

<110> KITE PHARMA, INC.-----

 <120> MOLÉCULAS DE UNIÓN A GPC3-----

 <130> K-1107-WO-PCT-----

 <140> PCT/US2022/032455-----
 <141> 2022-06-07-----

 <150> 63/208.274-----
 <151> 2021-06-08-----

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 <170> PatentIn, versión 3.5-----

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Ser Val Lys Val Ser Cys Lys Thr Ser Gly Tyr Thr Phe Thr Asp Tyr -----
                20                25                30                -----
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-----
Tyr Ile His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met -----
                35                40                45                -----
-----
-----
Gly Glu Ile Tyr Pro Gly Ser Gly Asn Thr Tyr Tyr Ala Gln Lys Phe -----
                50                55                60                -----
-----
-----
Gln Gly Arg Val Thr Met Thr Ala Asp Thr Ser Thr Ser Thr Ala Tyr -----
65                70                75                80 -----
-----
-----
Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys -----
                85                90                95                -----
-----
-----
Ala Arg Gly Asn Asp Tyr Asp Ala Trp Phe Val Tyr Trp Gly Gln Gly -----
                100               105               110               -----
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Thr Leu Val Thr Val Ser Ser -----
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gcccagaagt tccaaggctg tgtgaccatg acagccgaca ccagcacctc caccgcctac 240-

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Asp Tyr Tyr Ile His -----
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Gly Tyr Thr Phe Thr Asp -----

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1           5  -----
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Ile Tyr Pro Gly Ser Gly Asn Thr -----
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Glu Ile Tyr Pro Gly Ser Gly Asn Thr Tyr Tyr Ala Gln Lys Phe Gln -----
1           5           10           15  -----
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Tyr Pro Gly Ser Gly -----

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Ala Arg Gly Asn Asp Tyr Asp Ala Trp Phe Val Tyr -----

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Gly Asn Asp Tyr Asp Ala Trp Phe Val Tyr -----
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Gly Asn Asp Tyr Asp Ala Trp Phe Val Tyr -----
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1 5 10 15 -----

Glu Arg Val Thr Met Asn Cys Lys Ser Ser Gln Ser Leu Leu Asn Ser -----

 20 25 30 -----

Gly Thr Arg Lys Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln -----

 35 40 45 -----

Pro Pro Lys Leu Leu Ile Tyr Trp Ala Ser Ile Arg Glu Ser Gly Val -----

 50 55 60 -----

Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr -----

65 70 75 80 -----

Ile Ser Ser Val Gln Ala Glu Asp Val Ala Val Tyr Tyr Cys Lys Gln -----

 85 90 95 -----

Ser Tyr Ser Leu Tyr Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys -----

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tggtaccagc agaaacccgg ccagccccct aagctgctga tctactgggc tagcattcga      180-
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gaatccggcg tgcccgatcg ctttagcggc agcggtagcg gcaccgactt tactttaacc      240-
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atcagcagcg tgcaagctga ggacgtggct gtgtactatt gcaagcagtc ctactcttta      300-
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Gln Ser Leu Leu Asn Ser Gly Thr Arg Lys Asn Tyr -----
1           5           10           -----
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Lys Ser Ser Gln Ser Leu Leu Asn Ser Gly Thr Arg Lys Asn Tyr Leu -----
1           5           10           15           -----
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Ala -----
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<210> 18-----
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1           5           10           15           -----
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Ala -----
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Trp Ala Ser Ile Arg Glu Ser -----
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Lys Gln Ser Tyr Ser Leu Tyr Thr -----

1 5 -----

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Lys Gln Ser Tyr Ser Leu Tyr Thr -----

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<400> 24-----

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Lys Gln Ser Tyr Ser Leu Tyr Thr -----
1           5           -----
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<400> 25-----
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 Thr Ser Gly Tyr Thr Phe Thr Asp Tyr -----
           20           25           30           -----
-----
-----
Tyr Ile His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met -----
           35           40           45           -----
-----
-----
Gly Glu Ile Tyr Pro Gly Ser Gly Asn Thr Tyr Tyr Ala Gln Lys Phe -----
           50           55           60           -----
-----
-----

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

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

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

Thr	Leu	Val	Thr	Val	Ser	Ser	Gly	Ser	Thr	Ser	Gly	Ser	Gly	Lys	Pro	-----
					115					120					125	-----

Gly	Ser	Gly	Glu	Gly	Ser	Thr	Lys	Gly	Asp	Ile	Val	Met	Thr	Gln	Ser	-----
					130					135					140	-----

Pro	Asp	Ser	Leu	Ala	Val	Ser	Leu	Gly	Glu	Arg	Val	Thr	Met	Asn	Cys	-----
145							150					155				160

Lys	Ser	Ser	Gln	Ser	Leu	Leu	Asn	Ser	Gly	Thr	Arg	Lys	Asn	Tyr	Leu	-----
					165					170					175	-----

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


```

180              185              190  -----
-----
-----
Trp Ala Ser Ile Arg Glu Ser Gly Val Pro Asp Arg Phe Ser Gly Ser -----
195              200              205  -----
-----
-----
Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Val Gln Ala Glu -----
210              215              220  -----
-----
-----
Asp Val Ala Val Tyr Tyr Cys Lys Gln Ser Tyr Ser Leu Tyr Thr Phe -----
225              230              235              240 -----
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Gly Gln Gly Thr Lys Leu Glu Ile Lys -----
245  -----
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-----
gccagaagt tccaaggctg tgtgaccatg acagccgaca ccagcacctc caccgcctac      240-
-----
atggaactgt cctctctgcg ttctgaggac acagccgttt actactgcgc cagaggcaac      300-
-----
gactacgacg cttggttcgt gtactggggc caaggaacat tagtgaccgt gtctccgga      360-
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tccacatccg gcagcggaaa gcccggtagc ggcgaggga gcaccaaagg agacatcgtc      420-
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atgaccaga gccccgattc tttagccgtg tctttaggcg aaagagtgc catgaactgc      480-
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aagtccagcc agtctttact gaattccggc actcgaaaaa actatttagc ttggtaccag      540-
-----
cagaaacccg gccagcccc taagctgctg atctactggg ctagcattcg agaatccggc      600-
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gtgcccgatc gctttagcgg cagcggtagc ggcaccgact ttactttaac catcagcagc      660-
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gtgcaagctg aggacgtggc tgtgtactat tgcaagcagt cctactcttt atacaccttc      720-
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<210> 27-----
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<213> Secuencia artificial-----
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<223> Descripción de secuencia artificial: Polipéptido sintético-----
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<400> 27-----

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 Asp Tyr -----
           20           25           30           -----
-----
-----

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

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

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

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

```

```

-----
Ala Arg Gly Asn Asp Tyr Asp Ala Trp Phe Val Tyr Trp Gly Gln Gly -----
      100              105              110              -----
-----
-----
Thr Leu Val Thr Val Ser Ser -----
      115              -----
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<210> 28-----
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cccggtaag gtttagagt gatgggcgag atctaccccg gcagcggcaa cacctactac      180-
-----
gccagaagt tccaaggacg tgtgaccatg actcgtgaca cctccacctc caccgtgtat      240-
-----
atggagctga gctctttaag gtccgaggat accgctgtgt actactgcgc cagaggaaac      300-
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gactacgacg cttggttcgt gtactggggc caaggaacat tagtgaccgt cagctcc      357-

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<400> 29-----
Asp Ile Val Met Thr Gln Ser Pro Asp Ser Leu Ala Val Ser Leu Gly -----
1           5           10           15           -----
-----
-----
Glu Arg Ala Thr Ile Asn Cys Lys Ser Ser Gln Ser Leu Leu Asn Ser -----
           20           25           30           -----
-----
-----
Gly Thr Arg Lys Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln -----
           35           40           45           -----
-----
-----
Pro Pro Lys Leu Leu Ile Tyr Trp Ala Ser Ile Arg Glu Ser Gly Val -----
           50           55           60           -----
-----
-----
Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr -----
65           70           75           80 -----

```

```

-----
-----
Ile Ser Ser Leu Gln Ala Glu Asp Val Ala Val Tyr Tyr Cys Lys Gln -----
                85                90                95                -----
-----
-----
Ser Tyr Ser Leu Tyr Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys -----
                100               105               110               -----
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<210> 30 -----
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atcaactgca agtcctccca gagcttatta aatagcggca ctgaaaaaa ctatttagct      120-
-----
tggtaccaac agaagcccgg ccagccccc aagctgctca tctactgggc ttccatcaga      180-
-----
gagagcggcg tgcccgatag attcagcggc agcggctccg gcacagactt cactttaacc      240-
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atctcctctt tacaagctga ggacgtggcc gtgtattact gcaagcagtc ctactcttta      300-
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tacaccttcg gccaaaggaac aaagctggag atcaaa 336-

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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 Asp Tyr -----

20 25 30 -----

Tyr Ile His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met -----

35 40 45 -----

Gly Glu Ile Tyr Pro Gly Ser Gly Asn Thr Tyr Tyr Ala Gln Lys Phe -----

50 55 60 -----

Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val Tyr -----

