<211> 45

<212> ADN

<213> Secuencia artificial

<220>

<223> conjunto de cebadores F para c2B1 H

<400> 35

ccagatgggt gctgagccag gttactctga aagagtctgg ccctg

45

<210> SEQ ID NO: 36

<211> 46

<212> ADN

<213> Secuencia artificial

<220>

<223> conjunto de cebadores R para c2B1 H

<400> 36

cttggtggag gctgagctga cagtgaccag agtgccttgg cccag

46

<210> SEQ ID NO: 37

<211> 699

<212> ADN

<213> Secuencia artificial

<220>

<223> secuencia nucleotídica de c7B4 L

<400> 37

atggtgctgc agaccaggt gttcatctcc ctgctgctgt ggatctccgg cgcgtacggc

60

gacatccaga tgaccagtc tccttcattc ctgtctgcat ctgtgggaga aagagtcact

120

ctcagctgca aagcaagtca gaatattaac aagtacttag actggtatca gcaaaagctt

180

ggagaacctc ccaaactcct gatataataa acaaacaatt tgcatacggg catcccatca

240

aggttcagtg gcagtggatc tggtagagat tacacactca ccatcagcgg cctgcagcct

300

gaagatgttg ccacatattt ctgcttgag cgtaatagtt ggtacacggt tggagctggg

360

accaagctgg aactgaaacg ggctgtggcc gcccctccg tgttcatctt cccccctcc

420

gacgagcagc tgaagtccgg caccgcctcc gtggtgtgcc tgctgaataa cttctacccc

480

```

agagaggcca aggtgcagtg gaaggtggac aacgccctgc agtccgggaa ctcccaggag      540
agcgtgaccg agcaggacag caaggacagc acctacagcc tgagcagcac cctgaccctg      600
agcaaagccg actacgagaa gcacaaggtg tacgcctgcg aggtgaccca ccagggcctg      660
agctcccccg tcaccaagag cttcaacagg ggggagtgt                               699

```

<210> SEQ ID NO: 38

<211> 233

<212> PRT

<213> Secuencia artificial

<220>

<223> secuencia de aminoácidos de c7B4 L

<400> 38

```

Met Val Leu Gln Thr Gln Val Phe Ile Ser Leu Leu Leu Trp Ile Ser
1              5              10              15

```

```

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

```

```

Ala Ser Val Gly Glu Arg Val Thr Leu Ser Cys Lys Ala Ser Gln Asn
          35              40              45

```

```

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

```

```

Lys Leu Leu Ile Tyr Asn Thr Asn Asn Leu His Thr Gly Ile Pro Ser
65              70              75              80

```

```

Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Tyr Thr Leu Thr Ile Ser
          85              90              95

```

```

Gly Leu Gln Pro Glu Asp Val Ala Thr Tyr Phe Cys Leu Gln Arg Asn
          100              105              110

```

Ser Trp Tyr Thr Phe Gly Ala Gly Thr Lys Leu Glu Leu Lys Arg Ala
 115 120 125

Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu
 130 135 140

Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro
 145 150 155 160

Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly
 165 170 175

Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr
 180 185 190

Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys His
 195 200 205

Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro Val
 210 215 220

Thr Lys Ser Phe Asn Arg Gly Glu Cys
 225 230

<210> SEQ ID NO: 39

<211> 44

<212> ADN

<213> Secuencia artificial

<220>

<223> conjunto de cebadores F para c7B4 L

<400> 39

atctccggcg cgtagcgga catccagatg acccagtctc cttc

44

<210> SEQ ID NO: 40

<211> 44

<212> ADN

<213> Secuencia artificial

<220>

<223> conjunto de cebadores R para c7B4 L

<400> 40

ggagggggcg gccacagccc gtttcagttc cagcttggtc ccag

44

<210> SEQ ID NO: 41

<211> 1416

<212> ADN

<213> Secuencia artificial

<220>

<223> secuencia nucleotídica de c7B4 H

<400> 41

atgaaacacc tgtggttctt cctcctgctg gtggcagctc ccagatgggt gctgagcgag	60
atacacctgc aggagtcagg acctggcctt gtgaaacctt cacagtcact ctccctcacc	120
tgttctgtca ctggttacac cattaccagt ggttatgatt ggagctggat ccggaagttc	180
ccaggaaata aaatggagtg gatggcatac atgagctata gaggtagcac taactacaac	240
ccctcgctca aaagtcgaat ctccattaca agagacacat ccaagaatca gttcttcctg	300
cagttgaatt ctgtcactac tgaggataca gccacatatt actgtgccct aacaaggacc	360
tattgggtata actattacta tgttttggat gcctgggggtc aaggagcttc agtcactgtc	420
agctcagcct ccaccaaggg cccaagcgtc ttccccctgg caccctcctc caagagcacc	480
tctggcggca cagccgcctt gggctgcctg gtcaaggact acttccccga acccgtgacc	540
gtgagctgga actcaggcgc cctgaccagc ggctgtcaca ccttccccgc tgtcctgcag	600
tcctcaggac tctactcctt cagcagcgtg gtgaccgtgc cctccagcag cttgggcacc	660
cagacctaca tctgcaacgt gaatcacaag ccagcaaca ccaaggtgga caagagagtt	720
gagcccaaatt cttgtgacaa aactcacaca tgcccaccct gcccagcacc tgaactcctg	780
ggggggaccct cagtcttcct ctcccccca aaaccaagg acaccctcat gatctccggg	840
accctgagg tcacatgcgt ggtggtggac gtgagccacg aagaccctga ggtcaagttc	900
aactggtacg tggacggcgt ggaggtgcat aatgccaaga caaagccccg ggaggagcag	960
tacaacagca cgtaccgggt ggtcagcgtc ctaccgtcc tgcaccagga ctggctgaat	1020

```

ggcaaggagt acaagtgcaa ggtctccaac aaagccctcc cagcccccat cgagaaaacc      1080
atctccaaag ccaaaggcca gccccgggaa ccacaggtgt acaccctgcc cccatcccgg      1140
gaggagatga ccaagaacca ggtcagcctg acctgcctgg tcaaaggctt ctatcccagc      1200
gacatcgccg tggagtggga gagcaatggc cagcccgaga acaactacaa gaccaccct      1260
cccgtagctgg actccgacgg ctctttcttc ctctacagca agctcaccgt ggacaagagc      1320
aggtggcagc agggcaacgt cttctcatgc tccgtgatgc atgaggctct gcacaaccac      1380
tacaccaga agagcctctc cctgtctccc ggcaaa                                1416

```

<210> SEQ ID NO: 42

<211> 472

<212> PRT

<213> Secuencia artificial

<220>

<223> secuencia de aminoácidos de c7B4 H

<400> 42

```

Met Lys His Leu Trp Phe Phe Leu Leu Leu Val Ala Ala Pro Arg Trp
1           5           10           15

```

```

Val Leu Ser Glu Ile His Leu Gln Glu Ser Gly Pro Gly Leu Val Lys
20           25           30

```

```

Pro Ser Gln Ser Leu Ser Leu Thr Cys Ser Val Thr Gly Tyr Thr Ile
35           40           45

```

```

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

```

```

Met Glu Trp Met Ala Tyr Met Ser Tyr Arg Gly Ser Thr Asn Tyr Asn
65           70           75           80

```

```

Pro Ser Leu Lys Ser Arg Ile Ser Ile Thr Arg Asp Thr Ser Lys Asn
85           90           95

```

Gln Phe Phe Leu Gln Leu Asn Ser Val Thr Thr Glu Asp Thr Ala Thr
 100 105 110

Tyr Tyr Cys Ala Leu Thr Arg Thr Tyr Trp Tyr Asn Tyr Tyr Tyr Val
 115 120 125

Leu Asp Ala Trp Gly Gln Gly Ala Ser Val Thr Val Ser Ser Ala Ser
 130 135 140

Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr
 145 150 155 160

Ser Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro
 165 170 175

Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val
 180 185 190

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

Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile
 210 215 220

Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys Arg Val
 225 230 235 240

Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala
 245 250 255

Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro
 260 265 270

Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val
 275 280 285

Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val
 290 295 300

Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln
 305 310 315 320

Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln
 325 330 335

Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala
 340 345 350

Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro
 355 360 365

Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu Met Thr
 370 375 380

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

Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr
 405 410 415

Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr
 420 425 430

Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe
 435 440 445

Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys
 450 455 460

Ser Leu Ser Leu Ser Pro Gly Lys
 465 470

<210> SEQ ID NO: 43

<211> 45

<212> ADN

<213> Secuencia artificial

<220>

<223> conjunto de cebadores F para c7B4 H

<400> 43

ccagatgggt gctgagcgag atacacctgc aggagtcagg acctg

45

<210> SEQ ID NO: 44

<211> 46

<212> ADN

<213> Secuencia artificial

<220>

<223> conjunto de cebadores R para c7B4 H

<400> 44

cttggtggag gctgagctga cagtgactga agctccttga ccccag

46

<210> SEQ ID NO: 45

<211> 8

<212> PRT

<213> Secuencia artificial

<220>

<223> secuencia de aminoácidos de 2A4 H CDR1

<400> 45

Gly Tyr Thr Phe Thr Ser Tyr Tyr

1

5

<210> SEQ ID NO: 46

<211> 8

<212> PRT

<213> Secuencia artificial

<220>

<223> secuencia de aminoácidos de 2A4 H CDR2

<400> 46

Val Tyr Pro Gly Tyr Gly Gly Thr
1 5

<210> SEQ ID NO: 47

<211> 15

<212> PRT

<213> Secuencia artificial

<220>

<223> secuencia de aminoácidos de 2A4 H CDR3

<400> 47

Ala Arg Arg Lys Gly Ile Ile Arg Gly Pro Gly Tyr Phe Asp Tyr
1 5 10 15

<210> SEQ ID NO: 48

<211> 10

<212> PRT

<213> Secuencia artificial

<220>

<223> secuencia de aminoácidos de 2B1 H CDR1

<400> 48

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

<210> SEQ ID NO: 49

<211> 7

<212> PRT

<213> Secuencia artificial

<220>

<223> secuencia de aminoácidos de 2B1 H CDR2

<400> 49

Ile Trp Trp Asp Asp Asp Lys
1 5

<210> SEQ ID NO: 50

<211> 15

<212> PRT

<213> Secuencia artificial

<220>

<223> secuencia de aminoácidos de 2B1 H CDR3

<400> 50

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

<210> SEQ ID NO: 51

<211> 9

<212> PRT

<213> Secuencia artificial

<220>

<223> secuencia de aminoácidos de 7B4 H CDR1

<400> 51

Gly	Tyr	Thr	Ile	Thr	Ser	Gly	Tyr	Asp
1				5				

<210> SEQ ID NO: 52

<211> 7

<212> PRT

<213> Secuencia artificial

<220>

<223> secuencia de aminoácidos de 7B4 H CDR2

<400> 52

Met	Ser	Tyr	Arg	Gly	Ser	Thr
1				5		

<210> SEQ ID NO: 53

<211> 16

<212> PRT

<213> Secuencia artificial

<220>

<223> secuencia de aminoácidos de 7B4 H CDR3

<400> 53

Ala Leu Thr Arg Thr Tyr Trp Tyr Asn Tyr Tyr Tyr Val Leu Asp Ala
 1 5 10 15

<210> SEQ ID NO: 54

<211> 6

<212> PRT

<213> Secuencia artificial

<220>

<223> secuencia de aminoácidos de 2A4 L CDR1

<400> 54

Glu Gly Ile Ser Asn Ser
 1 5

<210> SEQ ID NO: 55

<211> 3

<212> PRT

<213> Secuencia artificial

<220>

<223> secuencia de aminoácidos de 2A4 L CDR2

<400> 55

Gly Ala Ser
 1

<210> SEQ ID NO: 56

<211> 9

<212> PRT

<213> Secuencia artificial

<220>

<223> secuencia de aminoácidos de 2A4 L CDR3

<400> 56

Gln Gln Gly Tyr Lys Tyr Pro Pro Thr
 1 5

<210> SEQ ID NO: 57

<211> 6

<212> PRT

<213> Secuencia artificial

<220>

<223> secuencia de aminoácidos de 2B1 L CDR1

<400> 57

Gln Ser Val Gly Ile Asn

1 5

<210> SEQ ID NO: 58

<211> 3

<212> PRT

<213> Secuencia artificial

<220>

<223> secuencia de aminoácidos de 2B1 L CDR2

<400> 58

Gly Ala Ser

1

<210> SEQ ID NO: 59

<211> 9

<212> PRT

<213> Secuencia artificial

<220>

<223> secuencia de aminoácidos de 2B1 L CDR3

<400> 59

Leu Gln His Gly Ser Ile Pro Pro Thr

1 5

<210> SEQ ID NO: 60

<211> 6

<212> PRT

<213> Secuencia artificial

<220>

<223> secuencia de aminoácidos de 7B4 L CDR1

<400> 60

Gln Asn Ile Asn Lys Tyr
1 5

<210> SEQ ID NO: 61
<211> 3
<212> PRT
<213> Secuencia artificial

<220>
<223> secuencia de aminoácidos de 7B4 L CDR2

<400> 61

Asn Thr Asn
1

<210> SEQ ID NO: 62
<211> 8
<212> PRT
<213> Secuencia artificial

<220>
<223> secuencia de aminoácidos de 7B4 L CDR3

<400> 62

Leu Gln Arg Asn Ser Trp Tyr Thr
1 5

<210> SEQ ID NO: 63
<211> 702
<212> ADN
<213> Secuencia artificial

<220>
<223> secuencia nucleotídica de h2B1_L1

<400> 63
atggtgctgc agaccaggt gttcatctcc ctgctgctgt ggatctccgg cgcgtacggc 60
gataccgtga tgaccagag cctgacagc ctggccgtgt ctctgggaga gagagccacc 120
atcaactgca aggccagcca ggcgtgggc atcaacgtgg actggtatca gcagaagccc 180
ggccagcccc ccaagctgct gatctacggc gccagcaata gacacaccgg cgtgcccgat 240

```

agattcagcg gctctggcag cggcagagac ttcaccctga ccatcagctc cctgcaggcc      300
gaggatgtgg ccgtgtacta ctgtctgcag cacggcagca tccccccac atttggccag      360
ggcaccaagg tggaaatcaa gcgtacggtg gccgccccct ccgtgttcat cttccccccc      420
tccgacgagc agctgaagtc cggcacccgcc tccgtggtgt gcctgctgaa taacttctac      480
cccagagagg ccaaggtgca gtggaagggtg gacaacgccc tgcagtccgg gaactcccag      540
gagagcgtga ccgagcagga cagcaaggac agcacctaca gcctgagcag caccctgacc      600
ctgagcaaag ccgactacga gaagcacaag gtgtacgcct gcgaggtgac ccaccagggc      660
ctgagctccc ccgtcaccaa gagcttcaac aggggggagt gt                          702

```

<210> SEQ ID NO: 64

<211> 234

<212> PRT

<213> Secuencia artificial

<220>

<223> secuencia de aminoácidos de h2B1_L1

<400> 64

```

Met Val Leu Gln Thr Gln Val Phe Ile Ser Leu Leu Leu Trp Ile Ser
1              5              10              15

```

```

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

```

```

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

```

```

Val Gly Ile Asn Val Asp Trp Tyr Gln Gln Lys Pro Gly Gln Pro Pro
50              55              60

```

```

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

```

```

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

```

Ser Leu Gln Ala Glu Asp Val Ala Val Tyr Tyr Cys Leu Gln His Gly
 100 105 110

Ser Ile Pro Pro Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg
 115 120 125

Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln
 130 135 140

Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr
 145 150 155 160

Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser
 165 170 175

Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr
 180 185 190

Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys
 195 200 205

His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro
 210 215 220

Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
 225 230

<210> SEQ ID NO: 65

<211> 702

<212> ADN

<213> Secuencia artificial

<220>

<223> secuencia nucleotídica de h2B1_L2

<400> 65

atggtgctgc agaccaggt gttcatctcc ctgctgctgt ggatctccgg cgcgtacggc 60

gataccgtga tgaccagag ccctgacagc ctggccgtgt ctctgggaga gagagccacc 120

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atcaactgca aggccagcca gagcgtgggc atcaacgtgg actggtatca gcagaagccc      180
ggccagcccc ccaagctgct gatctacggc gccagcaata gacacaccgg cgtgcccgat      240
agattcagcg gcagcggctt cggcaccgac ttcaccctga caatcagctc cctgcaggcc      300
gaggacgtgg ccgtgtacta ctgtctgcag cacggcagca tccccccac atttggccag      360
ggcaccaagg tggaaatcaa gcgtacggtg gccgccccct ccgtgttcat cttccccccc      420
tccgacgagc agctgaagtc cggcaccgcc tccgtggtgt gcctgctgaa taacttctac      480
cccagagagg ccaaggtgca gtggaagggtg gacaacgccc tgcagtccgg gaactcccag      540
gagagcgtga ccgagcagga cagcaaggac agcacctaca gcctgagcag caccctgacc      600
ctgagcaaag ccgactacga gaagcacaag gtgtacgcct gcgaggtgac ccaccagggc      660
ctgagctccc ccgtcaccaa gagcttcaac aggggggagt gt                          702

```

<210> SEQ ID NO: 66

<211> 234

<212> PRT

<213> Secuencia artificial

<220>

<223> secuencia de aminoácidos de h2B1_L2

<400> 66

```

Met Val Leu Gln Thr Gln Val Phe Ile Ser Leu Leu Leu Trp Ile Ser
1           5           10           15

```

```

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

```

```

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

```

```

Val Gly Ile Asn Val Asp Trp Tyr Gln Gln Lys Pro Gly Gln Pro Pro
          50           55           60

```

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

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

Ser Leu Gln Ala Glu Asp Val Ala Val Tyr Tyr Cys Leu Gln His Gly
100 105 110

Ser Ile Pro Pro Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg
115 120 125

Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln
130 135 140

Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr
145 150 155 160

Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser
165 170 175

Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr
180 185 190

Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys
195 200 205

His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro
210 215 220

Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
225 230

<210> SEQ ID NO: 67

<211> 702

<212> ADN

<213> Secuencia artificial

<220>

<223> secuencia nucleotídica de h2B1_L3

<400> 67

```

atggtgctgc agaccaggt gttcatctcc ctgctgctgt ggatctccgg cgcgtacggc      60
gataccgtga tgaccagag ccctgacagc ctggccgtgt ctctgggaga gagagccacc      120
atcaactgca aggccagcca gagcgtgggc atcaacgtgg actggtatca gcagaagccc      180
ggccagcccc ccaagctgct gatctacggc gccagcaata gacacaccgg cgtgcccgat      240
agattcagcg gcagcggctt cggcagagac ttcaccctga ccatcagctc cctgcaggcc      300
gaggatgtgg ccgtgtacta ctgtctgcag cacggcagca tccccccac atttggccag      360
ggcaccaagg tggaaatcaa gcgtacggtg gccgccccct ccgtgttcat cttccccccc      420
tccgacgagc agctgaagtc cggcaccgcc tccgtggtgt gcctgctgaa taacttctac      480
cccagagagg ccaaggtgca gtggaagggtg gacaacgccc tgcagtccgg gaactcccag      540
gagagcgtga ccgagcagga cagcaaggac agcacctaca gcctgagcag caccctgacc      600
ctgagcaaag ccgactacga gaagcacaag gtgtacgcct gcgaggtgac ccaccagggc      660
ctgagctccc ccgtcaccaa gagcttcaac aggggggagt gt                          702

```

<210> SEQ ID NO: 68

<211> 234

<212> PRT

<213> Secuencia artificial

<220>

<223> secuencia de aminoácidos de h2B1_L3

<400> 68

```

Met Val Leu Gln Thr Gln Val Phe Ile Ser Leu Leu Leu Trp Ile Ser
1           5           10           15

```

```

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

```

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

Val Gly Ile Asn Val Asp Trp Tyr Gln Gln Lys Pro Gly Gln Pro Pro
 50 55 60

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

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

Ser Leu Gln Ala Glu Asp Val Ala Val Tyr Tyr Cys Leu Gln His Gly
 100 105 110

Ser Ile Pro Pro Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg
 115 120 125

Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln
 130 135 140

Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr
 145 150 155 160

Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser
 165 170 175

Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr
 180 185 190

Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys
 195 200 205

His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro
 210 215 220

Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
225 230

<210> SEQ ID NO: 69

<211> 702

<212> ADN

<213> Secuencia artificial

<220>

<223> secuencia nucleotídica de h2B1_L4

<400> 69

```

atggtgctgc agaccaggt gttcatctcc ctgctgctgt ggatctccgg cgcgtacggc      60
gataccgtga tgaccagag ccctgacagc ctggccgtgt ctctgggaga gagagccacc      120
atcaactgca aggccagcca gagcgtgggc atcaacgtgg actggtatca gcagaagccc      180
ggccagagcc ccaagctgct gatctacggc gccagcaaca gacacaccgg cgtgcccgat      240
agattcagcg gcagcggctt cggcagagac ttcaccctga ccatcagctc cctgcaggcc      300
gaggatgtgg ccgtgtacta ctgtctgcag cacggcagca tccccccac atttggccag      360
ggcaccaagg tggaaatcaa gcgtacggtg gccgccccct ccgtgttcat cttccccccc      420
tccgacgagc agctgaagtc cggcaccgcc tccgtggtgt gcctgctgaa taacttctac      480
cccagagagg ccaaggtgca gtggaagggtg gacaacgccc tgcagtccgg gaactcccag      540
gagagcgtga ccgagcagga cagcaaggac agcacctaca gcctgagcag caccctgacc      600
ctgagcaaag ccgactacga gaagcacaag gtgtacgcct gcgaggtgac ccaccagggc      660
ctgagctccc ccgtcaccaa gagcttcaac aggggggagt gt                          702

```

<210> SEQ ID NO: 70

<211> 234

<212> PRT

<213> Secuencia artificial

<220>

<223> secuencia de aminoácidos de h2B1_L4

<400> 70

Met Val Leu Gln Thr Gln Val Phe Ile Ser Leu Leu Leu Trp Ile Ser
 1 5 10 15

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

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

Val Gly Ile Asn Val Asp Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro
 50 55 60

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

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

Ser Leu Gln Ala Glu Asp Val Ala Val Tyr Tyr Cys Leu Gln His Gly
 100 105 110

Ser Ile Pro Pro Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg
 115 120 125

Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln
 130 135 140

Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr
 145 150 155 160

Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser
 165 170 175

Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr
 180 185 190

Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys
 195 200 205

His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro
 210 215 220

Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
 225 230

<210> SEQ ID NO: 71

<211> 702

<212> ADN

<213> Secuencia artificial

<220>

<223> secuencia nucleotídica de h2B1_L5

<400> 71

atggtgctgc agaccaggt gttcatctcc ctgctgctgt ggatctccgg cgcgtacggc	60
gccaccagaa tgacacagag ccccagcagc ttcagcgcca gcaccggcga cagagtgacc	120
atcacatgca aggccagcca gagcgtgggc atcaacgtgg actggtatca gcagaagccc	180
ggcaagagcc ccaagctgct gatctacggc gcctccaaca gacacaccgg cgtgcccagc	240
agattttccg gcagcggctt cggcagagac ttcaccctga ccatcagcag cctgcagagc	300
gaggacttcg ccacctacta ctgcctgcag cacggcagca tccccctac atttggcgga	360
ggcaccaagg tggaatcaa gcgtacgggtg gccgccccct ccgtgttcat cttccccccc	420
tccgacgagc agctgaagtc cggcaccgcc tccgtggtgt gcctgctgaa taacttctac	480
cccagagagg ccaaggtgca gtggaagggtg gacaacgccc tgcagtccgg gaactcccag	540
gagagcgtga ccgagcagga cagcaaggac agcacctaca gcctgagcag caccctgacc	600
ctgagcaaag ccgactacga gaagcacaag gtgtacgcct gcgaggtgac ccaccagggc	660
ctgagctccc ccgtcaccaa gagcttcaac aggggggagt gt	702

<210> SEQ ID NO: 72

<211> 234

<212> PRT

<213> Secuencia artificial

<220>

<223> secuencia de aminoácidos de h2B1_L5

<400> 72

Met Val Leu Gln Thr Gln Val Phe Ile Ser Leu Leu Leu Trp Ile Ser
 1 5 10 15

Gly Ala Tyr Gly Ala Thr Arg Met Thr Gln Ser Pro Ser Ser Phe Ser
 20 25 30

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

Val Gly Ile Asn Val Asp Trp Tyr Gln Gln Lys Pro Gly Lys Ser Pro
 50 55 60

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

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

Ser Leu Gln Ser Glu Asp Phe Ala Thr Tyr Tyr Cys Leu Gln His Gly
 100 105 110

Ser Ile Pro Pro Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys Arg
 115 120 125

Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln
 130 135 140

Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr
 145 150 155 160

Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser
 165 170 175

Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr
 180 185 190

Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys
 195 200 205

His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro
 210 215 220

Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
 225 230

<210> SEQ ID NO: 73

<211> 1416

<212> ADN

<213> Secuencia artificial

<220>

<223> secuencia nucleotídica de h2B1_H1

<400> 73

atgaaacacc tgtggttctt cctcctgctg gtggcagctc ccagatgggt gctgagccag	60
gtgcagctgg tggaatctgg cggcggactc gtgaagccta gccagaccct gagcctgacc	120
tgcaccttca gcggcttcag cctgaacacc tacgacatgg gcgtgggctg gatcagacag	180
cctcctggca agggcctgga atggatcggc aacatttggt gggacgacga caagtactac	240
aaccccagcc tgaagtccag agtgaccatc agcgtggaca ccagcaagaa ccaggcctcc	300
ctgaagctga gcagcgtgac agccgccgat accgccgtgt actactgcgc cagaatcgag	360
acagtgcggg tgtccagaaa gggcttcgcc cactggggac agggcacact cgtgaccgtc	420
agctcagcct ccaccaaggg cccaagcgtc ttccccctgg caccctcctc caagagcacc	480
tctggcggca cagccgccct gggctgcctg gtcaaggact acttccccga acccgtgacc	540
gtgagctgga actcaggcgc cctgaccagc ggcgtgcaca ccttccccgc tgtcctgcag	600
tcctcaggac tctactcctt cagcagcgtg gtgaccgtgc cctccagcag cttgggcacc	660
cagacctaca tctgcaacgt gaatcacaag ccagcaaca ccaaggtgga caagagagtt	720
gagcccaaatt cttgtgacaa aactcacaca tgcccaccct gccagcacc tgaactcctg	780
gggggaccct cagtcttcct cttcccccca aaaccaagg acaccctcat gatctcccgg	840

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accctgagg tcacatgctt ggtggtggac gtgagccacg aagaccctga ggtcaagttc      900
aactggtacg tggacggcgt ggaggtgcat aatgccaaga caaagccccg ggaggagcag      960
tacaacagca cgtaccgggt ggtcagcgtc ctcaccgtcc tgcaccagga ctggctgaat     1020
ggcaaggagt acaagtgcaa ggtctccaac aaagccctcc cagcccccat cgagaaaacc     1080
atctccaaag ccaaaggcca gccccgggaa ccacaggtgt acaccctgcc cccatcccgg     1140
gaggagatga ccaagaacca ggtcagcctg acctgcctgg tcaaaggctt ctatcccagc     1200
gacatcgccg tggagtggga gagcaatggc cagcccgaga acaactacaa gaccaccctt     1260
cccggtgctg actccgacgg ctcttctctt ctctacagca agctcaccgt ggacaagagc     1320
aggtggcagc agggcaacgt cttctcatgc tccgtgatgc atgaggctct gcacaaccac     1380
tacaccaga agagcctctc cctgtctccc ggcaaa                                1416

```

<210> SEQ ID NO: 74

<211> 472

<212> PRT

<213> Secuencia artificial

<220>

<223> secuencia de aminoácidos de h2B1_H1

<400> 74

```

Met Lys His Leu Trp Phe Phe Leu Leu Leu Val Ala Ala Pro Arg Trp
1           5           10           15

```

```

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

```

```

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

```

```

Asn Thr Tyr Asp Met Gly Val Gly Trp Ile Arg Gln Pro Pro Gly Lys
          50           55           60

```

```

Gly Leu Glu Trp Ile Gly Asn Ile Trp Trp Asp Asp Asp Lys Tyr Tyr
65           70           75           80

```

Asn Pro Ser Leu Lys Ser Arg Val Thr Ile Ser Val Asp Thr Ser Lys
85 90 95

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

Val Tyr Tyr Cys Ala Arg Ile Glu Thr Val Arg Val Ser Arg Lys Gly
115 120 125

Phe Ala His Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Ala Ser
130 135 140

Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr
145 150 155 160

Ser Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro
165 170 175

Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val
180 185 190

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

Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile
210 215 220

Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys Arg Val
225 230 235 240

Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala
245 250 255

Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro
260 265 270

Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val
 275 280 285

Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val
 290 295 300

Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln
 305 310 315 320

Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln
 325 330 335

Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala
 340 345 350

Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro
 355 360 365

Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu Met Thr
 370 375 380

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

Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr
 405 410 415

Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr
 420 425 430

Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe
 435 440 445

Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys
 450 455 460

Ser Leu Ser Leu Ser Pro Gly Lys
465 470

<210> SEQ ID NO: 75

<211> 1416

<212> ADN

<213> Secuencia artificial

<220>

<223> secuencia nucleotídica de h2B1_H2

<400> 75

atgaaacacc tgtggttctt cctcctgctg gtggcagctc ccagatgggt gctgagccag	60
gtgcagctgg tggaatctgg cggcggaact gtgaagccta gccagaccct gagcctgacc	120
tgcaccttca gcggcttcag cctgaacacc tacgacatgg gcgtgggctg gatcagacag	180
cctcctggca agggcctgga atggatcggc aacatttggg gggacgacga caagtactac	240
aaccccagcc tgaagtccag agtgaccatc agcaaggaca ccagcaacaa ccaggcctcc	300
ctgaagctga gcagcgtgac agccgccgat accgccgtgt actactgcgc cagaatcgag	360
acagtgcggg tgtccagaaa gggcttcgcc cactggggac agggcacact cgtgaccgtc	420
agctcagcct ccaccaaggg cccaagcgtc ttccccctgg caccctcctc caagagcacc	480
tctggcgga cagccgcctt gggctgcctg gtcaaggact acttccccga acccgtgacc	540
gtgagctgga actcaggcgc cctgaccagc ggcgtgcaca ccttccccgc tgtcctgcag	600
tcctcaggac tctactcctt cagcagcgtg gtgaccgtgc cctccagcag cttgggcacc	660
cagacctaca tctgcaacgt gaatcacaag cccagcaaca ccaaggtgga caagagagtt	720
gagcccaaatt cttgtgacaa aactcacaca tgcccaccct gccagcacc tgaactcctg	780
gggggaccct cagtcttcct cttcccccca aaaccaagg acaccctcat gatctcccgg	840
accctgagg tcacatgcgt ggtggtggac gtgagccacg aagaccctga ggtcaagttc	900
aactggtacg tggacggcgt ggaggtgcat aatgccaaga caaagccccg ggaggagcag	960
tacaacagca cgtaccgggt ggtcagcgtc ctcaccgtcc tgcaccagga ctggctgaat	1020
ggcaaggagt acaagtgcaa ggtctccaac aaagccctcc cagcccccat cgagaaaacc	1080

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atctccaaag ccaaaggcca gccccgggaa ccacaggtgt acaccctgcc cccatcccgg      1140
gaggagatga ccaagaacca ggtcagcctg acctgcctgg tcaaaggctt ctatcccagc      1200
gacatcgccg tggagtggga gagcaatggc cagccccgaga acaactacaa gaccaccctt      1260
cccggtgctgg actccgacgg ctctttcttc ctctacagca agctcaccgt ggacaagagc      1320
aggtggcagc agggcaacgt cttctcatgc tccgtgatgc atgaggctct gcacaaccac      1380
tacaccaga agagcctctc cctgtctccc ggcaaa                                1416

```

<210> SEQ ID NO: 76

<211> 472

<212> PRT

<213> Secuencia artificial

<220>

<223> secuencia de aminoácidos de h2B1_H2

<400> 76

```

Met Lys His Leu Trp Phe Phe Leu Leu Leu Val Ala Ala Pro Arg Trp
1              5              10              15

```

```

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

```

```

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

```

```

Asn Thr Tyr Asp Met Gly Val Gly Trp Ile Arg Gln Pro Pro Gly Lys
50              55              60

```

```

Gly Leu Glu Trp Ile Gly Asn Ile Trp Trp Asp Asp Asp Lys Tyr Tyr
65              70              75              80
Asn Pro Ser Leu Lys Ser Arg Val Thr Ile Ser Lys Asp Thr Ser Asn
85              90              95

```