```

65              70              75              80  -----
-----
-----
Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys -----
              85              90              95  -----
-----
-----
Ala Arg Gly Asn Asp Tyr Asp Ala Trp Phe Val Tyr Trp Gly Gln Gly -----
              100             105             110  -----
-----
-----
Thr Leu Val Thr Val Ser Ser Gly Ser Thr Ser Gly Ser Gly Lys Pro -----
              115             120             125  -----
-----
-----
Gly Ser Gly Glu Gly Ser Thr Lys Gly Asp Ile Val Met Thr Gln Ser -----
              130             135             140  -----
-----
-----
Pro Asp Ser Leu Ala Val Ser Leu Gly Glu Arg Ala Thr Ile Asn Cys -----
145              150             155             160  -----
-----
-----
Lys Ser Ser Gln Ser Leu Leu Asn Ser Gly Thr Arg Lys Asn Tyr Leu -----
              165             170             175  -----
-----
-----
Ala Trp Tyr Gln Gln Lys Pro Gly Gln Pro Pro Lys Leu Leu Ile Tyr -----
              180             185             190  -----

```



```

-----
-----
Trp Ala Ser Ile Arg Glu Ser Gly Val Pro Asp Arg Phe Ser Gly Ser -----
      195              200              205              -----
-----
-----
Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Ala Glu -----
      210              215              220              -----
-----
-----
Asp Val Ala Val Tyr Tyr Cys Lys Gln Ser Tyr Ser Leu Tyr Thr Phe -----
225              230              235              240 -----
-----
-----
Gly Gln Gly Thr Lys Leu Glu Ile Lys -----
      245              -----
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<210> 32-----
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gcccagaagt tccaaggacg tgtgaccatg actcgtgaca cctccacctc caccgtgtat      240-
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atggagctga gctctttaag gtccgaggat accgctgtgt actactgcgc cagaggaaac      300-
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gactacgacg cttggttcgt gtactggggc caaggaacat tagtgaccgt cagctccggc      360-
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tccacaagcg gatccggcaa acccggtagc ggcaaggca gcaccaaggg cgacatcgtg      420-
-----
atgaccaga gccccgattc tttagctgtg tcttaggcg agagagccac catcaactgc      480-
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aagtctccc agagcttatt aaatagcggc actcgaaaaa actatttagc ttggtaccaa      540-
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cagaagcccg gccagcccc caagctgctc atctactggg cttccatcag agagagcggc      600-
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gtgcccgata gattcagcgg cagcggctcc ggcacagact tcactttaac catctcctct      660-
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ttacaagctg aggacgtggc cgtgtattac tgcaagcagt cctactcttt atacaccttc      720-
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Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala -----
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-----
-----
Ser Val Lys Val Ser Cys Lys Thr Ser Gly Tyr Thr Phe Thr Asp Tyr -----
           20           25           30           -----
-----
-----
Tyr Ile His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met -----
           35           40           45           -----
-----
-----
Gly Glu Ile Tyr Pro Gly Ser Gly Asn Thr Tyr Tyr Ala Gln Lys Phe -----
           50           55           60           -----
-----
-----
Gln Gly Arg Val Thr Met Thr Ala Asp Thr Ser Thr Ser Thr Ala Tyr -----
65           70           75           80           -----
-----
-----
Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys -----
           85           90           95           -----
-----
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Ala Arg Gly Asn Asp Tyr Asp Ala Trp Phe Val Tyr Trp Gly Gln Gly -----
                        100                        105                        110      -----
-----
-----
Thr Leu Val Thr Val Ser Ser -----
                        115      -----
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tcatgcaaga cctccggcta caccttcacc gactactaca tccactgggt cgcacaagct      120-
-----
cccgccaag gtctggagtg gatgggcgag atctaccccg gtcctggcaa cacctattac      180-
-----
gccagaagt tccaaggacg tgtgaccatg acagccgaca cctccaccag caccgcctac      240-
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atggaactga gcagcttacg tagcgaggac accgctgtgt actactgcgc tcgtggcaac      300-
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gactacgacg cttgggttcgt gtactggggc caaggaactc tggtgaccgt gtctctcc      357-
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<220>-----
<223> Descripción de secuencia artificial: Polipéptido sintético-----
-----
<400> 35-----
Asp Ile Val Met Thr Gln Ser Pro Asp Ser Leu Ala Val Ser Leu Gly -----
1           5           10           15           -----
-----
-----
Glu Arg Ala Thr Ile Asn Cys Lys Ser Ser Gln Ser Leu Leu Asn Ser -----
           20           25           30           -----
-----
-----
Gly Thr Arg Lys Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln -----
           35           40           45           -----
-----
-----
Pro Pro Lys Leu Leu Ile Tyr Trp Ala Ser Ile Arg Glu Ser Gly Val -----
           50           55           60           -----
-----
-----
Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr -----
65           70           75           80 -----
-----

```

```

-----
Ile Ser Ser Leu Gln Ala Glu Asp Val Ala Val Tyr Tyr Cys Lys Gln -----
                        85                        90                        95 -----
-----
-----
Ser Tyr Ser Leu Tyr Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys -----
                        100                       105                       110 -----
-----
-----
<210> 36-----
<211> 336-----
<212> ADN-----
<213> Secuencia artificial-----
-----
<220>-----
<223> Descripción de secuencia artificial: Polinucleótido sintético-----
-----
<400> 36-----
gacatcgtga tgaccagtc ccccgattct ttagccgtca gccttgaga gagagccacc      60-
-----
atcaactgca agagcagcca gagcttatta aactccggca ctcgaaaaaa ctacctcgct      120-
-----
tggtaccagc agaagcccgg tcagccccct aagctgctga tctactgggc cagcattcgt      180-
-----
gagagcggag tgcccgaacg atttagcggc tccggcagcg gcaccgattt cactttaacc      240-
-----
atcagctctt tacaagctga ggatgtggcc gtgtattact gcaagcagtc ctactcttta      300-
-----
tacaccttcg gccaaaggaac aaagctggag attaag                                336-

```

```

-----
-----
<210> 37-----
<211> 249-----
<212> PRT-----
<213> Secuencia artificial-----
-----
<220>-----
<223> Descripción de secuencia artificial: Polipéptido sintético-----
-----
<400> 37-----
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 Thr Ser Gly Tyr Thr Phe Thr Asp Tyr -----
           20           25           30           -----
-----
-----
Tyr Ile His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met -----
           35           40           45           -----
-----
-----
Gly Glu Ile Tyr Pro Gly Ser Gly Asn Thr Tyr Tyr Ala Gln Lys Phe -----
           50           55           60           -----
-----
-----
Gln Gly Arg Val Thr Met Thr Ala Asp Thr Ser Thr Ser Thr Ala Tyr -----
65           70           75           80 -----

```

```

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

```



```

-----
Trp Ala Ser Ile Arg Glu Ser Gly Val Pro Asp Arg Phe Ser Gly Ser -----
      195              200              205              -----
-----
-----
Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Ala Glu -----
      210              215              220              -----
-----
-----
Asp Val Ala Val Tyr Tyr Cys Lys Gln Ser Tyr Ser Leu Tyr Thr Phe -----
225              230              235              240 -----
-----
-----
Gly Gln Gly Thr Lys Leu Glu Ile Lys -----
      245              -----
-----
-----
<210> 38 -----
<211> 747 -----
<212> ADN -----
<213> Secuencia artificial -----
-----
<220> -----
<223> Descripción de secuencia artificial: Polinucleótido sintético -----
-----
<400> 38 -----
caagttcagc tgggtgcagag cggcgccgaa gtgaaaaagc cggcgccag cgtgaaagtc      60-
-----
tcatgcaaga cctccggcta caccttcacc gactactaca tccactgggt cgcacaagct      120-

```

```

-----
cccggccaag gtctggagtg gatgggcgag atctaccccg gctccggcaa cacctattac      180-
-----
gccagaagt tccaaggacg tgtgaccatg acagccgaca cctccaccag caccgcctac      240-
-----
atggaactga gcagcttacg tagcgaggac accgctgtgt actactgcgc tcgtggcaac      300-
-----
gactacgacg cttggttcgt gtactggggc caaggaactc tggtgaccgt gtcctccgga      360-
-----
agcacctccg gaagcggcaa gcccggtagc ggcaaggat ccaccaaggg cgacatcgtg      420-
-----
atgaccagcgt ccccgattc tttagccgtc agccttgag agagagccac catcaactgc      480-
-----
aagagcagcc agagcttatt aaactccggc actcgaaaaa actacctcgc ttggtaccag      540-
-----
cagaagcccg gtcagcccc taagctgctg atctactggg ccagcattcg tgagagcgga      600-
-----
gtgcccgcaca gatttagcgg ctccggcagc ggcaccgatt tcactttaac catcagctct      660-
-----
ttacaagctg aggatgtggc cgtgtattac tgcaagcagt cctactcttt atacaccttc      720-
-----
ggccaaggaa caaagctgga gattaag      747-
-----
-----
<210> 39-----
<211> 119-----
<212> PRT-----
<213> Secuencia artificial-----
-----

```

```

<220>-----
<223> Descripción de secuencia artificial: Polipéptido sintético-----
-----
<400> 39-----
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 Thr Ser Gly Tyr Thr Phe Thr Asp Tyr -----
           20           25           30           -----
-----
-----
Tyr Ile His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Ile -----
           35           40           45           -----
-----
-----
Gly Glu Ile Tyr Pro Gly Ser Gly Asn Thr Tyr Tyr Ala Gln Lys Phe -----
           50           55           60           -----
-----
-----
Gln Gly Arg Ala Thr Leu Thr Ala Asp Thr Ser Thr Ser Thr Ala Tyr -----
65           70           75           80           -----
-----
-----
Met Glu Phe Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys -----
           85           90           95           -----
-----
-----
Ala Arg Gly Asn Asp Tyr Asp Ala Trp Phe Val Tyr Trp Gly Gln Gly -----

```

```

100              105              110      -----
-----
-----
Thr Leu Val Thr Val Ser Ser -----
115              -----
-----
-----
<210> 40 -----
<211> 357 -----
<212> ADN -----
<213> Secuencia artificial -----
-----
<220> -----
<223> Descripción de secuencia artificial: Polinucleótido sintético -----
-----
<400> 40 -----
caagttcagc tgggtgcagag cggcgctgag gtgaagaagc cgggtgcctc cgtgaagggt      60-
-----
tcttgtaaga ccagcggcta caccttcacc gactactaca tccactgggt ccgacaagct      120-
-----
cccggtcaag gtttagagtg gattggcgag atctatcccg gcagcggcaa cacctactac      180-
-----
gcccagaagt tccaaggacg tgccacttta accgctgaca ccagcaccag caccgcctac      240-
-----
atggagttct cctctttaag gagcgaggac accgccgtgt attactgcgc tcgtggcaac      300-
-----
gactatgacg cttggttcgt gtactgggggt caaggaacat tagtgacagt gagcagc      357-
-----
-----

```

```

<210> 41-----
<211> 112-----
<212> PRT-----
<213> Secuencia artificial-----
-----
<220>-----
<223> Descripción de secuencia artificial: Polipéptido sintético-----
-----
<400> 41-----
Asp Ile Val Met Thr Gln Ser Pro Asp Ser Leu Ala Val Ser Leu Gly -----
1           5           10           15           -----
-----
-----
Glu Arg Ala Thr Ile Asn Cys Lys Ser Ser Gln Ser Leu Leu Asn Ser -----
           20           25           30           -----
-----
-----
Gly Thr Arg Lys Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln -----
           35           40           45           -----
-----
-----
Pro Pro Lys Leu Leu Ile Tyr Trp Ala Ser Ile Arg Glu Ser Gly Val -----
           50           55           60           -----
-----
-----
Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr -----
65           70           75           80 -----
-----
-----

```

```

Ile Ser Ser Leu Gln Ala Glu Asp Val Ala Val Tyr Tyr Cys Lys Gln -----
                        85                        90                        95 -----
-----
-----
Ser Tyr Ser Leu Tyr Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys -----
                        100                       105                       110 -----
-----
-----
<210> 42-----
<211> 336-----
<212> ADN-----
<213> Secuencia artificial-----
-----
<220>-----
<223> Descripción de secuencia artificial: Polinucleótido sintético-----
-----
<400> 42-----
gacatcgtga tgaccagag ccccgattct ttagctgtga gccttgaga gagggccacc      60-
-----
atcaactgca agtcctccca gtctttactg aacagcggca ctcgaaaaaa ctatttagct      120-
-----
tggtaccagc agaaaccgag ccagccccct aagctgctga tctactgggc ctccattcgt      180-
-----
gaaagcggcg tgccgatag attcagcggc agcggctccg gaaccgactt tactttaacc      240-
-----
atctcctctt tacaagctga ggacgtggct gtgtactact gcaagcagag ctactcttta      300-
-----
tacaccttcg gccaaaggaac aaagctggaa atcaag                                336-
-----

```

```

-----
<210> 43-----
<211> 249-----
<212> PRT-----
<213> Secuencia artificial-----
-----
<220>-----
<223> Descripción de secuencia artificial: Polipéptido sintético-----
-----
<400> 43-----
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 Thr Ser Gly Tyr Thr Phe Thr Asp Tyr -----
           20           25           30           -----
-----
-----
Tyr Ile His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Ile -----
           35           40           45           -----
-----
-----
Gly Glu Ile Tyr Pro Gly Ser Gly Asn Thr Tyr Tyr Ala Gln Lys Phe -----
           50           55           60           -----
-----
-----
Gln Gly Arg Ala Thr Leu Thr Ala Asp Thr Ser Thr Ser Thr Ala Tyr -----
65           70           75           80 -----
-----

```

```

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

```


Trp Ala Ser Ile Arg Glu Ser Gly Val Pro Asp Arg Phe Ser Gly Ser -----
195 200 205 -----

Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Ala Glu -----
210 215 220 -----

Asp Val Ala Val Tyr Tyr Cys Lys Gln Ser Tyr Ser Leu Tyr Thr Phe -----
225 230 235 240 -----

Gly Gln Gly Thr Lys Leu Glu Ile Lys -----
245 -----

<210> 44-----

<211> 747-----

<212> ADN-----

<213> Secuencia artificial-----

<220>-----

<223> Descripción de secuencia artificial: Polinucleótido sintético-----

<400> 44-----

caagttcagc tggtgcagag cggcgctgag gtgaagaagc ccggtgcctc cgtgaagggtg 60-

tcttgtaaga ccagcggcta caccttcacc gactactaca tccactgggt ccgacaagct 120-

```

cccgggtcaag gtttagagtg gattggcgag atctatcccg gcagcggcaa cacctactac      180-
-----
gccagaagt tccaaggacg tgccacttta accgctgaca ccagcaccag caccgcctac      240-
-----
atggagttct cctctttaag gagcgaggac accgccgtgt attactgcgc tcgtggcaac      300-
-----
gactatgacg cttggttcgt gtactggggt caaggaacat tagtgacagt gagcagcgga      360-
-----
tccaccagcg gatccggcaa gcccggtagc ggagaaggca gcaccaaggg cgacatcgtg      420-
-----
atgaccaga gccccgattc tttagctgtg agccttggag agagggccac catcaactgc      480-
-----
aagtcctccc agtctttact gaacagcggc actcgaaaaa actatttagc ttggtaccag      540-
-----
cagaaacccg gccagcccc taagctgctg atctactggg cctccattcg tgaaagcggc      600-
-----
gtgcccgata gattcagcgg cagcggctcc ggaaccgact ttactttaac catctcctct      660-
-----
ttacaagctg aggacgtggc tgtgtactac tgcaagcaga gctactcttt atacaccttc      720-
-----
ggccaaggaa caaagctgga aatcaag                                           747-
-----
-----
<210> 45-----
<211> 119-----
<212> PRT-----
<213> Secuencia artificial-----
-----
<220>-----

```

<223> Descripción de secuencia artificial: Polipéptido sintético-----

<400> 45-----

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 Thr Ser Gly Tyr Thr Phe Thr Asp Tyr -----

 20 25 30 -----

Tyr Ile His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Ile -----

 35 40 45 -----

Gly Glu Ile Tyr Pro Gly Ser Gly Asn Thr Tyr Tyr Ala Gln Lys Phe -----

 50 55 60 -----

Gln Gly Arg Ala Thr Leu Thr Ala Asp Thr Ser Thr Ser Thr Ala Tyr -----

65 70 75 80 -----

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

 85 90 95 -----

Ala Arg Gly Asn Asp Tyr Asp Ala Trp Phe Val Tyr Trp Gly Gln Gly -----

 100 105 110 -----

```

-----
-----
Thr Leu Val Thr Val Ser Ser -----
      115 -----
-----
-----
<210> 46-----
<211> 357-----
<212> ADN-----
<213> Secuencia artificial-----
-----
<220>-----
<223> Descripción de secuencia artificial: Polinucleótido sintético-----
-----
<400> 46-----
caagttcagc tgggtccagag cggcgctgaa gtgaagaagc cggcgctag cgtcaaagtc      60-
-----
tcatgcaaaa cctccggcta cacctttacc gactactaca tccactgggt ccgacaagct      120-
-----
cccggtaag gtctggagtg gatcggcgag atctaccccg gcagcggcaa cacctactac      180-
-----
gcccagaagt tccaaggacg tgccacttta accgctgaca ccagcacctc caccgcctac      240-
-----
atggagttca gctctttaag gtccgaggac accgccgtgt actactgcgc tcgtggcaac      300-
-----
gattacgacg cttggttcgt gtactgggga caaggaacat tagtgaccgt gtccagc      357-
-----
-----
<210> 47-----

```