```

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

```

Val Tyr Tyr Cys Ala Arg Ile Glu Thr Val Arg Val Ser Arg Lys Gly
 115 120 125

Phe Ala His Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Ala Ser
 130 135 140

Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr
 145 150 155 160

Ser Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro
 165 170 175

Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val
 180 185 190

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

Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile
 210 215 220

Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys Arg Val
 225 230 235 240

Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala
 245 250 255

Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro
 260 265 270

Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val
 275 280 285

Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val
 290 295 300

Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln
 305 310 315 320

Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln
 325 330 335

Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala
 340 345 350

Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro
 355 360 365

Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu Met Thr
 370 375 380

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

Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr
 405 410 415

Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr
 420 425 430

Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe
 435 440 445

Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys
 450 455 460

Ser Leu Ser Leu Ser Pro Gly Lys
 465 470

<210> SEQ ID NO: 77

<211> 1416

<212> ADN

<213> Secuencia artificial

<220>

<223> secuencia nucleotídica de h2B1_H3

<400> 77

atgaaacacc tgtggttctt cctcctgctg gtggcagctc ccagatgggt gctgagccag	60
gtgcagctgg tggaatctgg cggcggactc gtgaagccta gccagaccct gagcctgacc	120
tgcaccttca gcggcttcag cctgaacacc tacgacatgg gcgtgggctg gatcagacag	180
cctcctggca agggcctgga atggatcgcc aacatttggt gggacgacga caagtactac	240
aaccccagcc tgaagtccag agtgaccatc agcaaggaca ccagcaacaa ccaggcctcc	300
ctgaagctga gcagcgtgac agccgccgat accgccgtgt actactgcgc cagaatcgag	360
acagtgcggg tgtccagaaa gggcttcgcc cactggggac agggcacact cgtgaccgtc	420
agctcagcct ccaccaaggg cccaagcgtc ttccccctgg caccctcctc caagagcacc	480
tctggcggca cagccgccct gggctgcctg gtcaaggact acttccccga acccgtgacc	540
gtgagctgga actcaggcgc cctgaccagc ggctgcaca ccttccccgc tgtcctgcag	600
tcctcaggac tctactcct cagcagcgtg gtgaccgtgc cctccagcag cttgggcacc	660
cagacctaca tctgcaacgt gaatcacaag cccagcaaca ccaaggtgga caagagagtt	720
gagcccaaat cttgtgacaa aactcacaca tgcccaccct gcccagcacc tgaactcctg	780
gggggaccct cagtcttcct ctcccccca aaaccaagg acaccctcat gatctcccgg	840
accctgagg tcacatgcgt ggtggtggac gtgagccacg aagaccctga ggtcaagttc	900
aactggtacg tggacggcgt ggaggtgcat aatgccaaga caaagccccg ggaggagcag	960
tacaacagca cgtaccgggt ggtcagcgtc ctcaccgtcc tgcaccagga ctggctgaat	1020
ggcaaggagt acaagtgcaa ggtctccaac aaagccctcc cagcccccat cgagaaaacc	1080
atctccaaag ccaaaggcca gccccgggaa ccacaggtgt acaccctgcc cccatcccgg	1140
gaggagatga ccaagaacca ggtcagcctg acctgcctgg tcaaaggctt ctatcccagc	1200
gacatcgccg tggagtggga gagcaatggc cagcccgaga acaactacaa gaccaccct	1260
cccgtgctgg actccgacgg ctcttcttc ctctacagca agctcaccgt ggacaagagc	1320

aggtggcagc agggcaacgt cttctcatgc tccgtgatgc atgaggctct gcacaaccac 1380

tacaccaga agagcctctc cctgtctccc ggcaaa 1416

<210> SEQ ID NO: 78

<211> 472

<212> PRT

<213> Secuencia artificial

<220>

<223> secuencia de aminoácidos de h2B1_H3

<400> 78

Met Lys His Leu Trp Phe Phe Leu Leu Leu Val Ala Ala Pro Arg Trp
1 5 10 15

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

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

Asn Thr Tyr Asp Met Gly Val Gly Trp Ile Arg Gln Pro Pro Gly Lys
50 55 60

Gly Leu Glu Trp Ile Ala Asn Ile Trp Trp Asp Asp Asp Lys Tyr Tyr
65 70 75 80

Asn Pro Ser Leu Lys Ser Arg Val Thr Ile Ser Lys Asp Thr Ser Asn
85 90 95

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

Val Tyr Tyr Cys Ala Arg Ile Glu Thr Val Arg Val Ser Arg Lys Gly
115 120 125

Phe Ala His Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Ala Ser
130 135 140

Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr
 145 150 155 160

Ser Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro
 165 170 175

Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val
 180 185 190

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

Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile
 210 215 220

Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys Arg Val
 225 230 235 240

Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala
 245 250 255

Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro
 260 265 270

Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val
 275 280 285

Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val
 290 295 300

Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln
 305 310 315 320

Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln
 325 330 335

Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala
 340 345 350

Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro
 355 360 365

Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu Met Thr
 370 375 380

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

Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr
 405 410 415

Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr
 420 425 430

Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe
 435 440 445

Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys
 450 455 460

Ser Leu Ser Leu Ser Pro Gly Lys
 465 470

<210> SEQ ID NO: 79

<211> 1416

<212> ADN

<213> Secuencia artificial

<220>

<223> secuencia nucleotídica de h2B1_H4

<400> 79

atgaaacacc tgtggttctt cctcctgctg gtggcagctc ccagatgggt gctgagccaa 60

gtgaccctga aagagtccgg ccctgccctc gtgaagccta cccagaccct gacactgacc 120

tgcacettca gcggtttcag cctgaacacc tacgacatgg gcggtgggctg gatcagacag	180
cctcctggca agggcctgga atggctggcc aacatttggt gggacgacga caagtactac	240
agccccagcc tgaagtcccg gctgaccatc accaaggaca ccagcaacaa ccaggccgtg	300
ctgaccatga caaacatgga ccccgaggac accgccacct actactgctc cagaatcgag	360
acagtgcggg tgtccagaaa gggcttcgcc cactggggac agggcacact cgtgaccgtc	420
agctcagcct ccaccaaggg cccaagcgtc ttccccctgg caccctcctc caagagcacc	480
tctggcggca cagccgcctt gggctgcctg gtcaaggact acttccccga acccgtgacc	540
gtgagctgga actcaggcgc cctgaccagc ggcgtgcaca ccttccccgc tgtcctgcag	600
tcctcaggac tctactccct cagcagcgtg gtgaccgtgc cctccagcag cttgggcacc	660
cagacctaca tctgcaacgt gaatcacaag ccagcaaca ccaaggtgga caagagagtt	720
gagcccaaat cttgtgacaa aactcacaca tgcccaccct gccagcacc tgaactcctg	780
gggggaccct cagtcttctt cttcccccca aaaccaagg acaccctcat gatctcccgg	840
accctgagg tcacatgctt ggtggtggac gtgagccacg aagaccctga ggtcaagttc	900
aactggtacg tggacggcgt ggaggtgcat aatgccaaga caaagccccg ggaggagcag	960
tacaacagca cgtaccgggt ggtcagcgtc ctaccgtcc tgcaccagga ctggctgaat	1020
ggcaaggagt acaagtgcaa ggtctccaac aaagccctcc cagcccccat cgagaaaacc	1080
atctccaaag ccaaaggcca gccccgggaa ccacaggtgt acaccctgcc cccatcccgg	1140
gaggagatga ccaagaacca ggtcagcctg acctgcctgg tcaaaggctt ctatcccagc	1200
gacatgcctg tggagtggga gagcaatggc cagcccgaga acaactacaa gaccaccctt	1260
cccgctgtgg actccgacgg ctcttctctt ctctacagca agctcaccgt ggacaagagc	1320
aggtggcagc agggcaacgt cttctcatgc tccgtgatgc atgaggctct gcacaaccac	1380
tacaccaga agagcctctt cctgtctccc ggcaaa	1416

<210> SEQ ID NO: 80

<211> 472

<212> PRT

<213> Secuencia artificial

<220>

<223> secuencia de aminoácidos de h2B1_H4

<400> 80

Met	Lys	His	Leu	Trp	Phe	Phe	Leu	Leu	Leu	Val	Ala	Ala	Pro	Arg	Trp
1				5					10					15	

Val	Leu	Ser	Gln	Val	Thr	Leu	Lys	Glu	Ser	Gly	Pro	Ala	Leu	Val	Lys
			20					25					30		

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

Asn	Thr	Tyr	Asp	Met	Gly	Val	Gly	Trp	Ile	Arg	Gln	Pro	Pro	Gly	Lys
	50					55					60				

Gly	Leu	Glu	Trp	Leu	Ala	Asn	Ile	Trp	Trp	Asp	Asp	Asp	Lys	Tyr	Tyr
65					70					75					80

Ser	Pro	Ser	Leu	Lys	Ser	Arg	Leu	Thr	Ile	Thr	Lys	Asp	Thr	Ser	Asn
				85					90					95	

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

Thr	Tyr	Tyr	Cys	Ala	Arg	Ile	Glu	Thr	Val	Arg	Val	Ser	Arg	Lys	Gly
		115					120					125			

Phe	Ala	His	Trp	Gly	Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser	Ala	Ser
	130					135					140				

Thr	Lys	Gly	Pro	Ser	Val	Phe	Pro	Leu	Ala	Pro	Ser	Ser	Lys	Ser	Thr
145					150				155						160

Ser	Gly	Gly	Thr	Ala	Ala	Leu	Gly	Cys	Leu	Val	Lys	Asp	Tyr	Phe	Pro
				165					170					175	

Glu	Pro	Val	Thr	Val	Ser	Trp	Asn	Ser	Gly	Ala	Leu	Thr	Ser	Gly	Val
			180					185						190	

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

Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile
 210 215 220

Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys Arg Val
 225 230 235 240

Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala
 245 250 255

Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro
 260 265 270

Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val
 275 280 285

Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val
 290 295 300

Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln
 305 310 315 320

Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln
 325 330 335

Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala
 340 345 350

Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro
 355 360 365

Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu Met Thr
 370 375 380

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

Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr
 405 410 415

Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr
 420 425 430

Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe
 435 440 445

Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys
 450 455 460

Ser Leu Ser Leu Ser Pro Gly Lys
 465 470

<210> SEQ ID NO: 81

<211> 699

<212> ADN

<213> Secuencia artificial

<220>

<223> secuencia nucleotídica de h7B4_L1

<400> 81

atggtgctgc agaccaggt gttcatctcc ctgctgctgt ggatctccgg cgcgtacggc 60

gagatcgtgc tgacacagag ccctggcacc ctgagcctgt ctccaggcga aagagccacc 120

ctgtcctgca aggccagcca gaacatcaac aagtacctgg actggtatca gcagaagccc 180

ggccagcccc ccagactgct gatctacaac accaacaacc tgcacaccgg catccccgac 240

agattcagcg gctctggcag cggcaccgac tacaccctga ccatcagcag actggaaccc 300

gaggacttcg ccgtgtacta ctgcctgcag cggaacagct ggtacacctt cggccagggc 360

accaaggtgg aaatcaagcg tacggtggcc gccccctccg tgttcatctt cccccctcc 420

gacgagcagc tgaagtccgg caccgcctcc gtggtgtgcc tgctgaataa cttctacccc 480

```

agagaggcca aggtgcagtg gaaggtggac aacgccctgc agtccgggaa ctcccaggag      540
agcgtgaccg agcaggacag caaggacagc acctacagcc tgagcagcac cctgaccctg      600
agcaaagccg actacgagaa gcacaaggtg tacgcctgcg aggtgaccca ccagggcctg      660
agctcccccg tcaccaagag cttcaacagg ggggagtgt                               699

```

<210> SEQ ID NO: 82

<211> 233

<212> PRT

<213> Secuencia artificial

<220>

<223> secuencia de aminoácidos de h7B4_L1

<400> 82

```

Met Val Leu Gln Thr Gln Val Phe Ile Ser Leu Leu Leu Trp Ile Ser
1              5              10              15

```

```

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

```

```

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

```

```

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

```

```

Arg Leu Leu Ile Tyr Asn Thr Asn Asn Leu His Thr Gly Ile Pro Asp
65              70              75              80

```

```

Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Tyr Thr Leu Thr Ile Ser
85              90              95

```

```

Arg Leu Glu Pro Glu Asp Phe Ala Val Tyr Tyr Cys Leu Gln Arg Asn
100              105              110

```

```

Ser Trp Tyr Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg Thr
115              120              125

```

Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu
 130 135 140

Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro
 145 150 155 160

Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly
 165 170 175

Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr
 180 185 190

Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys His
 195 200 205

Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro Val
 210 215 220

Thr Lys Ser Phe Asn Arg Gly Glu Cys
 225 230

<210> SEQ ID NO: 83

<211> 699

<212> ADN

<213> Secuencia artificial

<220>

<223> secuencia nucleotídica de h7B4_L2

<400> 83

atggtgctgc agaccaggt gttcatctcc ctgctgctgt ggatctccg cgcgtacggc 60

gacatccaga tgaccagag ccctagcagc ctgagcctgt cccctggcga aagagccacc 120

ctgagctgca aggccagcca gaacatcaac aagtacctgg actggtatca gcagaagccc 180

ggccagcccc ccagactgct gatctacaac accaacaacc tgcacaccg catccccgac 240

agattcagcg gctctggcag cggcaccgac tacaccctga ccatcagcag actggaaccc 300

gaggacttcg ccgtgtacta ctgcctgcag cggaacagct ggtacacctt cggccagggc 360

```

accaaggtgg aaatcaagcg tacggtggcc gccccctccg tgttcatctt cccccctcc 420
gacgagcagc tgaagtccgg caccgcctcc gtggtgtgcc tgctgaataa cttctacccc 480
agagaggcca aggtgcagtg gaaggtggac aacgccctgc agtccgggaa ctcccaggag 540
agcgtgaccg agcaggacag caaggacagc acctacagcc tgagcagcac cctgaccctg 600
agcaaagccg actacgagaa gcacaaggtg tacgcctgcg aggtgaccca ccagggcctg 660
agctcccccg tcaccaagag cttcaacagg ggggagtgt 699

```

<210> SEQ ID NO: 84

<211> 233

<212> PRT

<213> Secuencia artificial

<220>

<223> secuencia de aminoácidos de h7B4_L2

<400> 84

```

Met Val Leu Gln Thr Gln Val Phe Ile Ser Leu Leu Leu Trp Ile Ser
1              5              10              15

```

```

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

```

```

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

```

```

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

```

```

Arg Leu Leu Ile Tyr Asn Thr Asn Asn Leu His Thr Gly Ile Pro Asp
65              70              75              80

```

```

Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Tyr Thr Leu Thr Ile Ser
85              90              95

```

```

Arg Leu Glu Pro Glu Asp Phe Ala Val Tyr Tyr Cys Leu Gln Arg Asn
100             105             110

```

Ser Trp Tyr Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg Thr
 115 120 125

Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu
 130 135 140

Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro
 145 150 155 160

Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly
 165 170 175

Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr
 180 185 190

Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys His
 195 200 205

Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro Val
 210 215 220

Thr Lys Ser Phe Asn Arg Gly Glu Cys
 225 230

<210> SEQ ID NO: 85

<211> 1416

<212> ADN

<213> Secuencia artificial

<220>

<223> secuencia nucleotídica de h7B4_H1

<400> 85

atgaaacacc tgtggttctt cctcctgctg gtggcagctc ccagatgggt gctgagccag 60

gtgcagctgc aggaatctgg ccttggcctc gtgaagccta gccagaccct gagcctgacc 120

tgtaccgtgt ccggctacac catcaccagc ggctacgact ggtcctggat cagacagcct 180

cctggcaagg gcctggaatg gatcgcttac atgagctacc ggggcagcac caactacaac 240

```

cccagcctga agtccagagt gaccatcagc cgggacacca gcaagaacca gttctccctg      300
aagctgagca gcgtgacagc cgccgatacc gccgtgtact actgcgccct gacccgacc      360
tactggtaca actactacta cgtgctggac gcctggggcc agggcacact cgtgaccgtc      420
agctcagcct ccaccaaggg cccaagcgtc ttccccctgg caccctcctc caagagcacc      480
tctggcggca cagccgccct gggctgcctg gtcaaggact acttccccga acccgtgacc      540
gtgagctgga actcaggcgc cctgaccagc ggctgcaca ccttccccgc tgtcctgcag      600
tcctcaggac tctactcctc cagcagcgtg gtgaccgtgc cctccagcag cttgggcacc      660
cagacctaca tctgcaacgt gaatcacaag ccagcaaca ccaaggtgga caagagagtt      720
gagcccaaat cttgtgacaa aactcacaca tgcccaccct gcccagcacc tgaactcctg      780
gggggaccct cagtcttctt cttcccccca aaaccaagg acaccctcat gatctcccg      840
accctgagg tcacatgcgt ggtggtggac gtgagccacg aagaccctga ggtcaagttc      900
aactggtacg tggacggcgt ggaggtgcat aatgccaaga caaagccccg ggaggagcag      960
tacaacagca cgtaccgggt ggtcagcgtc ctcaccgtcc tgcaccagga ctggctgaat     1020
ggcaaggagt acaagtgcaa ggtctccaac aaagccctcc cagcccccat cgagaaaacc     1080
atctccaaag ccaaaggcca gccccgggaa ccacaggtgt acaccctgcc cccatcccg      1140
gaggagatga ccaagaacca ggtcagcctg acctgcctgg tcaaaggctt ctatccagc     1200
gacatcgccg tggagtggga gagcaatggc cagcccgaga acaactacaa gaccaccct      1260
cccgtgctgg actccgacgg ctcttcttct ctctacagca agctcaccgt ggacaagagc     1320
aggtggcagc agggcaacgt cttctcatgc tccgtgatgc atgaggctct gcacaaccac     1380
tacaccaga agagcctctc cctgtctccc ggcaaa                                1416

```

<210> SEQ ID NO: 86

<211> 472

<212> PRT

<213> Secuencia artificial

<220>

<223> secuencia de aminoácidos de h7B4_H1

<400> 86

Met	Lys	His	Leu	Trp	Phe	Phe	Leu	Leu	Leu	Val	Ala	Ala	Pro	Arg	Trp
1			5						10					15	

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

Pro	Ser	Gln	Thr	Leu	Ser	Leu	Thr	Cys	Thr	Val	Ser	Gly	Tyr	Thr	Ile
		35					40					45			

Thr	Ser	Gly	Tyr	Asp	Trp	Ser	Trp	Ile	Arg	Gln	Pro	Pro	Gly	Lys	Gly
	50					55					60				

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

Pro	Ser	Leu	Lys	Ser	Arg	Val	Thr	Ile	Ser	Arg	Asp	Thr	Ser	Lys	Asn
				85					90					95	

Gln	Phe	Ser	Leu	Lys	Leu	Ser	Ser	Val	Thr	Ala	Ala	Asp	Thr	Ala	Val
			100					105					110		

Tyr	Tyr	Cys	Ala	Leu	Thr	Arg	Thr	Tyr	Trp	Tyr	Asn	Tyr	Tyr	Tyr	Val
		115					120					125			

Leu	Asp	Ala	Trp	Gly	Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser	Ala	Ser
	130						135				140				

Thr	Lys	Gly	Pro	Ser	Val	Phe	Pro	Leu	Ala	Pro	Ser	Ser	Lys	Ser	Thr
145					150					155					160

Ser	Gly	Gly	Thr	Ala	Ala	Leu	Gly	Cys	Leu	Val	Lys	Asp	Tyr	Phe	Pro
				165					170					175	

Glu	Pro	Val	Thr	Val	Ser	Trp	Asn	Ser	Gly	Ala	Leu	Thr	Ser	Gly	Val
			180					185						190	

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

Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile
 210 215 220

Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys Arg Val
 225 230 235 240

Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala
 245 250 255

Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro
 260 265 270

Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val
 275 280 285

Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val
 290 295 300

Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln
 305 310 315 320

Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln
 325 330 335

Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala
 340 345 350

Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro
 355 360 365

Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu Met Thr
 370 375 380

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

Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr
405 410 415

Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr
420 425 430

Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe
435 440 445

Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys
450 455 460

Ser Leu Ser Leu Ser Pro Gly Lys
465 470

<210> SEQ ID NO: 87

<211> 1416

<212> ADN

<213> Secuencia artificial

<220>

<223> secuencia nucleotídica de h7B4_H2

<400> 87

atgaaacacc tgtggttctt cctcctgctg gtggcagctc ccagatgggt gctgagcgag	60
atccagctgc aggaatctgg ccctggcctc gtgaagccta gccagaccct gagcctgacc	120
tgtaccgtgt ccggctacac catcaccagc ggctacgact ggtcctggat cagacagcct	180
cctggcaagg gcctggaatg gatcggctac atgagctacc ggggcagcac caactacaac	240
cccagcctga agtccagagt gaccatcagc cgggacacca gcaagaacca gttctccttg	300
aagctgagca gcgtgacagc cgccgatacc gccgtgtact actgcgccct gaccgcggacc	360
tactggtaca actactacta cgtgctggac gcctggggcc agggcacact cgtgaccgtc	420
agctcagcct ccaccaaggg cccaagcgtc ttccccttg caccctcctc caagagcacc	480

```

tctggcggca cagccgccct gggctgcctg gtcaaggact acttccccga acccgtgacc      540
gtgagctgga actcaggcgc cctgaccagc ggcgtgcaca ccttccccgc tgtcctgcag      600
tcctcaggac tctactccct cagcagcgtg gtgaccgtgc cctccagcag cttgggcacc      660
cagacctaca tctgcaacgt gaatcacaag cccagcaaca ccaaggtgga caagagagtt      720
gagcccaaat cttgtgacaa aactcacaca tgcccaccct gcccagcacc tgaactcctg      780
gggggaccct cagtcttcct cttcccccca aaaccaagg acaccctcat gatctcccgg      840
accctgagg tcacatgcgt ggtggtggac gtgagccacg aagaccctga ggtcaagttc      900
aactggtacg tggacggcgt ggaggtgcat aatgccaaga caaagccccg ggaggagcag      960
tacaacagca cgtaccgggt ggtcagcgtc ctcaccgtcc tgcaccagga ctggctgaat     1020
ggcaaggagt acaagtgcaa ggtctccaac aaagccctcc cagcccccat cgagaaaacc     1080
atctccaaag ccaaaggcca gccccgggaa ccacaggtgt acaccctgcc cccatcccgg     1140
gaggagatga ccaagaacca ggtcagcctg acctgcctgg tcaaaggctt ctatcccagc     1200
gacatcgccg tggagtggga gagcaatggc cagcccgaga acaactacaa gaccaccct      1260
cccgctgctg actccgacgg ctcttcttct ctctacagca agctcaccgt ggacaagagc     1320
aggtggcagc agggcaacgt cttctcatgc tccgtgatgc atgaggctct gcacaaccac     1380
tacaccaga agagcctctc cctgtctccc ggcaaa                                1416

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<210> SEQ ID NO: 88

<211> 472

<212> PRT

<213> Secuencia artificial

<220>

<223> secuencia de aminoácidos de h7B4_H2

<400> 88

```

Met Lys His Leu Trp Phe Phe Leu Leu Leu Val Ala Ala Pro Arg Trp
1           5           10           15

```

```

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

```

Pro Ser Gln Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Tyr Thr Ile
 35 40 45

Thr Ser Gly Tyr Asp Trp Ser Trp Ile Arg Gln Pro Pro Gly Lys Gly
 50 55 60

Leu Glu Trp Ile Gly Tyr Met Ser Tyr Arg Gly Ser Thr Asn Tyr Asn
 65 70 75 80

Pro Ser Leu Lys Ser Arg Val Thr Ile Ser Arg Asp Thr Ser Lys Asn
 85 90 95

Gln Phe Ser Leu Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val
 100 105 110

Tyr Tyr Cys Ala Leu Thr Arg Thr Tyr Trp Tyr Asn Tyr Tyr Tyr Val
 115 120 125

Leu Asp Ala Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Ala Ser
 130 135 140

Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr
 145 150 155 160

Ser Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro
 165 170 175

Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val
 180 185 190

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

Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile
 210 215 220

Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys Arg Val
 225 230 235 240

Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe
 435 440 445

Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys
 450 455 460

Ser Leu Ser Leu Ser Pro Gly Lys
 465 470

<210> SEQ ID NO: 89

<211> 1416

<212> ADN

<213> Secuencia artificial

<220>

<223> secuencia nucleotídica de h7B4_H3

<400> 89

atgaaacacc tgtggttctt cctcctgctg gtggcagctc ccagatgggt gctgagcgag	60
atccagctgc aggaatctgg ccctggcctc gtgaagccta gccagaccct gagcctgacc	120
tgtaccgtgt ccggctacac catcaccagc ggctacgact ggtcctggat cagacagcct	180
cctggcaagg gcctggaatg gatcgccctac atgagctacc ggggcagcac caactacaac	240
cccagcctga agtccagagt gaccatcagc cgggacacca gcaagaacca gttctccctg	300
aagctgagca gcgtgacagc cgccgatacc gccgtgtact actgcgccct gacccggacc	360
tactggtaca actactacta cgtgctggac gcctggggcc agggcacact cgtgaccgtc	420
agctcagcct ccaccaaggg cccaagcgtc ttccccctgg caccctcctc caagagcacc	480
tctggcggca cagccgccct gggctgcctg gtcaaggact acttccccga acccgtgacc	540
gtgagctgga actcaggcgc cctgaccagc ggcgtgcaca ccttccccgc tgtcctgcag	600
tcctcaggac tctactcctt cagcagcgtg gtgaccgtgc cctccagcag cttgggcacc	660
cagacctaca tctgcaacgt gaatcacaag ccagcaaca ccaagggtga caagagagtt	720
gagcccaaatt cttgtgacaa aactcacaca tgcccaccct gccagcacc tgaactcctg	780
gggggaccct cagtcttcct cttcccccca aaaccaagg acaccctcat gatctcccgg	840

```

accctgagg tcacatgcgt ggtggtggac gtgagccacg aagaccctga ggtcaagttc      900
aactggtacg tggacggcgt ggaggtgcat aatgccaaga caaagccccg ggaggagcag      960
tacaacagca cgtaccgggt ggtcagcgtc ctcaccgtcc tgcaccagga ctggctgaat    1020
ggcaaggagt acaagtgcaa ggtctccaac aaagccctcc cagcccccat cgagaaaacc    1080
atctccaaag ccaaaggcca gccccgggaa ccacaggtgt acaccctgcc cccatcccgg    1140
gaggagatga ccaagaacca ggtcagcctg acctgcctgg tcaaaggctt ctatcccagc    1200
gacatcgccg tggagtggga gagcaatggc cagcccgaga acaactacaa gaccaccct      1260
cccgtgctgg actccgacgg ctcttcttct ctctacagca agctcaccgt ggacaagagc    1320
aggtggcagc agggcaacgt cttctcatgc tccgtgatgc atgaggctct gcacaaccac    1380
tacaccaga agagcctctc cctgtctccc ggcaaa                                1416

```

<210> SEQ ID NO: 90

<211> 472

<212> PRT

<213> Secuencia artificial

<220>

<223> secuencia de aminoácidos de h7B4_H3

<400> 90

```

Met Lys His Leu Trp Phe Phe Leu Leu Leu Val Ala Ala Pro Arg Trp
1              5              10              15

```

```

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

```

```

Pro Ser Gln Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Tyr Thr Ile
          35              40              45

```

```

Thr Ser Gly Tyr Asp Trp Ser Trp Ile Arg Gln Pro Pro Gly Lys Gly
          50              55              60

```

```

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

```

Pro Ser Leu Lys Ser Arg Val Thr Ile Ser Arg Asp Thr Ser Lys Asn
85 90 95

Gln Phe Ser Leu Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val
100 105 110

Tyr Tyr Cys Ala Leu Thr Arg Thr Tyr Trp Tyr Asn Tyr Tyr Tyr Val
115 120 125

Leu Asp Ala Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Ala Ser
130 135 140

Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr
145 150 155 160

Ser Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro
165 170 175

Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val
180 185 190

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

Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile
210 215 220

Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys Arg Val
225 230 235 240

Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala
245 250 255

Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro
260 265 270

Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val
 275 280 285

Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val
 290 295 300

Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln
 305 310 315 320

Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln
 325 330 335

Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala
 340 345 350

Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro
 355 360 365

Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu Met Thr
 370 375 380

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

Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr
 405 410 415

Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr
 420 425 430

Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe
 435 440 445

Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys
 450 455 460

Ser Leu Ser Leu Ser Pro Gly Lys
465 470

<210> SEQ ID NO: 91

<211> 1416

<212> ADN

<213> Secuencia artificial

<220>

<223> secuencia nucleotídica de h7B4_H5

<400> 91

atgaaacacc tgtggttctt cctcctgctg gtggcagctc ccagatgggt gctgagcgag	60
atccagctgc aggaatctgg ccctggcctc gtgaagccta gccagaccct gagcctgacc	120
tgtaccgtgt ccggctacac catcaccagc ggctacgact ggtcctggat cagaaagccc	180
cctggcaaca agatggaatg gatcgcttac atgagctacc ggggcagcac caactacaac	240
cccagcctga agtccagagt gaccatcagc cgggacacca gcaagaacca gttctccctg	300
aagctgagca gcgtgacagc cgccgatacc gccgtgtact actgcgccct gaccgagacc	360
tactggtaca actactacta cgtgctggac gcctggggcc agggcacact cgtgaccgtc	420
agctcagcct ccaccaaggg cccaagcgtc ttccccctgg caccctcctc caagagcacc	480
tctggcgcca cagccgccct gggctgcctg gtcaaggact acttccccga acccgtgacc	540
gtgagctgga actcaggcgc cctgaccagc ggctgtcaca ccttccccgc tgtcctgcag	600
tcctcaggac tctactcctt cagcagcgtg gtgaccgtgc cctccagcag cttgggcacc	660
cagacctaca tctgcaacgt gaatcacaag ccagcaaca ccaaggtgga caagagagtt	720
gagcccaaatt cttgtgacaa aactcacaca tgcccaccct gccagcacc tgaactcctg	780
gggggaccct cagtcttcct cttcccccca aaaccaagg acaccctcat gatctcccg	840
accctgagg tcacatgcgt ggtggtggac gtgagccacg aagaccctga ggtcaagttc	900
aactggtacg tggacggcgt ggaggtgcat aatgccaaga caaagccccg ggaggagcag	960
tacaacagca cgtaccgggt ggtcagcgtc ctcaccgtcc tgcaccagga ctggctgaat	1020
ggcaaggagt acaagtgcaa ggtctccaac aaagccctcc cagcccccat cgagaaaacc	1080

```

atctccaaag ccaaaggcca gccccgggaa ccacaggtgt acaccctgcc cccatcccgg      1140
gaggagatga ccaagaacca ggtcagcctg acctgcctgg tcaaaggctt ctatcccagc      1200
gacatcgccg tggagtggga gagcaatggc cagccccgaga acaactacaa gaccaccct      1260
cccggtgctgg actccgacgg ctctttcttc ctctacagca agctcaccgt ggacaagagc      1320
aggtggcagc agggcaacgt cttctcatgc tccgtgatgc atgaggctct gcacaaccac      1380
tacaccaga agagcctctc cctgtctccc ggcaaa                                1416

```

<210> SEQ ID NO: 92

<211> 472

<212> PRT

<213> Secuencia artificial

<220>

<223> secuencia de aminoácidos de h7B4_H5

<400> 92

```

Met Lys His Leu Trp Phe Phe Leu Leu Leu Val Ala Ala Pro Arg Trp
1              5              10              15

```

```

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

```

```

Pro Ser Gln Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Tyr Thr Ile
          35              40              45

```

```

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

```

```

Met Glu Trp Ile Ala Tyr Met Ser Tyr Arg Gly Ser Thr Asn Tyr Asn
65              70              75              80

```

```

Pro Ser Leu Lys Ser Arg Val Thr Ile Ser Arg Asp Thr Ser Lys Asn
          85              90              95

```

```

Gln Phe Ser Leu Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val
          100              105              110

```

Tyr Tyr Cys Ala Leu Thr Arg Thr Tyr Trp Tyr Asn Tyr Tyr Tyr Val
 115 120 125

Leu Asp Ala Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Ala Ser
 130 135 140

Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr
 145 150 155 160

Ser Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro
 165 170 175

Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val
 180 185 190

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

Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile
 210 215 220

Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys Arg Val
 225 230 235 240

Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala
 245 250 255

Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro
 260 265 270

Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val
 275 280 285

Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val
 290 295 300

Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln
 305 310 315 320

Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln
 325 330 335

Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala
 340 345 350

Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro
 355 360 365

Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu Met Thr
 370 375 380

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

Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr
 405 410 415

Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr
 420 425 430

Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe
 435 440 445

Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys
 450 455 460

Ser Leu Ser Leu Ser Pro Gly Lys
 465 470

<210> SEQ ID NO: 93

<211> 28

<212> PRT

<213> Secuencia artificial

<220>
 <223> polypeptide encoding N-terminal sequence of cynomologous GPRC5D

<220>
 <221> misc_feature
 <222> (28)..(28)
 <223> 28 X es lisina biotinilada

<400> 93

Met Tyr Lys Asp Cys Ile Glu Ser Thr Gly Asp Tyr Phe Leu Pro Cys
 1 5 10 15

Asp Ser Glu Gly Pro Trp Gly Ile Val Leu Glu Xaa
 20 25

<210> SEQ ID NO: 94
 <211> 26
 <212> ADN
 <213> Secuencia artificial

<220>
 <223> cebador A usado para el análisis de la secuencia de scFv

<400> 94
 ctcttcgcta ttacgccagc tggcga 26

<210> SEQ ID NO: 95
 <211> 30
 <212> ADN
 <213> Secuencia artificial

<220>
 <223> cebador B usado para el análisis de secuencia de scFv

<400> 95
 ataacaattt cacacaggaa acagctatga 30

<210> SEQ ID NO: 96
 <211> 345
 <212> ADN
 <213> Secuencia artificial

<220>

<223> secuencia nucleotídica de C2037 VH

<400> 96

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caggtgcagc tgggtgcagtc tggggctgag gtgaagaagc ctggggcctc agtgaaggtc      60
tcctgcaagg cttctggata caccttcacc ggctactata tgcactgggt gcgacaggcc      120
cctggacaag ggcttgagtg gatgggacgg atcaacccta acagtgggtg cacaactat      180
gcacagaagt ttcagggcag ggtcaccatg accagggaca cgtccatcag cacagcctac      240
atggagctga gcaggctgag atctgacgac acggccgtgt attactgtgc gagtgggaag      300
agtaactacc cctggggcca gggaaccctg gtcaccgtct cctca                        345

```

<210> SEQ ID NO: 97

<211> 115

<212> PRT

<213> Secuencia artificial

<220>

<223> secuencia de aminoácidos de C2037 VH

<400> 97

```

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 Gly Tyr
          20          25          30

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

Gly Arg Ile Asn Pro Asn Ser Gly Gly Thr Asn Tyr Ala Gln Lys Phe
50          55          60

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

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

```

Ala Ser Gly Lys Ser Asn Tyr Pro Trp Gly Gln Gly Thr Leu Val Thr
 100 105 110

Val Ser Ser
 115

<210> SEQ ID NO: 98

<211> 330

<212> ADN

<213> Secuencia artificial

<220>

<223> secuencia nucleotídica de C2037 VL

<400> 98

cagcctgtgc tgactcagcc accctcagcg tctgggaccc ccgggcagag ggtcaccatc	60
tcttgttctg gaagcaactc caacatcggc agtagaactg tgaattggta ccagcacctc	120
ccaggaacgg cccccagact cctcatctat ggtaataatc agtggccctc aggggtccct	180
gaccgattct ctggctctaa gtctggctcc tcagcctccc tggccatcag tgggctccgg	240
tccgaggatg aggctgatta ttactgtgca gcatgggatg acagcctgag tgggtgtgga	300
ttcggcggag ggaccaagct gaccgtccta	330

<210> SEQ ID NO: 99

<211> 110

<212> PRT

<213> Secuencia artificial

<220>

<223> secuencia de aminoácidos de C2037 VL

<400> 99

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

Arg Val Thr Ile Ser Cys Ser Gly Ser Asn Ser Asn Ile Gly Ser Arg
 20 25 30

Thr Val Asn Trp Tyr Gln His Leu Pro Gly Thr Ala Pro Arg Leu Leu
 35 40 45

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

Gly Ser Lys Ser Gly Ser Ser Ala Ser Leu Ala Ile Ser Gly Leu Arg
 65 70 75 80

Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ala Trp Asp Asp Ser Leu
 85 90 95

Ser Gly Val Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
 100 105 110

<210> SEQ ID NO: 100

<211> 369

<212> ADN

<213> Secuencia artificial

<220>

<223> secuencia nucleotídica de C3048 VH

<400> 100

caggtgcagc tgggtgcagtc tggggctgag gtgaagaagc ctgggtcctc ggtgaaggtc 60
 tcctgcaagg cttctggagg caccttcagc aggtatgcta tcagctgggt gcgacaggcc 120
 cctggacaag ggcttgagtg gatgggaggg atcatcccta tctttggaac agcaaactac 180
 gcacagaagt tccagggcag agtcacaatt accgcggacc aatccacgag aacagcctac 240
 atggacctgg gcagactgag atctgaggac acggccgtgt attattgtgc tctcgaggga 300
 ttcagggact cattaaaacg aaatcctttt gatatctggg gccaaaggac aatggtcacc 360
 gtctcttca 369

<210> SEQ ID NO: 101

<211> 123

<212> PRT

<213> Secuencia artificial

<220>

<223> secuencia de aminoácidos de C3048 VH

<400> 101

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

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

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

Gly Gly Ile Ile Pro Ile Phe Gly Thr Ala Asn Tyr Ala Gln Lys Phe
 50 55 60

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

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

Ala Leu Glu Gly Phe Arg Asp Ser Leu Lys Arg Asn Pro Phe Asp Ile
 100 105 110

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

<210> SEQ ID NO: 102

<211> 330

<212> ADN

<213> Secuencia artificial

<220>

<223> secuencia nucleotídica de C3048 VL

<400> 102

cagtctgtcg tgacgcagcc gccctcagtg tctgcggccc caggacagaa ggtcaccatc

60

```

tcctgctctg gaggcaccac caacattggg agtaattatg tatectggta tcagcagctc      120
ccaggaacag cccccaatt cctcatgtat gaaaataata agcgaccctc aggcattcct      180
gaccgattct ctggctccaa gtctggcacg tcagccaccc tggccatcac cggactccag      240
actggggacg aggccactta ttactgctca acatgggata gcagcctgaa tactgggcta      300
ttcggcggag ggaccaagct gaccgtccta      330

```

<210> SEQ ID NO: 103

<211> 110

<212> PRT

<213> Secuencia artificial

<220>

<223> secuencia de aminoácidos de C3048 VL

<400> 103

```

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

```

```

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

```

```

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

```

```

Met Tyr Glu Asn Asn Lys Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser
      50              55              60

```

```

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

```

```

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

```

```

Asn Thr Gly Leu Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
      100              105              110

```

<210> SEQ ID NO: 104

<211> 363

<212> ADN

<213> Secuencia artificial

<220>

<223> secuencia nucleotídica de C3015 VH

<400> 104

```

gaggtgcagc tgggtggagtc cgggggaggc gtgggtccagc ctgggagggtc cctgagactc      60
tcctgtgcag cctctggatt cacctttagg aactatgcc a tgagctgggt ccgccaggct      120
ccaggaagg ggctggagtg ggtctcaggt attagtggta ctgggtggtag cacatactac      180
gcagactccg tgaagggccg gttcaccatc tccagagaca attccaagga cacactatat      240
ctgcaattga acagcctgag agccgaggac acggccgtat attactgtgc gaaatcccgt      300
agtatgagta tcaactacgg tatggacgtc tggggccaag ggaccacggt caccgtctcc      360
tca                                                                    363

```

<210> SEQ ID NO: 105

<211> 121

<212> PRT

<213> Secuencia artificial

<220>

<223> secuencia de aminoácidos de C3015 VH

<400> 105