```

<211> 112-----
<212> PRT-----
<213> Secuencia artificial-----
-----
<220>-----
<223> Descripción de secuencia artificial: Polipéptido sintético-----
-----
<400> 47-----
Asp Ile Val Met Thr Gln Ser Pro Asp Ser Leu Ala Val Ser Leu Gly -----
1           5           10           15           -----
-----
-----
Glu Arg Val Thr Met Asn Cys Lys Ser Ser Gln Ser Leu Leu Asn Ser -----
           20           25           30           -----
-----
-----
Gly Thr Arg Lys Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln -----
           35           40           45           -----
-----
-----
Pro Pro Lys Leu Leu Ile Tyr Trp Ala Ser Ile Arg Glu Ser Gly Val -----
           50           55           60           -----
-----
-----
Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr -----
65           70           75           80 -----
-----
-----
Ile Ser Ser Val Gln Ala Glu Asp Val Ala Val Tyr Tyr Cys Lys Gln -----

```

```

                        85                        90                        95      -----
-----
-----
Ser Tyr Ser Leu Tyr Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys -----
                        100                        105                        110      -----
-----
-----
<210> 48 -----
<211> 336 -----
<212> ADN -----
<213> Secuencia artificial -----
-----
<220> -----
<223> Descripción de secuencia artificial: Polinucleótido sintético -----
-----
<400> 48 -----
gatatcgtga tgaccagag ccccgattct ttagccgtgt ctttaggaga gagagtgacc      60-
-----
atgaactgca agagcagcca gtctttactg aacagcggca ccagaaagaa ctatttagct      120-
-----
tggtaccagc agaagcccgg ccagcctccc aagctgctga tctactgggc cagcattcgt      180-
-----
gagagcggag tgcccgacag attcagcggc agcggtccg gcaccgactt tactttaacc      240-
-----
atcagcagcg tgcaagctga ggatgtggcc gtgtattact gcaagcagtc ctactcttta      300-
-----
tacacctttg gccaaagAAC aaagctggag atcaaa      336-
-----
-----

```

```

<210> 49-----
<211> 249-----
<212> PRT-----
<213> Secuencia artificial-----
-----
<220>-----
<223> Descripción de secuencia artificial: Polipéptido sintético-----
-----
<400> 49-----
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 Thr Ser Gly Tyr Thr Phe Thr Asp Tyr -----
           20           25           30           -----
-----
-----
Tyr Ile His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Ile -----
           35           40           45           -----
-----
-----
Gly Glu Ile Tyr Pro Gly Ser Gly Asn Thr Tyr Tyr Ala Gln Lys Phe -----
           50           55           60           -----
-----
-----
Gln Gly Arg Ala Thr Leu Thr Ala Asp Thr Ser Thr Ser Thr Ala Tyr -----
65           70           75           80 -----
-----
-----

```

```

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

```



```

195              200              205              -----
-----
-----
Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Val Gln Ala Glu -----
210              215              220              -----
-----
-----
Asp Val Ala Val Tyr Tyr Cys Lys Gln Ser Tyr Ser Leu Tyr Thr Phe -----
225              230              235              240 -----
-----
-----
Gly Gln Gly Thr Lys Leu Glu Ile Lys -----
245              -----
-----
-----
<210> 50-----
<211> 747-----
<212> ADN-----
<213> Secuencia artificial-----
-----
<220>-----
<223> Descripción de secuencia artificial: Polinucleótido sintético-----
-----
<400> 50-----
caagttcagc tgggtccagag cggcgctgaa gtgaagaagc ccggcgctag cgtcaaagtc      60-
-----
tcatgcaaaa cctccggcta cacctttacc gactactaca tccactgggt ccgacaagct      120-
-----
cccgggtcaag gtctggagtg gatcggcgag atctaccccg gcagcggcaa cacctactac      180-

```

```

-----
gccagaagt tccaaggacg tgccacttta accgctgaca ccagcacctc caccgcctac      240-
-----
atggagttca gctctttaag gtccgaggac accgccgtgt actactgcgc tcgtggcaac      300-
-----
gattacgacg cttggttcgt gtactgggga caaggaacat tagtgaccgt gtccagcggc      360-
-----
agcacaagcg gaagcgcaa gcccggtagc ggcgaggaa gcaccaaggg cgatatcgtg      420-
-----
atgaccaga gccccgattc tttagccgtg tctttaggag agagagtgac catgaactgc      480-
-----
aagagcagcc agtctttact gaacagcggc accagaaaga actatttagc ttggtaccag      540-
-----
cagaagcccg gccagcctcc caagctgctg atctactggg ccagcattcg tgagagcgga      600-
-----
gtgcccgaca gattcagcgg cagcggtccc ggcaccgact ttactttaac catcagcagc      660-
-----
gtgcaagctg aggatgtggc cgtgtattac tgcaagcagt cctactcttt atacaccttt      720-
-----
ggccaaggaa caaagctgga gatcaaa                                           747-
-----

```

<210> 51-----

<211> 2-----

<212> PRT-----

<213> Secuencia artificial-----

<220>-----

<223> Descripción de secuencia artificial: Péptido sintético-----

```

-----
<400> 51-----
Gly Ser -----
1      -----
-----
-----
<210> 52-----
<211> 6-----
<212> ADN-----
<213> Secuencia artificial-----
-----
<220>-----
<223> Descripción de secuencia artificial: Oligonucleótido sintético-----
-----
<400> 52-----
ggatcc                                     6-
-----
-----
<210> 53-----
<211> 6-----
<212> ADN-----
<213> Secuencia artificial-----
-----
<220>-----
<223> Descripción de secuencia artificial: Oligonucleótido sintético-----
-----
<400> 53-----
gggtcc                                     6-
-----

```

<210> 54-----

<211> 3-----

<212> PRT-----

<213> Secuencia artificial-----

<220>-----

<223> Descripción de secuencia artificial: Péptido sintético-----

<400> 54-----

Gly Ser Gly -----

1 -----

<210> 55-----

<211> 9-----

<212> ADN-----

<213> Secuencia artificial-----

<220>-----

<223> Descripción de secuencia artificial: Oligonucleótido sintético-----

<400> 55-----

ggctctgga 9-

<210> 56-----

<211> 8-----

<212> PRT-----

<213> Secuencia artificial-----

<220>-----
<223> Descripción de secuencia artificial: Péptido sintético-----

<400> 56-----
Gly Gly Gly Ser Gly Gly Gly Ser -----
1 5 -----

<210> 57-----

<400> 57-----
000-----

<210> 58-----
<211> 24-----
<212> ADN-----
<213> Secuencia artificial-----

<220>-----
<223> Descripción de secuencia artificial: Oligonucleótido sintético-----

<400> 58-----
ggcgggtggaa gcggaggagg ttcc 24-

<210> 59-----

<211> 18-----

<212> PRT-----

<213> Secuencia artificial-----

<220>-----

<223> Descripción de secuencia artificial: Péptido sintético-----

<400> 59-----

Gly Ser Thr Ser Gly Ser Gly Lys Pro Gly Ser Gly Glu Gly Ser Thr -----

1 5 10 15 -----

Lys Gly -----

<210> 60-----

<211> 54-----

<212> ADN-----

<213> Secuencia artificial-----

<220>-----

<223> Descripción de secuencia artificial: Oligonucleótido sintético-----

<400> 60-----

ggatccacat ccggcagcgg aaagcccgtg agcggcgagg gcagcaccaa agga 54-

<210> 61-----

<211> 54-----

<212> ADN-----

<213> Secuencia artificial-----

<220>-----

<223> Descripción de secuencia artificial: Oligonucleótido sintético-----

<400> 61-----

ggctccacaa gcggatccgg caaaccggt agcggcgaag gcagcaccaa gggc 54-

<210> 62-----

<211> 54-----

<212> ADN-----

<213> Secuencia artificial-----

<220>-----

<223> Descripción de secuencia artificial: Oligonucleótido sintético-----

<400> 62-----

ggaagcacct ccggaagcgg caagccggt agcggcgaag gatccaccaa gggc 54-

<210> 63-----

<211> 54-----

<212> ADN-----

<213> Secuencia artificial-----

<220>-----

<223> Descripción de secuencia artificial: Oligonucleótido sintético-----

<400> 63-----

ggatccacca gcggatccgg caagcccggt agcggagaag gcagcaccaa gggc 54-

<210> 64-----

<211> 54-----

<212> ADN-----

<213> Secuencia artificial-----

<220>-----

<223> Descripción de secuencia artificial: Oligonucleótido sintético-----

<400> 64-----

ggcagcacia gcggaagcgg caagcccggt agcggcgagg gaagcaccaa gggc 54-

<210> 65-----

<211> 45-----

<212> PRT-----

<213> Secuencia artificial-----

<220>-----

<223> Descripción de secuencia artificial: Polipéptido sintético-----

<400> 65-----

Thr Thr Thr Pro Ala Pro Arg Pro Pro Thr Pro Ala Pro Thr Ile Ala -----

1 5 10 15 -----


```

-----
-----
Ser Gln Pro Leu Ser Leu Arg Pro Glu Ala Cys Arg Pro Ala Ala Gly -----
                20                25                30                -----
-----
-----
Gly Ala Val His Thr Arg Gly Leu Asp Phe Ala Cys Asp -----
                35                40                45                -----
-----
-----
<210> 66-----
<211> 135-----
<212> ADN-----
<213> Secuencia artificial-----
-----
<220>-----
<223> Descripción de secuencia artificial: Polinucleótido sintético-----
-----
<400> 66-----
accacgacgc cagcgccgcg accaccaaca ccggcgccca ccatcgcgtc gcaaccctg      60-
-----
tccttgcgcc ccgaggcgtg ccggccagcg gcggggggcg cagtgcacac gagggggctg      120-
-----
gacttcgcct gtgat      135-
-----
-----
<210> 67-----
<211> 30-----
<212> PRT-----

```

<213> Secuencia artificial-----

<220>-----
<223> Descripción de secuencia artificial: Polipéptido sintético-----

<400> 67-----
Leu Asp Asn Glu Lys Ser Asn Gly Thr Ile Ile His Val Lys Gly Lys -----
1 5 10 15 -----

His Leu Cys Pro Ser Pro Leu Phe Pro Gly Pro Ser Lys Pro -----
 20 25 30 -----

<210> 68-----
<211> 90-----
<212> ADN-----
<213> Secuencia artificial-----

<220>-----
<223> Descripción de secuencia artificial: Oligonucleótido sintético-----

<400> 68-----
ctagacaatg agaagagcaa tggaaccatt atccatgtga aagggaaca cctttgtcca 60-

agtcccctat ttcccgacc ttctaagccc 90-

<210> 69-----

```

<211> 24-----
<212> PRT-----
<213> Secuencia artificial-----
-----
<220>-----
<223> Descripción de secuencia artificial: Péptido sintético-----
-----
<400> 69-----
Ile Tyr Ile Trp Ala Pro Leu Ala Gly Thr Cys Gly Val Leu Leu Leu -----
1           5           10           15           -----
-----
-----
Ser Leu Val Ile Thr Leu Tyr Cys -----
20           -----
-----
-----
<210> 70-----
<211> 72-----
<212> ADN-----
<213> Secuencia artificial-----
-----
<220>-----
<223> Descripción de secuencia artificial: Oligonucleótido sintético-----
-----
<400> 70-----
atctacatct gggcgccctt ggccgggact tgtgggggtcc ttctcctgtc actgggtatc      60-
-----
accctttatt gc                                                                72-
-----

```

```

-----
<210> 71-----
<211> 27-----
<212> PRT-----
<213> Secuencia artificial-----
-----
<220>-----
<223> Descripción de secuencia artificial: Péptido sintético-----
-----
<400> 71-----
Phe Trp Val Leu Val Val Val Gly Gly Val Leu Ala Cys Tyr Ser Leu -----
1           5           10           15           -----
-----
-----
Leu Val Thr Val Ala Phe Ile Ile Phe Trp Val -----
          20           25           -----
-----
-----
<210> 72-----
<211> 81-----
<212> ADN-----
<213> Secuencia artificial-----
-----
<220>-----
<223> Descripción de secuencia artificial: Oligonucleótido sintético-----
-----
<400> 72-----
ttttgggtgc tgggtgggtggt tgggtggagtc ctggcttgct atagcttgct agtaacagtg      60-
-----

```

gcctttatta ttttctgggt g 81-

<210> 73-----

<211> 113-----

<212> PRT-----

<213> Secuencia artificial-----

<220>-----

<223> Descripción de secuencia artificial: Polipéptido sintético-----

<400> 73-----

Leu Arg Val Lys Phe Ser Arg Ser Ala Asp Ala Pro Ala Tyr Gln Gln -----

1 5 10 15 -----

Gly Gln Asn Gln Leu Tyr Asn Glu Leu Asn Leu Gly Arg Arg Glu Glu -----

20 25 30 -----

Tyr Asp Val Leu Asp Lys Arg Arg Gly Arg Asp Pro Glu Met Gly Gly -----

35 40 45 -----

Lys Pro Arg Arg Lys Asn Pro Gln Glu Gly Leu Tyr Asn Glu Leu Gln -----

50 55 60 -----

Lys Asp Lys Met Ala Glu Ala Tyr Ser Glu Ile Gly Met Lys Gly Glu -----

```

65              70              75              80 -----
-----
-----

Arg Arg Arg Gly Lys Gly His Asp Gly Leu Tyr Gln Gly Leu Ser Thr -----
              85              90              95 -----
-----
-----

Ala Thr Lys Asp Thr Tyr Asp Ala Leu His Met Gln Ala Leu Pro Pro -----
              100             105             110 -----
-----
-----

Arg -----
-----
-----
-----

<210> 74 -----
<211> 339 -----
<212> ADN -----
<213> Secuencia artificial -----
-----

<220> -----
<223> Descripción de secuencia artificial: Polinucleótido sintético -----
-----

<400> 74 -----

ttgagagtga agttcagcag gagcgcacac gccccgcct atcagcaagg ccagaaccag      60-
-----

ctctataacg agctcaattt agggcgaaga gaggagtacg atgttttgga caagaggcgt      120-
-----

ggccgggacc ccgaaatggg gggaaagccg agaaggaaga accctcagga aggcttgtac      180-

```

```

-----
aatgaattgc agaaggataa gatggcggag gcatacagtg agattgggat gaaaggcgag      240-
-----
cgccggaggg gcaaggggca cgatggcctt tatcagggtc tcagtacagc caccaaggac      300-
-----
acctacgacg cccttcacat gcaagccctg cccctcgc      339-
-----
-----
<210> 75-----
<211> 40-----
<212> PRT-----
<213> Secuencia artificial-----
-----
<220>-----
<223> Descripción de secuencia artificial: Polipéptido sintético-----
-----
<400> 75-----
Arg Gly Arg Lys Lys Leu Leu Tyr Ile Phe Lys Gln Pro Phe Met Arg -----
1           5           10           15           -----
-----
-----
Pro Val Gln Thr Thr Gln Glu Glu Asp Gly Cys Ser Cys Arg Phe Pro -----
           20           25           30           -----
-----
-----
Glu Glu Glu Glu Gly Gly Cys Glu -----
           35           40 -----
-----
-----

```

```

<210> 76-----
<211> 123-----
<212> ADN-----
<213> Secuencia artificial-----
-----
<220>-----
<223> Descripción de secuencia artificial: Polinucleótido sintético-----
-----
<400> 76-----
aaacggggca gaaagaaact cctgtatata ttcaaacaac catttatgag accagtacaa      60-
-----
actactcaag aggaagatgg ctgtagctgc cgatttcag aagaagaaga aggaggatgt      120-
-----
gaa                                                                    123-
-----
-----
<210> 77-----
<211> 41-----
<212> PRT-----
<213> Secuencia artificial-----
-----
<220>-----
<223> Descripción de secuencia artificial: Polipéptido sintético-----
-----
<400> 77-----
Arg Ser Lys Arg Ser Arg Leu Leu His Ser Asp Tyr Met Asn Met Thr -----
1           5           10           15 -----
-----
-----

```


Pro Arg Arg Pro Gly Pro Thr Arg Lys His Tyr Gln Pro Tyr Ala Pro -----
20 25 30 -----

Pro Arg Asp Phe Ala Ala Tyr Arg Ser -----
35 40 -----

<210> 78-----

<211> 123-----

<212> ADN-----

<213> Secuencia artificial-----

<220>-----

<223> Descripción de secuencia artificial: Polinucleótido sintético-----

<400> 78-----

aggagtaaga ggagcaggct cctgcacagt gactacatga acatgactcc cgcgcgcccc 60-

gggcccaccc gcaagcatta ccagccctat gcccaccac gcgacttcgc agcctatcgc 120-

tcc 123-

<210> 79-----

<211> 22-----

<212> PRT-----

<213> Secuencia artificial-----

<220>-----

<223> Descripción de secuencia artificial: Péptido sintético-----

<400> 79-----

Met Leu Leu Leu Val Thr Ser Leu Leu Leu Cys Glu Leu Pro His Pro -----

1 5 10 15 -----

Ala Phe Leu Leu Ile Pro -----

20 -----

<210> 80-----

<211> 19-----

<212> PRT-----

<213> Secuencia artificial-----

<220>-----

<223> Descripción de secuencia artificial: Péptido sintético-----

<400> 80-----

Met Glu Trp Thr Trp Val Phe Leu Phe Leu Leu Ser Val Thr Ala Gly -----

1 5 10 15 -----

Val His Ser -----

```

<210> 81-----
<211> 21-----
<212> PRT-----
<213> Secuencia artificial-----
-----
<220>-----
<223> Descripción de secuencia artificial: Péptido sintético-----
-----
<400> 81-----
Met Ala Leu Pro Val Thr Ala Leu Leu Leu Pro Leu Ala Leu Leu Leu -----
1           5           10          15          -----
-----
-----
His Ala Ala Arg Pro -----
20 -----
-----
-----
<210> 82-----
<211> 66-----
<212> ADN-----
<213> Secuencia artificial-----
-----
<220>-----
<223> Descripción de secuencia artificial: Oligonucleótido sintético-----
-----
<400> 82-----
atgctgttat tagtgacctc ttactgctg tgtgagctgc cccacccgc tttcctcctc      60-
-----
atcccg                                           66-

```