```

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln Pro Gly Arg
1           5           10           15
Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Arg Asn Tyr
          20           25           30
Ala Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
          35           40           45
Ser Gly Ile Ser Gly Thr Gly Gly Ser Thr Tyr Tyr Ala Asp Ser Val
          50           55           60

```

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

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

Ala Lys Ser Arg Ser Met Ser Ile Asn Tyr Gly Met Asp Val Trp Gly
 100 105 110

Gln Gly Thr Thr Val Thr Val Ser Ser
 115 120

<210> SEQ ID NO: 106

<211> 318

<212> ADN

<213> Secuencia artificial

<220>

<223> secuencia nucleotídica de C3015 VL

<400> 106

tcctatgagc tgactcagcc accctcagtg tccgtgtccc caggacagac agtcagcatc 60

acctgctctg gagataattt gggatgata tatgcctcct ggtatcagca gaagccaggc 120

cagtcccttg tgcagggtcat ctatcaagat accaagcggc cctcagggat ccctgagcga 180

ttctctggct ccaactctgg gaacacagcc actctgacca tcagcgggac ccaggctatg 240

gatgaggctg actattactg tcaggcgtgg gacagcaaca ctgtggtatt cggcggaggg 300

accaagctga ccgtccta 318

<210> SEQ ID NO: 107

<211> 106

<212> PRT

<213> Secuencia artificial

<220>

<223> secuencia de aminoácidos de C3015 VL

<400> 107

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

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

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

Gln Asp Thr Lys Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser
50 55 60

Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Met
65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Gln Ala Trp Asp Ser Asn Thr Val Val
85 90 95

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
100 105

<210> SEQ ID NO: 108

<211> 345

<212> ADN

<213> Secuencia artificial

<220>

<223> secuencia nucleotídica de C3022 VH

<400> 108

caggtgcagc tgggtgcagtc tggggctgag gtgaagaagc ctggggcctc agtgaaggtc	60
tcctgcaagg cttctggata caccttcacc ggctactata tgcactgggt gcgacaggcc	120
cctggacaag ggcttgagtg gatgggacgg atcaacccta acagtgggtg cacaaactat	180
gcacagaagt ttcagggcag ggtcaccatg accagggaca cgtccatcag cacagcctac	240
atggagctga gcgggctgag atctgacgac acggccgttt attactgtgc gagtggtagt	300
gtaaggcatc cctggggcca gggaaccctg gtcaccgtct cctca	345

<210> SEQ ID NO: 109

<211> 115

<212> PRT

<213> Secuencia artificial

<220>

<223> secuencia de aminoácidos de C3022 VH

<400> 109

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	Gly	Tyr
			20					25					30		

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

Gly	Arg	Ile	Asn	Pro	Asn	Ser	Gly	Gly	Thr	Asn	Tyr	Ala	Gln	Lys	Phe
	50					55					60				

Gln	Gly	Arg	Val	Thr	Met	Thr	Arg	Asp	Thr	Ser	Ile	Ser	Thr	Ala	Tyr
65					70					75					80
Met	Glu	Leu	Ser	Gly	Leu	Arg	Ser	Asp	Asp	Thr	Ala	Val	Tyr	Tyr	Cys
				85					90					95	

Ala	Ser	Gly	Ser	Val	Arg	His	Pro	Trp	Gly	Gln	Gly	Thr	Leu	Val	Thr
			100					105					110		

Val	Ser	Ser
		115

<210> SEQ ID NO: 110

<211> 330

<212> ADN

<213> Secuencia artificial

<220>

<223> secuencia nucleotídica de C3022 VL

<400> 110

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cagcctgtgc tgactcagcc accctcagcg tctgggaccc cggggcagag ggtcaccatc      60
tcttggttctg gaagcaggtc caacatcgga ggtaatatg taagttggta ccagcagttc      120
ccaggaacgg cccccagact cctcacttat gctgataatc agcggccctc aggggtccct      180
gaccgattct ctgggtccaa gtctggcacc tcagcctccc tggccatcag tggcctccag      240
tctgaggatg aggctgacta ttattgtgca gcatgggatg acagcctgaa tgggtgttg      300
ttcggaggag gcaccaagct gaccgtccta      330

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<210> SEQ ID NO: 111

<211> 8

<212> PRT

<213> Secuencia artificial

<220>

<223> secuencia de aminoácidos de C2037 H CDR1

<400> 111

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Gly Tyr Thr Phe Thr Gly Tyr Tyr
1              5

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<210> SEQ ID NO: 112

<211> 8

<212> PRT

<213> Secuencia artificial

<220>

<223> secuencia de aminoácidos de C2037 H CDR2

<400> 112

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Ile Asn Pro Asn Ser Gly Gly Thr
1              5

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<210> SEQ ID NO: 113

<211> 8

<212> PRT

<213> Secuencia artificial

<220>

<223> secuencia de aminoácidos de C2037 H CDR3

<400> 113

Ala Ser Gly Lys Ser Asn Tyr Pro
1 5

<210> SEQ ID NO: 114

<211> 8

<212> PRT

<213> Secuencia artificial

<220>

<223> secuencia de aminoácidos de C2037 L CDR1

<400> 114

Asn Ser Asn Ile Gly Ser Arg Thr
1 5

<210> SEQ ID NO: 115

<211> 3

<212> PRT

<213> Secuencia artificial

<220>

<223> secuencia de aminoácidos de C2037 L CDR2

<400> 115

Gly Asn Asn
1

<210> SEQ ID NO: 116

<211> 11

<212> PRT

<213> Secuencia artificial

<220>

<223> secuencia de aminoácidos de C2037 L CDR3

<400> 116

Ala Ala Trp Asp Asp Ser Leu Ser Gly Val Val
1 5 10

<210> SEQ ID NO: 117

<211> 8
 <212> PRT
 <213> Secuencia artificial

<220>
 <223> secuencia de aminoácidos de C3048 H CDR1
 <400> 117

Gly Gly Thr Phe Ser Arg Tyr Ala
 1 5

<210> SEQ ID NO: 118
 <211> 8
 <212> PRT
 <213> Secuencia artificial

<220>
 <223> secuencia de aminoácidos de C3048 H CDR2
 <400> 118

Ile Ile Pro Ile Phe Gly Thr Ala
 1 5

<210> SEQ ID NO: 119
 <211> 16
 <212> PRT
 <213> Secuencia artificial

<220>
 <223> secuencia de aminoácidos de C3048 H CDR3
 <400> 119

Ala Leu Glu Gly Phe Arg Asp Ser Leu Lys Arg Asn Pro Phe Asp Ile
 1 5 10 15

<210> SEQ ID NO: 120
 <211> 8
 <212> PRT
 <213> Secuencia artificial

<220>
 <223> secuencia de aminoácidos de C3048 L CDR1

<400> 120

Thr Thr Asn Ile Gly Ser Asn Tyr
1 5

<210> SEQ ID NO: 121

<211> 3

<212> PRT

<213> Secuencia artificial

<220>

<223> secuencia de aminoácidos de C3048 L CDR2

<400> 121

Glu Asn Asn
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<210> SEQ ID NO: 122

<211> 11

<212> PRT

<213> Secuencia artificial

<220>

<223> secuencia de aminoácidos de C3048 L CDR3

<400> 122

Ser Thr Trp Asp Ser Ser Leu Asn Thr Gly Leu
1 5 10

<210> SEQ ID NO: 123

<211> 8

<212> PRT

<213> Secuencia artificial

<220>

<223> secuencia de aminoácidos de C3015 H CDR1

<400> 123

Gly Phe Thr Phe Arg Asn Tyr Ala
1 5

<210> SEQ ID NO: 124

<211> 8
 <212> PRT
 <213> Secuencia artificial

<220>
 <223> secuencia de aminoácidos de C3015 H CDR2
 <400> 124

Ile Ser Gly Thr Gly Gly Ser Thr
 1 5

<210> SEQ ID NO: 125
 <211> 14
 <212> PRT
 <213> Secuencia artificial

<220>
 <223> secuencia de aminoácidos de C3015 H CDR3
 <400> 125

Ala Lys Ser Arg Ser Met Ser Ile Asn Tyr Gly Met Asp Val
 1 5 10

<210> SEQ ID NO: 126
 <211> 6
 <212> PRT
 <213> Secuencia artificial

<220>
 <223> secuencia de aminoácidos de C3015 L CDR1
 <400> 126

Asn Leu Gly Asp Arg Tyr
 1 5

<210> SEQ ID NO: 127
 <211> 3
 <212> PRT
 <213> Secuencia artificial

<220>
 <223> secuencia de aminoácidos de C3015 L CDR2

<400> 127

Gln Asp Thr

1

<210> SEQ ID NO: 128

<211> 9

<212> PRT

<213> Secuencia artificial

<220>

<223> secuencia de aminoácidos de C3015 L CDR3

<400> 128

Gln Ala Trp Asp Ser Asn Thr Val Val

1

5

<210> SEQ ID NO: 129

<211> 8

<212> PRT

<213> Secuencia artificial

<220>

<223> secuencia de aminoácidos de C3022 H CDR1

<400> 129

Gly Tyr Thr Phe Thr Gly Tyr Tyr

1

5

<210> SEQ ID NO: 130

<211> 8

<212> PRT

<213> Secuencia artificial

<220>

<223> secuencia de aminoácidos de C3022 H CDR2

<400> 130

Ile Asn Pro Asn Ser Gly Gly Thr

1

5

<210> SEQ ID NO: 131

<211> 8
 <212> PRT
 <213> Secuencia artificial

<220>
 <223> secuencia de aminoácidos de C3022 H CDR3
 <400> 131

Ala Ser Gly Ser Val Arg His Pro
 1 5

<210> SEQ ID NO: 132
 <211> 8
 <212> PRT
 <213> Secuencia artificial

<220>
 <223> secuencia de aminoácidos de C3022 L CDR1
 <400> 132

Arg Ser Asn Ile Gly Gly Asn Ile
 1 5

<210> SEQ ID NO: 133
 <211> 3
 <212> PRT
 <213> Secuencia artificial

<220>
 <223> secuencia de aminoácidos de C3022 L CDR2
 <400> 133

Ala Asp Asn
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<210> SEQ ID NO: 134
 <211> 11
 <212> PRT
 <213> Secuencia artificial

<220>
 <223> secuencia de aminoácidos de C3022 L CDR3

<400> 134

Ala Ala Trp Asp Asp Ser Leu Asn Gly Val Val
1 5 10

<210> SEQ ID NO: 135

<211> 110

<212> PRT

<213> Secuencia artificial

<220>

<223> secuencia de aminoácidos de C3022 VL

<400> 135

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

Arg Val Thr Ile Ser Cys Ser Gly Ser Arg Ser Asn Ile Gly Gly Asn
20 25 30

Ile Val Ser Trp Tyr Gln Gln Phe Pro Gly Thr Ala Pro Arg Leu Leu
35 40 45

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

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

Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ala Trp Asp Asp Ser Leu
85 90 95

Asn Gly Val Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
100 105 110

<210> SEQ ID NO: 136

<211> 1392

<212> ADN

<213> Secuencia artificial

<220>

<223> secuencia nucleotídica de C2037 H en forma de IgG

<400> 136

atgaaacacc tgtggttctt cctcctgctg gtggcagctc ccagatgggt gctgagccag	60
gtgcagctgg tgcagtctgg ggctgaggtg aagaagcctg gggcctcagt gaaggtctcc	120
tgcaaggctt ctggatacac cttcaccggc tactatatgc actgggtgcg acaggcccct	180
ggacaagggc ttgagtggat gggacggatc aaccctaaca gtggtggcac aaactatgca	240
cagaagtttc agggcagggt caccatgacc agggacacgt ccatcagcac agcctacatg	300
gagctgagca ggctgagatc tgacgacacg gccgtgtatt actgtgcgag tgggaagagt	360
aactaccctt ggggccaggg aaccctggtc accgtcagct cagcctccac caagggccca	420
agcgtcttcc ccctggcacc ctctccaag agcacctctg gcggcacagc cgccctgggc	480
tgcttggtca aggactactt ccccgaaacc gtgaccgtga gctggaactc aggcgccttg	540
accagcggcg tgcacacctt ccccgctgtc ctgcagtcct caggactcta ctccctcagc	600
agcgtgggtga ccgtgcctc cagcagcttg ggcaccaga cctacatctg caacgtgaat	660
cacaagccca gcaacaccaa ggtggacaag agagttgagc ccaaattcttg tgacaaaact	720
cacacatgcc caccctgccc agcacctgaa ctctggggg gaccctcagt cttcctcttc	780
ccccaaaaac ccaaggacac cctcatgac tcccggaccc ctgaggtcac atgcgtgggtg	840
gtggacgtga gccacgaaga ccctgaggtc aagttcaact ggtacgtgga cggcgtggag	900
gtgcataatg ccaagacaaa gccccgggag gagcagtaca acagcacgta ccgggtggtc	960
agcgtcctca ccgtcctgca ccaggactgg ctgaatggca aggagtacaa gtgcaaggtc	1020
tccaacaaag ccctcccagc ccccatcgag aaaaccatct ccaaagccaa aggccagccc	1080
cgggaaccac aggtgtacac cctgccccca tcccgggagg agatgaccaa gaaccaggtc	1140
agcctgacct gcctggtcaa aggtttctat cccagcgaca tcgccgtgga gtgggagagc	1200
aatggccagc ccgagaacaa ctacaagacc acccctcccg tgctggactc cgacggctcc	1260
ttcttcctct acagcaagct caccgtggac aagagcaggt ggcagcaggg caacgtcttc	1320
tcatgctccg tgatgcatga ggctctgcac aaccactaca cccagaagag cctctccctg	1380

tctccccggca aa

1392

<210> SEQ ID NO: 137

<211> 708

<212> ADN

<213> Secuencia artificial

<220>

<223> secuencia nucleotídica de C2037 L en forma de IgG

<400> 137

atggtgctgc agaccaggt gttcatctcc ctgctgctgt ggatctccgg cgcgtacggc 60

cagcctgtgc tgactcagcc accctcagcg tctgggaccc cggggcagag ggtcaccatc 120

tcttgttctg gaagcaactc caacatcggc agtagaactg tgaattggta ccagcacctc 180

ccaggaacgg cccccagact cctcatctat ggtaataatc agtggccctc aggggtccct 240

gaccgattct ctggctctaa gtctggctcc tcagcctccc tggccatcag tgggctccgg 300

tccgaggatg aggctgatta ttactgtgca gcatgggatg acagcctgag tgggtgtgga 360

ttcggcggag ggaccaagtt aactgtgctt ggccagccta aggctgcccc tagcgtgacc 420

ctgttccctc cttccagcga ggagcttcaa gctaacaagg ccaccctggg gtgtcttctc 480

tctgacttct accctggcgc tgtgaccgtg gcttggaagg ctgacagctc cctgtggaag 540

gccggagtgg agaccaccac acctagcaag cagtctaaca acaagtacgc tgccagctcc 600

tacctgagcc ttaccctga gcagtggaag tctcacagaa gctactcctg tcaagtgacc 660

cacgagggca gcaccgtgga gaagaccgtg gtcctaccg agtggtcc 708

<210> SEQ ID NO: 138

<211> 1416

<212> ADN

<213> Secuencia artificial

<220>

<223> secuencia nucleotídica de C3048 H en forma de IgG

<400> 138

atgaaacacc tgtggttctt cctcctgctg gtggcagctc ccagatgggt gctgagccag 60

gtgcagctgg tgcagtctgg ggctgaggtg aagaagcctg ggtcctcggt gaaggtctcc	120
tgcaaggctt ctggaggcac cttcagcagg tatgctatca gctgggtgcg acaggcccct	180
ggacaagggc ttgagtggat gggagggatc atccctatct ttggaacagc aaactacgca	240
cagaagttcc agggcagagt cacaattacc gcggaccaat ccacgagaac agcctacatg	300
gacctgggca gactgagatc tgaggacacg gccgtgtatt attgtgctct cgagggatc	360
agggactcat taaaacgaaa tccttttgat atctggggcc aaggggacaat ggtcaccgtc	420
agctcagcct ccaccaaggg cccaagcgtc tccccctgg caccctctc caagagcacc	480
tctggcggca cagccgccct gggctgcctg gtcaaggact acttccccga acccgtgacc	540
gtgagctgga actcaggcgc cctgaccagc ggctgtcaca ccttccccgc tgtcctgcag	600
tcctcaggac tctactccct cagcagcgtg gtgaccgtgc cctccagcag cttgggcacc	660
cagacctaca tctgcaacgt gaatcacaag cccagcaaca ccaaggtgga caagagagtt	720
gagcccaa at cttgtgacaa aactcacaca tgcccaccct gcccagcacc tgaactcctg	780
gggggaccct cagtcttctt cttcccccca aaaccaagg acaccctcat gatctcccgg	840
accctgagg tcacatgcgt ggtggtggac gtgagccacg aagaccctga ggtcaagttc	900
aactggtacg tggacggcgt ggaggtgcat aatgccaaga caaagccccg ggaggagcag	960
tacaacagca cgtaccgggt ggtcagcgtc ctcaccgtcc tgcaccagga ctggctgaat	1020
ggcaaggagt acaagtgcaa ggtctccaac aaagccctcc cagcccccat cgagaaaacc	1080
atctccaaag ccaaaggcca gccccgggaa ccacaggtgt acaccctgcc cccatcccgg	1140
gaggagatga ccaagaacca ggtcagcctg acctgcctgg tcaaaggctt ctatcccagc	1200
gacatcgccg tggagtggga gagcaatggc cagcccagaga acaactacaa gaccaccct	1260
cccgtgctgg actccgacgg ctcttcttct ctctacagca agctcaccgt ggacaagagc	1320
aggtggcagc agggcaacgt cttctcatgc tccgtgatgc atgaggctct gcacaaccac	1380
tacaccaga agagcctctc cctgtctccc ggcaaa	1416

<210> SEQ ID NO: 139

<211> 708

<212> ADN

<213> Secuencia artificial

<220>

<223> secuencia nucleotídica de C3048 L en forma de IgG

<400> 139

atggtgctgc agaccaggt gttcatctcc ctgctgctgt ggatctccgg cgcgtacggc	60
cagtctgtcg tgacgcagcc gccctcagtg tctgcgcccc caggacagaa ggtcaccatc	120
tcctgctctg gaggcaccac caacattggg agtaattatg tctcctggta tcagcagctc	180
ccaggaacag cccccaaatt cctcatgtat gaaaataata agcgaccctc aggcattcct	240
gaccgattct ctgggtccaa gtctggcacg tcagccaccc tggccatcac cggactccag	300
actggggacg aggccactta ttactgctca acatgggata gcagcctgaa tactgggcta	360
ttcggcggag ggaccaagtt aactgtgctt ggccagccta aggctgcccc tagcgtgacc	420
ctgttccctc cttccagcga ggagcttcaa gctaacaagg ccaccctggg gtgtcttata	480
tctgacttct accctggcgc tgtgaccgtg gcctggaagg ctgacagctc ccctgtgaag	540
gccggagtgg agaccaccac acctagcaag cagtctaaca acaagtacgc tgccagctcc	600
tacctgagcc ttaccctga gcagtggaag tctcacagaa gctactcctg tcaagtgacc	660
cacgagggca gcaccgtgga gaagaccgtg gtcctaccg agtgttcc	708

<210> SEQ ID NO: 140

<211> 1410

<212> ADN

<213> Secuencia artificial

<220>

<223> secuencia nucleotídica de C3015 H en forma de IgG

<400> 140

atgaaacacc tgtggttctt cctcctgctg gtggcagctc ccagatgggt gctgagcgag	60
gtgcagctgg tggagtccgg gggaggcgtg gtccagcctg ggaggctcct gagactctcc	120
tgtgcagcct ctggattcac ctttaggaac tatgccatga gctgggtccg ccaggctcca	180
gggaaggggc tggagtgggt ctcagggtatt agtggtagctg gtggtagcac atactacgca	240
gactccgtga agggccggtt caccatctcc agagacaatt ccaaggacac actatatctg	300

caattgaaca gcctgagagc cgaggacacg gccgtatatt actgtgcgaa atcccgtagt 360
 atgagtatca actacggtat ggacgtcttg ggccaaggga ccacgggtcac cgtcagctca 420
 gcctccacca agggcccaag cgtcttcccc ctggcaccct cctccaagag cacctctggc 480
 ggcacagccg ccctgggctg cctgggtcaag gactacttcc ccgaacccgt gaccgtgagc 540
 tggaactcag gcgccctgac cagcggcggtg cacaccttcc ccgctgtcct gcagtcctca 600
 ggactctact ccctcagcag cgtgggtgacc gtgccctcca gcagcttggg caccagacc 660
 tacatctgca acgtgaatca caagcccagc aacaccaagg tggacaagag agttgagccc 720
 aaatcttgtg acaaaactca cacatgccca ccctgcccag cacctgaact cctgggggga 780
 ccctcagtct tcctcttccc cccaaaaccc aaggacaccc tcatgatctc ccggaccct 840
 gaggtcacat gcgtgggtgg ggacgtgagc cacgaagacc ctgaggtcaa gttcaactgg 900
 tacgtggacg gcgtggaggt gcataatgcc aagacaaagc cccgggagga gcagtacaac 960
 agcacgtacc gggtggtcag cgtcctcacc gtctctgacc aggactggct gaatggcaag 1020
 gagtacaagt gcaaggtctc caacaaagcc ctcccagccc ccatcgagaa aaccatctcc 1080
 aaagccaaag gccagccccg ggaaccacag gtgtacaccc tgccccatc cccggaggag 1140
 atgaccaaga accaggtcag cctgacctgc ctgggtcaaag gcttctatcc cagcgacatc 1200
 gccgtggagt gggagagcaa tggccagccc gagaacaact acaagaccac ccctcccggtg 1260
 ctggactccg acggctcctt ctctctctac agcaagctca ccgtggacaa gagcaggtgg 1320
 cagcagggca acgtcttctc atgctccgtg atgcatgagg ctctgcacaa ccactacacc 1380
 cagaagagcc tctccctgtc tcccgcaaaa 1410

<210> SEQ ID NO: 141

<211> 696

<212> ADN

<213> Secuencia artificial

<220>

<223> secuencia nucleotídica de C3015 L en forma de IgG

<400> 141

atggtgctgc agaccaggt gttcatctcc ctgctgctgt ggatctccgg cgcgtacggc 60

tcctatgagc tgactcagcc accctcagtg tccgtgtccc caggacagac agtcagcatc	120
acctgctctg gagataattt gggatgataa tatgcctcct ggtatcagca gaagccaggc	180
cagtccccctg tgcaggtcat ctatcaagat accaagcggc cctcagggat ccctgagcga	240
ttctctggct ccaactctgg gaacacagcc actctgacca tcagcgggac ccaggctatg	300
gatgaggctg actattactg tcaggcgtgg gacagcaaca ctgtggtatt cggcggaggg	360
accaagttaa ctgtgcttgg ccagcctaag gctgccccta gcgtgaccct gttccctcct	420
tccagcgagg agcttcaagc taacaaggcc accctgggtg gtcttatctc tgacttctac	480
cctggcgctg tgaccgtggc ctggaaggct gacagctccc ctgtgaaggc cggagtggag	540
accaccacac ctagcaagca gtctaacaac aagtagctg ccagctccta cctgagcctt	600
accctgagc agtggaagtc tcacagaagc tactcctgtc aagtgacca cgagggcagc	660
accgtggaga agaccgtggc tcctaccgag tgttcc	696

<210> SEQ ID NO: 142

<211> 1392

<212> ADN

<213> Secuencia artificial

<220>

<223> secuencia nucleotídica de C3022 H en forma de IgG

<400> 142

atgaaacacc tgtggttctt cctcctgctg gtggcagctc ccagatgggt gctgagccag	60
gtgcagctgg tgcagtctgg ggctgaggtg aagaagcctg gggcctcagt gaaggtctcc	120
tgcaaggctt ctggatacac cttcaccggc tactatatgc actgggtgcg acaggcccct	180
ggacaagggc ttgagtggat gggacggatc aaccctaaca gtggtggcac aaactatgca	240
cagaagtttc agggcagggt caccatgacc agggacacgt ccatcagcac agcctacatg	300
gagctgagcg ggctgagatc tgacgacacg gccgtttatt actgtgagag tggtagtgta	360
aggcatccct ggggccaggg aaccctggtc accgtcagct cagcctccac caagggccca	420
agcgtcttcc ccctggcacc ctctccaag agcacctctg gcggcacagc cgccctgggc	480
tgcttggtca aggactactt ccccgaaacc gtgaccgtga gctggaactc aggcgcctg	540

accagcggcg tgcacacctt ccccgctgtc ctgcagtcct caggactcta ctccctcagc	600
agcgtggtga ccgtgccctc cagcagcttg ggcacccaga cctacatctg caacgtgaat	660
cacaagccca gcaacaccaa ggtggacaag agagttgagc ccaaattcttg tgacaaaact	720
cacacatgcc caccctgccc agcacctgaa ctcttggggg gaccctcagt cttcctcttc	780
ccccaaaaac ccaaggacac cctcatgatc tcccggaccc ctgaggtcac atgcgtggtg	840
gtggacgtga gccacgaaga ccctgaggtc aagttcaact ggtacgtgga cggcgtggag	900
gtgcataatg ccaagacaaa gccccgggag gagcagtaca acagcacgta ccgggtggtc	960
agcgtcctca ccgtcctgca ccaggactgg ctgaatggca aggagtacaa gtgcaaggtc	1020
tccaacaaag ccctcccagc ccccatcgag aaaaccatct ccaaagccaa aggccagccc	1080
cgggaaccac aggtgtacac cctgccccca tcccgggagg agatgaccaa gaaccaggtc	1140
agcctgacct gcctggtcaa aggtttctat cccagcgaca tcgccgtgga gtgggagagc	1200
aatggccagc ccgagaacaa ctacaagacc acccctcccg tgctggactc cgacggctcc	1260
ttcttctct acagcaagct caccgtggac aagagcaggt ggcagcaggg caacgtcttc	1320
tcatgctccg tgatgcatga ggctctgcac aaccactaca ccagaagag cctctccctg	1380
tctcccggca aa	1392

<210> SEQ ID NO: 143

<211> 708

<212> ADN

<213> Secuencia artificial

<220>

<223> secuencia nucleotídica de C3022 L en forma de IgG

<400> 143

atggtgctgc agaccaggt gttcatctcc ctgctgctgt ggatctccgg cgcgtacggc	60
cagcctgtgc tgactcagcc accctcagcg tctgggaccc ccgggcagag ggtcaccatc	120
tcttgttctg gaagcaggtc caacatcgga ggtaatatg taagttggta ccagcagttc	180
ccaggaacgg ccccagact cctcacttat gctgataatc agcggccctc aggggtccct	240
gaccgattct ctggctccaa gtctggcacc tcagcctccc tggccatcag tggcctccag	300

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tctgaggatg aggctgacta ttattgtgca gcatgggatg acagcctgaa tgggtgttg 360
ttcggaggag gcaccaagtt aactgtgctt ggccagccta aggctgcccc tagcgtgacc 420
ctgttccttc cttccagcga ggagcttcaa gctaacaagg ccaccctggt gtgtcttata 480
tctgacttct accctggcgc tgtgaccgtg gcctggaagg ctgacagctc ccctgtgaag 540
gccggagtgg agaccaccac acctagcaag cagtctaaca acaagtacgc tgccagctcc 600
tacctgagcc ttaccctga gcagtggaag ttcacagaa gctactcctg tcaagtgacc 660
cacgagggca gcaccgtgga gaagaccgtg gtcctaccg agtgttcc 708

```

<210> SEQ ID NO: 144

<211> 464

<212> PRT

<213> Secuencia artificial

<220>

<223> secuencia de aminoácidos de C2037 H en forma de IgG

<400> 144

```

Met Lys His Leu Trp Phe Phe Leu Leu Leu Val Ala Ala Pro Arg Trp
1           5           10           15
Val Leu Ser Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys
          20           25           30

```

```

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

```

```

Thr Gly Tyr Tyr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu
50           55           60

```

```

Glu Trp Met Gly Arg Ile Asn Pro Asn Ser Gly Gly Thr Asn Tyr Ala
65           70           75           80

```

```

Gln Lys Phe Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser Ile Ser
          85           90           95

```

Thr Ala Tyr Met Glu Leu Ser Arg Leu Arg Ser Asp Asp Thr Ala Val
 100 105 110

Tyr Tyr Cys Ala Ser Gly Lys Ser Asn Tyr Pro Trp Gly Gln Gly Thr
 115 120 125

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

Leu Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly
 145 150 155 160

Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Asn
 165 170 175

Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala Val Leu Gln
 180 185 190

Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser
 195 200 205

Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His Lys Pro Ser
 210 215 220

Asn Thr Lys Val Asp Lys Arg Val Glu Pro Lys Ser Cys Asp Lys Thr
 225 230 235 240

His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser
 245 250 255

Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg
 260 265 270

Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His Glu Asp Pro
 275 280 285

Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala
 290 295 300

Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val
 305 310 315 320

Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr
 325 330 335

Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr
 340 345 350

Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu
 355 360 365

Pro Pro Ser Arg Glu Glu Met Thr Lys Asn Gln Val Ser Leu Thr Cys
 370 375 380

Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser
 385 390 395 400

Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp
 405 410 415

Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser
 420 425 430

Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala
 435 440 445

Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
 450 455 460

<210> SEQ ID NO: 145

<211> 236

<212> PRT

<213> Secuencia artificial

<220>

<223> secuencia de aminoácidos de C2037 L en forma de IgG

<400> 145

Met	Val	Leu	Gln	Thr	Gln	Val	Phe	Ile	Ser	Leu	Leu	Leu	Trp	Ile	Ser
1				5					10					15	

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

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

Ile	Gly	Ser	Arg	Thr	Val	Asn	Trp	Tyr	Gln	His	Leu	Pro	Gly	Thr	Ala
	50					55					60				

Pro	Arg	Leu	Leu	Ile	Tyr	Gly	Asn	Asn	Gln	Trp	Pro	Ser	Gly	Val	Pro
65					70					75					80

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

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

Asp	Asp	Ser	Leu	Ser	Gly	Val	Val	Phe	Gly	Gly	Gly	Thr	Lys	Leu	Thr
		115					120					125			

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

Ser	Ser	Glu	Glu	Leu	Gln	Ala	Asn	Lys	Ala	Thr	Leu	Val	Cys	Leu	Ile
145					150					155					160

Ser	Asp	Phe	Tyr	Pro	Gly	Ala	Val	Thr	Val	Ala	Trp	Lys	Ala	Asp	Ser
				165					170					175	

Ser Pro Val Lys Ala Gly Val Glu Thr Thr Thr Pro Ser Lys Gln Ser
 180 185 190

Asn Asn Lys Tyr Ala Ala Ser Ser Tyr Leu Ser Leu Thr Pro Glu Gln
 195 200 205

Trp Lys Ser His Arg Ser Tyr Ser Cys Gln Val Thr His Glu Gly Ser
 210 215 220

Thr Val Glu Lys Thr Val Ala Pro Thr Glu Cys Ser
 225 230 235

<210> SEQ ID NO: 146

<211> 472

<212> PRT

<213> Secuencia artificial

<220>

<223> secuencia de aminoácidos de C3048 H en forma de IgG

<400> 146

Met Lys His Leu Trp Phe Phe Leu Leu Leu Val Ala Ala Pro Arg Trp
 1 5 10 15

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

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

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

Glu Trp Met Gly Gly Ile Ile Pro Ile Phe Gly Thr Ala Asn Tyr Ala
 65 70 75 80

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

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

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

Phe Asp Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Ala Ser
 130 135 140

Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr
 145 150 155 160

Ser Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro
 165 170 175

Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val
 180 185 190

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

Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile
 210 215 220

Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys Arg Val
 225 230 235 240

Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala
 245 250 255

Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro
 260 265 270

Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val
 275 280 285

Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val
 290 295 300

Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln
 305 310 315 320

Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln
 325 330 335

Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala
 340 345 350

Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro
 355 360 365

Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu Met Thr
 370 375 380

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

Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr
 405 410 415

Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr
 420 425 430

Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe
 435 440 445

Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys
 450 455 460

Ser Leu Ser Leu Ser Pro Gly Lys
 465 470

<210> SEQ ID NO: 147

<211> 236

<212> PRT

<213> Secuencia artificial

<220>

<223> secuencia de aminoácidos de C3048 L en forma de IgG

<400> 147

Met Val Leu Gln Thr Gln Val Phe Ile Ser Leu Leu Leu Trp Ile Ser
1 5 10 15

Gly Ala Tyr Gly Gln Ser Val Val Thr Gln Pro Pro Ser Val Ser Ala
20 25 30

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

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

Pro Lys Phe Leu Met Tyr Glu Asn Asn Lys Arg Pro Ser Gly Ile Pro
65 70 75 80

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

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

Asp Ser Ser Leu Asn Thr Gly Leu Phe Gly Gly Gly Thr Lys Leu Thr
115 120 125

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

Ser Ser Glu Glu Leu Gln Ala Asn Lys Ala Thr Leu Val Cys Leu Ile
145 150 155 160

Ser Asp Phe Tyr Pro Gly Ala Val Thr Val Ala Trp Lys Ala Asp Ser
165 170 175

Ser Pro Val Lys Ala Gly Val Glu Thr Thr Thr Pro Ser Lys Gln Ser
180 185 190

Asn Asn Lys Tyr Ala Ala Ser Ser Tyr Leu Ser Leu Thr Pro Glu Gln
195 200 205

Trp Lys Ser His Arg Ser Tyr Ser Cys Gln Val Thr His Glu Gly Ser
210 215 220

Thr Val Glu Lys Thr Val Ala Pro Thr Glu Cys Ser
225 230 235

<210> SEQ ID NO: 148

<211> 470

<212> PRT

<213> Secuencia artificial

 $\langle 220 \rangle$

<223> secuencia de aminoácidos de C3015 H en forma de IgG

$\langle 400 \rangle$ 148

Met Lys His Leu Trp Phe Phe Leu Leu Leu Val Ala Ala Pro Arg Trp
1 5 10 15

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

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

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

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

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

Thr Leu Tyr Leu Gln Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Val
100 105 110

Tyr Tyr Cys Ala Lys Ser Arg Ser Met Ser Ile Asn Tyr Gly Met Asp
115 120 125

Val Trp Gly Gln Gly Thr Thr Val Thr Val Ser Ser Ala Ser Thr Lys
130 135 140

Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr Ser Gly
145 150 155 160

Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro
165 170 175

Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr
180 185 190

Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val
195 200 205

Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn
210 215 220

Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys Arg Val Glu Pro
225 230 235 240

Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu
245 250 255

Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp
260 265 270

Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp
 275 280 285

Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly
 290 295 300

Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn
 305 310 315 320

Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp
 325 330 335

Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro
 340 345 350

Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu
 355 360 365

Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu Met Thr Lys Asn
 370 375 380

Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile
 385 390 395 400

Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr
 405 410 415

Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys
 420 425 430

Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys
 435 440 445

Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu
 450 455 460

Ser Leu Ser Pro Gly Lys
465 470

<210> SEQ ID NO: 149

<211> 232

<212> PRT

<213> Secuencia artificial

<220>

<223> secuencia de aminoácidos de C3015 L en forma de IgG

<400> 149

Met Val Leu Gln Thr Gln Val Phe Ile Ser Leu Leu Leu Trp Ile Ser
1 5 10 15

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

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

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

Gln Val Ile Tyr Gln Asp Thr Lys Arg Pro Ser Gly Ile Pro Glu Arg
65 70 75 80

Phe Ser Gly Ser Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly
85 90 95

Thr Gln Ala Met Asp Glu Ala Asp Tyr Tyr Cys Gln Ala Trp Asp Ser
100 105 110

Asn Thr Val Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gln
115 120 125

Pro Lys Ala Ala Pro Ser Val Thr Leu Phe Pro Pro Ser Ser Glu Glu
130 135 140

Leu Gln Ala Asn Lys Ala Thr Leu Val Cys Leu Ile Ser Asp Phe Tyr
 145 150 155 160

Pro Gly Ala Val Thr Val Ala Trp Lys Ala Asp Ser Ser Pro Val Lys
 165 170 175

Ala Gly Val Glu Thr Thr Thr Pro Ser Lys Gln Ser Asn Asn Lys Tyr
 180 185 190

Ala Ala Ser Ser Tyr Leu Ser Leu Thr Pro Glu Gln Trp Lys Ser His
 195 200 205

Arg Ser Tyr Ser Cys Gln Val Thr His Glu Gly Ser Thr Val Glu Lys
 210 215 220

Thr Val Ala Pro Thr Glu Cys Ser
 225 230

<210> SEQ ID NO: 150

<211> 464

<212> PRT

<213> Secuencia artificial

<220>

<223> secuencia de aminoácidos de C3022 H en forma de IgG

<400> 150

Met Lys His Leu Trp Phe Phe Leu Leu Leu Val Ala Ala Pro Arg Trp
 1 5 10 15

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

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

Thr Gly Tyr Tyr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu
 50 55 60

Glu Trp Met Gly Arg Ile Asn Pro Asn Ser Gly Gly Thr Asn Tyr Ala
 65 70 75 80

Gln Lys Phe Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser Ile Ser
 85 90 95

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

Tyr Tyr Cys Ala Ser Gly Ser Val Arg His Pro Trp Gly Gln Gly Thr
 115 120 125

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

Leu Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly
 145 150 155 160

Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Asn
 165 170 175

Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala Val Leu Gln
 180 185 190

Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser
 195 200 205

Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His Lys Pro Ser
 210 215 220

Asn Thr Lys Val Asp Lys Arg Val Glu Pro Lys Ser Cys Asp Lys Thr
 225 230 235 240

His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser
 245 250 255

Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg
 260 265 270

Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His Glu Asp Pro
 275 280 285

Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala
 290 295 300

Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val
 305 310 315 320

Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr
 325 330 335

Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr
 340 345 350

Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu
 355 360 365

Pro Pro Ser Arg Glu Glu Met Thr Lys Asn Gln Val Ser Leu Thr Cys
 370 375 380

Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser
 385 390 395 400

Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp
 405 410 415

Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser
 420 425 430

Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala
 435 440 445

Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
 450 455 460

<210> SEQ ID NO: 151

<211> 236

<212> PRT

<213> Secuencia artificial

<220>

<223> secuencia de aminoácidos de C3022 L en forma de IgG

<400> 151

Met Val Leu Gln Thr Gln Val Phe Ile Ser Leu Leu Leu Trp Ile Ser
 1 5 10 15

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

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

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

Pro Arg Leu Leu Thr Tyr Ala Asp Asn Gln Arg Pro Ser Gly Val Pro
 65 70 75 80

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

Ser Gly Leu Gln Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ala Trp
 100 105 110

Asp Asp Ser Leu Asn Gly Val Val Phe Gly Gly Gly Thr Lys Leu Thr
 115 120 125

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

Ser Ser Glu Glu Leu Gln Ala Asn Lys Ala Thr Leu Val Cys Leu Ile
 145 150 155 160

Ser Asp Phe Tyr Pro Gly Ala Val Thr Val Ala Trp Lys Ala Asp Ser
 165 170 175

Ser Pro Val Lys Ala Gly Val Glu Thr Thr Thr Pro Ser Lys Gln Ser
 180 185 190

Asn Asn Lys Tyr Ala Ala Ser Ser Tyr Leu Ser Leu Thr Pro Glu Gln
 195 200 205

Trp Lys Ser His Arg Ser Tyr Ser Cys Gln Val Thr His Glu Gly Ser
 210 215 220

Thr Val Glu Lys Thr Val Ala Pro Thr Glu Cys Ser
 225 230 235

<210> SEQ ID NO: 152
 <211> 354
 <212> ADN
 <213> *Rattus norvegicus*

<400> 152
 gaggtgcagt tgggtggagtc tgggggagggc ctggtgcagc ctggaagggc cctgaaactc 60
 tcctgtgtag tctctggagt cacattcaat tactacggga tgagctggat ccgccaggct 120
 ccaggggaagg ggctggagtg ggttgcattc attactaatt ctggtggttag aatttactat 180
 ccagactctg tgaagggccg attcactatc tccagagaaa atacacaaaa gaccctatac 240
 ctacaaatga acagtctgag gtctgaggac acggccactt attactgtac tctcgatggg 300
 cgcgatgggt gggttgctta ctggggccaa ggcactctgg tcaactgtctc ttca 354

<210> SEQ ID NO: 153
 <211> 327
 <212> ADN
 <213> *Rattus norvegicus*

<400> 153

cagtttgtgc ttactcagcc aaactctgtg tctacgaatc tcggaaccac agtcgaactg	60
tcttgcaagc gcaacactgg gaacattgga agcaattatg tgaactggta ccagcagcat	120
gaggggaagat ctcccaccac tattatattat agggatgata agagaccaga tggagtttct	180
gacaggttct ctgggtccat tgacagatct tccaagtcag ccctcctgac aatcaataat	240
gtgcagactg aagatgaagc tgactacttc tgtcagtctt acagtagtgg ttttattttc	300
ggcgggtggaa ccaagctcac tgtccta	327

<210> SEQ ID NO: 154

<211> 867

<212> ADN

<213> Secuencia artificial

<220>

<223> secuencia nucleotídica de C3E-7000

<400> 154

atgaaacacc tgtggttctt cctcctgctg gtggcagctc ccagatgggt gctgagcgag	60
gtgcagttgg tggagtctgg gggaggcctg gtgcagcctg gaagggccct gaaactctcc	120
tgtgtagtct ctggagtcac attcaattac tacgggatga gctggatccg ccaggctcca	180
gggaaggggc tggagtgggt tgcattccatt actaattctg gtggtagaat ttactatcca	240
gactctgtga agggccgatt cactatctcc agagaaaata cacaaaagac cctataccta	300
caaatgaaca gtctgaggtc tgaggacacg gccacttatt actgtactct cgatggtcgc	360
gatggttggg ttgcttactg gggccaaggc actctggtca ctgtctcttc aggtggaggc	420
ggttcaggcg gaggtggcag cggcgggtggc gggagtcagt ttgtgcttac tcagccaaac	480
tctgtgtcta cgaatctcgg aaccacagtc gaactgtctt gcaagcgcaa cactgggaac	540
attggaagca attatgtgaa ctggtaccag cagcatgagg gaagatctcc caccactatt	600
atttataggg atgataagag accagatgga gtttctgaca ggttctcttg gtccattgac	660
agatcttcca agtcagccct cctgacaatc aataatgtgc agactgaaga tgaagctgac	720
tacttctgtc agtcttacag tagtggtttt attttcggcg gtggaaccaa gctcactgtc	780
ctaggcgcgt ctgcggccgc aggatccggt ggtgattaca aagatgatga cgataaaggt	840

gcagcggcgc atcaccatca tcaccac

867

<210> SEQ ID NO: 155

<211> 118

<212> PRT

<213> Secuencia artificial

<220>

<223> secuencia de aminoácidos de C3E-7034_VH

<400> 155

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

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

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

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

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

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

Thr Leu Asp Gly Arg Asp Gly Trp Val Ala Tyr Trp Gly Gln Gly Thr
100 105 110

Leu Val Thr Val Ser Ser
115

<210> SEQ ID NO: 156

<211> 109

<212> PRT

<213> Secuencia artificial

<220>

<223> secuencia de aminoácidos de C3E-7034_VL

<400> 156

Asn	Phe	Met	Leu	Thr	Gln	Pro	His	Ser	Val	Ser	Glu	Ser	Pro	Gly	Lys
1				5				10						15	

Thr	Val	Thr	Ile	Ser	Cys	Lys	Arg	Asn	Thr	Gly	Asn	Ile	Gly	Ser	Asn
			20					25					30		

Tyr	Val	Asn	Trp	Tyr	Gln	Gln	His	Glu	Gly	Ser	Ser	Pro	Thr	Thr	Ile
		35					40					45			

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

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

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

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

<210> SEQ ID NO: 157

<211> 864

<212> ADN

<213> Secuencia artificial

<220>

<223> secuencia nucleotídica de C3E-7034

<400> 157

atgaaacacc	tgtggttctt	cctcctgctg	gtggcagctc	ccagatgggt	gctgagcggg	60
gaagtgcagc	tggtggaatc	cggggggggc	ctggtgcagc	ctgggggggag	cctgagactg	120
agttgtgccg	cctctggggg	gacatttaac	tactatggca	tgtcttggat	ccgccaggca	180
cctggaaagg	gcctggagtg	ggtggccagc	atcactaatt	ccggcgggcg	aatctactat	240

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cccgacagcg tcaagggcag gttcacaatt tcccgcgaga acacacagaa aactctgtac      300
ctgcagatga atagcctgag agccgaagat acagctgtgt actattgcac tctggacggc      360
agggatgggt gggtcgccta ttggggggcag ggaaccctgg tgacagtcag ctccggagga      420
ggaggatctg gcggaggagg cagtggggga ggcgggtcaa actttatgct gaccagccc      480
cacagtgtgt cagagagccc tggcaagact gtcaccatct cttgtaaaag gaacaccgga      540
aatattggca gtaactacgt gaattggtat cagcagcatg aagggtctag tccaaccaca      600
atcatctacc gggacgataa gagacccgac ggggtgtccg atcgattctc cggatctatc      660
gaccggtcaa gcaagagtgc ttcactgacc attagcaatc tgaaaacaga ggacgaagca      720
gattactttt gccagtccta ttcctctggc ttcattcttg gaggcgggac taaactgacc      780
gtgctgggcg cggccgcagg tgcaggtggt gattacaaag atgatgacga taaaggtgca      840
gcggcgcata accatcatca ccac                                             864

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<210> SEQ ID NO: 158

<211> 107

<212> PRT

<213> Secuencia artificial

<220>

<223> secuencia de aminoácidos de C3E-7035_VL

<400> 158

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

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Arg Val Thr Ile Ser Cys Lys Arg Asn Thr Gly Asn Ile Gly Ser Asn
          20           25           30

```

```

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

```

```

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

```

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

Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Gln Ser Tyr Ser Ser Gly Phe
 85 90 95

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

<210> SEQ ID NO: 159

<211> 864

<212> ADN

<213> Secuencia artificial

<220>

<223> secuencia nucleotídica de C3E-7035

<400> 159

atgaaacacc tgtggttctt cctcctgctg gtggcagctc ccagatgggt gctgagcggg	60
gaagtgcagc tgggtggaatc cggggggggc ctggtgcagc ctgggggggag cctgagactg	120
agttgtgccg cctctggggg gacatttaac tactatggca tgtcttggat ccgccaggca	180
cctggaaagg gcctggagtg ggtggccagc atcactaatt ccggcgggcg aatctactat	240
cccgacagcg tcaagggcag gttcacaatt tcccgcgaga acacacagaa aactctgtac	300
ctgcagatga atagcctgag agccgaagat acagctgtgt actattgcac tctggacggc	360
agggatgggt gggtcgccta ttggggggcag ggaaccctgg tgacagtcag ctccggagga	420
ggaggatctg gcggaggagg cagtggggga ggcgggtcaa tggcccaggc tgtgctcact	480
cagccgtcct ctgtttctgg cgtacctggc caacgggtga ccattagctg taaaaggaat	540
accgggaata tcgggtctaa ctacgtgaac tggtatcagc agcttccagg gacagctccc	600
aagttgctga tctatcgca cgacaaaaga ccctcagggg tccctgaccg atttagtggc	660
agcaaaagcg gtacttccgc ttccctggcg ataaccggct ttcaggccga agatgaggca	720
gactactatt gccagtcata ttccagcggc ttcattctcg gaggcggaac taagctgaca	780
gtgctgggcg cggccgcagg tgcagggtgt gattacaaag atgatgacga taaaggtgca	840

gcggcgcatc accatcatca ccac

864

<210> SEQ ID NO: 160

<211> 107

<212> PRT

<213> Secuencia artificial

<220>

<223> secuencia de aminoácidos de C3E-7036_VL

<400> 160

Asn	Phe	Met	Leu	Thr	Gln	Pro	Ser	Ser	Val	Ser	Gly	Val	Pro	Gly	Gln
1				5					10					15	

Arg	Val	Thr	Ile	Ser	Cys	Thr	Gly	Asn	Thr	Gly	Asn	Ile	Gly	Ser	Asn
			20					25					30		

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

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

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

Ala	Glu	Asp	Glu	Ala	Asp	Tyr	Tyr	Cys	Gln	Ser	Tyr	Ser	Ser	Gly	Phe
				85					90					95	

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

<210> SEQ ID NO: 161

<211> 858

<212> ADN

<213> Secuencia artificial

<220>

<223> secuencia nucleotídica de C3E-7036

<400> 161

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gaagtgcagc tgggtggaatc cggggggggc ctggtgcagc ctgggggggag cctgagactg	120
agttgtgccg cctctggggg gacatttaac tactatggca tgtcttgat cgcgcaggca	180
cctggaaagg gcctggagtg ggtggccagc atcactaatt ccggcgggcg aatctactat	240
cccgacagcg tcaagggcag gttcacaatt tcccgcgaga acacacagaa aactctgtac	300
ctgcagatga atagcctgag agccgaagat acagctgtgt actattgcac tctggacggc	360
agggatgggt gggtcgccta ttggggggcag ggaaccctgg tgacagtcag ctccggagga	420
ggaggatctg gcggaggagg cagtggggga ggcggtcaa actttatgct cactcagccg	480
tcctctgttt ctggcgtacc tggccaacgg gtgaccatta gctgtacggg taataccggg	540
aatatcgggt ctaactacgt gaactggtat cagcagcttc caggacagc tccaagttg	600
ctgatctatc gcgacgaaa aagaccctca ggggtccctg accgatttag tggcagcaaa	660
agcgggtactt ccgcttcctt ggcgataacc ggctttcagg ccgaagatga ggcagactac	720
tattgccagt catattccag cggcttcac ttcggaggcg gaactaagct gacagtgttg	780
ggtgcggccg caggtgcagg tggtgattac aaagatgatg acgataaagg tgcagcggcg	840
catcaccatc atcaccac	858

<210> SEQ ID NO: 162

<211> 1599

<212> ADN

<213> Secuencia artificial

<220>

<223> secuencia nucleotídica de C2037-C3E-7034

<400> 162

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caggtgcagc tgggtgcagtc tggcgccgaa gtgaagaaac caggcgccag cgtgaagggtg	120
tcctgcaagg ccagcggcta cacctttacc ggctactaca tgcaactgggt gcgccaggct	180
ccaggccagg gactggaatg gatgggccgg atcaaccca atagcggcg caccaactac	240
gccagaaat tccagggcag agtgaccatg acccgggaca ccagcatcag caccgcctac	300

atggaactga gccggctgag aagcgacgac accgccgtgt actactgcgc cagcggcaag	360
agcaactacc cttggggcca gggcacactc gtgaccgtgt ctagcggagg cggaggatct	420
ggcggcggag gaagtggcgg aggggggatct cagcctgtgc tgacacagcc tcctagcgcc	480
tctggcacac ctggccagag agtgacaatc agctgcagcg gcagcaacag caacatcggc	540
agccggaccg tgaactggta tcagcatctg cctggcaccg cccccagact gctgatctac	600
ggcaacaacc agtggcccag cggcgtgccc gatagattca gcggctctaa gagcggcagc	660
tccgccagcc tggccatctc tggactgaga tccgaggacg aggccgacta ctactgtgcc	720
gcctgggacg atagcctgag cggcgtggtg tttggcggag gcaccaagct gacagtgtctg	780
ggcggaggcg gttcagaagt gcagctggtg gaatccgggg ggggcctggt gcagcctggg	840
gggagcctga gactgagttg tgccgcctct ggggtgacat ttaactacta tggcatgtct	900
tggatccgcc aggcacctgg aaagggcctg gagtgggtgg ccagcatcac taattccggc	960
gggcgaatct actatcccga cagcgtcaag ggcaggttca caatttcccg cgagaacaca	1020
cagaaaactc tgtacctgca gatgaatagc ctgagagccg aagatacagc tgtgtactat	1080
tgcactctgg acggcaggga tgggtgggtc gcctattggg ggcagggaac cctggtgaca	1140
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atgctgaccc agccccacag tgtgtcagag agccctggca agactgtcac catctcttgt	1260
aaaaggaaca ccggaatat tggcagtaac tacgtgaatt ggtatcagca gcatgaagg	1320
tctagtccaa ccacaatcat ctaccgggac gataagagac ccgacggggt gtccgatcga	1380
ttctccggat ctatcgaccg gtcaagcaag agtgcttcac tgaccattag caatctgaaa	1440
acagaggacg aagcagatta cttttgccag tcctattcct ctggcttcat ctttgagggc	1500
gggactaaac tgaccgtgct gggcgcggcc gcaggtgcag gtggtgatta caaagatgat	1560
gacgataaag gtgcagcggc gcataccat catcaccac	1599

<210> SEQ ID NO: 163

<211> 1623

<212> ADN

<213> Secuencia artificial

<220>

<223> secuencia nucleotídica de C3048-C3E-7034

<400> 163

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caggtgcagc tgggtgcagtc tggcgccgaa gtgaagaaac ccggcagcag cgtgaaggtg	120
tcctgcaagg ctagcggcgg caccttcagc agatacgcca tctcttgggt gcgccaggcc	180
cctggacagg gcctggaatg gatgggcggc atcatcccca tcttcggcac cgccaactac	240
gccagaaat tccagggcag agtgaccatc accgccgacc agagcaccgg gaccgcctat	300
atggatctgg gccggctgag aagcgaggac accgccgtgt actactgcgc cctggaaggc	360
ttccgggaca gcctgaagag aaacccttc gacatctggg gccagggcac aatggtcacc	420
gtgtctagcg gaggcggagg atctggcggc ggaggaagtg gcggaggggg atctcagtct	480
gtcgtgacct agcctcctag cgtgtcagcc gcccaggcc agaaagtgac aatcagctgt	540
tctggcggca ccaccaacat cggcagcaac tacgtgtcct ggtatcagca gctgcccgga	600
accgccccca agttcctgat gtacgagaac aacaagcggc ccagcggcat ccccgacaga	660
ttcagcggca gcaagagcgg cacaagcgcc aactggcca tcaccggact gcagacaggc	720
gacgaggcca cctactactg ctccacctgg gacagcagcc tgaacaccgg cctgtttggc	780
ggaggcacca agctgacagt gctgggcgga ggcggttcag aagtgcagct ggtggaatcc	840
ggggggggcc tgggtgcagcc tgggggggagc ctgagactga gttgtgccgc ctctggggtg	900
acatttaact actatggcat gtcttggatc cgccaggcac ctggaaaggg cctggagtgg	960
gtggccagca tcactaattc cggcggggcg atctactatc ccgacagcgt caagggcagg	1020
ttcacaattt cccgcgagaa cacacagaaa actctgtacc tgcagatgaa tagcctgaga	1080
gccgaagata cagctgtgta ctattgcact ctggacggca gggatgggtg ggtcgcctat	1140
tggggggcagg gaaccctggg gacagtcagc tccggaggag gaggatctgg cggaggaggc	1200
agtgggggag gcgggtcaaa ctttatgctg acccagcccc acagtgtgtc agagagccct	1260
ggcaagactg tcaccatctc ttgtaaaagg aacaccggaa atattggcag taactacgtg	1320

aattggtatc agcagcatga aggggtctagt ccaaccacaa tcactctaccg ggacgataag 1380
agacccgacg ggggtgtccga tcgattctcc ggatctatcg accgggtcaag caagagtgtc 1440
tactgacca ttagcaatct gaaaacagag gacgaagcag attacttttg ccagtcctat 1500
tcctctggct tcacttttgg aggcgggact aaactgaccg tgctgggcgc ggccgcaggt 1560
gcaggtggtg attacaaaga tgatgacgat aaaggtgcag cggcgcatca ccatcatcac 1620
cac 1623

<210> SEQ ID NO: 164

<211> 1599

<212> ADN

<213> Secuencia artificial

<220>

<223> secuencia nucleotídica de C3022-C3E-7034

<400> 164

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caggtgcagc tgggtgcagtc tggcgccgaa gtgaagaaac caggcgccag cgtgaaggtg 120
tcctgcaagg ccagcggcta cacctttacc ggctactaca tgcactgggt gcgccaggct 180
ccaggccagg gactggaatg gatgggccgg atcaacccca atagcggcgg caccaactac 240
gccagaaaat tccagggcag agtgaccatg acccgggaca ccagcatcag caccgcctac 300
atggaactga gcggcctgag aagcgacgac accgccgtgt actactgtgc ctctggctct 360
gtgcggcacc cttggggaca gggaacactc gtgaccgtgt ccagcgggtg aggcggttca 420
ggcggaggtg gcagcggcgg tggcgggagt cagcctgtgc tgacacagcc tccaagcgcc 480
tctggcacac ctggccagag agtgacaatc agctgcagcg gcagcagaag caacatcggc 540
ggcaacatcg tgtcctggta tcagcagttc cccggcaccg cccctagact gctgacctac 600
gccgacaacc agaggcctag cggcgtgccc gatagattca ggggtctctaa gagcggcacc 660
agcgccagcc tggccatctc tggcctgcag tctgaggacg aggcgacta ctattgcgcc 720
gcctgggacg acagcctgaa cggcgtggtg tttggcggag gcaccaagct gacagtgtctg 780
ggcggaggcg gttcagaagt gcagctggtg gaatccgggg ggggcctggt gcagcctggg 840

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gggagcctga gactgagttg tgccgcctct ggggtgacat ttaactacta tggcatgtct      900
tggatccgcc aggcacctgg aaagggcctg gagtgggtgg ccagcatcac taattccggc      960
gggcgaatct actatcccga cagcgtcaag ggcaggttca caatttcccg cgagaacaca     1020
cagaaaactc tgtacctgca gatgaatagc ctgagagccg aagatacagc tgtgtactat     1080
tgcactctgg acggcagggg tgggtgggtc gcctattggg ggcaggggaa cctggtgaca     1140
gtcagctccg gaggaggagg atctggcgga ggaggcagtg ggggaggcgg gtcaaacttt     1200
atgctgaccc agccccacag tgtgtcagag agccctggca agactgtcac catctcttgt     1260
aaaaggaaca ccggaaatat tggcagtaac tacgtgaatt ggtatcagca gcatgaaggg     1320
tctagtccaa ccacaatcat ctaccgggac gataagagac ccgacggggg gtccgatcga     1380
ttctccggat ctatcgaccg gtcaagcaag agtgcttcac tgaccattag caatctgaaa     1440
acagaggacg aagcagatta cttttgccag tcctattcct ctggcttcat ctttgagggc     1500
gggactaaac tgaccgtgct gggcgcgggc gcaggtgcag gtggtgatta caaagatgat     1560
gacgataaag gtgcagcggc gcatcaccat catcaccac                               1599

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<210> SEQ ID NO: 165

<211> 1599

<212> ADN

<213> Secuencia artificial

<220>

<223> secuencia nucleotídica de C2037-C3E-7035

<400> 165

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atgaaacacc tgtggttctt ctcctgctg gtggcagctc ccagatgggt gctgagcggg      60
caggtgcagc tgggtgcagtc tggcgccgaa gtgaagaaac caggcgccag cgtgaagggt      120
tcctgcaagg ccagcggcta cacctttacc ggctactaca tgcactgggt gcgccaggct      180
ccaggccagg gactggaatg gatgggcccg atcaacccca atagcggcgg caccaactac      240
gccagaaaat tccagggcag agtgaccatg acccgggaca ccagcatcag caccgcctac      300
atggaactga gccggctgag aagcgacgac accgccgtgt actactgcgc cagcggcaag      360
agcaactacc cttggggcca gggcacactc gtgaccgtgt ctagcggagg cggaggatct      420

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ggcggcggag gaagtggcgg aggggggatct cagcctgtgc tgacacagcc tcctagcgcc      480
tctggcacac ctggccagag agtgacaatc agctgcagcg gcagcaacag caacatcggc      540
agccggaccg tgaactggta tcagcatctg cctggcaccg cccccagact gctgatctac      600
ggcaacaacc agtggcccag cggcgtgccc gatagattca gcggtcttaa gagcggcagc      660
tccgccagcc tggccatctc tggactgaga tccgaggacg aggccgacta ctactgtgcc      720
gcctgggacg atagcctgag cggcgtgggtg tttggcggag gcaccaagct gacagtgtctg      780
ggcggaggcg gttcagaagt gcagctgggtg gaatccgggg ggggcctggt gcagcctggg      840
gggagcctga gactgagttg tgccgcctct ggggtgacat ttaactacta tggcatgtct      900
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gggcgaatct actatcccga cagcgtcaag ggcaggttca caatttcccg cgagaacaca     1020
cagaaaactc tgtacctgca gatgaatagc ctgagagccg aagatacagc tgtgtactat     1080
tgcactctgg acggcaggga tgggtgggtc gcctattggg ggcagggaac cctggtgaca     1140
gtcagctccg gaggaggagg atctggcgga ggaggcagtg ggggaggcgg gtcaatggcc     1200
caggctgtgc tactcagcc gtcctctgtt tctggcgtag ctggccaacg ggtgaccatt     1260
agctgtaaaa ggaataccgg gaatatcggg tctaactacg tgaactggta tcagcagctt     1320
ccagggacag ctccaagtt gctgatctat cgcgacgaca aaagaccctc aggggtccct     1380
gaccgattta gtggcagcaa aagcgggtact tccgcttccc tggcgataac cggctttcag     1440
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ggaactaagc tgacagtgtt gggcgcggcc gcaggtgcag gtggtgatta caaagatgat     1560
gacgataaag gtgcagcggc gcatcaccat catcaccac                               1599

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<210> SEQ ID NO: 166

<211> 1623

<212> ADN

<213> Secuencia artificial

<220>

<223> secuencia nucleotídica de C3048-C3E-7035

<400> 166

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caggtgcagc	tgggtgcagtc	tggcgccgaa	gtgaagaaac	ccggcagcag	cgtgaagggtg	120
tcctgcaagg	ctagcggcgg	caccttcagc	agatacgcca	tctcttgggt	gcgccaggcc	180
cctggacagg	gcctggaatg	gatgggcggc	atcatcccca	tcttcggcac	cgccaactac	240
gcccagaaat	tccagggcag	agtgaccatc	accgccgacc	agagcaccgc	gaccgcctat	300
atggatctgg	gccggctgag	aagcgaggac	accgccgtgt	actactgcgc	cctggaaggc	360
ttccgggaca	gcctgaagag	aaaccccttc	gacatctggg	gccagggcac	aatgggtcacc	420
gtgtctagcg	gaggcggagg	atctggcggc	ggaggaagtg	gcggaggggg	atctcagtct	480
gtcgtgacct	agcctcctag	cgtgtcagcc	gcccaggcc	agaaagtgac	aatcagctgt	540
tctggcggca	ccaccaacat	cggcagcaac	tacgtgtcct	ggtatcagca	gctgcccggg	600
accgccccca	agttcctgat	gtacgagaa	aacaagcggc	ccagcggcat	ccccgacaga	660
ttcagcggca	gcaagagcgg	cacaagcggc	acactggcca	tcaccggact	gcagacaggc	720
gacgaggcca	cctactactg	ctccacctgg	gacagcagcc	tgaacaccgg	cctgtttggc	780
ggaggcacca	agctgacagt	gctgggcgga	ggcggttcag	aagtgcagct	ggtggaatcc	840
ggggggggcc	tgggtgcagcc	tgggggggag	ctgagactga	gttgtgccgc	ctctgggggtg	900
acatttaact	actatggcat	gtcttggtatc	cgccaggcac	ctggaaaggg	cctggagtgg	960
gtggccagca	tcactaattc	cggcgggcga	atctactatc	ccgacagcgt	caagggcagg	1020
ttcacaattt	cccgcgagaa	cacacagaaa	actctgtacc	tgcagatgaa	tagcctgaga	1080
gccgaagata	cagctgtgta	ctattgcact	ctggacggca	gggatgggtg	ggtcgcctat	1140
tggggggcagg	gaaccctggg	gacagtcagc	tccggaggag	gaggatctgg	cggaggaggc	1200
agtggggggag	gcgggtcaat	ggcccaggct	gtgctcactc	agccgtcctc	tgtttctggc	1260
gtacctggcc	aacgggtgac	cattagctgt	aaaaggaata	ccgggaatat	cgggtctaac	1320
tacgtgaact	ggtatcagca	gcttccaggg	acagctccca	agttgctgat	ctatcgcgac	1380
gacaaaagac	cctcaggggt	ccctgaccga	tttagtggca	gcaaaagcgg	tacttccgct	1440

tccctggcga taaccggctt tcaggccgaa gatgaggcag actactattg ccagtcatat	1500
tccagcggct tcatcttcgg aggcggaact aagctgacag tgttgggcgc ggccgcaggt	1560
gcaggtggtg attacaaaga tgatgacgat aaaggtgcag cggcgcatca ccatcatcac	1620
cac	1623

<210> SEQ ID NO: 167

<211> 1599

<212> ADN

<213> Secuencia artificial

<220>

<223> secuencia nucleotídica de C3022-C3E-7035

<400> 167

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caggtgcagc tgggtgcagtc tggcgccgaa gtgaagaaac caggcgccag cgtgaaggtg	120
tcctgcaagg ccagcggcta cacctttacc ggctactaca tgcaactgggt gcgccaggct	180
ccaggccagg gactggaatg gatggggccg atcaacccca atagcggcgg caccaactac	240
gccagaaat tccagggcag agtgaccatg acccgggaca ccagcatcag caccgcctac	300
atggaactga gcggcctgag aagcgacgac accgccgtgt actactgtgc ctctggctct	360
gtgcggcacc ctgggggaca gggaacactc gtgaccgtgt ccagcgggtg aggcggttca	420
ggcggaggtg gcagcggcgg tggcgggagt cagcctgtgc tgacacagcc tccaagcgcc	480
tctggcacac ctggccagag agtgacaatc agctgcagcg gcagcagaag caacatcggc	540
ggcaacatcg tgtcctggta tcagcagttc cccggcaccg cccctagact gctgacctac	600
gccgacaacc agaggcctag cggcgtgccc gatagattca gcggctctaa gagcggcacc	660
agcggcagcc tggccatctc tggcctgcag tctgaggacg aggccgacta ctattgcgcc	720
gcctgggacg acagcctgaa cggcgtggtg tttggcggag gcaccaagct gacagtgtgtg	780
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tggatccgcc aggcacctgg aaagggcctg gagtgggtgg ccagcatcac taattccggc	960
gggcgaatct actatcccga cagcgtcaag ggcaggttca caatttcccg cgagaacaca	1020
cagaaaactc tgtacctgca gatgaatagc ctgagagccg aagatacagc tgtgtactat	1080
tgcactctgg acggcagggg tgggtgggtc gcctattggg ggcaggggaa cctggtgaca	1140
gtcagctccg gaggaggagg atctggcgga ggaggcagt ggggaggcgg gtcaatggcc	1200
caggctgtgc tcactcagcc gtcctctgtt tctggcgtag ctggccaacg ggtgaccatt	1260
agctgtaaaa ggaataccgg gaatatcggg tctaactacg tgaactggta tcagcagctt	1320
ccagggacag ctccaagtt gctgatctat cgcgacgaca aaagaccctc aggggtccct	1380
gaccgattta gtggcagcaa aagcgggtact tccgcttccc tggcgataac cggctttcag	1440
gccgaagatg aggcagacta ctattgccag tcatattcca gcggcttcat cttcggaggc	1500
ggaactaagc tgacagtgtt gggcgcggcc gcaggtgcag gtggtgatta caaagatgat	1560
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<210> SEQ ID NO: 168

<211> 1593

<212> ADN

<213> Secuencia artificial

<220>

<223> secuencia nucleotídica de C2037-C3E-7036

<400> 168

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tcctgcaagg ccagcggcta cacctttacc ggctactaca tgcaactgggt gcgccaggct	180
ccaggccagg gactggaatg gatggggccg atcaacccca atagcggcgg caccaactac	240
gcccagaaat tccagggcag agtgaccatg acccgggaca ccagcatcag caccgcctac	300
atggaactga gccggctgag aagcgacgac accgccgtgt actactgcgc cagcggcaag	360
agcaactacc cttggggcca gggcacactc gtgaccgtgt ctagcggagg cggaggatct	420
ggcggcggag gaagtggcgg agggggatct cagcctgtgc tgacacagcc tcctagcgcc	480

tctggcacac ctggccagag agtgacaatc agctgcagcg gcagcaacag caacatcggc	540
agccggaccg tgaactggta tcagcatctg cctggcaccg cccccagact gctgatctac	600
ggcaacaacc agtggcccag cggcgtgccc gatagattca gcggtctctaa gagcggcagc	660
tccgccagcc tggccatctc tggactgaga tccgaggacg aggccgacta ctactgtgcc	720
gcctgggacg atagcctgag cggcgtgggtg tttggcggag gcaccaagct gacagtgtctg	780
ggcggaggcg gttcagaagt gcagctgggtg gaatccgggg ggggcctggt gcagcctggg	840
gggagcctga gactgagttg tgccgcctct ggggtgacat ttaactacta tggcatgtct	900
tggatccgcc aggcacctg aaagggcctg gagtgggtgg ccagcatcac taattccggc	960
gggcgaatct actatcccga cagcgtcaag ggcaggttca caatttcccg cgagaacaca	1020
cagaaaactc tgtacctgca gatgaatagc ctgagagccg aagatacagc tgtgtactat	1080
tgcactctgg acggcaggga tgggtgggtc gcctattggg ggcagggaac cctggtgaca	1140
gtcagctccg gaggaggagg atctggcgga ggaggcagtg ggggaggcgg gtcaaacttt	1200
atgctcactc agccgtctc tgtttctggc gtacctggcc aacgggtgac cattagctgt	1260
acgggtaata ccgggaatat cgggtctaac tacgtgaact ggtatcagca gcttcagggg	1320
acagctccca agttgctgat ctatcgcgac gacaaaagac cctcaggggt ccctgaccga	1380
tttagtggca gcaaaagcgg tacttccgct tccctggcga taaccggctt tcaggccgaa	1440
gatgaggcag actactattg ccagtcatat tccagcggct tcattctcgg aggcggaact	1500
aagctgacag tgttgggcgc ggccgcaggt gcaggtgggtg attacaaaga tgatgacgat	1560
aaaggtgcag cggcgcacat ccatcatcac cac	1593

<210> SEQ ID NO: 169

<211> 1617

<212> ADN

<213> Secuencia artificial

<220>

<223> secuencia nucleotídica de C3048-C3E-7036

<400> 169

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caggtgcagc	tggtgcagtc	tggcgccgaa	gtgaagaaac	ccggcagcag	cgtgaaggtg	120
tcctgcaagg	ctagcggcgg	caccttcagc	agatacgcca	tctcttgggg	gcgccaggcc	180
cctggacagg	gcctggaatg	gatgggcggc	atcatcccca	tcttcggcac	cgccaactac	240
gccagaaaat	tccagggcag	agtgaccatc	accgccgacc	agagcaccgc	gaccgcctat	300
atggatctgg	gccggctgag	aagcgaggac	accgccgtgt	actactgcgc	cctggaaggc	360
ttccggggaca	gcctgaagag	aaaccccttc	gacatctggg	gccagggcac	aatggtcacc	420
gtgtctagcg	gaggcggagg	atctggcggc	ggaggaagtg	gcggaggggg	atctcagtct	480
gtcgtgaccc	agcctcctag	cgtgtcagcc	gcccaggcc	agaaagtgac	aatcagctgt	540
tctggcggca	ccaccaacat	cggcagcaac	tacgtgtcct	ggtatcagca	gctgcccgga	600
accgccccca	agttcctgat	gtacgagaac	aacaagcggc	ccagcggcat	ccccgacaga	660
ttcagcggca	gcaagagcgg	cacaagcgcc	acactggcca	tcaccggact	gcagacaggc	720
gacgaggcca	cctactactg	ctccacctgg	gacagcagcc	tgaacaccgc	cctgtttggc	780
ggaggcacca	agctgacagt	gctgggcgga	ggcggttcag	aagtgcagct	ggtggaatcc	840
ggggggggcc	tggtgcagcc	tggggggagc	ctgagactga	gttggtgccg	ctctgggggtg	900
acattttaact	actatggcat	gtcttgatc	cgccaggcac	ctggaaaggg	cctggagtg	960
gtggccagca	tcactaatc	cggcgggcga	atctactatc	ccgacagcgt	caagggcagg	1020
ttcacaattt	cccgcgagaa	cacacagaaa	actctgtacc	tgcagatgaa	tagcctgaga	1080
gccgaagata	cagctgtgta	ctattgcact	ctggacggca	gggatgggtg	ggtcgcctat	1140
tgggggcagg	gaaccctgg	gacagtcagc	tccggaggag	gaggatctgg	cggaggaggc	1200
agtgggggag	gcgggtcaaa	ctttatgctc	actcagccgt	cctctgtttc	tggcgtacct	1260
ggccaacggg	tgaccattag	ctgtacgggt	aataccggga	atatcgggtc	taactacgtg	1320
aactggtatc	agcagcttcc	agggacagct	ccaagttgc	tgatctatcg	cgacgacaaa	1380
agaccctcag	gggtccctga	ccgatttagt	ggcagcaaaa	gcggtacttc	cgcttccctg	1440
gcgataaccg	gctttcaggc	cgaagatgag	gcagactact	attgccagtc	atattccagc	1500

ggcttcatct tcggaggcgg aactaagctg acagtgttgg gcgcggccgc aggtgcaggt 1560

ggtgattaca aagatgatga cgataaaggt gcagcggcgc atcaccatca tcaccac 1617

<210> SEQ ID NO: 170

<211> 1593

<212> ADN

<213> Secuencia artificial

<220>

<223> secuencia nucleotídica de C3022-C3E-7036

<400> 170

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caggtgcagc tgggtgcagtc tggcgccgaa gtgaagaaac caggcgccag cgtgaagggtg 120

tcctgcaagg ccagcggcta cacctttacc ggctactaca tgcactgggt gcgccaggct 180

ccaggccagg gactggaatg gatggggccg atcaaccca atagcggcgg caccaactac 240

gcccagaaat tccagggcag agtgaccatg acccgggaca ccagcatcag caccgcctac 300

atggaactga gcggcctgag aagcgacgac accgccgtgt actactgtgc ctctggctct 360

gtgcggcacc cttggggaca gggaacactc gtgaccgtgt ccagcgggtg aggcggttca 420

ggcggagggtg gcagcggcgg tggcgggagt cagcctgtgc tgacacagcc tccaagcgcc 480

tctggcacac ctggccagag agtgacaatc agctgcagcg gcagcagaag caacatcggc 540

ggcaacatcg tgtcctggta tcagcagttc cccggcaccg cccctagact gctgacctac 600

gccgacaacc agaggcctag cggcgtgccc gatagattca gcggctctaa gagcggcacc 660

agcggcagcc tggccatctc tggcctgcag tctgaggacg aggccgacta ctattgcgcc 720

gcctgggacg acagcctgaa cggcgtggtg tttggcggag gcaccaagct gacagtgctg 780

ggcggaggcg gttcagaagt gcagctggtg gaatccgggg ggggcctggt gcagcctggg 840

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tggatccgcc aggcacctgg aaagggcctg gagtgggtgg ccagcatcac taattccggc 960

gggcgaatct actatcccga cagcgtcaag ggcaggttca caatttcccg cgagaacaca 1020

cagaaaactc tgtacctgca gatgaatagc ctgagagccg aagatacagc tgtgtactat 1080

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tgcactctgg acggcagggg tgggtgggtc gcctattggg ggcaggggaa cctgggtgaca      1140
gtcagctccg gaggaggagg atctggcgga ggaggcagtg ggggaggcgg gtcaaacttt      1200
atgctcactc agccgtcctc tgtttctggc gtacctggcc aacgggtgac cattagctgt      1260
acgggtaata ccgggaatat cgggtctaac tacgtgaact ggtatcagca gcttccaggg      1320
acagctccca agttgctgat ctatcgcgac gacaaaagac cctcaggggt ccctgaccga      1380
tttagtggca gcaaagcgg tacttccgct tccctggcga taaccggctt tcaggccgaa      1440
gatgaggcag actactattg ccagtcatat tccagcggct tcattctcgg aggcggaact      1500
aagctgacag tgttgggcgc ggccgcaggt gcaggtgggtg attacaaaga tgatgacgat      1560
aaaggtgcag cggcgcatca ccatcatcac cac                                     1593

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<210> SEQ ID NO: 171

<211> 533

<212> PRT

<213> Secuencia artificial

<220>

<223> secuencia de aminoácidos de C2037-C3E-7034

<400> 171

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Met Lys His Leu Trp Phe Phe Leu Leu Leu Val Ala Ala Pro Arg Trp
1              5              10              15

```

```

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

```

```

Lys Pro Gly Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr
35              40              45

```

```

Phe Thr Gly Tyr Tyr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly
50              55              60

```

```

Leu Glu Trp Met Gly Arg Ile Asn Pro Asn Ser Gly Gly Thr Asn Tyr
65              70              75              80

```

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

Ser Thr Ala Tyr Met Glu Leu Ser Arg Leu Arg Ser Asp Asp Thr Ala
100 105 110

Val Tyr Tyr Cys Ala Ser Gly Lys Ser Asn Tyr Pro Trp Gly Gln Gly
115 120 125

Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly
130 135 140

Ser Gly Gly Gly Gly Ser Gln Pro Val Leu Thr Gln Pro Pro Ser Ala
145 150 155 160

Ser Gly Thr Pro Gly Gln Arg Val Thr Ile Ser Cys Ser Gly Ser Asn
165 170 175

Ser Asn Ile Gly Ser Arg Thr Val Asn Trp Tyr Gln His Leu Pro Gly
180 185 190

Thr Ala Pro Arg Leu Leu Ile Tyr Gly Asn Asn Gln Trp Pro Ser Gly
195 200 205

Val Pro Asp Arg Phe Ser Gly Ser Lys Ser Gly Ser Ser Ala Ser Leu
210 215 220

Ala Ile Ser Gly Leu Arg Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala
225 230 235 240

Ala Trp Asp Asp Ser Leu Ser Gly Val Val Phe Gly Gly Gly Thr Lys
245 250 255

Leu Thr Val Leu Gly Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser
260 265 270

Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala
 275 280 285

Ala Ser Gly Val Thr Phe Asn Tyr Tyr Gly Met Ser Trp Ile Arg Gln
 290 295 300

Ala Pro Gly Lys Gly Leu Glu Trp Val Ala Ser Ile Thr Asn Ser Gly
 305 310 315 320

Gly Arg Ile Tyr Tyr Pro Asp Ser Val Lys Gly Arg Phe Thr Ile Ser
 325 330 335

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

Ala Glu Asp Thr Ala Val Tyr Tyr Cys Thr Leu Asp Gly Arg Asp Gly
 355 360 365

Trp Val Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly
 370 375 380

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Asn Phe
 385 390 395 400

Met Leu Thr Gln Pro His Ser Val Ser Glu Ser Pro Gly Lys Thr Val
 405 410 415

Thr Ile Ser Cys Lys Arg Asn Thr Gly Asn Ile Gly Ser Asn Tyr Val
 420 425 430

Asn Trp Tyr Gln Gln His Glu Gly Ser Ser Pro Thr Thr Ile Ile Tyr
 435 440 445

Arg Asp Asp Lys Arg Pro Asp Gly Val Ser Asp Arg Phe Ser Gly Ser
 450 455 460

Ile Asp Arg Ser Ser Lys Ser Ala Ser Leu Thr Ile Ser Asn Leu Lys
 465 470 475 480

Thr Glu Asp Glu Ala Asp Tyr Phe Cys Gln Ser Tyr Ser Ser Gly Phe
 485 490 495

Ile Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Ala Ala Ala Gly
 500 505 510