```

-----
-----
<210> 83-----
<211> 1422-----
<212> ADN-----
<213> Secuencia artificial-----
-----
<220>-----
<223> Descripción de secuencia artificial: Polinucleótido sintético-----
-----
<400> 83-----
caagttcagc tgggtgcagag cggcgccgaa gtgaaaaagc cggcgccag cgtgaaagtc      60-
-----
tcatgcaagg ccagcggcta taccttcacc gactactaca tccactgggt ccgacaagct      120-
-----
cccggtcaag gtttagagtg gatgggagcag atctaccccg gcagcggcaa cacctactac      180-
-----
gccagaagt tccaaggacg tgtgaccatg actcgtgaca cctccacctc caccgtgtat      240-
-----
atggagctga gctctttaag gtccgaggat accgctgtgt actactgcgc cagaggaaac      300-
-----
gactacgacg cttggttcgt gtactggggc caaggaacat tagtgaccgt cagctccggc      360-
-----
tccacaagcg gatccggcaa acccggtagc ggcaaggca gcaccaaggg cgacatcgtg      420-
-----
atgaccaga gcccgattc tttagctgtg tctttaggcg agagagccac catcaactgc      480-
-----
aagtctccc agagcttatt aaatagcggc actcgaaaaa actatttagc ttggtaccaa      540-
-----

```

cagaagcccg gccagccccc caagctgctc atctactggg cttccatcag agagagcggc 600-

gtgcccgata gattcagcgg cagcggctcc ggcacagact tcactttaac catctcctct 660-

ttacaagctg aggacgtggc cgtgtattac tgcaagcagt cctactcttt atacaccttc 720-

ggccaaggaa caaagctgga gatcaaaggg tccaccacga cgccagcgcc gcgaccacca 780-

acaccggcgc ccaccatcgc gtcgcagccc ctgtccctgc gccagaggc gtgccggcca 840-

gcggcggggg gcgcagtgca cagagggggg ctggacttcg cctgtgatat ctacatctgg 900-

gcgcccttgg ccgggacttg tggggtcctt ctctgtcac tggttatcac cctttactgc 960-

aaacggggca gaaagaaact cctgtatata ttcaacaac catttatgag accagtacaa 1020-

actactcaag aggaagatgg ctgtagctgc cgatttccag aagaagaaga aggaggatgt 1080-

gaactgagag tgaagttcag caggagcgca gacgccccg cgtaccagca gggccagaac 1140-

cagctctata acgagctcaa tctaggacga agagaggagt acgatgtttt ggacaagagg 1200-

cgtggccggg accctgagat ggggggaaag ccgagaagga agaaccctca ggaaggcctg 1260-

tacaatgaac tgcagaaaga taagatggcg gaggcctaca gtgagattgg gatgaaaggc 1320-

gagcgccgga ggggcaaggg gcacgatggc ctttaccagg gtctcagtac agccaccaag 1380-

gacacctacg acgcccttca catgcaggcc ctgccccctc gc 1422-

```

-----
-----
<210> 84 -----
<211> 474 -----
<212> PRT -----
<213> Secuencia artificial -----
-----
<220> -----
<223> Descripción de secuencia artificial: Polipéptido sintético -----
-----
<400> 84 -----
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 Thr Ser Gly Tyr Thr Phe Thr Asp Tyr -----
           20           25           30           -----
-----
-----
Tyr Ile His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met -----
           35           40           45           -----
-----
-----
Gly Glu Ile Tyr Pro Gly Ser Gly Asn Thr Tyr Tyr Ala Gln Lys Phe -----
           50           55           60           -----
-----
-----
Gln Gly Arg Val Thr Met Thr Ala Asp Thr Ser Thr Ser Thr Ala Tyr -----
65           70           75           80 -----

```

```

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

```

```

-----
Trp Ala Ser Ile Arg Glu Ser Gly Val Pro Asp Arg Phe Ser Gly Ser -----
      195              200              205              -----
-----
-----
Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Ala Glu -----
      210              215              220              -----
-----
-----
Asp Val Ala Val Tyr Tyr Cys Lys Gln Ser Tyr Ser Leu Tyr Thr Phe -----
225              230              235              240 -----
-----
-----
Gly Gln Gly Thr Lys Leu Glu Ile Lys Gly Ser Thr Thr Thr Pro Ala -----
              245              250              255              -----
-----
-----
Pro Arg Pro Pro Thr Pro Ala Pro Thr Ile Ala Ser Gln Pro Leu Ser -----
              260              265              270              -----
-----
-----
Leu Arg Pro Glu Ala Cys Arg Pro Ala Ala Gly Gly Ala Val His Thr -----
              275              280              285              -----
-----
-----
Arg Gly Leu Asp Phe Ala Cys Asp Ile Tyr Ile Trp Ala Pro Leu Ala -----
              290              295              300              -----
-----
-----

```


Gly	Thr	Cys	Gly	Val	Leu	Leu	Leu	Ser	Leu	Val	Ile	Thr	Leu	Tyr	Cys	-----
305					310					315					320	-----

Lys	Arg	Gly	Arg	Lys	Lys	Leu	Leu	Tyr	Ile	Phe	Lys	Gln	Pro	Phe	Met	-----
					325					330					335	-----

Arg	Pro	Val	Gln	Thr	Thr	Gln	Glu	Glu	Asp	Gly	Cys	Ser	Cys	Arg	Phe	-----
					340					345					350	-----

Pro	Glu	Glu	Glu	Glu	Gly	Gly	Cys	Glu	Leu	Arg	Val	Lys	Phe	Ser	Arg	-----
					355					360					365	-----

Ser	Ala	Asp	Ala	Pro	Ala	Tyr	Gln	Gln	Gly	Gln	Asn	Gln	Leu	Tyr	Asn	-----
					370					375					380	-----

Glu	Leu	Asn	Leu	Gly	Arg	Arg	Glu	Glu	Tyr	Asp	Val	Leu	Asp	Lys	Arg	-----
385					390					395					400	-----

Arg	Gly	Arg	Asp	Pro	Glu	Met	Gly	Gly	Lys	Pro	Arg	Arg	Lys	Asn	Pro	-----
					405					410					415	-----

Gln	Glu	Gly	Leu	Tyr	Asn	Glu	Leu	Gln	Lys	Asp	Lys	Met	Ala	Glu	Ala	-----

```

420              425              430  -----
-----
-----
Tyr Ser Glu Ile Gly Met Lys Gly Glu Arg Arg Arg Gly Lys Gly His -----
435              440              445  -----
-----
-----
Asp Gly Leu Tyr Gln Gly Leu Ser Thr Ala Thr Lys Asp Thr Tyr Asp -----
450              455              460  -----
-----
-----
Ala Leu His Met Gln Ala Leu Pro Pro Arg -----
465              470  -----
-----
-----
<210> 85 -----
<211> 1422 -----
<212> ADN -----
<213> Secuencia artificial -----
-----
<220> -----
<223> Descripción de secuencia artificial: Polinucleótido sintético -----
-----
<400> 85 -----
caagttcagc tgggtgcagag cggcgccgaa gtgaaaaagc ccggcgccag cgtgaaagtc      60-
-----
tcatgcaaga cctccggcta caccttcacc gactactaca tccactgggt ccgacaagct      120-
-----
cccgccaag gtctggagtg gatgggcgag atctaccccg gctccggcaa cacctattac      180-

```

```

-----
gccagaagt tccaaggacg tgtgaccatg acagccgaca cctccaccag caccgcctac      240-
-----
atggaactga gcagcttacg tagcgaggac accgctgtgt actactgcgc tcgtggcaac      300-
-----
gactacgacg cttggttcgt gtactggggc caaggaactc tggtgaccgt gtcctccgga      360-
-----
agcacctccg gaagcgcaa gcccggtagc ggcgaaggat ccaccaaggg cgacatcgtg      420-
-----
atgaccaggt ccccgattc tttagccgtc agccttggag agagagccac catcaactgc      480-
-----
aagagcagcc agagcttatt aaactccggc actcgaaaaa actacctcgc ttggtaccag      540-
-----
cagaagcccg gtcagcccc taagctgctg atctactggg ccagcattcg tgagagcgga      600-
-----
gtgcccgaca gatttagcgg ctccggcagc ggcaccgatt tcactttaac catcagctct      660-
-----
ttacaagctg aggatgtggc cgtgtattac tgcaagcagt cctactcttt atacaccttc      720-
-----
ggccaaggaa caaagctgga gattaagggg tccaccacga cgccagcgcc gcgaccacca      780-
-----
acaccggcgc ccaccatcgc gtgcagccc ctgtccctgc gccagaggc gtgccggcca      840-
-----
gcggcggggg gcgcagtgca cagaggggg ctggacttcg cctgtgatat ctacatctgg      900-
-----
gcgcccttgg ccgggacttg tggggtcctt ctctgtcac tggttatcac cctttactgc      960-
-----
aaacggggca gaaagaaact cctgtatata ttcaacaac catttatgag accagtacaa     1020-
-----

```