Ala Gly Gly Asp Tyr Lys Asp Asp Asp Lys Gly Ala Ala Ala His
 515 520 525

His His His His His
 530

<210> SEQ ID NO: 172

<211> 541

<212> PRT

<213> Secuencia artificial

<220>

<223> secuencia de aminoácidos de C3048-C3E-7034

<400> 172

Met Lys His Leu Trp Phe Phe Leu Leu Leu Val Ala Ala Pro Arg Trp
 1 5 10 15

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

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

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

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

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

Arg Thr Ala Tyr Met Asp Leu Gly Arg Leu Arg Ser Glu Asp Thr Ala
100 105 110

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

Pro Phe Asp Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly
130 135 140

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser
145 150 155 160

Val Val Thr Gln Pro Pro Ser Val Ser Ala Ala Pro Gly Gln Lys Val
165 170 175

Thr Ile Ser Cys Ser Gly Gly Thr Thr Asn Ile Gly Ser Asn Tyr Val
180 185 190

Ser Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Phe Leu Met Tyr
195 200 205

Glu Asn Asn Lys Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser
210 215 220

Lys Ser Gly Thr Ser Ala Thr Leu Ala Ile Thr Gly Leu Gln Thr Gly
225 230 235 240

Asp Glu Ala Thr Tyr Tyr Cys Ser Thr Trp Asp Ser Ser Leu Asn Thr
245 250 255

Gly Leu Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gly Gly Gly
260 265 270

Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly
 275 280 285

Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Val Thr Phe Asn Tyr
 290 295 300

Tyr Gly Met Ser Trp Ile Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp
 305 310 315 320

Val Ala Ser Ile Thr Asn Ser Gly Gly Arg Ile Tyr Tyr Pro Asp Ser
 325 330 335

Val Lys Gly Arg Phe Thr Ile Ser Arg Glu Asn Thr Gln Lys Thr Leu
 340 345 350

Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr
 355 360 365

Cys Thr Leu Asp Gly Arg Asp Gly Trp Val Ala Tyr Trp Gly Gln Gly
 370 375 380

Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly
 385 390 395 400

Ser Gly Gly Gly Gly Ser Asn Phe Met Leu Thr Gln Pro His Ser Val
 405 410 415

Ser Glu Ser Pro Gly Lys Thr Val Thr Ile Ser Cys Lys Arg Asn Thr
 420 425 430

Gly Asn Ile Gly Ser Asn Tyr Val Asn Trp Tyr Gln Gln His Glu Gly
 435 440 445

Ser Ser Pro Thr Thr Ile Ile Tyr Arg Asp Asp Lys Arg Pro Asp Gly
 450 455 460

Val Ser Asp Arg Phe Ser Gly Ser Ile Asp Arg Ser Ser Lys Ser Ala
465 470 475 480

Ser Leu Thr Ile Ser Asn Leu Lys Thr Glu Asp Glu Ala Asp Tyr Phe
485 490 495

Cys Gln Ser Tyr Ser Ser Gly Phe Ile Phe Gly Gly Gly Thr Lys Leu
500 505 510

Thr Val Leu Gly Ala Ala Ala Gly Ala Gly Gly Asp Tyr Lys Asp Asp
515 520 525

Asp Asp Lys Gly Ala Ala Ala His His His His His His
530 535 540

<210> SEQ ID NO: 173

<211> 533

<212> PRT

<213> Secuencia artificial

<220>

<223> secuencia de aminoácidos de C3022-C3E-7034

<400> 173

Met Lys His Leu Trp Phe Phe Leu Leu Leu Val Ala Ala Pro Arg Trp
1 5 10 15

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

Lys Pro Gly Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr
35 40 45

Phe Thr Gly Tyr Tyr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly
50 55 60

Leu Glu Trp Met Gly Arg Ile Asn Pro Asn Ser Gly Gly Thr Asn Tyr
65 70 75 80

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

Ser Thr Ala Tyr Met Glu Leu Ser Gly Leu Arg Ser Asp Asp Thr Ala
 100 105 110

Val Tyr Tyr Cys Ala Ser Gly Ser Val Arg His Pro Trp Gly Gln Gly
 115 120 125

Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly
 130 135 140

Ser Gly Gly Gly Gly Ser Gln Pro Val Leu Thr Gln Pro Pro Ser Ala
 145 150 155 160

Ser Gly Thr Pro Gly Gln Arg Val Thr Ile Ser Cys Ser Gly Ser Arg
 165 170 175

Ser Asn Ile Gly Gly Asn Ile Val Ser Trp Tyr Gln Gln Phe Pro Gly
 180 185 190

Thr Ala Pro Arg Leu Leu Thr Tyr Ala Asp Asn Gln Arg Pro Ser Gly
 195 200 205

Val Pro Asp Arg Phe Ser Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu
 210 215 220

Ala Ile Ser Gly Leu Gln Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala
 225 230 235 240

Ala Trp Asp Asp Ser Leu Asn Gly Val Val Phe Gly Gly Gly Thr Lys
 245 250 255

Leu Thr Val Leu Gly Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser
 260 265 270

Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala
 275 280 285

Ala Ser Gly Val Thr Phe Asn Tyr Tyr Gly Met Ser Trp Ile Arg Gln
 290 295 300

Ala Pro Gly Lys Gly Leu Glu Trp Val Ala Ser Ile Thr Asn Ser Gly
 305 310 315 320

Gly Arg Ile Tyr Tyr Pro Asp Ser Val Lys Gly Arg Phe Thr Ile Ser
 325 330 335

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

Ala Glu Asp Thr Ala Val Tyr Tyr Cys Thr Leu Asp Gly Arg Asp Gly
 355 360 365

Trp Val Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly
 370 375 380

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Asn Phe
 385 390 395 400

Met Leu Thr Gln Pro His Ser Val Ser Glu Ser Pro Gly Lys Thr Val
 405 410 415

Thr Ile Ser Cys Lys Arg Asn Thr Gly Asn Ile Gly Ser Asn Tyr Val
 420 425 430

Asn Trp Tyr Gln Gln His Glu Gly Ser Ser Pro Thr Thr Ile Ile Tyr
 435 440 445

Arg Asp Asp Lys Arg Pro Asp Gly Val Ser Asp Arg Phe Ser Gly Ser
 450 455 460

Ile Asp Arg Ser Ser Lys Ser Ala Ser Leu Thr Ile Ser Asn Leu Lys
 465 470 475 480

Thr Glu Asp Glu Ala Asp Tyr Phe Cys Gln Ser Tyr Ser Ser Gly Phe
 485 490 495

Ile Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Ala Ala Ala Gly
 500 505 510

Ala Gly Gly Asp Tyr Lys Asp Asp Asp Asp Lys Gly Ala Ala Ala His
 515 520 525

His His His His His
 530

<210> SEQ ID NO: 174

<211> 533

<212> PRT

<213> Secuencia artificial

<220>

<223> secuencia de aminoácidos de C2037-C3E-7035

<400> 174

Met Lys His Leu Trp Phe Phe Leu Leu Leu Val Ala Ala Pro Arg Trp
 1 5 10 15

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

Lys Pro Gly Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr
 35 40 45

Phe Thr Gly Tyr Tyr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly
 50 55 60

Leu Glu Trp Met Gly Arg Ile Asn Pro Asn Ser Gly Gly Thr Asn Tyr
 65 70 75 80

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

Ser Thr Ala Tyr Met Glu Leu Ser Arg Leu Arg Ser Asp Asp Thr Ala
100 105 110

Val Tyr Tyr Cys Ala Ser Gly Lys Ser Asn Tyr Pro Trp Gly Gln Gly
115 120 125

Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly
130 135 140

Ser Gly Gly Gly Gly Ser Gln Pro Val Leu Thr Gln Pro Pro Ser Ala
145 150 155 160

Ser Gly Thr Pro Gly Gln Arg Val Thr Ile Ser Cys Ser Gly Ser Asn
165 170 175

Ser Asn Ile Gly Ser Arg Thr Val Asn Trp Tyr Gln His Leu Pro Gly
180 185 190

Thr Ala Pro Arg Leu Leu Ile Tyr Gly Asn Asn Gln Trp Pro Ser Gly
195 200 205

Val Pro Asp Arg Phe Ser Gly Ser Lys Ser Gly Ser Ser Ala Ser Leu
210 215 220

Ala Ile Ser Gly Leu Arg Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala
225 230 235 240

Ala Trp Asp Asp Ser Leu Ser Gly Val Val Phe Gly Gly Gly Thr Lys
245 250 255

Leu Thr Val Leu Gly Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser
260 265 270

Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala
 275 280 285

Ala Ser Gly Val Thr Phe Asn Tyr Tyr Gly Met Ser Trp Ile Arg Gln
 290 295 300

Ala Pro Gly Lys Gly Leu Glu Trp Val Ala Ser Ile Thr Asn Ser Gly
 305 310 315 320

Gly Arg Ile Tyr Tyr Pro Asp Ser Val Lys Gly Arg Phe Thr Ile Ser
 325 330 335

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

Ala Glu Asp Thr Ala Val Tyr Tyr Cys Thr Leu Asp Gly Arg Asp Gly
 355 360 365

Trp Val Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly
 370 375 380

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Met Ala
 385 390 395 400

Gln Ala Val Leu Thr Gln Pro Ser Ser Val Ser Gly Val Pro Gly Gln
 405 410 415

Arg Val Thr Ile Ser Cys Lys Arg Asn Thr Gly Asn Ile Gly Ser Asn
 420 425 430

Tyr Val Asn Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu
 435 440 445

Ile Tyr Arg Asp Asp Lys Arg Pro Ser Gly Val Pro Asp Arg Phe Ser
 450 455 460

Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Thr Gly Phe Gln
 465 470 475 480

Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Gln Ser Tyr Ser Ser Gly Phe
 485 490 495

Ile Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Ala Ala Ala Gly
 500 505 510

Ala Gly Gly Asp Tyr Lys Asp Asp Asp Asp Lys Gly Ala Ala Ala His
 515 520 525

His His His His His
 530

<210> SEQ ID NO: 175

<211> 541

<212> PRT

<213> Secuencia artificial

<220>

<223> secuencia de aminoácidos de C3048-C3E-7035

<400> 175

Met Lys His Leu Trp Phe Phe Leu Leu Leu Val Ala Ala Pro Arg Trp
 1 5 10 15

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

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

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

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

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

Arg Thr Ala Tyr Met Asp Leu Gly Arg Leu Arg Ser Glu Asp Thr Ala
100 105 110

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

Pro Phe Asp Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly
130 135 140

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser
145 150 155 160

Val Val Thr Gln Pro Pro Ser Val Ser Ala Ala Pro Gly Gln Lys Val
165 170 175

Thr Ile Ser Cys Ser Gly Gly Thr Thr Asn Ile Gly Ser Asn Tyr Val
180 185 190

Ser Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Phe Leu Met Tyr
195 200 205

Glu Asn Asn Lys Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser
210 215 220

Lys Ser Gly Thr Ser Ala Thr Leu Ala Ile Thr Gly Leu Gln Thr Gly
225 230 235 240

Asp Glu Ala Thr Tyr Tyr Cys Ser Thr Trp Asp Ser Ser Leu Asn Thr
245 250 255

Gly Leu Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gly Gly Gly
260 265 270

Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly
 275 280 285

Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Val Thr Phe Asn Tyr
 290 295 300

Tyr Gly Met Ser Trp Ile Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp
 305 310 315 320

Val Ala Ser Ile Thr Asn Ser Gly Gly Arg Ile Tyr Tyr Pro Asp Ser
 325 330 335

Val Lys Gly Arg Phe Thr Ile Ser Arg Glu Asn Thr Gln Lys Thr Leu
 340 345 350

Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr
 355 360 365

Cys Thr Leu Asp Gly Arg Asp Gly Trp Val Ala Tyr Trp Gly Gln Gly
 370 375 380

Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly
 385 390 395 400

Ser Gly Gly Gly Gly Ser Met Ala Gln Ala Val Leu Thr Gln Pro Ser
 405 410 415

Ser Val Ser Gly Val Pro Gly Gln Arg Val Thr Ile Ser Cys Lys Arg
 420 425 430

Asn Thr Gly Asn Ile Gly Ser Asn Tyr Val Asn Trp Tyr Gln Gln Leu
 435 440 445

Pro Gly Thr Ala Pro Lys Leu Leu Ile Tyr Arg Asp Asp Lys Arg Pro
 450 455 460

Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Lys Ser Gly Thr Ser Ala
 465 470 475 480

Ser Leu Ala Ile Thr Gly Phe Gln Ala Glu Asp Glu Ala Asp Tyr Tyr
 485 490 495

Cys Gln Ser Tyr Ser Ser Gly Phe Ile Phe Gly Gly Gly Thr Lys Leu
 500 505 510

Thr Val Leu Gly Ala Ala Ala Gly Ala Gly Gly Asp Tyr Lys Asp Asp
 515 520 525

Asp Asp Lys Gly Ala Ala Ala His His His His His His
 530 535 540

<210> SEQ ID NO: 176

<211> 533

<212> PRT

<213> Secuencia artificial

<220>

<223> secuencia de aminoácidos de C3022-C3E-7035

<400> 176

Met Lys His Leu Trp Phe Phe Leu Leu Leu Val Ala Ala Pro Arg Trp
 1 5 10 15

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

Lys Pro Gly Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr
 35 40 45

Phe Thr Gly Tyr Tyr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly
 50 55 60

Leu Glu Trp Met Gly Arg Ile Asn Pro Asn Ser Gly Gly Thr Asn Tyr
 65 70 75 80

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

Ser Thr Ala Tyr Met Glu Leu Ser Gly Leu Arg Ser Asp Asp Thr Ala
 100 105 110

Val Tyr Tyr Cys Ala Ser Gly Ser Val Arg His Pro Trp Gly Gln Gly
 115 120 125

Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly
 130 135 140

Ser Gly Gly Gly Gly Ser Gln Pro Val Leu Thr Gln Pro Pro Ser Ala
 145 150 155 160

Ser Gly Thr Pro Gly Gln Arg Val Thr Ile Ser Cys Ser Gly Ser Arg
 165 170 175

Ser Asn Ile Gly Gly Asn Ile Val Ser Trp Tyr Gln Gln Phe Pro Gly
 180 185 190

Thr Ala Pro Arg Leu Leu Thr Tyr Ala Asp Asn Gln Arg Pro Ser Gly
 195 200 205

Val Pro Asp Arg Phe Ser Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu
 210 215 220

Ala Ile Ser Gly Leu Gln Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala
 225 230 235 240

Ala Trp Asp Asp Ser Leu Asn Gly Val Val Phe Gly Gly Gly Thr Lys
 245 250 255

Leu Thr Val Leu Gly Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser
 260 265 270

Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala
 275 280 285

Ala Ser Gly Val Thr Phe Asn Tyr Tyr Gly Met Ser Trp Ile Arg Gln
 290 295 300

Ala Pro Gly Lys Gly Leu Glu Trp Val Ala Ser Ile Thr Asn Ser Gly
 305 310 315 320

Gly Arg Ile Tyr Tyr Pro Asp Ser Val Lys Gly Arg Phe Thr Ile Ser
 325 330 335

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

Ala Glu Asp Thr Ala Val Tyr Tyr Cys Thr Leu Asp Gly Arg Asp Gly
 355 360 365

Trp Val Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly
 370 375 380

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Met Ala
 385 390 395 400

Gln Ala Val Leu Thr Gln Pro Ser Ser Val Ser Gly Val Pro Gly Gln
 405 410 415

Arg Val Thr Ile Ser Cys Lys Arg Asn Thr Gly Asn Ile Gly Ser Asn
 420 425 430

Tyr Val Asn Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu
 435 440 445

Ile Tyr Arg Asp Asp Lys Arg Pro Ser Gly Val Pro Asp Arg Phe Ser
 450 455 460

Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Thr Gly Phe Gln
 465 470 475 480

Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Gln Ser Tyr Ser Ser Gly Phe
 485 490 495

Ile Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Ala Ala Ala Gly
 500 505 510

Ala Gly Gly Asp Tyr Lys Asp Asp Asp Asp Lys Gly Ala Ala Ala His
 515 520 525

His His His His His
 530

<210> SEQ ID NO: 177

<211> 531

<212> PRT

<213> Secuencia artificial

<220>

<223> secuencia de aminoácidos de C2037-C3E-7036

<400> 177

Met Lys His Leu Trp Phe Phe Leu Leu Leu Val Ala Ala Pro Arg Trp
 1 5 10 15

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

Lys Pro Gly Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr
 35 40 45

Phe Thr Gly Tyr Tyr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly
 50 55 60

Leu Glu Trp Met Gly Arg Ile Asn Pro Asn Ser Gly Gly Thr Asn Tyr
 65 70 75 80

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

Ser Thr Ala Tyr Met Glu Leu Ser Arg Leu Arg Ser Asp Asp Thr Ala
100 105 110

Val Tyr Tyr Cys Ala Ser Gly Lys Ser Asn Tyr Pro Trp Gly Gln Gly
115 120 125

Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly
130 135 140

Ser Gly Gly Gly Gly Ser Gln Pro Val Leu Thr Gln Pro Pro Ser Ala
145 150 155 160

Ser Gly Thr Pro Gly Gln Arg Val Thr Ile Ser Cys Ser Gly Ser Asn
165 170 175

Ser Asn Ile Gly Ser Arg Thr Val Asn Trp Tyr Gln His Leu Pro Gly
180 185 190

Thr Ala Pro Arg Leu Leu Ile Tyr Gly Asn Asn Gln Trp Pro Ser Gly
195 200 205

Val Pro Asp Arg Phe Ser Gly Ser Lys Ser Gly Ser Ser Ala Ser Leu
210 215 220

Ala Ile Ser Gly Leu Arg Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala
225 230 235 240

Ala Trp Asp Asp Ser Leu Ser Gly Val Val Phe Gly Gly Gly Thr Lys
245 250 255

Leu Thr Val Leu Gly Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser
260 265 270

Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala
 275 280 285

Ala Ser Gly Val Thr Phe Asn Tyr Tyr Gly Met Ser Trp Ile Arg Gln
 290 295 300

Ala Pro Gly Lys Gly Leu Glu Trp Val Ala Ser Ile Thr Asn Ser Gly
 305 310 315 320

Gly Arg Ile Tyr Tyr Pro Asp Ser Val Lys Gly Arg Phe Thr Ile Ser
 325 330 335

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

Ala Glu Asp Thr Ala Val Tyr Tyr Cys Thr Leu Asp Gly Arg Asp Gly
 355 360 365

Trp Val Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly
 370 375 380

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Asn Phe
 385 390 395 400

Met Leu Thr Gln Pro Ser Ser Val Ser Gly Val Pro Gly Gln Arg Val
 405 410 415

Thr Ile Ser Cys Thr Gly Asn Thr Gly Asn Ile Gly Ser Asn Tyr Val
 420 425 430

Asn Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu Ile Tyr
 435 440 445

Arg Asp Asp Lys Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser
 450 455 460

Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Thr Gly Phe Gln Ala Glu
 465 470 475 480

Asp Glu Ala Asp Tyr Tyr Cys Gln Ser Tyr Ser Ser Gly Phe Ile Phe
 485 490 495

Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Ala Ala Ala Gly Ala Gly
 500 505 510

Gly Asp Tyr Lys Asp Asp Asp Asp Lys Gly Ala Ala Ala His His His
 515 520 525

His His His
 530

<210> SEQ ID NO: 178

<211> 539

<212> PRT

<213> Secuencia artificial

<220>

<223> secuencia de aminoácidos de C3048-C3E-7036

<400> 178

Met Lys His Leu Trp Phe Phe Leu Leu Leu Val Ala Ala Pro Arg Trp
 1 5 10 15

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

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

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

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

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

Arg Thr Ala Tyr Met Asp Leu Gly Arg Leu Arg Ser Glu Asp Thr Ala
100 105 110

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

Pro Phe Asp Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly
130 135 140

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser
145 150 155 160

Val Val Thr Gln Pro Pro Ser Val Ser Ala Ala Pro Gly Gln Lys Val
165 170 175

Thr Ile Ser Cys Ser Gly Gly Thr Thr Asn Ile Gly Ser Asn Tyr Val
180 185 190

Ser Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Phe Leu Met Tyr
195 200 205

Glu Asn Asn Lys Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser
210 215 220

Lys Ser Gly Thr Ser Ala Thr Leu Ala Ile Thr Gly Leu Gln Thr Gly
225 230 235 240

Asp Glu Ala Thr Tyr Tyr Cys Ser Thr Trp Asp Ser Ser Leu Asn Thr
245 250 255

Gly Leu Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gly Gly Gly
260 265 270

Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly
 275 280 285

Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Val Thr Phe Asn Tyr
 290 295 300

Tyr Gly Met Ser Trp Ile Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp
 305 310 315 320

Val Ala Ser Ile Thr Asn Ser Gly Gly Arg Ile Tyr Tyr Pro Asp Ser
 325 330 335

Val Lys Gly Arg Phe Thr Ile Ser Arg Glu Asn Thr Gln Lys Thr Leu
 340 345 350

Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr
 355 360 365

Cys Thr Leu Asp Gly Arg Asp Gly Trp Val Ala Tyr Trp Gly Gln Gly
 370 375 380

Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly
 385 390 395 400

Ser Gly Gly Gly Gly Ser Asn Phe Met Leu Thr Gln Pro Ser Ser Val
 405 410 415

Ser Gly Val Pro Gly Gln Arg Val Thr Ile Ser Cys Thr Gly Asn Thr
 420 425 430

Gly Asn Ile Gly Ser Asn Tyr Val Asn Trp Tyr Gln Gln Leu Pro Gly
 435 440 445

Thr Ala Pro Lys Leu Leu Ile Tyr Arg Asp Asp Lys Arg Pro Ser Gly
 450 455 460

Val Pro Asp Arg Phe Ser Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu
 465 470 475 480

Ala Ile Thr Gly Phe Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Gln
 485 490 495

Ser Tyr Ser Ser Gly Phe Ile Phe Gly Gly Gly Thr Lys Leu Thr Val
 500 505 510

Leu Gly Ala Ala Ala Gly Ala Gly Gly Asp Tyr Lys Asp Asp Asp Asp
 515 520 525

Lys Gly Ala Ala Ala His His His His His His
 530 535

<210> SEQ ID NO: 179

<211> 531

<212> PRT

<213> Secuencia artificial

<220>

<223> secuencia de aminoácidos de C3022-C3E-7036

<400> 179

Met Lys His Leu Trp Phe Phe Leu Leu Leu Val Ala Ala Pro Arg Trp
 1 5 10 15

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

Lys Pro Gly Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr
 35 40 45

Phe Thr Gly Tyr Tyr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly
 50 55 60

Leu Glu Trp Met Gly Arg Ile Asn Pro Asn Ser Gly Gly Thr Asn Tyr
 65 70 75 80

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

Ser Thr Ala Tyr Met Glu Leu Ser Gly Leu Arg Ser Asp Asp Thr Ala
 100 105 110

Val Tyr Tyr Cys Ala Ser Gly Ser Val Arg His Pro Trp Gly Gln Gly
 115 120 125

Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly
 130 135 140

Ser Gly Gly Gly Gly Ser Gln Pro Val Leu Thr Gln Pro Pro Ser Ala
 145 150 155 160

Ser Gly Thr Pro Gly Gln Arg Val Thr Ile Ser Cys Ser Gly Ser Arg
 165 170 175

Ser Asn Ile Gly Gly Asn Ile Val Ser Trp Tyr Gln Gln Phe Pro Gly
 180 185 190

Thr Ala Pro Arg Leu Leu Thr Tyr Ala Asp Asn Gln Arg Pro Ser Gly
 195 200 205

Val Pro Asp Arg Phe Ser Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu
 210 215 220

Ala Ile Ser Gly Leu Gln Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala
 225 230 235 240

Ala Trp Asp Asp Ser Leu Asn Gly Val Val Phe Gly Gly Gly Thr Lys
 245 250 255

Leu Thr Val Leu Gly Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser
 260 265 270

Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala
 275 280 285

Ala Ser Gly Val Thr Phe Asn Tyr Tyr Gly Met Ser Trp Ile Arg Gln
 290 295 300

Ala Pro Gly Lys Gly Leu Glu Trp Val Ala Ser Ile Thr Asn Ser Gly
 305 310 315 320

Gly Arg Ile Tyr Tyr Pro Asp Ser Val Lys Gly Arg Phe Thr Ile Ser
 325 330 335

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

Ala Glu Asp Thr Ala Val Tyr Tyr Cys Thr Leu Asp Gly Arg Asp Gly
 355 360 365

Trp Val Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly
 370 375 380

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Asn Phe
 385 390 395 400

Met Leu Thr Gln Pro Ser Ser Val Ser Gly Val Pro Gly Gln Arg Val
 405 410 415

Thr Ile Ser Cys Thr Gly Asn Thr Gly Asn Ile Gly Ser Asn Tyr Val
 420 425 430

Asn Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu Ile Tyr
 435 440 445

Arg Asp Asp Lys Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser
 450 455 460

Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Thr Gly Phe Gln Ala Glu
465 470 475 480

Asp Glu Ala Asp Tyr Tyr Cys Gln Ser Tyr Ser Ser Gly Phe Ile Phe
485 490 495

Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Ala Ala Ala Gly Ala Gly
500 505 510

Gly Asp Tyr Lys Asp Asp Asp Asp Lys Gly Ala Ala Ala His His His
515 520 525

His His His
530

<210> SEQ ID NO: 180

<211> 269

<212> PRT

<213> Secuencia artificial

<220>

<223> secuencia de aminoácidos de C3E-7034

<400> 180

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

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

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

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

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

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

Cys Thr Leu Asp Gly Arg Asp Gly Trp Val Ala Tyr Trp Gly Gln Gly
 100 105 110

Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly
 115 120 125

Ser Gly Gly Gly Gly Ser Asn Phe Met Leu Thr Gln Pro His Ser Val
 130 135 140

Ser Glu Ser Pro Gly Lys Thr Val Thr Ile Ser Cys Lys Arg Asn Thr
 145 150 155 160

Gly Asn Ile Gly Ser Asn Tyr Val Asn Trp Tyr Gln Gln His Glu Gly
 165 170 175

Ser Ser Pro Thr Thr Ile Ile Tyr Arg Asp Asp Lys Arg Pro Asp Gly
 180 185 190

Val Ser Asp Arg Phe Ser Gly Ser Ile Asp Arg Ser Ser Lys Ser Ala
 195 200 205

Ser Leu Thr Ile Ser Asn Leu Lys Thr Glu Asp Glu Ala Asp Tyr Phe
 210 215 220

Cys Gln Ser Tyr Ser Ser Gly Phe Ile Phe Gly Gly Gly Thr Lys Leu
 225 230 235 240

Thr Val Leu Gly Ala Ala Ala Gly Ala Gly Gly Asp Tyr Lys Asp Asp
 245 250 255

Asp Asp Lys Gly Ala Ala Ala His His His His His His
 260 265

<210> SEQ ID NO: 181

<211> 269

<212> PRT

<213> Secuencia artificial

<220>

<223> secuencia de aminoácidos de C3E-7035

<400> 181

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

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

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

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

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

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

Cys	Thr	Leu	Asp	Gly	Arg	Asp	Gly	Trp	Val	Ala	Tyr	Trp	Gly	Gln	Gly
			100					105					110		

Thr	Leu	Val	Thr	Val	Ser	Ser	Gly	Gly	Gly	Gly	Ser	Gly	Gly	Gly	Gly
		115						120				125			

Ser	Gly	Gly	Gly	Gly	Ser	Met	Ala	Gln	Ala	Val	Leu	Thr	Gln	Pro	Ser
	130					135					140				

Ser	Val	Ser	Gly	Val	Pro	Gly	Gln	Arg	Val	Thr	Ile	Ser	Cys	Lys	Arg
145					150					155					160

Pro Gly Thr Ala Pro Lys Leu Leu Ile Tyr Arg Asp Asp Lys Arg Pro
180 185 190

Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Lys Ser Gly Thr Ser Ala
195 200 205

Ser Leu Ala Ile Thr Gly Phe Gln Ala Glu Asp Glu Ala Asp Tyr Tyr
210 215 220

Cys Gln Ser Tyr Ser Ser Gly Phe Ile Phe Gly Gly Gly Thr Lys Leu
225 230 235 240

Thr Val Leu Gly Ala Ala Ala Gly Ala Gly Gly Asp Tyr Lys Asp Asp
245 250 255

Asp Asp Lys Gly Ala Ala Ala His His His His His His
260 265

<210> SEQ ID NO: 182

<211> 267

<212> PRT

<213> Secuencia artificial

 $\langle 220 \rangle$

<223> secuencia de aminoácidos de C3E-7036

<400> 182

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

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

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

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

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

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

Cys Thr Leu Asp Gly Arg Asp Gly Trp Val Ala Tyr Trp Gly Gln Gly
 100 105 110

Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly
 115 120 125

Ser Gly Gly Gly Gly Ser Asn Phe Met Leu Thr Gln Pro Ser Ser Val
 130 135 140

Ser Gly Val Pro Gly Gln Arg Val Thr Ile Ser Cys Thr Gly Asn Thr
 145 150 155 160

Gly Asn Ile Gly Ser Asn Tyr Val Asn Trp Tyr Gln Gln Leu Pro Gly
 165 170 175

Thr Ala Pro Lys Leu Leu Ile Tyr Arg Asp Asp Lys Arg Pro Ser Gly
 180 185 190

Val Pro Asp Arg Phe Ser Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu
 195 200 205

Ala Ile Thr Gly Phe Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Gln
 210 215 220

Ser Tyr Ser Ser Gly Phe Ile Phe Gly Gly Gly Thr Lys Leu Thr Val
 225 230 235 240

Leu Gly Ala Ala Ala Gly Ala Gly Gly Asp Tyr Lys Asp Asp Asp Asp
245 250 255

Lys Gly Ala Ala Ala His His His His His His
260 265

<210> SEQ ID NO: 183

<211> 8

<212> PRT

<213> Secuencia artificial

 $\langle 220 \rangle$

<223> secuencia de aminoácidos de C3E-7000 H CDR1

<400> 183

Gly Val Thr Phe Asn Tyr Tyr Gly
1 5

<210> SEQ ID NO: 184

<211> 8

<212> PRT

<213> Secuencia artificial

 $\langle 220 \rangle$

<223> secuencia de aminoácidos de C3E-7000_H_CDR2

<400> 184

Ile Thr Asn Ser Gly Gly Arg Ile
1 5

<210> SEQ ID NO: 185

$\langle 211 \rangle$ 11

<212> PRT

<213> Secuencia artificial

 $\langle 220 \rangle$

<223> secuencia de aminoácidos de C3E-7000 H CDR3

<400> 185

Thr Leu Asp Gly Arg Asp Gly Trp Val Ala Tyr
1 5 10

<210> SEQ ID NO: 186
<211> 8
<212> PRT
<213> Secuencia artificial

<220>
<223> secuencia de aminoácidos de C3E-7000_L_CDR1

<400> 186

Thr Gly Asn Ile Gly Ser Asn Tyr
1 5

<210> SEQ ID NO: 187
<211> 3
<212> PRT
<213> Secuencia artificial

<220>
<223> secuencia de aminoácidos de C3E-7000_L_CDR2

<400> 187

Arg Asp Asp
1

<210> SEQ ID NO: 188
<211> 8
<212> PRT
<213> Secuencia artificial

<220>
<223> secuencia de aminoácidos de C3E-7000_L_CDR3

<400> 188

Gln Ser Tyr Ser Ser Gly Phe Ile
1 5

<210> SEQ ID NO: 189
<211> 207
<212> PRT
<213> *Homo sapiens*

<400> 189

Met Gln Ser Gly Thr His Trp Arg Val Leu Gly Leu Cys Leu Leu Ser
 1 5 10 15

Val Gly Val Trp Gly Gln Asp Gly Asn Glu Glu Met Gly Gly Ile Thr
 20 25 30

Gln Thr Pro Tyr Lys Val Ser Ile Ser Gly Thr Thr Val Ile Leu Thr
 35 40 45

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

Asn Ile Gly Gly Asp Glu Asp Asp Lys Asn Ile Gly Ser Asp Glu Asp
 65 70 75 80

His Leu Ser Leu Lys Glu Phe Ser Glu Leu Glu Gln Ser Gly Tyr Tyr
 85 90 95

Val Cys Tyr Pro Arg Gly Ser Lys Pro Glu Asp Ala Asn Phe Tyr Leu
 100 105 110

Tyr Leu Arg Ala Arg Val Cys Glu Asn Cys Met Glu Met Asp Val Met
 115 120 125

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

Leu Leu Leu Val Tyr Tyr Trp Ser Lys Asn Arg Lys Ala Lys Ala Lys
 145 150 155 160

Pro Val Thr Arg Gly Ala Gly Ala Gly Gly Arg Gln Arg Gly Gln Asn
 165 170 175

Lys Glu Arg Pro Pro Pro Val Pro Asn Pro Asp Tyr Glu Pro Ile Arg
 180 185 190

Lys Gly Gln Arg Asp Leu Tyr Ser Gly Leu Asn Gln Arg Arg Ile
 195 200 205

<210> SEQ ID NO: 190

<211> 345

<212> ADN

<213> Secuencia artificial

<220>

<223> secuencia nucleotídica de E1018 VH

<400> 190

caggtgcagc tgggtgcagtc tggggctgag gtgaagaagc ctggggcctc agtgaaggtc 60
 tcctgcaagg cttctggata caccttcacc ggctactata tgcaactgggt gcgacaggcc 120
 cctggacaag ggcttgagtg gatgggacgg atcaacccta acagtgggtg cacaaactat 180
 gcacagaagt ttcagggcag ggtcaccatg accagggaca cgtccatcag cacagcctac 240
 atggagctga gcgggctgag atctgacgac acggccgttt attactgtaa gagtggtagt 300
 gtaaggcctc cctggggcca gggaaccctg gtcaccgtct cctca 345

<210> SEQ ID NO: 191

<211> 115

<212> PRT

<213> Secuencia artificial

<220>

<223> secuencia de aminoácidos de E1018 VH

<400> 191

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 Gly Tyr
 20 25 30

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

Gly Arg Ile Asn Pro Asn Ser Gly Gly Thr Asn Tyr Ala Gln Lys Phe
 50 55 60

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

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

Lys Ser Gly Ser Val Arg Pro Pro Trp Gly Gln Gly Thr Leu Val Thr
 100 105 110

Val Ser Ser
 115

<210> SEQ ID NO: 192

<211> 330

<212> ADN

<213> Secuencia artificial

<220>

<223> secuencia nucleotídica de E1018 VL

<400> 192

cagcctgtgc tgactcagcc accctcagcg tctgggaccc ccgggcagag ggtcaccatc	60
tcttgttctg gaagcaggtc caacatcgga ggtaatatg taagttggta ccagcagttc	120
ccaggaacgg cccccagact cctcacttat cggaatactc ggcggccctc aggggtccct	180
gaccgattct ctggctcaa gtctggcacc tcagcctccc tggccatcag tggcctccag	240
tctgaggatg aggctgacta ttattgtgca gcatgggatg acagcctggg ggggtgtgtg	300
ttcggaggag gcaccaagct gaccgtccta	330

<210> SEQ ID NO: 193

<211> 110

<212> PRT

<213> Secuencia artificial

<220>

<223> secuencia de aminoácidos de E1018 VL

<400> 193

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

Arg Val Thr Ile Ser Cys Ser Gly Ser Arg Ser Asn Ile Gly Gly Asn
 20 25 30

Ile Val Ser Trp Tyr Gln Gln Phe Pro Gly Thr Ala Pro Arg Leu Leu
 35 40 45

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

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

Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ala Trp Asp Asp Ser Leu
 85 90 95

Gly Gly Val Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
 100 105 110

<210> SEQ ID NO: 194

<211> 369

<212> ADN

<213> Secuencia artificial

<220>

<223> secuencia nucleotídica de D1012 VH

<400> 194

caggttcagc tggttcagtc tggcgccgaa gtgaagaaac ctggcagcag cgtgaaggtg 60

tcttgcaaag cttctggcgg caccctgagc agatacgcca tctcttgggt tcgacaggcc 120

cctggacaag gcctggaatg gatgggagggc atcatcccca tcttcggcac cgccaattac 180

gccagaaaat tccagggcag agtgaccatc accgccgacc agtctaccag aaccgcctac 240

atggagctgg gcagactgag aagcgaggac accgccgtgt actactgtgc tctggaaggc 300

ttccgggaca gcctgaagag aaaccccggtg gacatctggg gcagaggcac catgggttaca 360

gtgtcttagc 369

<210> SEQ ID NO: 195

<211> 123

<212> PRT

<213> Secuencia artificial

<220>

<223> secuencia de aminoácidos de D1012 VH

<400> 195

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

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

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

Gly Gly Ile Ile Pro Ile Phe Gly Thr Ala Asn Tyr Ala Gln Lys Phe
50 55 60

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

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

Ala Leu Glu Gly Phe Arg Asp Ser Leu Lys Arg Asn Pro Val Asp Ile
100 105 110

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

<210> SEQ ID NO: 196

<211> 330

<212> ADN

<213> Secuencia artificial

<220>

<223> secuencia nucleotídica de D1012 VL

<400> 196

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caatctgtgg tcacacagcc tccaagcgtg tcagctgccc caggccagaa agtgacaatc      60
ccttgtagcg gcggcaccac caacatcggc agcaattacg tgtcctggta tcagcagctg      120
cccggaacag ccctaagtt cctgatgtac gagaacaaca agcggcccag cggcatcccc      180
gatagatttt ctggcagcaa gagcggcacc agcgccacac tggctattac aggactggag      240
acagaggacg aggccaccta ctactgtagc acctgggaca gcagcctgaa cgccggactt      300
tttgagggcg gcacagagct gacagttcctt                                     330

```

<210> SEQ ID NO: 197

<211> 110

<212> PRT

<213> Secuencia artificial

<220>

<223> secuencia de aminoácidos de D1012 VL

<400> 197

```

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

```

```

Lys Val Thr Ile Pro Cys Ser Gly Gly Thr Thr Asn Ile Gly Ser Asn
          20           25           30

```

```

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

```

```

Met Tyr Glu Asn Asn Lys Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser
          50           55           60

```

```

Gly Ser Lys Ser Gly Thr Ser Ala Thr Leu Ala Ile Thr Gly Leu Glu
65           70           75           80

```

Thr Glu Asp Glu Ala Thr Tyr Tyr Cys Ser Thr Trp Asp Ser Ser Leu
 85 90 95

Asn Ala Gly Leu Phe Gly Gly Gly Thr Glu Leu Thr Val Leu
 100 105 110

<210> SEQ ID NO: 198

<211> 1425

<212> ADN

<213> Secuencia artificial

<220>

<223> secuencia nucleotídica de h2B1 Fab HC_1

<400> 198

atgaggccta cctgggcctg gtggctgttc ctgggtgctgc tgctggccct gtggggcccc	60
gcccggggcc aggtgcagct ggtggagtcc ggcggcggcc tggatgaagcc cagccagacc	120
ctgtccctga cctgcacatt cagcggcttt tccctgaaca catacgatat gggagtggga	180
tggatcagac agccacctgg caagggcctg gaggatgacg gcaacatctg gtgggacgat	240
gacaagtact ataatccctc tctgaagagc agagtgaaca tctctaagga tacaagcaac	300
aatcaggcct ccctgaagct gagctccgtg accgccgccg acacagccgt gtactattgc	360
gccaggatcg agacagtgcg ggtgagccgg aagggattcg cacactgggg acagggcacc	420
ctggtgacag tgtctagcgc tagcacaag ggacctagcg tgttcccact ggccccttcc	480
tctaagtcca cctctggagg aacagccgcc ctgggctgta gggatgaagga ctatttcct	540
gagccagtga ccgtgtcctg gaactctggg gccctgacca gaggagtga cacatttcct	600
gccgtgctgc agagctccgg cctgtacagc ctgtctagcg tggatgaccgt gccatcctct	660
agcctgggca ccagacata tatctgcaac gtgaatcaca agccaagcaa tacaaggctc	720
gacaagcggg tggagcccaa gtctgtgac aagaccaca catgcccacc ctgtccggcg	780
ccagaggctg caggaggacc aagcgtgttc ctgtttccac ccaagcctaa agacacactg	840
atgatttccc gaacccccga agtcacatgc gtggctcgtgt ctgtgagtca cgaggaccct	900
gaagtcaagt tcaactggta cgtggatggc gtcgaggtgc ataatgcaa gactaaacct	960

```

agggaggaac agtacaactc aacctatcgc gtcgtgagcg tcttgacagt gctgcaccag      1020
gattggctga acggcaaaga atataagtgc aaagtgagca ataaggccct gcccgctcct      1080
atcgagaaaa ccatttccaa ggctaaaggg cagcctcgcg aaccacaggt ctacgtgctg      1140
ccccctagcc gcgacgaact gactaaaaat caggtctctc tgctgtgtct ggtcaaagga      1200
ttctaccctt ccgacatcgc cgtggagtg gaaagtaacg gccagcccga gaacaattac      1260
ctgacctggc cccctgtgct ggactctgat gggagtttct ttctgtattc aaagctgaca      1320
gtcgataaaa gccggtggca gcagggcaat gtgttcagct gtcctcgcat gcacgaagca      1380
ctgcacaacc attacactca gaagtccttg tcctgtcac ctggc                        1425

```

<210> SEQ ID NO: 199

<211> 475

<212> PRT

<213> Secuencia artificial

<220>

<223> secuencia de aminoácidos de H2B1 Fab HC_1

<400> 199

```

Met Arg Pro Thr Trp Ala Trp Trp Leu Phe Leu Val Leu Leu Leu Ala
1           5           10           15
Leu Trp Ala Pro Ala Arg Gly Gln Val Gln Leu Val Glu Ser Gly Gly
          20           25           30

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

Gly Phe Ser Leu Asn Thr Tyr Asp Met Gly Val Gly Trp Ile Arg Gln
          50           55           60

Pro Pro Gly Lys Gly Leu Glu Trp Ile Gly Asn Ile Trp Trp Asp Asp
65           70           75           80

Asp Lys Tyr Tyr Asn Pro Ser Leu Lys Ser Arg Val Thr Ile Ser Lys
          85           90           95

```

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

Ala Asp Thr Ala Val Tyr Tyr Cys Ala Arg Ile Glu Thr Val Arg Val
 115 120 125

Ser Arg Lys Gly Phe Ala His Trp Gly Gln Gly Thr Leu Val Thr Val
 130 135 140

Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser
 145 150 155 160

Ser Lys Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys Arg Val Lys
 165 170 175

Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu
 180 185 190

Thr Ser Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu
 195 200 205

Tyr Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr
 210 215 220

Gln Thr Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val
 225 230 235 240

Asp Lys Arg Val Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro
 245 250 255

Pro Cys Pro Ala Pro Glu Ala Ala Gly Gly Pro Ser Val Phe Leu Phe
 260 265 270

Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val
 275 280 285

Thr Cys Val Val Val Ser Val Ser His Glu Asp Pro Glu Val Lys Phe
 290 295 300

Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro
 305 310 315 320

Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr
 325 330 335

Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val
 340 345 350

Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala
 355 360 365

Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Val Leu Pro Pro Ser Arg
 370 375 380

Asp Glu Leu Thr Lys Asn Gln Val Ser Leu Leu Cys Leu Val Lys Gly
 385 390 395 400

Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro
 405 410 415

Glu Asn Asn Tyr Leu Thr Trp Pro Pro Val Leu Asp Ser Asp Gly Ser
 420 425 430

Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln
 435 440 445

Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His
 450 455 460

Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly
 465 470 475

<210> SEQ ID NO: 200

<211> 1425

<212> ADN

<213> Secuencia artificial

<220>

<223> secuencia nucleotídica de h2B1_Fab_HC_2

<400> 200

atgaggccta cctgggcctg gtggctgttc ctgggtgctgc tgctggccct gtgggcccc	60
gcccggggcc aggtgcagct ggtggagtcg ggcggcggcc tggatgaagcc cagccagacc	120
ctgtccctga cctgcacatt cagcggcttt tcctgaaca catacgatat gggagtggga	180
tggatcagac agccacctgg caagggcctg gagtggatcg gcaacatctg gtgggacgat	240
gacaagtact ataatccctc tctgaagagc agagtgaaca tctctaagga tacaagcaac	300
aatcaggcct ccctgaagct gagctccgtg accgccgccg acacagccgt gtactattgc	360
gccaggatcg agacagtgcg ggtgagccgg aagggattcg cacactgggg acagggcacc	420
ctggtgacag tgtctagcgc tagcaccaag ggacctagcg tgttcccaga ggccccttcc	480
tctaagtcca cctctggagg aacagccgcc ctgggctgtc tggtgaccga ctatttcct	540
gagccagtga cagtgtcctg gaactctggg gccctgacca ggggagtgca cacatttcct	600
gccgtgctgg agagctccgg cctgtacagc ctgtctagcg tggtgaccgt gccatcctct	660
agcctgggca ccagacata tatctgcaac gtgaatcaca agccaagcaa taaaaggtc	720
gacaagagag tggagcccaa gtctgtgac aagaccaca catgcccacc ctgtccggcg	780
ccagaggctg caggaggacc aagcgtgttc ctgtttccac ccaagcctaa agacacactg	840
atgatttccc gaacccccga agtcacatgc gtggtcgtgt ctgtgagtca cgaggaccct	900
gaagtcaagt tcaactggta cgtggatggc gtcgaggtgc ataatgcaa gactaaacct	960
agggaggaac agtacaactc aacctatcg ctcgtgagcg tcctgacagt gctgcaccag	1020
gattggctga acggcaaaga atataagtgc aaagtgaaca ataaggccct gcccgctcct	1080
atcgagaaaa ccatttccaa ggctaaaggg cagcctcgcg aaccacaggt ctacgtgctg	1140
cccctagcc gcgacgaact gactaaaaat caggtctctc tgctgtgtct ggtcaaagga	1200

```

ttctaccctt ccgacatcgc cgtggagtgg gaaagtaacg gccagcccga gaacaattac      1260
ctgacctggc cccctgtgct ggactctgat gggagtttct ttctgtattc aaagctgaca      1320
gtcgataaaa gccggtggca gcagggcaat gtgttcagct gctccgtcat gcacgaagca      1380
ctgcacaacc attacactca gaagtccttg tcctgtcac ctggc                        1425

```

<210> SEQ ID NO: 201

<211> 475

<212> PRT

<213> Secuencia artificial

<220>

<223> secuencia de aminoácidos de h2B1 Fab HC_2

<400> 201

```

Met Arg Pro Thr Trp Ala Trp Trp Leu Phe Leu Val Leu Leu Leu Ala
1              5              10              15

```

```

Leu Trp Ala Pro Ala Arg Gly Gln Val Gln Leu Val Glu Ser Gly Gly
          20              25              30

```

```

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

```

```

Gly Phe Ser Leu Asn Thr Tyr Asp Met Gly Val Gly Trp Ile Arg Gln
          50              55              60

```

```

Pro Pro Gly Lys Gly Leu Glu Trp Ile Gly Asn Ile Trp Trp Asp Asp
65              70              75              80

```

```

Asp Lys Tyr Tyr Asn Pro Ser Leu Lys Ser Arg Val Thr Ile Ser Lys
          85              90              95

```

```

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

```

```

Ala Asp Thr Ala Val Tyr Tyr Cys Ala Arg Ile Glu Thr Val Arg Val
          115              120              125

```

Ser Arg Lys Gly Phe Ala His Trp Gly Gln Gly Thr Leu Val Thr Val
 130 135 140

Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Glu Ala Pro Ser
 145 150 155 160

Ser Lys Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Thr
 165 170 175

Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu
 180 185 190

Thr Ser Gly Val His Thr Phe Pro Ala Val Leu Glu Ser Ser Gly Leu
 195 200 205

Tyr Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr
 210 215 220

Gln Thr Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val
 225 230 235 240

Asp Lys Arg Val Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro
 245 250 255

Pro Cys Pro Ala Pro Glu Ala Ala Gly Gly Pro Ser Val Phe Leu Phe
 260 265 270

Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val
 275 280 285

Thr Cys Val Val Val Ser Val Ser His Glu Asp Pro Glu Val Lys Phe
 290 295 300

Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro
 305 310 315 320

Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr
 325 330 335

Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val
 340 345 350

Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala
 355 360 365

Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Val Leu Pro Pro Ser Arg
 370 375 380

Asp Glu Leu Thr Lys Asn Gln Val Ser Leu Leu Cys Leu Val Lys Gly
 385 390 395 400

Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro
 405 410 415

Glu Asn Asn Tyr Leu Thr Trp Pro Pro Val Leu Asp Ser Asp Gly Ser
 420 425 430

Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln
 435 440 445

Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His
 450 455 460

Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly
 465 470 475

<210> SEQ ID NO: 202

<211> 711

<212> ADN

<213> Secuencia artificial

<220>

<223> secuencia nucleotídica de h2B1 Fab LC_1

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<400> 202
atgcgggccca cctgggcatg gtggctgttc ctgggtgctgc tgctggccct gtgggcccc 60
gcccgggggg ccaccagaat gacacagtct ccaagctcct ttccgcctc tacaggcgac 120
agagtgacca tcacatgcaa ggccagccag tccgtgggca tcaacgtgga ttggtaccag 180
cagaagcctg gcaagtcccc caagctgctg atctatgggg ccagcaatag gcacaccggc 240
gtgccttctc gcttctctgg cagcggcttc ggcagggact ttaccctgac aatctctagc 300
ctgcagagcg aggatttcgc cacctactat tgtctgcagc acggctccat cccccctacc 360
tttggcggag gcacaaaggt ggagatcaag agaacagtgg cggcgcccag tgtcttcatt 420
tttcccccta gcgacgaaga gctgaagtct gggacagcca gtgtggactg ttggctgaac 480
aatttctacc ctagagaggc taaagtgcag tggaaggctc ataacgcact gcagtccgga 540
aattctcagg agagtgtgac tgaacaggac tcaaaagata gcacctattc cctgtcaagc 600
acactgactc tgagcaaggc cgactacgag aagcataaag tgtatgcttg tgaagtcacc 660
caccaggggc tgagttcacc agtcacaaaa tcattcaaca gaggggagtg c 711

```

<210> SEQ ID NO: 203

<211> 237

<212> PRT

<213> Secuencia artificial

<220>

<223> secuencia de aminoácidos de h2B1 Fab LC_1

<400> 203

```

Met Arg Pro Thr Trp Ala Trp Trp Leu Phe Leu Val Leu Leu Leu Ala
1           5           10           15

```

```

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

```

```

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

```

Ser Gln Ser Val Gly Ile Asn Val Asp Trp Tyr Gln Gln Lys Pro Gly
 50 55 60

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

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

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

Gln His Gly Ser Ile Pro Pro Thr Phe Gly Gly Gly Thr Lys Val Glu
 115 120 125

Ile Lys Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser
 130 135 140

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

Asn Phe Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala
 165 170 175

Leu Gln Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys
 180 185 190

Asp Ser Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp
 195 200 205

Tyr Glu Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu
 210 215 220

Ser Ser Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
 225 230 235

<210> SEQ ID NO: 204

<211> 711

<212> ADN

<213> Secuencia artificial

<220>

<223> secuencia nucleotídica de h2B1 Fab LC_2

<400> 204

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atgcgggccca cctgggcatg gtggtgtgtc ctggtgctgc tgctggccct gtgggcccc 60
gcccgggggg ccaccagaat gacacagtct ccaagctcct tttccgcctc tacaggcgac 120
agagtgacca tcacatgcaa ggccagccag tccgtgggca tcaacgtgga ttggtaccag 180
cagaagcctg gcaagtcccc caagctgctg atctatgggg ccagcaatag gcacaccggc 240
gtgccttctc gcttctctgg cagcggttc ggcagggact ttacctgac aatctctagc 300
ctgcagagcg aggatttcgc cacctactat tgtctgcagc acggctccat cccccctacc 360
tttgcgaggag gcacaaaggt ggagatcaag agaacagtgg cggcgcccag tgtcttcatt 420
tttcccccta gcgacgaaca gctgaagtct gggacagcca gagtgggctg ttggctgaac 480
aacttctacc ctagagaggc taaagtgcag tggaaggctc ataacgcact gcagtccgga 540
aattctcagg agagtgtgac tgaacaggac tcaaaagata gcacctattc cctgagaagc 600
acactgactc tgagcaaggc cgactacgag aagcataaag tgtatgcttg tgaagtcacc 660
caccaggggc tgagttcacc agtcacaaaa tcattcaaca gaggggagtg c 711

```

<210> SEQ ID NO: 205

<211> 237

<212> PRT

<213> Secuencia artificial

<220>

<223> secuencia de aminoácidos de h2B1 Fab LC_2

<400> 205

```

Met Arg Pro Thr Trp Ala Trp Trp Leu Phe Leu Val Leu Leu Leu Ala
1           5           10           15

```

```

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

```

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

Ser Gln Ser Val Gly Ile Asn Val Asp Trp Tyr Gln Gln Lys Pro Gly
 50 55 60

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

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

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

Gln His Gly Ser Ile Pro Pro Thr Phe Gly Gly Gly Thr Lys Val Glu
 115 120 125

Ile Lys Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser
 130 135 140

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

Asn Phe Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala
 165 170 175

Leu Gln Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys
 180 185 190

Asp Ser Thr Tyr Ser Leu Arg Ser Thr Leu Thr Leu Ser Lys Ala Asp
 195 200 205

Tyr Glu Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu
 210 215 220

Ser Ser Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
 225 230 235

<210> SEQ ID NO: 206

<211> 1413

<212> ADN

<213> Secuencia artificial

<220>

<223> secuencia nucleotídica de C3E-7034 Fab HC

<400> 206

atgcgccccca cctgggcatg gtggctgttc ctgggtgctgc tgctggccct gtggggccct	60
gcccggggcg gcgaggtgca gctggtggag agcggcggcg gcctggtgca gcccggcggc	120
tctctgcggc tgagctgcgc cgcctccggc gtgacattca actactatgg catgtcctgg	180
atcagacagg ccccaggcaa gggcctggag tgggtggcct ctatcaccaa tagcggcggc	240
aggatctact atcccgactc cgtgaagggc cggtttacaa tctctagaga gaacaccag	300
aagacactgt acctgcagat gaacagcctg cgggccgagg ataccgccgt gtactattgt	360
acactggacg gcagagacgg atgggtggca tattggggac agggcacctt ggtgacagtg	420
agctccgcta gcactaaagg cccaagcgtg tttcctctgg ctccaagctc aaaaagcact	480
tccgggggga ccgcatggct gggatgtgat gtgaccgact acttccccga gcctgtgacc	540
gtgtcctgga actctggggc cctgaccagc ggagtgcaca catttccagc cgtgctgcag	600
agctccggcc tgtatagcct gtctagcgtg gtgacagtgc cctccagtag cctgggcact	660
cagacttata tctgtaatgt caaccacaaa ccatcaaaca ccaaagtcga caagaaagtg	720
gagcccaaga gctgtgataa aactcatacc tgcccacctt gtccggcgcc agaggctgca	780
ggaggaccaa gcgtgttcct gtttccaccc aagcctaaag acacactgat gatttccccga	840
acccccgaag tcacatgcgt ggtcgtgtct gtgagtcacg aggaccctga agtcaagttc	900
aactggtacg tggatggcgt cgaggtgcat aatgccaaga ctaaacctag ggaggaacag	960
tacaactcaa cctatcgcgt cgtgagcgtc ctgacagtgc tgcaccagga ttggctgaac	1020
ggcaaagaat ataagtgcaa agtgagcaat aaggccctgc ccgctcctat cgagaaaacc	1080

```

atttccaagg ctaaagggca gcctcgcgaa ccacaggtct acgtctaccc cccatcaaga      1140
gatgaactga caaaaaatca ggtctctctg acatgcctgg tcaaaggatt ctacccttcc      1200
gacatcgccg tggagtggga aagtaacggc cagcccgaga acaattacaa gaccacaccc      1260
cctgtcctgg actctgatgg gagtttcgct ctggtgtcaa agctgaccgt cgataaaage      1320
cggtggcagc agggcaatgt gtttagctgc tccgtcatgc acgaagccct gcacaatcac      1380
tacacacaga agtcctgag cctgagccct ggc                                     1413

```

<210> SEQ ID NO: 207

<211> 471

<212> PRT

<213> Secuencia artificial

<220>

<223> secuencia de aminoácidos de C3E-7034 Fab HC

<400> 207

```

Met Arg Pro Thr Trp Ala Trp Trp Leu Phe Leu Val Leu Leu Leu Ala
1              5              10              15

```

```

Leu Trp Ala Pro Ala Arg Gly Gly Glu Val Gln Leu Val Glu Ser Gly
20              25              30

```

```

Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala
35              40              45

```

```

Ser Gly Val Thr Phe Asn Tyr Tyr Gly Met Ser Trp Ile Arg Gln Ala
50              55              60

```

```

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

```

```

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

```

Glu Asn Thr Gln Lys Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala
 100 105 110

Glu Asp Thr Ala Val Tyr Tyr Cys Thr Leu Asp Gly Arg Asp Gly Trp
 115 120 125

Val Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Ala Ser
 130 135 140

Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr
 145 150 155 160

Ser Gly Gly Thr Ala Trp Leu Gly Cys Asp Val Thr Asp Tyr Phe Pro
 165 170 175

Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val
 180 185 190

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

Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile
 210 215 220

Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys Lys Val
 225 230 235 240

Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala
 245 250 255

Pro Glu Ala Ala Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro
 260 265 270

Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val
 275 280 285

Val Ser Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val
 290 295 300

Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln
 305 310 315 320

Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln
 325 330 335

Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala
 340 345 350

Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro
 355 360 365

Arg Glu Pro Gln Val Tyr Val Tyr Pro Pro Ser Arg Asp Glu Leu Thr
 370 375 380

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

Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr
 405 410 415

Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Ala Leu Val
 420 425 430

Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe
 435 440 445

Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys
 450 455 460

Ser Leu Ser Leu Ser Pro Gly
 465 470

<210> SEQ ID NO: 208

<211> 714

<212> ADN

<213> Secuencia artificial

<220>

<223> secuencia nucleotídica de C3E-7034 Fab LC

<400> 208

atgcggccta cctgggcctg gtggctgttc ctgggtgctgc tgctggccct gtgggccccca	60
gccaggggca actttatgct gaccagccc cacagcgtgt ccgagtctcc tggcaagacc	120
gtgacaatct cctgcaagcg gaacacaggc aatatcggct ctaactacgt gaattggtat	180
cagcagcacg agggcagctc cccaaccaca atcatctacc gggacgataa gcggcccgac	240
ggcgtgtctg ataggttcag cggctccatc gaccgctcta gcaagtctgc cagcctgacc	300
atcagcaatc tgaagacaga ggacgaggcc gattactttt gtcagtccta ttcctctggc	360
ttcatctttg gaggaggaac caagctgaca gtgctgggcc agcccaaggc ggcgcccagc	420
gtgactctgt ttccaccag ctccgagcag ctgcaggcca ataaggctag actggtctgt	480
ctgatttccg acttctaccc cggggctgtg acagtcgcat ggaaggccga ttctagtcct	540
gtgaaagcag gagtcgagac cacaactcca tcaaagcaga gcaacaacaa gtacgcagcc	600
tcaagctatc tgtctctgac acctgaacag tggaaaagcc accggtctta tagttgtcag	660
gtgactcacg agggctcaac agtggaaaag acagtcgcac ccgcagaatg ctca	714

<210> SEQ ID NO: 209

<211> 238

<212> PRT

<213> Secuencia artificial

<220>

<223> secuencia de aminoácidos de C3E-7034 Fab LC

<400> 209

Met	Arg	Pro	Thr	Trp	Ala	Trp	Trp	Leu	Phe	Leu	Val	Leu	Leu	Leu	Ala
1				5				10						15	

Leu Trp Ala Pro Ala Arg Gly Asn Phe Met Leu Thr Gln Pro His Ser
 20 25 30

Val Ser Glu Ser Pro Gly Lys Thr Val Thr Ile Ser Cys Lys Arg Asn
 35 40 45

Thr Gly Asn Ile Gly Ser Asn Tyr Val Asn Trp Tyr Gln Gln His Glu
 50 55 60

Gly Ser Ser Pro Thr Thr Ile Ile Tyr Arg Asp Asp Lys Arg Pro Asp
 65 70 75 80

Gly Val Ser Asp Arg Phe Ser Gly Ser Ile Asp Arg Ser Ser Lys Ser
 85 90 95

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

Phe Cys Gln Ser Tyr Ser Ser Gly Phe Ile Phe Gly Gly Gly Thr Lys
 115 120 125

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

Pro Pro Ser Ser Glu Gln Leu Gln Ala Asn Lys Ala Arg Leu Val Cys
 145 150 155 160

Leu Ile Ser Asp Phe Tyr Pro Gly Ala Val Thr Val Ala Trp Lys Ala
 165 170 175

Asp Ser Ser Pro Val Lys Ala Gly Val Glu Thr Thr Thr Pro Ser Lys
 180 185 190

Gln Ser Asn Asn Lys Tyr Ala Ala Ser Ser Tyr Leu Ser Leu Thr Pro
 195 200 205

Glu Gln Trp Lys Ser His Arg Ser Tyr Ser Cys Gln Val Thr His Glu
 210 215 220

Gly Ser Thr Val Glu Lys Thr Val Ala Pro Ala Glu Cys Ser
 225 230 235

<210> SEQ ID NO: 210

<211> 1413

<212> ADN

<213> Secuencia artificial

<220>

<223> secuencia nucleotídica de C3E-7036 Fab HC

<400> 210

atgcgccccca cctgggcatg gtggctgttc ctgggtgctgc tgctggccct gtggggcccct	60
gcccggggcg gcgaggtgca gctggtggag agcggcgggcg gcctggtgca gcccggcggc	120
tctctgcggc tgagctgcgc cgccctccggc gtgacattca actactatgg catgtcctgg	180
atcagacagg ccccaggcaa gggcctggag tgggtggcct ctatcaccaa tagcggcggc	240
aggatctact atcccgactc cgtgaagggc cggtttacaa tctctagaga gaacaccag	300
aagacactgt acctgcagat gaacagcctg cgggccgagg ataccgccgt gtactattgt	360
acactggacg gcagagacgg atgggtggca tattggggac agggcaccct ggtgacagtg	420
agctccgcta gcactaaagg accaagcgtg tttccactgg ctccatcatc caaaagcaca	480
agcggcgggga ctgcctggct gggctgtaag gtgaaggact acttccccga gcctgtgacc	540
gtgtcctgga actctggggc cctgaccagc ggagtgcaca catttccagc cgtgctgcag	600
agctccggcc tgtatagcct gtctagcgtg gtgacagtgc cctcctcaag cctgggcact	660
cagacctata tttgtaatgt caaccataaa ccttccaaca ctaaagtcga caagaaagtg	720
gagcccaaga gctgtgataa aactcatacc tgcccacctt gtccggcgcc agaggctgca	780
ggaggaccaaa gcgtgttcct gtttccaccc aagcctaaag acacactgat gatttcccga	840
acccccgaag tcacatgcgt ggtcgtgtct gtgagtcacg aggaccctga agtcaagttc	900
aactggtacg tggatggcgt cgaggtgcat aatgccaaga ctaaacctag ggaggaacag	960

```

tacaactcaa cctatcgcggt cgtgagcggtc ctgacagtgc tgcaccagga ttggctgaac      1020
ggcaaagaat ataagtgcaa agtgagcaat aaggccctgc ccgctcctat cgagaaaacc      1080
atttccaagg ctaaagggca gcctcgcgaa ccacaggtct acgtctaccc cccatcaaga      1140
gatgaactga caaaaaatca ggtctctctg acatgcctgg tcaaaggatt ctacccttcc      1200
gacatcgccg tggagtggga aagtaacggc cagcccgaga acaattacaa gaccacaccc      1260
cctgtcctgg actctgatgg gagtttcgct ctgggtgtcaa agctgaccgt cgataaaagc      1320
cgggtggcagc agggcaatgt gtttagctgc tccgtcatgc acgaagccct gcacaatcac      1380
tacacacaga agtccttgag cctgagccct ggc                                     1413

```

<210> SEQ ID NO: 211

<211> 471

<212> PRT

<213> Secuencia artificial

<220>

<223> secuencia de aminoácidos de C3E-7036 Fab HC

<400> 211

```

Met Arg Pro Thr Trp Ala Trp Trp Leu Phe Leu Val Leu Leu Leu Ala
1           5           10           15

```

```

Leu Trp Ala Pro Ala Arg Gly Gly Glu Val Gln Leu Val Glu Ser Gly
          20           25           30

```

```

Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala
          35           40           45

```

```

Ser Gly Val Thr Phe Asn Tyr Tyr Gly Met Ser Trp Ile Arg Gln Ala
          50           55           60

```

```

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

```

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

Glu Asn Thr Gln Lys Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala
100 105 110

Glu Asp Thr Ala Val Tyr Tyr Cys Thr Leu Asp Gly Arg Asp Gly Trp
115 120 125

Val Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Ala Ser
130 135 140

Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr
145 150 155 160

Ser Gly Gly Thr Ala Trp Leu Gly Cys Lys Val Lys Asp Tyr Phe Pro
165 170 175

Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val
180 185 190

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

Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile
210 215 220

Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys Lys Val
225 230 235 240

Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala
245 250 255

Pro Glu Ala Ala Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro
260 265 270

Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val
 275 280 285

Val Ser Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val
 290 295 300

Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln
 305 310 315 320

Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln
 325 330 335

Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala
 340 345 350

Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro
 355 360 365

Arg Glu Pro Gln Val Tyr Val Tyr Pro Pro Ser Arg Asp Glu Leu Thr
 370 375 380

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

Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr
 405 410 415

Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Ala Leu Val
 420 425 430

Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe
 435 440 445

Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys
 450 455 460

Ser Leu Ser Leu Ser Pro Gly
465 470

<210> SEQ ID NO: 212

<211> 708

<212> ADN

<213> Secuencia artificial

<220>

<223> secuencia nucleotídica de C3E-7036 Fab LC

<400> 212

atgcggccca cctgggcatg gtggctgttc ctggtgctgc tgctggccct gtggggccct	60
gccaggggca actttatgct gaccagcct agctccgtga gcgagtgcc aggacagagg	120
gtgacaatct cctgcaccgg caacacaggc aatatcggt ctaactacgt gaattggtat	180
cagcagctgc ccggcacagc ccctaagctg ctgatctacc gggacgataa gcggcccagc	240
ggagtgccag acaggttctc cggtcttaag agcggcacct ccgcctctct ggccatcaca	300
ggctttcagg ccgaggacga ggccgattac tattgtcagt cctattctag cggcttcac	360
tttgaggag gaaccaagct gacagtgtg ggccagccca aggcggcgcc cagtgtcaca	420
ctgtttcccc ctagctccga ggaactgcag gctaacaccg caaactgga ctgtctgac	480
agcgacttct accctggagc tgtgactgtc gcctggaagg ctgattctag tccagtga	540
gcaggcgctg agaccacaac tccctctaag cagagtaaca acaagtacgc agcctcaagc	600
tatctgtcac tgacccaga acagtggaag agccaccgga gctattcctg ccaggtcact	660
cacgaaggct cactgtcga gaaaaccgtc gctcccaccg aatgttca	708

<210> SEQ ID NO: 213

<211> 236

<212> PRT

<213> Secuencia artificial

<220>

<223> secuencia de aminoácidos de C3E-7036 Fab LC

<400> 213

Met Arg Pro Thr Trp Ala Trp Trp Leu Phe Leu Val Leu Leu Leu Ala
 1 5 10 15

Leu Trp Ala Pro Ala Arg Gly Asn Phe Met Leu Thr Gln Pro Ser Ser
 20 25 30

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

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

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

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

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

Gln Ser Tyr Ser Ser Gly Phe Ile Phe Gly Gly Gly Thr Lys Leu Thr
 115 120 125

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

Ser Ser Glu Glu Leu Gln Ala Asn Thr Ala Thr Leu Asp Cys Leu Ile
 145 150 155 160
 Ser Asp Phe Tyr Pro Gly Ala Val Thr Val Ala Trp Lys Ala Asp Ser
 165 170 175

Ser Pro Val Lys Ala Gly Val Glu Thr Thr Thr Pro Ser Lys Gln Ser
 180 185 190

Asn Asn Lys Tyr Ala Ala Ser Ser Tyr Leu Ser Leu Thr Pro Glu Gln
 195 200 205

Trp Lys Ser His Arg Ser Tyr Ser Cys Gln Val Thr His Glu Gly Ser
 210 215 220

Thr Val Glu Lys Thr Val Ala Pro Thr Glu Cys Ser
 225 230 235

<210> SEQ ID NO: 214

<211> 1425

<212> ADN

<213> Secuencia artificial

<220>

<223> secuencia nucleotídica de h2B1 Fab HC_3

<400> 214

atgaggccta cctgggcctg gtggctgttc ctgggtgctgc tgctggccct gtgggcccc	60
gcccggggcc aggtgcagct ggtggagtcc ggcggcggcc tgggtgaagcc cagccagacc	120
ctgtccctga cctgcacatt cagcggcttt tcctgaaca catacgatat gggagtggga	180
tggatcagac agccacctgg caagggcctg gaggtagatcg gcaacatctg gtgggacgat	240
gacaagtact ataatccctc tctgaagagc agagtgacca tctctaagga tacaagcaac	300
aatcaggcct ccctgaagct gagctccgtg accgccgccg acacagccgt gtactattgc	360
gccaggatcg agacagtgcg ggtgagccgg aagggattcg cacactgggg acagggcacc	420
ctggtgacag tgtctagcgc tagcacaag ggacctagcg tgttcccact ggccccttcc	480
tctaagtcca cctctggagg aacagccgcc ctgggctgtc tgggtgaagga ctatttcct	540
gagccagtga ccgtgtcctg gaactctggg gccctgacca gcggagtgca cacatttcct	600
gccgtgctgc agagctccgg cctgtacagc ctgtctagcg tggtgaccgt gccatcctct	660
agcctgggca cccagacata tatctgcaac gtgaatcaca agccaagcaa taaaaggtc	720
gacaagagag tggagcccaa gtctgtgac aagaccaca catgcccacc ctgtccggcg	780
ccagaggctg caggaggacc aagcgtgttc ctgtttccac ccaagcctaa agacacactg	840
atgatttccc gaacccccga agtcacatgc gtggtcgtgt ctgtgagtca cgaggaccct	900
gaagtcaagt tcaactggta cgtggatggc gtcgaggtgc ataatgcaa gactaaacct	960

```

agggaggaac agtacaactc aacctatcgc gtcgtgagcg tectgacagt gctgcaccag      1020
gattggctga acggcaaaga atataagtgc aaagtgagca ataaggccct gcccgctcct      1080
atcgagaaaa ccatttccaa ggctaaaggg cagcctcgcg aaccacaggt ctacgtgctg      1140
ccccctagcc gcgacgaact gactaaaaat caggtctctc tgctgtgtct ggtcaaagga      1200
ttctaccctt ccgacatcgc cgtggagtg gaaagtaacg gccagcccga gaacaattac      1260
ctgacctggc cccctgtgct ggactctgat gggagtttct ttctgtattc aaagctgaca      1320
gtcgataaaa gccggtggca gcagggcaat gtgttcagct gtcctgcat gcacgaagca      1380
ctgcacaacc attacactca gaagtccctg tcctgtcac ctggc                        1425

```

<210> SEQ ID NO: 215

<211> 475

<212> PRT

<213> Secuencia artificial

<220>

<223> secuencia de aminoácidos de h2B1 Fab HC_3

<400> 215

```

Met Arg Pro Thr Trp Ala Trp Trp Leu Phe Leu Val Leu Leu Leu Ala
1              5              10              15

```

```

Leu Trp Ala Pro Ala Arg Gly Gln Val Gln Leu Val Glu Ser Gly Gly
      20              25              30

```

```

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

```

```

Gly Phe Ser Leu Asn Thr Tyr Asp Met Gly Val Gly Trp Ile Arg Gln
      50              55              60

```

```

Pro Pro Gly Lys Gly Leu Glu Trp Ile Gly Asn Ile Trp Trp Asp Asp
65              70              75              80

```

```

Asp Lys Tyr Tyr Asn Pro Ser Leu Lys Ser Arg Val Thr Ile Ser Lys
      85              90              95

```

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

Ala Asp Thr Ala Val Tyr Tyr Cys Ala Arg Ile Glu Thr Val Arg Val
 115 120 125

Ser Arg Lys Gly Phe Ala His Trp Gly Gln Gly Thr Leu Val Thr Val
 130 135 140

Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser
 145 150 155 160

Ser Lys Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys
 165 170 175

Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu
 180 185 190

Thr Ser Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu
 195 200 205

Tyr Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr
 210 215 220

Gln Thr Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val
 225 230 235 240

Asp Lys Arg Val Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro
 245 250 255

Pro Cys Pro Ala Pro Glu Ala Ala Gly Gly Pro Ser Val Phe Leu Phe
 260 265 270

Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val
 275 280 285

Thr Cys Val Val Val Ser Val Ser His Glu Asp Pro Glu Val Lys Phe
 290 295 300

Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro
 305 310 315 320

Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr
 325 330 335

Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val
 340 345 350

Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala
 355 360 365

Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Val Leu Pro Pro Ser Arg
 370 375 380

Asp Glu Leu Thr Lys Asn Gln Val Ser Leu Leu Cys Leu Val Lys Gly
 385 390 395 400

Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro
 405 410 415

Glu Asn Asn Tyr Leu Thr Trp Pro Pro Val Leu Asp Ser Asp Gly Ser
 420 425 430

Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln
 435 440 445

Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His
 450 455 460

Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly
 465 470 475

<210> SEQ ID NO: 216

<211> 711

<212> ADN

<213> Secuencia artificial

<220>

<223> secuencia nucleotídica de h2B1_Fab_LC_3

<400> 216

```

atgcgggccca cctgggcatg gtggctgttc ctggtgctgc tgctggccct gtgggcccc 60
gcccgggggg ccaccagaat gacacagtct ccaagctcct tttccgcctc tacaggcgac 120
agagtgacca tcacatgcaa ggccagccag tccgtgggca tcaacgtgga ttggtaccag 180
cagaagcctg gcaagtcccc caagctgctg atctatgggg ccagcaatag gcacaccggc 240
gtgccttctc gcttctctgg cagcggttc ggcagggact ttacctgac aatctctagc 300
ctgcagagcg aggatttcgc cacctactat tgtctgcagc acggctccat cccccctacc 360
tttgcgggag gcacaaagggt ggagatcaag agaacagtgg cggcgcccag tgtcttcatt 420
tttcccccta gcgacgaaca gctgaagtct gggacagcca gtgtggtctg tctgctgaac 480
aacttctacc ctagagaggc taaagtgcag tggaaggctc ataacgcact gcagtccgga 540
aattctcagg agagtgtgac tgaacaggac tcaaaagata gcacctattc cctgtcaagc 600
acactgactc tgagcaaggc cgactacgag aagcataaag tgtatgcttg tgaagtcacc 660
caccaggggc tgagttcacc agtcacaaaa tcattcaaca gaggggagtg c 711

```

<210> SEQ ID NO: 217

<211> 237

<212> PRT

<213> Secuencia artificial

<220>

<223> secuencia de aminoácidos de h2B1 Fab LC_3

<400> 217

```

Met Arg Pro Thr Trp Ala Trp Trp Leu Phe Leu Val Leu Leu Leu Ala
1           5           10           15

```