```

actactcaag aggaagatgg ctgtagctgc cgatttccag aagaagaaga aggaggatgt      1080-
-----
gaactgagag tgaagttcag caggagcgca gacgcccccg cgtaccagca gggccagaac      1140-
-----
cagctctata acgagctcaa tctaggacga agagaggagt acgatgtttt ggacaagagg      1200-
-----
cgtggccggg accctgagat ggggggaaaag ccgagaagga agaaccctca ggaaggcctg      1260-
-----
tacaatgaac tgcagaaaaga taagatggcg gaggcctaca gtgagattgg gatgaaaggc      1320-
-----
gagcgccgga ggggcaaggg gcacgatggc ctttaccagg gtctcagtac agccaccaag      1380-
-----
gacacctacg acgcccttca catgcaggcc ctgccccctc gc                          1422-
-----
-----
<210> 86-----
<211> 474-----
<212> PRT-----
<213> Secuencia artificial-----
-----
<220>-----
<223> Descripción de secuencia artificial: Polipéptido sintético-----
-----
<400> 86-----
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 Thr Ser Gly Tyr Thr Phe Thr Asp Tyr -----

```

20	25	30	-----

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

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

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

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

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

Thr	Leu	Val	Thr Val Ser Ser Gly Ser Thr Ser Gly Ser Gly Lys Pro -----
115	120	125	-----

Gly	Ser	Gly	Glu Gly Ser Thr Lys Gly Asp Ile Val Met Thr Gln Ser -----
130	135	140	-----

```

-----
-----
Pro Asp Ser Leu Ala Val Ser Leu Gly Glu Arg Val Thr Met Asn Cys -----
145                150                155                160 -----
-----
-----
Lys Ser Ser Gln Ser Leu Leu Asn Ser Gly Thr Arg Lys Asn Tyr Leu -----
                165                170                175 -----
-----
-----
Ala Trp Tyr Gln Gln Lys Pro Gly Gln Pro Pro Lys Leu Leu Ile Tyr -----
                180                185                190 -----
-----
-----
Trp Ala Ser Ile Arg Glu Ser Gly Val Pro Asp Arg Phe Ser Gly Ser -----
                195                200                205 -----
-----
-----
Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Val Gln Ala Glu -----
                210                215                220 -----
-----
-----
Asp Val Ala Val Tyr Tyr Cys Lys Gln Ser Tyr Ser Leu Tyr Thr Phe -----
225                230                235                240 -----
-----
-----
Gly Gln Gly Thr Lys Leu Glu Ile Lys Gly Ser Thr Thr Thr Pro Ala -----
                245                250                255 -----
-----

```

```

-----
Pro Arg Pro Pro Thr Pro Ala Pro Thr Ile Ala Ser Gln Pro Leu Ser -----
                260                265                270                -----
-----
-----
Leu Arg Pro Glu Ala Cys Arg Pro Ala Ala Gly Gly Ala Val His Thr -----
                275                280                285                -----
-----
-----
Arg Gly Leu Asp Phe Ala Cys Asp Ile Tyr Ile Trp Ala Pro Leu Ala -----
                290                295                300                -----
-----
-----
Gly Thr Cys Gly Val Leu Leu Leu Ser Leu Val Ile Thr Leu Tyr Cys -----
305                310                315                320 -----
-----
-----
Lys Arg Gly Arg Lys Lys Leu Leu Tyr Ile Phe Lys Gln Pro Phe Met -----
                325                330                335                -----
-----
-----
Arg Pro Val Gln Thr Thr Gln Glu Glu Asp Gly Cys Ser Cys Arg Phe -----
                340                345                350                -----
-----
-----
Pro Glu Glu Glu Glu Gly Gly Cys Glu Leu Arg Val Lys Phe Ser Arg -----
                355                360                365                -----
-----
-----

```

```

Ser Ala Asp Ala Pro Ala Tyr Gln Gln Gly Gln Asn Gln Leu Tyr Asn -----
      370              375              380              -----
-----
-----
Glu Leu Asn Leu Gly Arg Arg Glu Glu Tyr Asp Val Leu Asp Lys Arg -----
385              390              395              400 -----
-----
-----
Arg Gly Arg Asp Pro Glu Met Gly Gly Lys Pro Arg Arg Lys Asn Pro -----
              405              410              415 -----
-----
-----
Gln Glu Gly Leu Tyr Asn Glu Leu Gln Lys Asp Lys Met Ala Glu Ala -----
              420              425              430 -----
-----
-----
Tyr Ser Glu Ile Gly Met Lys Gly Glu Arg Arg Arg Gly Lys Gly His -----
              435              440              445 -----
-----
-----
Asp Gly Leu Tyr Gln Gly Leu Ser Thr Ala Thr Lys Asp Thr Tyr Asp -----
              450              455              460 -----
-----
-----
Ala Leu His Met Gln Ala Leu Pro Pro Arg -----
465              470 -----
-----
-----
<210> 87 -----

```


<211> 1422-----

<212> ADN-----

<213> Secuencia artificial-----

<220>-----

<223> Descripción de secuencia artificial: Polinucleótido sintético-----

<400> 87-----

caagttcagc tgggtgcagtc cggagccgag gtcaagaagc cggagccag cgtgaaagtc 60-

tcatgtaaaa ccagcggcta caccttcacc gactactaca tccactgggt ccgacaagcc 120-

cccggccaag gtttagagtg gatgggcgag atctaccccg gtcctcgcaa cacctactac 180-

gcccagaagt tccaaggctg tgtgaccatg acagccgaca ccagcacctc caccgcctac 240-

atggaactgt cctctctgcg ttctgaggac acagccgttt actactgcgc cagaggcaac 300-

gactacgacg cttgggtcgt gtactggggc caaggaacat tagtgaccgt gtcctccgga 360-

tccacatccg gcagcggaaa gcccggtagc ggcgagggca gcaccaaagg agacatcgtc 420-

atgaccaga gcccgattc tttagccgtg tctttaggcg aaagagtgc catgaactgc 480-

aagtccagcc agtctttact gaattccggc actcgaaaaa actatttagc ttggtaccag 540-

cagaaacccg gccagcccc taagctgctg atctactggg ctagcattcg agaatccggc 600-

gtgcccgatc gctttagcgg cagcggtagc ggcaccgact ttactttaac catcagcagc 660-

```

-----
gtgcaagctg aggacgtggc tgtgtactat tgcaagcagt cctactcttt atacaccttc      720-
-----
ggccaaggaa caaagctgga gatcaagggg tccaccacga cgccagcgcc gcgaccacca      780-
-----
acaccggcgc ccaccatcgc gtgcgagccc ctgtccctgc gccagaggc gtgccggcca      840-
-----
gcggcggggg gcgcagtgca cacgaggggg ctggacttcg cctgtgatat ctacatctgg      900-
-----
gcgcccttgg ccgggacttg tggggtcctt ctctgtcac tggttatcac cctttactgc      960-
-----
aaacggggca gaaagaaact cctgtatata ttcaaacaac catttatgag accagtacaa     1020-
-----
actactcaag aggaagatgg ctgtagctgc cgatttccag aagaagaaga aggaggatgt     1080-
-----
gaactgagag tgaagttcag caggagcgca gacgcccccg cgtaccagca gggccagaac     1140-
-----
cagctctata acgagctcaa tctaggacga agagaggagt acgatgtttt ggacaagagg     1200-
-----
cgtggccggg accctgagat ggggggaaaag ccgagaagga agaaccctca ggaaggcctg     1260-
-----
tacaatgaac tgcagaaaga taagatggcg gaggcctaca gtgagattgg gatgaaaggc     1320-
-----
gagcgccgga ggggcaaggg gcacgatggc ctttaccagg gtctcagtac agccaccaag     1380-
-----
gacacctacg acgcccttca catgcaggcc ctgccccctc gc                          1422-
-----
-----
<210> 88 -----

```

```

<211> 474-----
<212> PRT-----
<213> Secuencia artificial-----
-----
<220>-----
<223> Descripción de secuencia artificial: Polipéptido sintético-----
-----
<400> 88-----
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 Thr Ser Gly Tyr Thr Phe Thr Asp Tyr -----
           20           25           30           -----
-----
-----
Tyr Ile His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Ile -----
           35           40           45           -----
-----
-----
Gly Glu Ile Tyr Pro Gly Ser Gly Asn Thr Tyr Tyr Ala Gln Lys Phe -----
           50           55           60           -----
-----
-----
Gln Gly Arg Ala Thr Leu Thr Ala Asp Thr Ser Thr Ser Thr Ala Tyr -----
65           70           75           80 -----
-----
-----
Met Glu Phe Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys -----

```

	85		90		95	-----										

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

Thr	Leu	Val	Thr	Val	Ser	Ser	Gly	Ser	Thr	Ser	Gly	Ser	Gly	Lys	Pro	-----
	115						120						125			-----

Gly	Ser	Gly	Glu	Gly	Ser	Thr	Lys	Gly	Asp	Ile	Val	Met	Thr	Gln	Ser	-----
	130						135						140			-----

Pro	Asp	Ser	Leu	Ala	Val	Ser	Leu	Gly	Glu	Arg	Ala	Thr	Ile	Asn	Cys	-----
145					150					155					160	-----

Lys	Ser	Ser	Gln	Ser	Leu	Leu	Asn	Ser	Gly	Thr	Arg	Lys	Asn	Tyr	Leu	-----
			165						170					175		-----

Ala	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Gln	Pro	Pro	Lys	Leu	Leu	Ile	Tyr	-----
			180						185					190		-----

Trp	Ala	Ser	Ile	Arg	Glu	Ser	Gly	Val	Pro	Asp	Arg	Phe	Ser	Gly	Ser	-----
			195						200					205		-----