```

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

```

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

Ser Gln Ser Val Gly Ile Asn Val Asp Trp Tyr Gln Gln Lys Pro Gly
 50 55 60

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

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

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

Gln His Gly Ser Ile Pro Pro Thr Phe Gly Gly Gly Thr Lys Val Glu
 115 120 125

Ile Lys Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser
 130 135 140

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

Asn Phe Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala
 165 170 175

Leu Gln Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys
 180 185 190

Asp Ser Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp
 195 200 205

Tyr Glu Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu
 210 215 220

Ser Ser Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
 225 230 235

<210> SEQ ID NO: 218

<211> 1497

<212> ADN

<213> Secuencia artificial

<220>

<223> secuencia nucleotídica de C3E-7034 scFv Fc

<400> 218

atgcgccta cctgggcctg gtggctgttc ctgggtgctgc tgctggccct gtgggccccca	60
gcccggggcg gcgaggtgca gctgggtggag tctggcgggcg gcctgggtgca gcccgggcggc	120
agcctgcggc tgtcctgcgc cgctcttggc gtgaccttca actactatgg catgagctgg	180
atcagacagg cccccggcaa gggcctggag tgggtggcca gcatcaccaa ttccggcggc	240
aggatctact atcctgactc tgtgaagggc aggtttacaa tcagccgcga gaacaccag	300
aagacactgt acctgcagat gaacagcctg cgggccgagg ataccgccgt gtactattgc	360
acactggacg gcagagacgg atgggtggca tattggggac agggcaccct ggtgacagtg	420
agctccggcg gcggcggtc tggaggagga ggcagcggcg gaggaggctc caactttatg	480
ctgaccacgc ccactctgt gagcgagtcc cctggcaaga ccgtgacaat ctctgtgaag	540
agaaacacag gcaatatcgg ctctaactac gtgaattggt atcagcagca cgagggctct	600
agcccaacca caatcatcta ccgggacgat aagcggcccg acggcgtgag cgatcgggtc	660
tctggcagca tcgacagatc ctctaagtcc gcctctctga ccatcagcaa tctgaagaca	720
gaggacgagg ccgattactt ttgtcagtcc tatagctccg gcttcatctt tggcgggcggc	780
accaagctga cagtgtggc ggccgagcct aaaagtagcg ataaaacca tacctgcccc	840
ccctgcccgg cgccagaggc tgcaggagga ccaagcgtgt tcctgtttcc acccaagcct	900
aaagacacac tgatgatttc ccgaaccccc gaagtcacat gcgtggtcgt gtctgtgagt	960
cacgaggacc ctgaagtcaa gttcaactgg tacgtggatg gcgtcgaggt gcataatgcc	1020
aagactaaac ctagggagga acagtacaac tcaacctatc gcgtcgtagt cgtcctgaca	1080
gtgctgcacc aggattggct gaacggcaaa gaatataagt gcaaagtgag caataaggcc	1140
ctgcccgtc ctatcgagaa aaccatttcc aaggctaaag ggcagcctcg cgaaccacag	1200

gtctacgtctt acccccatc aagagatgaa ctgacaaaaa atcaggtctc tctgacatgc 1260
 ctggtcaaag gattctaccc ttccgacatc gccgtggagt gggaaagtaa cggccagccc 1320
 gagaacaatt acaagaccac accccctgtc ctggactctg atgggagttt cgctctggtg 1380
 tcaaagctga ccgtcgataa aagccggtgg cagcagggca atgtgttttag ctgctccgtc 1440
 atgcacgaag ccctgcacaa tcactacaca cagaagtccc tgagcctgag ccctggc 1497

<210> SEQ ID NO: 219

<211> 499

<212> PRT

<213> Secuencia artificial

<220>

<223> secuencia de aminoácidos de C3E-7034 scFv Fc

<400> 219

Met Arg Pro Thr Trp Ala Trp Trp Leu Phe Leu Val Leu Leu Leu Ala
 1 5 10 15

Leu Trp Ala Pro Ala Arg Gly Gly Glu Val Gln Leu Val Glu Ser Gly
 20 25 30

Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala
 35 40 45

Ser Gly Val Thr Phe Asn Tyr Tyr Gly Met Ser Trp Ile Arg Gln Ala
 50 55 60

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

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

Glu Asn Thr Gln Lys Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala
 100 105 110

Glu Asp Thr Ala Val Tyr Tyr Cys Thr Leu Asp Gly Arg Asp Gly Trp
 115 120 125

Val Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly
 130 135 140

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Asn Phe Met
 145 150 155 160

Leu Thr Gln Pro His Ser Val Ser Glu Ser Pro Gly Lys Thr Val Thr
 165 170 175

Ile Ser Cys Lys Arg Asn Thr Gly Asn Ile Gly Ser Asn Tyr Val Asn
 180 185 190

Trp Tyr Gln Gln His Glu Gly Ser Ser Pro Thr Thr Ile Ile Tyr Arg
 195 200 205

Asp Asp Lys Arg Pro Asp Gly Val Ser Asp Arg Phe Ser Gly Ser Ile
 210 215 220

Asp Arg Ser Ser Lys Ser Ala Ser Leu Thr Ile Ser Asn Leu Lys Thr
 225 230 235 240

Glu Asp Glu Ala Asp Tyr Phe Cys Gln Ser Tyr Ser Ser Gly Phe Ile
 245 250 255

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Ala Ala Glu Pro Lys Ser
 260 265 270

Ser Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Ala Ala
 275 280 285

Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu
 290 295 300

Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Ser Val Ser
 305 310 315 320

His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu
 325 330 335

Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr
 340 345 350

Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn
 355 360 365

Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro
 370 375 380

Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln
 385 390 395 400

Val Tyr Val Tyr Pro Pro Ser Arg Asp Glu Leu Thr Lys Asn Gln Val
 405 410 415

Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val
 420 425 430

Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro
 435 440 445

Pro Val Leu Asp Ser Asp Gly Ser Phe Ala Leu Val Ser Lys Leu Thr
 450 455 460

Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val
 465 470 475 480

Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu
 485 490 495

Ser Pro Gly

<210> SEQ ID NO: 220

<211> 1491

<212> ADN

<213> Secuencia artificial

<220>

<223> secuencia nucleotídica de C3E-7036 scFv Fc

<400> 220

atgcgggccca cctgggcatg gtggctgttc ctggtgctgc tgctggccct gtggggccct	60
gccagggggcg gcgaggtgca gctggtggag agcggcggcg gcctggtgca gcctggaggc	120
tctctgaggc tgagctgcmc agcctccggc gtgacattca actactatgg catgtcctgg	180
atcagacagg cccagggcaa gggcctggag tgggtggcct ctatcaccaa tagcggcggc	240
agaatctact atcccgactc cgtgaagggc aggtttacaa tcagccggga gaacaccag	300
aagacactgt acctgcagat gaatagcctg cgggccgagg ataccgccgt gtactattgc	360
acactggacg gcagagatgg atgggtggca tattggggac agggcacctt ggtgacagt	420
agctccggag gaggaggctc cggcggcgga ggctctggcg gcggcggcag caactttatg	480
ctgaccacgc cttctagcgt gagcggagtg ccaggacaga gggtgacaat ctctgtacc	540
ggcaacacag gcaatatcgg ctctaactac gtgaattggg atcagcagct gccaggaacc	600
gccctaagc tgctgatcta ccgggacgat aagcggccct ctggagtgcc agaccgggtc	660
agcgggtcca agtctggcac cagcgcctcc ctggccatca caggatttca ggccgaggac	720
gaggccgatt actattgtca gtcctattcc tctggcttca tctttggcgg cggcaccaag	780
ctgacagtgc tggcggccga gcctaaaagt agcgataaaa ccataacctg cccccctgc	840
ccggcgccag aggctgcagg aggaccaagc gtgttctctg ttccacccaa gcctaaagac	900
acactgatga tttcccgaac cccgaagtc acatgcgtgg tcgtgtctgt gagtcacgag	960
gacctgaag tcaagttcaa ctggtacgtg gatggcgtcg aggtgcataa tgccaagact	1020
aaacctaggg aggaacagta caactcaacc tatcgcgtcg tgagcgtcct gacagtgtc	1080

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caccaggatt ggctgaacgg caaagaatat aagtgcaaag tgagcaataa ggcctgccc      1140
gctcctatcg agaaaaccat ttccaaggct aaagggcagc ctgcggaacc acaggtctac      1200
gtctaccccc catcaagaga tgaactgaca aaaaatcagg tctctctgac atgcctggtc      1260
aaaggattct acccttccga catcgccgtg gagtgggaaa gtaacggcca gcccgagaac      1320
aattacaaga ccacaccccc tgtcctggac tctgatggga gtttcgctct ggtgtcaaag      1380
ctgaccgtcg ataaaagccg gtggcagcag ggcaatgtgt ttagctgctc cgtcatgcac      1440
gaagccctgc acaatcacta cacacagaag tccctgagcc tgagccctgg c              1491

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<210> SEQ ID NO: 221

<211> 497

<212> PRT

<213> Secuencia artificial

<220>

<223> secuencia de aminoácidos de C3E-7036 scFv Fc

<400> 221

```

Met Arg Pro Thr Trp Ala Trp Trp Leu Phe Leu Val Leu Leu Leu Ala
1              5              10              15

```

```

Leu Trp Ala Pro Ala Arg Gly Gly Glu Val Gln Leu Val Glu Ser Gly
20              25              30

```

```

Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala
35              40              45

```

```

Ser Gly Val Thr Phe Asn Tyr Tyr Gly Met Ser Trp Ile Arg Gln Ala
50              55              60

```

```

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

```

```

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

```

Glu Asn Thr Gln Lys Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala
 100 105 110

Glu Asp Thr Ala Val Tyr Tyr Cys Thr Leu Asp Gly Arg Asp Gly Trp
 115 120 125

Val Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly
 130 135 140

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Asn Phe Met
 145 150 155 160

Leu Thr Gln Pro Ser Ser Val Ser Gly Val Pro Gly Gln Arg Val Thr
 165 170 175

Ile Ser Cys Thr Gly Asn Thr Gly Asn Ile Gly Ser Asn Tyr Val Asn
 180 185 190

Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu Ile Tyr Arg
 195 200 205

Asp Asp Lys Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Lys
 210 215 220

Ser Gly Thr Ser Ala Ser Leu Ala Ile Thr Gly Phe Gln Ala Glu Asp
 225 230 235 240

Glu Ala Asp Tyr Tyr Cys Gln Ser Tyr Ser Ser Gly Phe Ile Phe Gly
 245 250 255

Gly Gly Thr Lys Leu Thr Val Leu Ala Ala Glu Pro Lys Ser Ser Asp
 260 265 270

Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Ala Ala Gly Gly
 275 280 285

Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile
 290 295 300

Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Ser Val Ser His Glu
 305 310 315 320

Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His
 325 330 335

Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg
 340 345 350

Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys
 355 360 365

Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu
 370 375 380

Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr
 385 390 395 400

Val Tyr Pro Pro Ser Arg Asp Glu Leu Thr Lys Asn Gln Val Ser Leu
 405 410 415

Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp
 420 425 430

Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val
 435 440 445

Leu Asp Ser Asp Gly Ser Phe Ala Leu Val Ser Lys Leu Thr Val Asp
 450 455 460

Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His
 465 470 475 480

Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro
 485 490 495

Gly

<210> SEQ ID NO: 222

<211> 1512

<212> ADN

<213> Secuencia artificial

<220>

<223> secuencia nucleotídica de h2B1 scFv Fc

<400> 222

atgcggccta cctgggcctg gtggctgttc ctggtgctgc tgctggccct gtgggcccc	60
gcccgggggg ccacccgcat gacacagtcc cctagctcct tttctgccag cacaggcgat	120
agagtgacca tcacatgcaa ggccctcccag tctgtgggca tcaacgtgga ctggtaccag	180
cagaagcctg gcaagagccc aaagctgctg atctatgggg ccagcaatag gcacaccgga	240
gtgccatcta gattcagcgg ctccggcttc ggagagact tcaccctgac aatctctagc	300
ctgcagagcg aggacttcgc cacatactat tgctgcagc acggctccat cccccctacc	360
tttggcgagg gcacaaaggt ggagatcaag ggaggaggag gctccggcgg aggaggctct	420
ggcgggcggg gcagcgggcg cggccagggtg cagctggtgg agtccggagg aggcctggtg	480
aagccaagcc agaccctgtc cctgacctgt acattctctg gcttttagcct gaacacatac	540
gatatgggag tgggatggat caggcagcca ccaggcaagg gcctggagtg gatcggcaac	600
atctggtggg acgatgacaa gtactataat ccctccctga agtctcgcgt gaccatctct	660
aaggatacaa gcaacaatca ggccctctctg aagctgtcct ctgtgaccgc cgccgacaca	720
gccgtgtact attgtgcaag gatcgagaca gtgcgggtga gccggaaggg atttgcacac	780
tggggacagg gcaccctggt gacagtgagc tctgcggccg agcctaaaag tagcgataaa	840
accatacct gccccccctg cccggcgcca gaggtgcag gaggaccaag cgtgttcctg	900
tttccacca agcctaaaga cacactgatg atttcccgaa ccccggaagt cacatgcgtg	960

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gtcgtgtctg tgagtcacga ggaccctgaa gtcaagttca actggtacgt ggatggcgtc      1020
gaggtgcata atgccaagac taaacctagg gaggaacagt acaactcaac ctatcgcgtc      1080
gtgagcgctc tgacagtgct gcaccaggat tggctgaacg gcaaagaata taagtgcaaa      1140
gtgagcaata aggccctgcc cgctcctatc gagaaaacca tttccaaggc taaagggcag      1200
cctcgcgaaac cacaggtcta cgtgctgccc cctagccgcg acgaactgac taaaaatcag      1260
gtctctctgc tgtgtctggt caaaggattc tacccttccg acatcgccgt ggagtgggaa      1320
agtaacggcc agcccgagaa caattacctg acctggcccc ctgtgctgga ctctgatggg      1380
agttttcttc tgtattcaaa gctgacagtc gataaaagcc ggtggcagca gggcaatgtg      1440
ttcagctgct ccgtcatgca cgaagcactg cacaaccatt acactcagaa gtccctgtcc      1500
ctgtcacctg gc                                                    1512

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<210> SEQ ID NO: 223

<211> 504

<212> PRT

<213> Secuencia artificial

<220>

<223> secuencia de aminoácidos de h2B1_scFv_Fc

<400> 223

```

Met Arg Pro Thr Trp Ala Trp Trp Leu Phe Leu Val Leu Leu Leu Ala
1           5           10           15
Leu Trp Ala Pro Ala Arg Gly Ala Thr Arg Met Thr Gln Ser Pro Ser
           20           25           30

```

```

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

```

```

Ser Gln Ser Val Gly Ile Asn Val Asp Trp Tyr Gln Gln Lys Pro Gly
           50           55           60

```

```

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

```

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

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

Gln His Gly Ser Ile Pro Pro Thr Phe Gly Gly Gly Thr Lys Val Glu
115 120 125

Ile Lys Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly
130 135 140

Ser Gly Gly Gly Gln Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val
145 150 155 160

Lys Pro Ser Gln Thr Leu Ser Leu Thr Cys Thr Phe Ser Gly Phe Ser
165 170 175

Leu Asn Thr Tyr Asp Met Gly Val Gly Trp Ile Arg Gln Pro Pro Gly
180 185 190

Lys Gly Leu Glu Trp Ile Gly Asn Ile Trp Trp Asp Asp Asp Lys Tyr
195 200 205

Tyr Asn Pro Ser Leu Lys Ser Arg Val Thr Ile Ser Lys Asp Thr Ser
210 215 220

Asn Asn Gln Ala Ser Leu Lys Leu Ser Ser Val Thr Ala Ala Asp Thr
225 230 235 240

Ala Val Tyr Tyr Cys Ala Arg Ile Glu Thr Val Arg Val Ser Arg Lys
245 250 255

Gly Phe Ala His Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Ala
260 265 270

Ala Glu Pro Lys Ser Ser Asp Lys Thr His Thr Cys Pro Pro Cys Pro
 275 280 285

Ala Pro Glu Ala Ala Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys
 290 295 300

Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val
 305 310 315 320

Val Val Ser Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr
 325 330 335

Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu
 340 345 350

Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His
 355 360 365

Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys
 370 375 380

Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln
 385 390 395 400

Pro Arg Glu Pro Gln Val Tyr Val Leu Pro Pro Ser Arg Asp Glu Leu
 405 410 415

Thr Lys Asn Gln Val Ser Leu Leu Cys Leu Val Lys Gly Phe Tyr Pro
 420 425 430

Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn
 435 440 445

Tyr Leu Thr Trp Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu
 450 455 460

Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val
 465 470 475 480

Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln
 485 490 495

Lys Ser Leu Ser Leu Ser Pro Gly
 500

<210> SEQ ID NO: 224

<211> 1491

<212> ADN

<213> Secuencia artificial

<220>

<223> secuencia nucleotídica de C3E-8015

<400> 224

atgcggccca cctgggcatg gtggctgttc ctggtgctgc tgctggccct gtgggcccct	60
gccaggggcg gagaagtgca gctggtggaa tccggggggg gcctggtgca gcctgggggg	120
agcctgagac tgagttgtgc cgcctctggg gtgacattta actactatgg catgtcttgg	180
atccgccagg cacctggaaa gggcctggag tgggtggcca gcatcactag gtccggcggg	240
cgaatctact atcccgacag cgtcaagggc aggttcacaa tttcccgcga gaacacacag	300
aaaactctgt acctgcagat gaatagcctg agagccgaag atacagctgt gtactattgc	360
actctggacg gcagggatgg gtgggtcgcc tattgggggc agggaaccct ggtgacagtc	420
agctccggag gaggaggatc tggcggagga ggcagtgggg gaggcgggtc aaactttatg	480
ctcactcagc cgtcctctgt ttctggcgta cctggccaac gggtgaccat tagctgtacg	540
ggtaataaccg ggaatatcgg gtctaactac gtgaactggt atcagcagct tccagggaca	600
gctcccaagt tgctgatcta tcgcgacgac aaaagaccct caggggtccc tgaccgattt	660
agtggcagca aaagcggtag ttccgcttcc ctggcgataa ccggctttca ggccgaagat	720
gaggcagact actattgcca gtcattttcc agcggcttca tcttcggagg cggaactaag	780
ctgacagtgt tggcggccga gcctaaaagt agcgataaaa cccatacctg cccccctgc	840

```

ccggcgccag aggctgcagg aggaccaagc gtgttcctgt ttccacccaa gcctaaagac      900
acactgatga tttcccgaac ccccgaaagtc acatgcgtgg tcgtgtctgt gagtcacgag      960
gaccctgaag tcaagttcaa ctggtacgtg gatggcgctcg aggtgcataa tgccaagact     1020
aaacctaggg aggaacagta caactcaacc tatcgcgctcg tgagcgtcct gacagtgtctg     1080
caccaggatt ggctgaacgg caaagaatat aagtgcaaag tgagcaataa ggccctgccc     1140
gctcctatcg agaaaaccat ttccaaggct aaagggcagc ctgcggaacc acaggtctac     1200
gtctaccccc catcaagaga tgaactgaca aaaaatcagg tctctctgac atgcctggtc     1260
aaaggattct acccttcgga catcgccgtg gagtgggaaa gtaacggcca gcccgagaac     1320
aattacaaga ccacaccccc tgtcctggac tctgatggga gtttcgctct ggtgtcaaag     1380
ctgaccgtcg ataaaagccg gtggcagcag ggcaatgtgt ttagctgctc cgtcatgcac     1440
gaagccctgc acaatcacta cacacagaag tccctgagcc tgagccctgg c               1491

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<210> SEQ ID NO: 225

<211> 497

<212> PRT

<213> Secuencia artificial

<220>

<223> secuencia de aminoácidos de C3E-8015

<400> 225

```

Met Arg Pro Thr Trp Ala Trp Trp Leu Phe Leu Val Leu Leu Leu Ala
1           5           10           15

```

```

Leu Trp Ala Pro Ala Arg Gly Gly Glu Val Gln Leu Val Glu Ser Gly
20           25           30

```

```

Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala
35           40           45

```

```

Ser Gly Val Thr Phe Asn Tyr Tyr Gly Met Ser Trp Ile Arg Gln Ala
50           55           60

```

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

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

Glu Asn Thr Gln Lys Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala
100 105 110

Glu Asp Thr Ala Val Tyr Tyr Cys Thr Leu Asp Gly Arg Asp Gly Trp
115 120 125

Val Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly
130 135 140

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Asn Phe Met
145 150 155 160

Leu Thr Gln Pro Ser Ser Val Ser Gly Val Pro Gly Gln Arg Val Thr
165 170 175

Ile Ser Cys Thr Gly Asn Thr Gly Asn Ile Gly Ser Asn Tyr Val Asn
180 185 190

Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu Ile Tyr Arg
195 200 205

Asp Asp Lys Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Lys
210 215 220

Ser Gly Thr Ser Ala Ser Leu Ala Ile Thr Gly Phe Gln Ala Glu Asp
225 230 235 240

Glu Ala Asp Tyr Tyr Cys Gln Ser Tyr Ser Ser Gly Phe Ile Phe Gly
245 250 255

Gly Gly Thr Lys Leu Thr Val Leu Ala Ala Glu Pro Lys Ser Ser Asp
 260 265 270

Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Ala Ala Gly Gly
 275 280 285

Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile
 290 295 300

Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Ser Val Ser His Glu
 305 310 315 320

Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His
 325 330 335

Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg
 340 345 350

Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys
 355 360 365

Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu
 370 375 380

Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr
 385 390 395 400

Val Tyr Pro Pro Ser Arg Asp Glu Leu Thr Lys Asn Gln Val Ser Leu
 405 410 415

Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp
 420 425 430

Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val
 435 440 445

Leu Asp Ser Asp Gly Ser Phe Ala Leu Val Ser Lys Leu Thr Val Asp
 450 455 460

Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His
 465 470 475 480

Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro
 485 490 495

Gly

<210> SEQ ID NO: 226

<211> 1497

<212> ADN

<213> Secuencia artificial

<220>

<223> secuencia nucleotídica de C3E-8017

<400> 226

atgcgccta cctgggcctg gtggctgttc ctgggtctgc tgctggccct gtgggcccc	60
gccccggggcg gagaagtgca gctgggtggaa tccggggggg gcctggtgca gcctgggggg	120
agcctgagac tgagttgtgc cgcctctggg gtgacattta actactatgg catgtcttgg	180
atccgccagg cacctggaaa gggcctggag tgggtggcca gcatcactag gtccggcggg	240
cgaatctact atcccgacag cgtcaagggc aggttcacaa tttcccgcga gaacacacag	300
aaaactctgt acctgcagat gaatagcctg agagccgaag atacagctgt gtactattgc	360
actctggacg gcagggatgg gtgggtcgcc tattgggggc agggaaccct ggtgacagtc	420
agctccggag gaggaggatc tggcggagga ggcagtgggg gaggcgggtc aaactttatg	480
ctgaccacgc cccacagtgt gtcagagagc cctggcaaga ctgtcaccat ctcttgtaaa	540
aggaacaccg gaaatattgg cagtaactac gtgaattggt atcagcagca tgaagggctc	600
agtccaacca caatcatcta ccggaacgat aagagaccg acgggggtgc cgatcgattc	660
tccggatcta tcgaccggtc aagcaagagt gcttcactga ccattagcaa tctgaaaaca	720

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gaggacgaag cagattactt ttgccagtcc tattcctctg gtttcatctt tggaggcggg      780
actaaactga ccgtgctggc ggccgagcct aaaagtagcg ataaaaccca tacctgcccc      840
ccctgccccg cgccagaggc tgcaggagga ccaagcgtgt tcctgtttcc acccaagcct      900
aaagacacac tgatgatttc ccgaaccccc gaagtcacat gcgtggtcgt gtctgtgagt      960
cacgaggacc ctgaagtcaa gttcaactgg tacgtggatg gcgtcgaggt gcataatgcc     1020
aagactaaac ctagggagga acagtacaac tcaacctatc gcgtcgtagag cgtcctgaca     1080
gtgctgcacc aggattggct gaacggcaaa gaatataagt gcaaagtgag caataaggcc     1140
ctgcccgctc ctatcgagaa aaccatttcc aaggctaaag ggcagcctcg cgaaccacag     1200
gtctacgtct acccccatc aagagatgaa ctgacaaaaa atcaggtctc tctgacatgc     1260
ctggtcaaag gattctaccc ttccgacatc gccgtggagt gggaaagtaa cggccagccc     1320
gagaacaatt acaagaccac accccctgtc ctggactctg atgggagttt cgctctggtg     1380
tcaaagctga ccgtcgataa aagccggtgg cagcagggca atgtgttttag ctgctccgtc     1440
atgcacgaag ccctgcacaa tcactacaca cagaagtccc tgagcctgag ccctggc       1497

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<210> SEQ ID NO: 227

<211> 499

<212> PRT

<213> Secuencia artificial

<220>

<223> secuencia de aminoácidos de C3E-8017

<400> 227

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Met Arg Pro Thr Trp Ala Trp Trp Leu Phe Leu Val Leu Leu Leu Ala
1              5              10              15

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Leu Trp Ala Pro Ala Arg Gly Gly Glu Val Gln Leu Val Glu Ser Gly
20              25              30

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Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala
35              40              45

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Ser Gly Val Thr Phe Asn Tyr Tyr Gly Met Ser Trp Ile Arg Gln Ala
 50 55 60

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

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

Glu Asn Thr Gln Lys Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala
 100 105 110

Glu Asp Thr Ala Val Tyr Tyr Cys Thr Leu Asp Gly Arg Asp Gly Trp
 115 120 125

Val Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly
 130 135 140

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Asn Phe Met
 145 150 155 160

Leu Thr Gln Pro His Ser Val Ser Glu Ser Pro Gly Lys Thr Val Thr
 165 170 175

Ile Ser Cys Lys Arg Asn Thr Gly Asn Ile Gly Ser Asn Tyr Val Asn
 180 185 190

Trp Tyr Gln Gln His Glu Gly Ser Ser Pro Thr Thr Ile Ile Tyr Arg
 195 200 205

Asn Asp Lys Arg Pro Asp Gly Val Ser Asp Arg Phe Ser Gly Ser Ile
 210 215 220

Asp Arg Ser Ser Lys Ser Ala Ser Leu Thr Ile Ser Asn Leu Lys Thr
 225 230 235 240

Glu Asp Glu Ala Asp Tyr Phe Cys Gln Ser Tyr Ser Ser Gly Phe Ile
 245 250 255

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Ala Ala Glu Pro Lys Ser
 260 265 270

Ser Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Ala Ala
 275 280 285

Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu
 290 295 300

Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Ser Val Ser
 305 310 315 320

His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu
 325 330 335

Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr
 340 345 350

Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn
 355 360 365

Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro
 370 375 380

Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln
 385 390 395 400

Val Tyr Val Tyr Pro Pro Ser Arg Asp Glu Leu Thr Lys Asn Gln Val
 405 410 415

Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val
 420 425 430

Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro
 435 440 445

Pro Val Leu Asp Ser Asp Gly Ser Phe Ala Leu Val Ser Lys Leu Thr
 450 455 460

Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val
 465 470 475 480

Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu
 485 490 495

Ser Pro Gly

<210> SEQ ID NO: 228

<211> 1497

<212> ADN

<213> Secuencia artificial

<220>

<223> secuencia nucleotídica de C3E-8018

<400> 228

atgcgccta cctgggctg gtggctgttc ctggtgctgc tgctggccct gtgggcccc	60
gcccggggcg gagaagtgc gctggtggaa tccggggggg gcctggtgca gcctgggggg	120
agcctgagac tgagttgtgc cgcctctggg gtgacattta actactatgg catgtcttgg	180
atccgccagg cacctggaaa gggcctggag tgggtggcca gcatcacttc ttccggcggg	240
cgaatctact atcccgacag cgtcaagggc aggttcacaa tttcccgcga gaacacacag	300
aaaactctgt acctgcagat gaatagcctg agagccgaag atacagctgt gtactattgc	360
actctggacg gcagggatgg gtgggtcgcc tattggggggc agggaaacct ggtgacagtc	420
agctccggag gaggaggatc tggcggagga ggcagtgggg gaggcgggtc aaactttatg	480
ctgaccacgc cccacagtgt gtcagagagc cctggcaaga ctgtcaccat ctcttgtaaa	540
aggaacaccg gaaatattgg cagtaactac gtgaattggt atcagcagca tgaaggggtct	600

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agtccaacca caatcatcta ccggaacgat aagagacccg acggggtgtc cgatcgattc      660
tccggatcta tcgaccggtc aagcaagagt gcttactga ccattagcaa tctgaaaaca      720
gaggacgaag cagattactt ttgccagtcc tattcctctg gcttcatctt tggaggcggg      780
actaaactga ccgtgctggc ggccgagcct aaaagtagcg ataaaacca tacctgcccc      840
ccctgcccgg cgccagaggc tgcaggagga ccaagcgtgt tcctgtttcc acccaagcct      900
aaagacacac tgatgatttc ccgaaccccc gaagtcacat gcgtggtcgt gtctgtgagt      960
cacgaggacc ctgaagtcaa gttcaactgg tacgtggatg gcgtcgaggt gcataatgcc     1020
aagactaaac ctagggagga acagtacaac tcaacctatc gcgtcgtgag cgtcctgaca     1080
gtgctgcacc aggattggct gaacggcaaa gaatataagt gcaaagtgag caataaggcc     1140
ctgcccgtc ctatcgagaa aaccatttcc aaggctaaag ggcagcctcg cgaaccacag     1200
gtctacgtct acccccatc aagagatgaa ctgacaaaaa atcaggtctc tctgacatgc     1260
ctgggtcaaag gattctaccc ttccgacatc gccgtggagt gggaaagtaa cggccagccc     1320
gagaacaatt acaagaccac accccctgtc ctggactctg atgggagttt cgctctggtg     1380
tcaaagctga ccgtcgataa aagccggtgg cagcagggca atgtgttttag ctgctccgtc     1440
atgcacgaag ccctgcacaa tcaactacaca cagaagtccc tgagcctgag ccctggc      1497

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<210> SEQ ID NO: 229

<211> 499

<212> PRT

<213> Secuencia artificial

<220>

<223> secuencia de aminoácidos de C3E-8018

<400> 229

```

Met Arg Pro Thr Trp Ala Trp Trp Leu Phe Leu Val Leu Leu Ala
1           5           10           15

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Leu Trp Ala Pro Ala Arg Gly Gly Glu Val Gln Leu Val Glu Ser Gly
20           25           30

```

Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala
 35 40 45

Ser Gly Val Thr Phe Asn Tyr Tyr Gly Met Ser Trp Ile Arg Gln Ala
 50 55 60

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

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

Glu Asn Thr Gln Lys Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala
 100 105 110

Glu Asp Thr Ala Val Tyr Tyr Cys Thr Leu Asp Gly Arg Asp Gly Trp
 115 120 125

Val Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly
 130 135 140

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Asn Phe Met
 145 150 155 160

Leu Thr Gln Pro His Ser Val Ser Glu Ser Pro Gly Lys Thr Val Thr
 165 170 175

Ile Ser Cys Lys Arg Asn Thr Gly Asn Ile Gly Ser Asn Tyr Val Asn
 180 185 190

Trp Tyr Gln Gln His Glu Gly Ser Ser Pro Thr Thr Ile Ile Tyr Arg
 195 200 205

Asn Asp Lys Arg Pro Asp Gly Val Ser Asp Arg Phe Ser Gly Ser Ile
 210 215 220

Asp Arg Ser Ser Lys Ser Ala Ser Leu Thr Ile Ser Asn Leu Lys Thr
 225 230 235 240

Glu Asp Glu Ala Asp Tyr Phe Cys Gln Ser Tyr Ser Ser Gly Phe Ile
 245 250 255

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Ala Ala Glu Pro Lys Ser
 260 265 270

Ser Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Ala Ala
 275 280 285

Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu
 290 295 300

Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Ser Val Ser
 305 310 315 320

His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu
 325 330 335

Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr
 340 345 350

Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn
 355 360 365

Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro
 370 375 380

Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln
 385 390 395 400

Val Tyr Val Tyr Pro Pro Ser Arg Asp Glu Leu Thr Lys Asn Gln Val
 405 410 415

Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val
 420 425 430

Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro
 435 440 445

Pro Val Leu Asp Ser Asp Gly Ser Phe Ala Leu Val Ser Lys Leu Thr
 450 455 460

Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val
 465 470 475 480

Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu
 485 490 495

Ser Pro Gly

<210> SEQ ID NO: 230

<211> 1494

<212> ADN

<213> Secuencia artificial

<220>

<223> secuencia nucleotídica de C3E-8025

<400> 230

atgcggccca cctgggcatg gtggctgttc ctggtgctgc tgctggccct gtgggccct	60
gccaggggcg gagaagtgca gctggtggaa tccggggggg gcctggtgca gcctgggggg	120
agcctgagac tgagttgtgc cgcctctggg gtgacattta actactatgg catgtcttgg	180
atccgccagg cacctggaaa gggcctggag tgggtggcca gcatcactag gtccggcggg	240
cgaatctact atcccgacag cgtcaagggc aggttcacaa tttcccgcga gaacacacag	300
aaaactctgt acctgcagat gaatagcctg agagccgaag atacagctgt gtactattgc	360
actctggacg gcagggatgg gtgggtcgcc tattgggggc agggaaaccct ggtgacagtc	420
agctccggag gaggaggatc tggcggagga ggcagtgggg gaggcggggtc aaactttatg	480

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ctcactcagc cgtcctctgt ttctggcgta cctggccaac gggtgaccat tagctgtacg      540
ggtaataaccg ggaatatcgg gtctaactac gtgaactggg atcagcagct tccagggaca      600
gctcccaagt tgctgatcta tcgcgacgac aaaagaccct caggggtccc tgaccgattt      660
agtggcagca aaagcgggtac ttccgcttcc ctggcgataa ccggccttca ggccgaagat      720
gaggcagact actattgcca gtcataattcc agcggcttca tcttcggagg cggaactaag      780
ctgacagtgt tggcgggccga gcctaaaagt agcgataaaa ccataacctg cccccctgc      840
ccggcgccag aggctgcagg aggaccaagc gtgttcctgt ttccacccaa gcctaaagac      900
aactgatga tttcccgaac cccgaagtc acatgcgtgg tegtgtctgt gagtcacgag      960
gaccctgaag tcaagttcaa ctggtacgtg gatggcgtcg aggtgcataa tgccaagact     1020
aaacctaggg aggaacagta caactcaacc tatcgcgtcg tgagcgtcct gacagtgtcg     1080
caccaggatt ggctgaacgg caaagaatat aagtgcaaag tgagcaataa ggccctgccc     1140
gctcctatcg agaaaaccat ttccaaggct aaagggcagc ctgcggaacc acaggtctac     1200
gtctaccccc catcaagaga tgaactgaca aaaaatcagg tctctctgac atgcctggtc     1260
aaaggattct acccttccga catcgccgtg gagtgggaaa gtaacggcca gcccgagaac     1320
aattacaaga ccacaccccc tgtcctggac tctgatggga gtttcgctct ggtgtcaaag     1380
ctgaccgtcg ataaaagccg gtggcagcag ggcaatgtgt ttagctgtct cgtcatgcac     1440
gaagccctgc acaatcacta cacacagaag tccctgagcc tgagccctgg caag           1494

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<210> SEQ ID NO: 231

<211> 498

<212> PRT

<213> Secuencia artificial

<220>

<223> secuencia de aminoácidos de C3E-8025

<400> 231

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Met Arg Pro Thr Trp Ala Trp Trp Leu Phe Leu Val Leu Leu Leu Ala
1           5           10           15

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Leu Trp Ala Pro Ala Arg Gly Gly Glu Val Gln Leu Val Glu Ser Gly
 20 25 30

Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala
 35 40 45

Ser Gly Val Thr Phe Asn Tyr Tyr Gly Met Ser Trp Ile Arg Gln Ala
 50 55 60

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

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

Glu Asn Thr Gln Lys Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala
 100 105 110

Glu Asp Thr Ala Val Tyr Tyr Cys Thr Leu Asp Gly Arg Asp Gly Trp
 115 120 125

Val Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly
 130 135 140

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Asn Phe Met
 145 150 155 160

Leu Thr Gln Pro Ser Ser Val Ser Gly Val Pro Gly Gln Arg Val Thr
 165 170 175

Ile Ser Cys Thr Gly Asn Thr Gly Asn Ile Gly Ser Asn Tyr Val Asn
 180 185 190

Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu Ile Tyr Arg
 195 200 205

Asp Asp Lys Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Lys
 210 215 220

Ser Gly Thr Ser Ala Ser Leu Ala Ile Thr Gly Phe Gln Ala Glu Asp
 225 230 235 240

Glu Ala Asp Tyr Tyr Cys Gln Ser Tyr Ser Ser Gly Phe Ile Phe Gly
 245 250 255

Gly Gly Thr Lys Leu Thr Val Leu Ala Ala Glu Pro Lys Ser Ser Asp
 260 265 270

Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Ala Ala Gly Gly
 275 280 285

Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile
 290 295 300

Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Ser Val Ser His Glu
 305 310 315 320

Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His
 325 330 335

Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg
 340 345 350

Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys
 355 360 365

Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu
 370 375 380

Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr
 385 390 395 400

Val Tyr Pro Pro Ser Arg Asp Glu Leu Thr Lys Asn Gln Val Ser Leu
 405 410 415

Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp
 420 425 430

Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val
 435 440 445

Leu Asp Ser Asp Gly Ser Phe Ala Leu Val Ser Lys Leu Thr Val Asp
 450 455 460

Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His
 465 470 475 480

Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro
 485 490 495

Gly Lys

<210> SEQ ID NO: 232

<211> 1500

<212> ADN

<213> Secuencia artificial

<220>

<223> secuencia nucleotídica de C3E-8027

<400> 232

atgcgccta cctgggcctg gtggctgttc ctggtgctgc tgctggccct gtgggccc	60
gcccggggcg gagaagtgca gctggtggaa tccggggggg gcctggtgca gcctgggggg	120
agcctgagac tgagttgtgc cgcctctggg gtgacattta actactatgg catgtcttgg	180
atccgccagg cacctggaaa gggcctggag tgggtggcca gcatcactag gtccggcg	240
cgaatctact atcccgacag cgtcaagggc aggttcacaa tttcccgcca gaacacacag	300
aaaactctgt acctgcagat gaatagcctg agagccgaag atacagctgt gtactattgc	360

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actctggacg gcagggatgg gtgggtcgcc tattgggggc agggaaccct ggtgacagtc      420
agctccggag gaggaggatc tggcggagga ggcagtgggg gaggcggggtc aaactttatg      480
ctgacccagc cccacagtgt gtcagagagc cctggcaaga ctgtcaccat ctcttgtaaa      540
aggaacaccg gaaatattgg cagtaactac gtgaattggt atcagcagca tgaaggggtct      600
agtccaacca caatcatcta ccggaacgat aagagacccg acgggggtgtc cgatcgattc      660
tccggatcta tcgaccggtc aagcaagagt gcttcactga ccattagcaa tctgaaaaca      720
gaggacgaag cagattactt ttgccagtcc tattcctctg gcttcactct tggaggcggg      780
actaaactga ccgtgctggc ggccgagcct aaaagtagcg ataaaacca tacctgcccc      840
ccctgccccg cgccagaggc tgcaggagga ccaagcgtgt tcctgtttcc acccaagcct      900
aaagacacac tgatgatttc ccgaaccccc gaagtcacat gcgtggtcgt gtctgtgagt      960
cacgaggacc ctgaagtcaa gttcaactgg tacgtggatg gcgtcgaggt gcataatgcc     1020
aagactaaac ctagggagga acagtacaac tcaacctatc gcgtcgtgag cgtcctgaca     1080
gtgctgcacc aggattggct gaacggcaaa gaatataagt gcaaagtgag caataaggcc     1140
ctgcccgtc ctatcgagaa aaccatttcc aaggctaaag ggcagcctcg cgaaccacag     1200
gtctacgtct acccccatc aagagatgaa ctgacaaaaa atcaggctct tctgacatgc     1260
ctggtcaaag gattctaccc ttccgacatc gccgtggagt gggaaagtaa cggccagccc     1320
gagaacaatt acaagaccac accccctgtc ctggactctg atgggagttt cgctctggtg     1380
tcaaagctga ccgtcgataa aagccggtgg cagcagggca atgtgttttag ctgctccgtc     1440
atgcacgaag ccctgcacaa tcaactacaca cagaagtccc tgagcctgag ccctggcaag     1500

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<210> SEQ ID NO: 233

<211> 500

<212> PRT

<213> Secuencia artificial

<220>

<223> secuencia de aminoácidos de C3E-8027

<400> 233

Met Arg Pro Thr Trp Ala Trp Trp Leu Phe Leu Val Leu Leu Leu Ala
 1 5 10 15

Leu Trp Ala Pro Ala Arg Gly Gly Glu Val Gln Leu Val Glu Ser Gly
 20 25 30

Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala
 35 40 45

Ser Gly Val Thr Phe Asn Tyr Tyr Gly Met Ser Trp Ile Arg Gln Ala
 50 55 60

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

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

Glu Asn Thr Gln Lys Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala
 100 105 110

Glu Asp Thr Ala Val Tyr Tyr Cys Thr Leu Asp Gly Arg Asp Gly Trp
 115 120 125

Val Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly
 130 135 140

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Asn Phe Met
 145 150 155 160

Leu Thr Gln Pro His Ser Val Ser Glu Ser Pro Gly Lys Thr Val Thr
 165 170 175

Ile Ser Cys Lys Arg Asn Thr Gly Asn Ile Gly Ser Asn Tyr Val Asn
 180 185 190

Trp Tyr Gln Gln His Glu Gly Ser Ser Pro Thr Thr Ile Ile Tyr Arg
 195 200 205

Asn Asp Lys Arg Pro Asp Gly Val Ser Asp Arg Phe Ser Gly Ser Ile
 210 215 220

Asp Arg Ser Ser Lys Ser Ala Ser Leu Thr Ile Ser Asn Leu Lys Thr
 225 230 235 240

Glu Asp Glu Ala Asp Tyr Phe Cys Gln Ser Tyr Ser Ser Gly Phe Ile
 245 250 255

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Ala Ala Glu Pro Lys Ser
 260 265 270

Ser Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Ala Ala
 275 280 285

Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu
 290 295 300

Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Ser Val Ser
 305 310 315 320

His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu
 325 330 335

Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr
 340 345 350

Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn
 355 360 365

Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro
 370 375 380

Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln
385 390 395 400

Val Tyr Val Tyr Pro Pro Ser Arg Asp Glu Leu Thr Lys Asn Gln Val
405 410 415

Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val
420 425 430

Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro
435 440 445

Pro Val Leu Asp Ser Asp Gly Ser Phe Ala Leu Val Ser Lys Leu Thr
450 455 460

Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val
465 470 475 480

Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu
485 490 495

Ser Pro Gly Lys
500

<210> SEQ ID NO: 234

<211> 1500

<212> ADN

<213> Secuencia artificial

<220>

<223> secuencia nucleotídica de C3E-8028

<400> 234

atgcgccta cctgggcctg gtggctgttc ctggtgctgc tgctggccct gtgggccccca 60

gcccggggcg gagaagtgca gctggtggaa tccggggggg gcctggtgca gcctggggggg 120

agcctgagac tgagttgtgc cgcctctggg gtgacattta actactatgg catgtcttgg 180

atccgccagg cacctggaaa gggcctggag tgggtggcca gcatcacttc ttccggcggg 240

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cgaatctact atccccgacag cgtcaagggc aggttcacaa tttcccgcga gaacacacag      300
aaaactctgt acctgcagat gaatagcctg agagccgaag atacagctgt gtactattgc      360
actctggacg gcagggatgg gtgggtcgcc tattgggggc agggaaaccct ggtgacagtc      420
agctccggag gaggaggatc tggcggagga ggcagtgggg gaggcggggtc aaactttatg      480
ctgaccacagc cccacagtgt gtcagagagc cctggcaaga ctgtcaccat ctcttgtaaa      540
aggaacaccg gaaatattgg cagtaactac gtgaattggg atcagcagca tgaaggggtct      600
agtccaacca caatcatcta ccggaacgat aagagacccg acgggggtgtc cgatcgattc      660
tccggatcta tcgaccggtc aagcaagagt gcttcactga ccattagcaa tctgaaaaca      720
gaggacgaag cagattactt ttgccagtcc tattcctctg gcttcatctt tggaggcggg      780
actaaactga ccgtgctggc ggccgagcct aaaagtagcg ataaaacca tacctgcccc      840
ccctgccccg cgccagaggc tgcaggagga ccaagcgtgt tcctgtttcc acccaagcct      900
aaagacacac tgatgatttc ccgaaccccc gaagtcacat gcgtgggtcgt gtctgtgagt      960
cacgaggacc ctgaagtcaa gttcaactgg tacgtggatg gcgtcgaggt gcataatgcc     1020
aagactaaac ctagggagga acagtacaac tcaacctatc gcgtcgtgag cgtcctgaca     1080
gtgctgcacc aggattggct gaacggcaaa gaatataagt gcaaagtgag caataaggcc     1140
ctgcccgcgc ctatcgagaa aaccatttcc aaggctaaag ggagccctcg cgaaccacag     1200
gtctacgtct acccccatc aagagatgaa ctgacaaaaa atcaggtctc tctgacatgc     1260
ctggtcaaag gattctaccc ttccgacatc gccgtggagt gggaaagtaa cggccagccc     1320
gagaacaatt acaagaccac accccctgtc ctggactctg atgggagttt cgctctgggtg     1380
tcaaagctga ccgtcgataa aagccggtgg cagcagggca atgtgttttag ctgctccgtc     1440
atgcacgaag ccctgcacaa tcactacaca cagaagtccc tgagcctgag ccctggcaag     1500

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<210> SEQ ID NO: 235

<211> 500

<212> PRT

<213> Secuencia artificial

<220>

<223> secuencia de aminoácidos de C3E-8028

<400> 235

Met	Arg	Pro	Thr	Trp	Ala	Trp	Trp	Leu	Phe	Leu	Val	Leu	Leu	Leu	Ala
1				5					10					15	

Leu	Trp	Ala	Pro	Ala	Arg	Gly	Gly	Glu	Val	Gln	Leu	Val	Glu	Ser	Gly
			20					25					30		

Gly	Gly	Leu	Val	Gln	Pro	Gly	Gly	Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala
		35					40					45			

Ser	Gly	Val	Thr	Phe	Asn	Tyr	Tyr	Gly	Met	Ser	Trp	Ile	Arg	Gln	Ala
	50					55					60				

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

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

Glu	Asn	Thr	Gln	Lys	Thr	Leu	Tyr	Leu	Gln	Met	Asn	Ser	Leu	Arg	Ala
			100					105					110		

Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys	Thr	Leu	Asp	Gly	Arg	Asp	Gly	Trp
		115					120					125			

Val	Ala	Tyr	Trp	Gly	Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser	Gly	Gly
	130					135					140				

Gly	Gly	Ser	Gly	Gly	Gly	Gly	Ser	Gly	Gly	Gly	Gly	Ser	Asn	Phe	Met
145					150				155						160

Leu	Thr	Gln	Pro	His	Ser	Val	Ser	Glu	Ser	Pro	Gly	Lys	Thr	Val	Thr
				165					170					175	

Ile Ser Cys Lys Arg Asn Thr Gly Asn Ile Gly Ser Asn Tyr Val Asn
 180 185 190

Trp Tyr Gln Gln His Glu Gly Ser Ser Pro Thr Thr Ile Ile Tyr Arg
 195 200 205

Asn Asp Lys Arg Pro Asp Gly Val Ser Asp Arg Phe Ser Gly Ser Ile
 210 215 220

Asp Arg Ser Ser Lys Ser Ala Ser Leu Thr Ile Ser Asn Leu Lys Thr
 225 230 235 240

Glu Asp Glu Ala Asp Tyr Phe Cys Gln Ser Tyr Ser Ser Gly Phe Ile
 245 250 255

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Ala Ala Glu Pro Lys Ser
 260 265 270

Ser Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Ala Ala
 275 280 285

Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu
 290 295 300

Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Ser Val Ser
 305 310 315 320

His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu
 325 330 335

Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr
 340 345 350

Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn
 355 360 365

Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro
 370 375 380

Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln
 385 390 395 400

Val Tyr Val Tyr Pro Pro Ser Arg Asp Glu Leu Thr Lys Asn Gln Val
 405 410 415

Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val
 420 425 430

Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro
 435 440 445

Pro Val Leu Asp Ser Asp Gly Ser Phe Ala Leu Val Ser Lys Leu Thr
 450 455 460

Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val
 465 470 475 480

Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu
 485 490 495

Ser Pro Gly Lys
 500

<210> SEQ ID NO: 236

<211> 1428

<212> ADN

<213> Secuencia artificial

<220>

<223> secuencia nucleotídica de h2B1 Fab HC_4

<400> 236

atgaggccta cctgggcctg gtggctgttc ctggtgctgc tgctggccct gtgggcccc 60

gcccggggcc aggtgcagct ggtggagtcc ggcggcggcc tggatgaagcc cagccagacc 120

ctgtccctga cctgcacatt cagcggcttt tccctgaaca catacgatat gggagtggga	180
tggatcagac agccacctgg caagggcctg gagtggatcg gcaacatctg gtgggacgat	240
gacaagtact ataatccctc tctgaagagc agagtgacca tctctaagga tacaagcaac	300
aatcaggcct ccctgaagct gagctccgtg accgccgccg acacagccgt gtactattgc	360
gccaggatcg agacagtgcg ggtgagccgg aagggattcg cacactgggg acagggcacc	420
ctggtgacag tgtctagcgc tagcaciaaag ggacctagcg tgttcccact ggccccctcc	480
tctaagtcca cctctggagg aacagccgcc ctgggctgtc tgggtgaagga ctatttcct	540
gagccagtga ccgtgtcctg gaactctggg gccctgacca ggggagtgcac cacatttcct	600
gccgtgctgc agagctccgg cctgtacagc ctgtctagcg tgggtgaccgt gccatcctct	660
agcctgggca cccagacata tatctgcaac gtgaatcaca agccaagcaa tacaaggtc	720
gacaagagag tggagcccaa gtctgtgac aagaccaca catgcccacc ctgtccggcg	780
ccagaggctg caggaggacc aagcgtgttc ctgtttccac ccaagcctaa agacacactg	840
atgatttccc gaacccccga agtcacatgc gtggtcgtgt ctgtgagtca cgaggaccct	900
gaagtcaagt tcaactggta cgtggatggc gtcgaggtgc ataatgcaa gactaaacct	960
agggaggaac agtacaactc aacctatcgc gtcgtgagcg tcctgacagt gctgcaccag	1020
gattggctga acggcaaaga atataagtgc aaagtgagca ataaggccct gcccgtcct	1080
atcgagaaaa ccatttcaa ggctaaaggg cagcctcgcg aaccacaggt ctacgtgctg	1140
ccccctagcc gcgacgaact gactaaaaat caggtctctc tgctgtgtct ggtcaaagga	1200
ttctaccctt ccgacatcgc cgtggagtgg gaaagtaacg gccagcccga gaacaattac	1260
ctgacctggc cccctgtgct ggactctgat gggagtctct ttctgtattc aaagctgaca	1320
gtcgataaaa gccggtggca gcagggcaat gtgttcagct gtcctgcat gcacgaagca	1380
ctgcacaacc attacactca gaagtccctg tccctgtcac ctggcaag	1428

<210> SEQ ID NO: 237

<211> 476

<212> PRT

<213> Secuencia artificial

<220>

<223> secuencia nucleotídica de h2B1_Fab_HC_4

<400> 237

Met	Arg	Pro	Thr	Trp	Ala	Trp	Trp	Leu	Phe	Leu	Val	Leu	Leu	Leu	Ala
1				5					10					15	

Leu	Trp	Ala	Pro	Ala	Arg	Gly	Gln	Val	Gln	Leu	Val	Glu	Ser	Gly	Gly
			20					25					30		

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

Gly	Phe	Ser	Leu	Asn	Thr	Tyr	Asp	Met	Gly	Val	Gly	Trp	Ile	Arg	Gln
	50					55					60				

Pro	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Ile	Gly	Asn	Ile	Trp	Trp	Asp	Asp
65					70					75					80

Asp	Lys	Tyr	Tyr	Asn	Pro	Ser	Leu	Lys	Ser	Arg	Val	Thr	Ile	Ser	Lys
				85					90					95	

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

Ala	Asp	Thr	Ala	Val	Tyr	Tyr	Cys	Ala	Arg	Ile	Glu	Thr	Val	Arg	Val
		115					120					125			

Ser	Arg	Lys	Gly	Phe	Ala	His	Trp	Gly	Gln	Gly	Thr	Leu	Val	Thr	Val
	130					135					140				

Ser	Ser	Ala	Ser	Thr	Lys	Gly	Pro	Ser	Val	Phe	Pro	Leu	Ala	Pro	Ser
145					150					155					160

Ser	Lys	Ser	Thr	Ser	Gly	Gly	Thr	Ala	Ala	Leu	Gly	Cys	Leu	Val	Lys
				165					170					175	

Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu
 180 185 190

Thr Ser Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu
 195 200 205

Tyr Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr
 210 215 220

Gln Thr Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val
 225 230 235 240

Asp Lys Arg Val Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro
 245 250 255

Pro Cys Pro Ala Pro Glu Ala Ala Gly Gly Pro Ser Val Phe Leu Phe
 260 265 270

Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val
 275 280 285

Thr Cys Val Val Val Ser Val Ser His Glu Asp Pro Glu Val Lys Phe
 290 295 300

Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro
 305 310 315 320

Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr
 325 330 335

Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val
 340 345 350

Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala
 355 360 365

Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Val Leu Pro Pro Ser Arg
 370 375 380

Asp Glu Leu Thr Lys Asn Gln Val Ser Leu Leu Cys Leu Val Lys Gly
 385 390 395 400

Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro
 405 410 415

Glu Asn Asn Tyr Leu Thr Trp Pro Pro Val Leu Asp Ser Asp Gly Ser
 420 425 430

Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln
 435 440 445

Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His
 450 455 460

Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
 465 470 475

<210> SEQ ID NO: 238

<211> 8

<212> PRT

<213> Secuencia artificial

<220>

<223> secuencia de aminoácidos de H_CDR2 modificada

<220>

<221> misc_feature

<222> (2)..(2)

<223> El primer Xaa es cualquier aminoácido natural

<220>

<221> misc_feature

<222> (3)..(3)

<223> El segundo Xaa es cualquier aminoácido natural

<220>

<221> misc_feature

<222> (4)..(4)

<223> Xaa puede ser cualquier aminoácido natural

<400> 238

Ile Thr Xaa Xaa Gly Gly Arg Ile

1

5

<210> SEQ ID NO: 239

<211> 3

<212> PRT

<213> Secuencia artificial

<220>

<223> secuencia de aminoácidos de L_CDR2 modificada

<220>

<221> misc_feature

<222> (2)..(2)

<223> Xaa es cualquier aminoácido natural

<220>

<221> misc_feature

<222> (5)..(5)

<223> Xaa puede ser cualquier aminoácido natural

<400> 239

Arg Xaa Asp

1

<210> SEQ ID NO: 240

<211> 118

<212> PRT

<213> Secuencia artificial

<220>

<223> secuencia de aminoácidos de VH de variante de C3E-7034

<220>

<221> misc_feature

<222> (53)..(54)

<223> Los primeros y segundos Xaa son cualquier aminoácido natural

<400> 240

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

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

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

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

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

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

Thr Leu Asp Gly Arg Asp Gly Trp Val Ala Tyr Trp Gly Gln Gly Thr
 100 105 110

Leu Val Thr Val Ser Ser
 115

<210> SEQ ID NO: 241

<211> 109

<212> PRT

<213> Secuencia artificial

<220>

<223> secuencia de aminoácidos de VL de variante de C3E-7034

<220>

<221> misc_feature

<222> (52)..(52)

<223> Xaa es cualquier aminoácido natural

<400> 241

Asn Phe Met Leu Thr Gln Pro His Ser Val Ser Glu Ser Pro Gly Lys
 1 5 10 15

Thr Val Thr Ile Ser Cys Lys Arg Asn Thr Gly Asn Ile Gly Ser Asn
 20 25 30

Tyr Val Asn Trp Tyr Gln Gln His Glu Gly Ser Ser Pro Thr Thr Ile
 35 40 45

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

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

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

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

<210> SEQ ID NO: 242

<211> 107

<212> PRT

<213> Secuencia artificial

<220>

<223> secuencia de aminoácidos de VL de variante de C3E-7035

<220>

<221> misc_feature

<222> (52)..(52)

<223> Xaa es cualquier aminoácido natural

<400> 242

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

Arg Val Thr Ile Ser Cys Lys Arg Asn Thr Gly Asn Ile Gly Ser Asn
 20 25 30

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

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

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

Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Gln Ser Tyr Ser Ser Gly Phe
 85 90 95

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

<210> SEQ ID NO: 243

<211> 107

<212> PRT

<213> Secuencia artificial

<220>

<223> secuencia de aminoácidos de VL de variante de C3E-7036

<220>

<221> misc_feature

<222> (52)..(52)

<223> Xaa es cualquier aminoácido natural

<400> 243

Asn Phe Met Leu Thr Gln Pro Ser Ser Val Ser Gly Val Pro Gly Gln
 1 5 10 15

Arg Val Thr Ile Ser Cys Thr Gly Asn Thr Gly Asn Ile Gly Ser Asn
 20 25 30

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

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

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

Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Gln Ser Tyr Ser Ser Gly Phe
85 90 95

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

<210> SEQ ID NO: 244

<211> 269

<212> PRT

<213> Secuencia artificial

 $\langle 220 \rangle$

<223> secuencia de aminoácidos de C3E-7078

 $\langle 400 \rangle$ 244

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

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

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

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

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

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

Cys Thr Leu Asp Gly Arg Asp Gly Trp Val Ala Tyr Trp Gly Gln Gly
 100 105 110

Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly
 115 120 125

Ser Gly Gly Gly Gly Ser Asn Phe Met Leu Thr Gln Pro His Ser Val
 130 135 140

Ser Glu Ser Pro Gly Lys Thr Val Thr Ile Ser Cys Lys Arg Asn Thr
 145 150 155 160

Gly Asn Ile Gly Ser Asn Tyr Val Asn Trp Tyr Gln Gln His Glu Gly
 165 170 175

Ser Ser Pro Thr Thr Ile Ile Tyr Arg Asp Asp Lys Arg Pro Asp Gly
 180 185 190

Val Ser Asp Arg Phe Ser Gly Ser Ile Asp Arg Ser Ser Lys Ser Ala
 195 200 205

Ser Leu Thr Ile Ser Asn Leu Lys Thr Glu Asp Glu Ala Asp Tyr Phe
 210 215 220

Cys Gln Ser Tyr Ser Ser Gly Phe Ile Phe Gly Gly Gly Thr Lys Leu
 225 230 235 240

Thr Val Leu Gly Ala Ala Ala Gly Ala Gly Gly Asp Tyr Lys Asp Asp
 245 250 255

Asp Asp Lys Gly Ala Ala Ala His His His His His His
 260 265

<210> SEQ ID NO: 245

<211> 267

<212> PRT

<213> Secuencia artificial

<220>

<223> secuencia de aminoácidos de C3E-7085

<400> 245

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

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

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

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

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

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

Cys	Thr	Leu	Asp	Gly	Arg	Asp	Gly	Trp	Val	Ala	Tyr	Trp	Gly	Gln	Gly
			100					105					110		

Thr	Leu	Val	Thr	Val	Ser	Ser	Gly	Gly	Gly	Gly	Ser	Gly	Gly	Gly	Gly
		115						120				125			

Ser	Gly	Gly	Gly	Gly	Ser	Asn	Phe	Met	Leu	Thr	Gln	Pro	Ser	Ser	Val
	130						135					140			

Ser	Gly	Val	Pro	Gly	Gln	Arg	Val	Thr	Ile	Ser	Cys	Thr	Gly	Asn	Thr
145					150					155					160

Gly Asn Ile Gly Ser Asn Tyr Val Asn Trp Tyr Gln Gln Leu Pro Gly
 165 170 175

Thr Ala Pro Lys Leu Leu Ile Tyr Arg Asp Asp Lys Arg Pro Ser Gly
 180 185 190

Val Pro Asp Arg Phe Ser Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu
 195 200 205

Ala Ile Thr Gly Phe Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Gln
 210 215 220

Ser Tyr Ser Ser Gly Phe Ile Phe Gly Gly Gly Thr Lys Leu Thr Val
 225 230 235 240

Leu Gly Ala Ala Ala Gly Ala Gly Gly Asp Tyr Lys Asp Asp Asp Asp
 245 250 255

Lys Gly Ala Ala Ala His His His His His His
 260 265

<210> SEQ ID NO: 246

<211> 269

<212> PRT

<213> Secuencia artificial

<220>

<223> amino_acid_sequence_of_C3E-7086

<400> 246

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

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

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

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

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

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

Cys Thr Leu Asp Gly Arg Asp Gly Trp Val Ala Tyr Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly
115 120 125

Ser Gly Gly Gly Gly Ser Asn Phe Met Leu Thr Gln Pro His Ser Val
130 135 140

Ser Glu Ser Pro Gly Lys Thr Val Thr Ile Ser Cys Lys Arg Asn Thr
145 150 155 160

Gly Asn Ile Gly Ser Asn Tyr Val Asn Trp Tyr Gln Gln His Glu Gly
165 170 175

Ser Ser Pro Thr Thr Ile Ile Tyr Arg Gly Asp Lys Arg Pro Asp Gly
180 185 190

Val Ser Asp Arg Phe Ser Gly Ser Ile Asp Arg Ser Ser Lys Ser Ala
195 200 205

Ser Leu Thr Ile Ser Asn Leu Lys Thr Glu Asp Glu Ala Asp Tyr Phe
210 215 220

Cys Gln Ser Tyr Ser Ser Gly Phe Ile Phe Gly Gly Gly Thr Lys Leu
 225 230 235 240

Thr Val Leu Gly Ala Ala Ala Gly Ala Gly Gly Asp Tyr Lys Asp Asp
 245 250 255

Asp Asp Lys Gly Ala Ala Ala His His His His His His
 260 265

<210> SEQ ID NO: 247

<211> 269

<212> PRT

<213> Secuencia artificial

<220>

<223> secuencia de aminoácidos de C3E-7087

<400> 247

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

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

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

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

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

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

Cys Thr Leu Asp Gly Arg Asp Gly Trp Val Ala Tyr Trp Gly Gln Gly
 100 105 110

Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly
 115 120 125

Ser Gly Gly Gly Gly Ser Asn Phe Met Leu Thr Gln Pro His Ser Val
 130 135 140

Ser Glu Ser Pro Gly Lys Thr Val Thr Ile Ser Cys Lys Arg Asn Thr
 145 150 155 160

Gly Asn Ile Gly Ser Asn Tyr Val Asn Trp Tyr Gln Gln His Glu Gly
 165 170 175

Ser Ser Pro Thr Thr Ile Ile Tyr Arg Gln Asp Lys Arg Pro Asp Gly
 180 185 190

Val Ser Asp Arg Phe Ser Gly Ser Ile Asp Arg Ser Ser Lys Ser Ala
 195 200 205

Ser Leu Thr Ile Ser Asn Leu Lys Thr Glu Asp Glu Ala Asp Tyr Phe
 210 215 220

Cys Gln Ser Tyr Ser Ser Gly Phe Ile Phe Gly Gly Gly Thr Lys Leu
 225 230 235 240

Thr Val Leu Gly Ala Ala Ala Gly Ala Gly Gly Asp Tyr Lys Asp Asp
 245 250 255

Asp Asp Lys Gly Ala Ala Ala His His His His His His
 260 265

<210> SEQ ID NO: 248

<211> 269

<212> PRT

<213> Secuencia artificial

<220>

<223> secuencia de aminoácidos de C3E-7088

<400> 248

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

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

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

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

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

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

Cys Thr Leu Asp Gly Arg Asp Gly Trp Val Ala Tyr Trp Gly Gln Gly
 100 105 110

Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly
 115 120 125

Ser Gly Gly Gly Gly Ser Asn Phe Met Leu Thr Gln Pro His Ser Val
 130 135 140

Ser Glu Ser Pro Gly Lys Thr Val Thr Ile Ser Cys Lys Arg Asn Thr
 145 150 155 160

Gly Asn Ile Gly Ser Asn Tyr Val Asn Trp Tyr Gln Gln His Glu Gly
 165 170 175

Ser Ser Pro Thr Thr Ile Ile Tyr Arg Asn Asp Lys Arg Pro Asp Gly
 180 185 190

Val Ser Asp Arg Phe Ser Gly Ser Ile Asp Arg Ser Ser Lys Ser Ala
 195 200 205

Ser Leu Thr Ile Ser Asn Leu Lys Thr Glu Asp Glu Ala Asp Tyr Phe
 210 215 220

Cys Gln Ser Tyr Ser Ser Gly Phe Ile Phe Gly Gly Gly Thr Lys Leu
 225 230 235 240

Thr Val Leu Gly Ala Ala Ala Gly Ala Gly Gly Asp Tyr Lys Asp Asp
 245 250 255

Asp Asp Lys Gly Ala Ala Ala His His His His His His
 260 265

<210> SEQ ID NO: 249

<211> 269

<212> PRT

<213> Secuencia artificial

<220>

<223> secuencia de aminoácidos de C3E-7089

<400> 249

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

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

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

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

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

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

Cys Thr Leu Asp Gly Arg Asp Gly Trp Val Ala Tyr Trp Gly Gln Gly
 100 105 110

Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly
 115 120 125

Ser Gly Gly Gly Gly Ser Asn Phe Met Leu Thr Gln Pro His Ser Val
 130 135 140

Ser Glu Ser Pro Gly Lys Thr Val Thr Ile Ser Cys Lys Arg Asn Thr
 145 150 155 160

Gly Asn Ile Gly Ser Asn Tyr Val Asn Trp Tyr Gln Gln His Glu Gly
 165 170 175

Ser Ser Pro Thr Thr Ile Ile Tyr Arg Ser Asp Lys Arg Pro Asp Gly
 180 185 190

Val Ser Asp Arg Phe Ser Gly Ser Ile Asp Arg Ser Ser Lys Ser Ala
 195 200 205

Ser Leu Thr Ile Ser Asn Leu Lys Thr Glu Asp Glu Ala Asp Tyr Phe
 210 215 220

Cys Gln Ser Tyr Ser Ser Gly Phe Ile Phe Gly Gly Gly Thr Lys Leu
 225 230 235 240

Thr Val Leu Gly Ala Ala Ala Gly Ala Gly Gly Asp Tyr Lys Asp Asp
 245 250 255

Asp Asp Lys Gly Ala Ala Ala His His His His His His
 260 265

<210> SEQ ID NO: 250

<211> 269
 <212> PRT
 <213> Secuencia artificial
 <220>
 <223> secuencia de aminoácidos de C3E-7090
 <400> 250

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

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

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

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

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

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

Cys Thr Leu Asp Gly Arg Asp Gly Trp Val Ala Tyr Trp Gly Gln Gly
 100 105 110

Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly
 115 120 125

Ser Gly Gly Gly Gly Ser Asn Phe Met Leu Thr Gln Pro His Ser Val
 130 135 140

Ser Glu Ser Pro Gly Lys Thr Val Thr Ile Ser Cys Lys Arg Asn Thr
 145 150 155 160

Gly Asn Ile Gly Ser Asn Tyr Val Asn Trp Tyr Gln Gln His Glu Gly
165 170 175

Ser Ser Pro Thr Thr Ile Ile Tyr Arg Ala Asp Lys Arg Pro Asp Gly
180 185 190

Val Ser Asp Arg Phe Ser Gly Ser Ile Asp Arg Ser Ser Lys Ser Ala
195 200 205

Ser Leu Thr Ile Ser Asn Leu Lys Thr Glu Asp Glu Ala Asp Tyr Phe
210 215 220

Cys Gln Ser Tyr Ser Ser Gly Phe Ile Phe Gly Gly Gly Thr Lys Leu
225 230 235 240

Thr Val Leu Gly Ala Ala Ala Gly Ala Gly Gly Asp Tyr Lys Asp Asp
245 250 255

Asp Asp Lys Gly Ala Ala Ala His His His His His His
260 265

<210> SEO ID NO: 251

<211> 269

<212> PRT

<213> Secuencia artificial

 $\langle 220 \rangle$

<223> secuencia de aminoácidos de C3E-7091

<400> 251

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

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

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

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

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

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

Cys Thr Leu Asp Gly Arg Asp Gly Trp Val Ala Tyr Trp Gly Gln Gly
 100 105 110

Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly
 115 120 125

Ser Gly Gly Gly Gly Ser Asn Phe Met Leu Thr Gln Pro His Ser Val
 130 135 140

Ser Glu Ser Pro Gly Lys Thr Val Thr Ile Ser Cys Lys Arg Asn Thr
 145 150 155 160

Gly Asn Ile Gly Ser Asn Tyr Val Asn Trp Tyr Gln Gln His Glu Gly
 165 170 175

Ser Ser Pro Thr Thr Ile Ile Tyr Arg Gly Asp Lys Arg Pro Asp Gly
 180 185 190

Val Ser Asp Arg Phe Ser Gly Ser Ile Asp Arg Ser Ser Lys Ser Ala
 195 200 205

Ser Leu Thr Ile Ser Asn Leu Lys Thr Glu Asp Glu Ala Asp Tyr Phe
 210 215 220

Cys Gln Ser Tyr Ser Ser Gly Phe Ile Phe Gly Gly Gly Thr Lys Leu
 225 230 235 240

Thr Val Leu Gly Ala Ala Ala Gly Ala Gly Gly Asp Tyr Lys Asp Asp
 245 250 255

Asp Asp Lys Gly Ala Ala Ala His His His His His His
 260 265

<210> SEQ ID NO: 252

<211> 269

<212> PRT

<213> Secuencia artificial

<220>

<223> secuencia de aminoácidos de C3E-7092

<400> 252

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

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

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

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

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

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

Cys Thr Leu Asp Gly Arg Asp Gly Trp Val Ala Tyr Trp Gly Gln Gly
 100 105 110

Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly
 115 120 125

Ser Gly Gly Gly Gly Ser Asn Phe Met Leu Thr Gln Pro His Ser Val
 130 135 140

Ser Glu Ser Pro Gly Lys Thr Val Thr Ile Ser Cys Lys Arg Asn Thr
 145 150 155 160

Gly Asn Ile Gly Ser Asn Tyr Val Asn Trp Tyr Gln Gln His Glu Gly
 165 170 175

Ser Ser Pro Thr Thr Ile Ile Tyr Arg Gln Asp Lys Arg Pro Asp Gly
 180 185 190

Val Ser Asp Arg Phe Ser Gly Ser Ile Asp Arg Ser Ser Lys Ser Ala
 195 200 205

Ser Leu Thr Ile Ser Asn Leu Lys Thr Glu Asp Glu Ala Asp Tyr Phe
 210 215 220

Cys Gln Ser Tyr Ser Ser Gly Phe Ile Phe Gly Gly Gly Thr Lys Leu
 225 230 235 240

Thr Val Leu Gly Ala Ala Ala Gly Ala Gly Gly Asp Tyr Lys Asp Asp
 245 250 255

Asp Asp Lys Gly Ala Ala Ala His His His His His His
 260 265

<210> SEQ ID NO: 253

<211> 269

<212> PRT

<213> Secuencia artificial

<220>

<223> secuencia de aminoácidos de C3E-7093

<400> 253

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

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

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

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

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

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

Cys Thr Leu Asp Gly Arg Asp Gly Trp Val Ala Tyr Trp Gly Gln Gly
 100 105 110

Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly
 115 120 125

Ser Gly Gly Gly Gly Ser Asn Phe Met Leu Thr Gln Pro His Ser Val
 130 135 140

Ser Glu Ser Pro Gly Lys Thr Val Thr Ile Ser Cys Lys Arg Asn Thr
 145 150 155 160

Gly Asn Ile Gly Ser Asn Tyr Val Asn Trp Tyr Gln Gln His Glu Gly
 165 170 175

Ser Ser Pro Thr Thr Ile Ile Tyr Arg Asn Asp Lys Arg Pro Asp Gly
 180 185 190

Val Ser Asp Arg Phe Ser Gly Ser Ile Asp Arg Ser Ser Lys Ser Ala
 195 200 205

Ser Leu Thr Ile Ser Asn Leu Lys Thr Glu Asp Glu Ala Asp Tyr Phe
 210 215 220

Cys Gln Ser Tyr Ser Ser Gly Phe Ile Phe Gly Gly Gly Thr Lys Leu
 225 230 235 240

Thr Val Leu Gly Ala Ala Ala Gly Ala Gly Gly Asp Tyr Lys Asp Asp
 245 250 255

Asp Asp Lys Gly Ala Ala Ala His His His His His His
 260 265

<210> SEQ ID NO: 254

<211> 269

<212> PRT

<213> Secuencia artificial

<220>

<223> secuencia de aminoácidos de C3E-7094

<400> 254

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

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

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

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

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

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

Cys Thr Leu Asp Gly Arg Asp Gly Trp Val Ala Tyr Trp Gly Gln Gly
 100 105 110

Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly
 115 120 125

Ser Gly Gly Gly Gly Ser Asn Phe Met Leu Thr Gln Pro His Ser Val
 130 135 140

Ser Glu Ser Pro Gly Lys Thr Val Thr Ile Ser Cys Lys Arg Asn Thr
 145 150 155 160

Gly Asn Ile Gly Ser Asn Tyr Val Asn Trp Tyr Gln Gln His Glu Gly
 165 170 175

Ser Ser Pro Thr Thr Ile Ile Tyr Arg Ser Asp Lys Arg Pro Asp Gly
 180 185 190

Val Ser Asp Arg Phe Ser Gly Ser Ile Asp Arg Ser Ser Lys Ser Ala
 195 200 205

Ser Leu Thr Ile Ser Asn Leu Lys Thr Glu Asp Glu Ala Asp Tyr Phe
 210 215 220

Cys Gln Ser Tyr Ser Ser Gly Phe Ile Phe Gly Gly Gly Thr Lys Leu
 225 230 235 240

Thr Val Leu Gly Ala Ala Ala Gly Ala Gly Gly Asp Tyr Lys Asp Asp
 245 250 255

Asp Asp Lys Gly Ala Ala Ala His His His His His His
 260 265

<210> SEQ ID NO: 255

<211> 269

<212> PRT

<213> Secuencia artificial

<220>

<223> secuencia de aminoácidos de C3E-7095

<400> 255

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

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

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

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

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

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

Cys	Thr	Leu	Asp	Gly	Arg	Asp	Gly	Trp	Val	Ala	Tyr	Trp	Gly	Gln	Gly
			100					105					110		

Thr	Leu	Val	Thr	Val	Ser	Ser	Gly	Gly	Gly	Gly	Ser	Gly	Gly	Gly	Gly
		115					120					125			

Ser	Gly	Gly	Gly	Gly	Ser	Asn	Phe	Met	Leu	Thr	Gln	Pro	His	Ser	Val
	130						135					140			

Ser	Glu	Ser	Pro	Gly	Lys	Thr	Val	Thr	Ile	Ser	Cys	Lys	Arg	Asn	Thr
145					150					155					160

Gly	Asn	Ile	Gly	Ser	Asn	Tyr	Val	Asn	Trp	Tyr	Gln	Gln	His	Glu	Gly
				165					170					175	

Ser Ser Pro Thr Thr Ile Ile Tyr Arg Ala Asp Lys Arg Pro Asp Gly
 180 185 190

Val Ser Asp Arg Phe Ser Gly Ser Ile Asp Arg Ser Ser Lys Ser Ala
 195 200 205

Ser Leu Thr Ile Ser Asn Leu Lys Thr Glu Asp Glu Ala Asp Tyr Phe
 210 215 220

Cys Gln Ser Tyr Ser Ser Gly Phe Ile Phe Gly Gly Gly Thr Lys Leu
 225 230 235 240

Thr Val Leu Gly Ala Ala Ala Gly Ala Gly Gly Asp Tyr Lys Asp Asp
 245 250 255

Asp Asp Lys Gly Ala Ala Ala His His His His His His
 260 265