```

-----
-----
Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Ala Glu -----
      210              215              220              -----
-----
-----
Asp Val Ala Val Tyr Tyr Cys Lys Gln Ser Tyr Ser Leu Tyr Thr Phe -----
225              230              235              240 -----
-----
-----
Gly Gln Gly Thr Lys Leu Glu Ile Lys Gly Ser Thr Thr Thr Pro Ala -----
              245              250              255 -----
-----
-----
Pro Arg Pro Pro Thr Pro Ala Pro Thr Ile Ala Ser Gln Pro Leu Ser -----
              260              265              270 -----
-----
-----
Leu Arg Pro Glu Ala Cys Arg Pro Ala Ala Gly Gly Ala Val His Thr -----
              275              280              285 -----
-----
-----
Arg Gly Leu Asp Phe Ala Cys Asp Ile Tyr Ile Trp Ala Pro Leu Ala -----
      290              295              300              -----
-----
-----
Gly Thr Cys Gly Val Leu Leu Leu Ser Leu Val Ile Thr Leu Tyr Cys -----
305              310              315              320 -----
-----

```

```

-----
Lys Arg Gly Arg Lys Lys Leu Leu Tyr Ile Phe Lys Gln Pro Phe Met -----
                325                330                335 -----
-----
-----
Arg Pro Val Gln Thr Thr Gln Glu Glu Asp Gly Cys Ser Cys Arg Phe -----
                340                345                350 -----
-----
-----
Pro Glu Glu Glu Glu Gly Gly Cys Glu Leu Arg Val Lys Phe Ser Arg -----
                355                360                365 -----
-----
-----
Ser Ala Asp Ala Pro Ala Tyr Gln Gln Gly Gln Asn Gln Leu Tyr Asn -----
                370                375                380 -----
-----
-----
Glu Leu Asn Leu Gly Arg Arg Glu Glu Tyr Asp Val Leu Asp Lys Arg -----
385                390                395                400 -----
-----
-----
Arg Gly Arg Asp Pro Glu Met Gly Gly Lys Pro Arg Arg Lys Asn Pro -----
                405                410                415 -----
-----
-----
Gln Glu Gly Leu Tyr Asn Glu Leu Gln Lys Asp Lys Met Ala Glu Ala -----
                420                425                430 -----
-----
-----

```

Tyr Ser Glu Ile Gly Met Lys Gly Glu Arg Arg Arg Gly Lys Gly His -----
435 440 445 -----

Asp Gly Leu Tyr Gln Gly Leu Ser Thr Ala Thr Lys Asp Thr Tyr Asp -----
450 455 460 -----

Ala Leu His Met Gln Ala Leu Pro Pro Arg -----
465 470 -----

<210> 89-----

<211> 1422-----

<212> ADN-----

<213> Secuencia artificial-----

<220>-----

<223> Descripción de secuencia artificial: Polinucleótido sintético-----

<400> 89-----

caagttcagc tgggtgcagag cggcgctgag gtgaagaagc ccggtgcctc cgtgaaggtg 60-

tcttgaaga ccagcggcta caccttcacc gactactaca tccactgggt ccgacaagct 120-

cccgggtcaag gtttagagtg gattggcgag atctatcccg gcagcggcaa cacctactac 180-

gccagaagt tccaaggacg tgccacttta accgctgaca ccagcaccag caccgcctac 240-

atggagttct cctctttaag gagcgaggac accgccgtgt attactgcgc tcgtggcaac 300-

gactatgacg cttggttcgt gtactgggggt caaggaacat tagtgacagt gagcagcgga 360-

tccaccagcg gatccggcaa gcccggtagc ggagaaggca gcaccaaggg cgacatcgtg 420-

atgaccaga gccccgattc tttagctgtg agccttggag agagggccac catcaactgc 480-

aagtcctccc agtctttact gaacagcggc actcgaaaaa actatttagc ttggtaccag 540-

cagaaacccg gccagcccc taagctgctg atctactggg cctccattcg tgaaagcggc 600-

gtgcccgata gattcagcgg cagcggctcc ggaaccgact ttactttaac catctcctct 660-

ttacaagctg aggacgtggc tgtgtactac tgcaagcaga gctactcttt atacaccttc 720-

ggccaaggaa caaagctgga aatcaagggg tccaccacga cgccagcgcc ggcaccacca 780-

acaccggcgc ccaccatcgc gtcgcagccc ctgtccctgc gccagaggc gtgccggcca 840-

gcggcggggg gcgcagtgca cacgaggggg ctggacttcg cctgtgatat ctacatctgg 900-

gcgcccttgg ccgggacttg tggggtcctt ctctgtcac tggttatcac cctttactgc 960-

aaacggggca gaaagaaact cctgtatata ttcaacaac catttatgag accagtacaa 1020-

actactcaag aggaagatgg ctgtagctgc cgatttccag aagaagaaga aggaggatgt 1080-

gaactgagag tgaagttcag caggagcgca gacgccccg cgtaccagca gggccagaac 1140-


```

-----
cagctctata acgagctcaa tctaggacga agagaggagt acgatgtttt ggacaagagg      1200-
-----
cgtggccggg accctgagat ggggggaaag ccgagaagga agaaccctca ggaaggcctg      1260-
-----
tacaatgaac tgcagaaaga taagatggcg gaggcctaca gtgagattgg gatgaaaggc      1320-
-----
gagcgccgga ggggcaaggg gcacgatggc ctttaccagg gtctcagtac agccaccaag      1380-
-----
gacacctacg acgcccttca catgcaggcc ctgccccctc gc                          1422-
-----
-----
<210> 90-----
<211> 473-----
<212> PRT-----
<213> Secuencia artificial-----
-----
<220>-----
<223> Descripción de secuencia artificial: Polipéptido sintético-----
-----
<400> 90-----
Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala Ser -----
1           5           10           15           -----
-----
-----
Val Lys Val Ser Cys Lys Thr Ser Gly Tyr Thr Phe Thr Asp Tyr Tyr -----
                20           25           30           -----
-----
-----

```

```

Ile His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Ile Gly -----
      35              40              45              -----
-----
-----
Glu Ile Tyr Pro Gly Ser Gly Asn Thr Tyr Tyr Ala Gln Lys Phe Gln -----
      50              55              60              -----
-----
-----
Gly Arg Ala Thr Leu Thr Ala Asp Thr Ser Thr Ser Thr Ala Tyr Met -----
65              70              75              80 -----
-----
-----
Glu Phe Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys Ala -----
      85              90              95              -----
-----
-----
Arg Gly Asn Asp Tyr Asp Ala Trp Phe Val Tyr Trp Gly Gln Gly Thr -----
      100             105             110             -----
-----
-----
Leu Val Thr Val Ser Ser Gly Ser Thr Ser Gly Ser Gly Lys Pro Gly -----
      115             120             125             -----
-----
-----
Ser Gly Glu Gly Ser Thr Lys Gly Asp Ile Val Met Thr Gln Ser Pro -----
      130             135             140             -----
-----
-----
Asp Ser Leu Ala Val Ser Leu Gly Glu Arg Val Thr Met Asn Cys Lys -----

```

```

145                150                155                160 -----
-----
-----
Ser Ser Gln Ser Leu Leu Asn Ser Gly Thr Arg Lys Asn Tyr Leu Ala -----
                165                170                175 -----
-----
-----
Trp Tyr Gln Gln Lys Pro Gly Gln Pro Pro Lys Leu Leu Ile Tyr Trp -----
                180                185                190 -----
-----
-----
Ala Ser Ile Arg Glu Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Gly -----
                195                200                205 -----
-----
-----
Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Val Gln Ala Glu Asp -----
                210                215                220 -----
-----
-----
Val Ala Val Tyr Tyr Cys Lys Gln Ser Tyr Ser Leu Tyr Thr Phe Gly -----
225                230                235                240 -----
-----
-----
Gln Gly Thr Lys Leu Glu Ile Lys Gly Ser Thr Thr Thr Pro Ala Pro -----
                245                250                255 -----
-----
-----
Arg Pro Pro Thr Pro Ala Pro Thr Ile Ala Ser Gln Pro Leu Ser Leu -----
                260                265                270 -----

```

```

-----
-----
Arg Pro Glu Ala Cys Arg Pro Ala Ala Gly Gly Ala Val His Thr Arg -----
      275              280              285              -----
-----
-----
Gly Leu Asp Phe Ala Cys Asp Ile Tyr Ile Trp Ala Pro Leu Ala Gly -----
      290              295              300              -----
-----
-----
Thr Cys Gly Val Leu Leu Leu Ser Leu Val Ile Thr Leu Tyr Cys Lys -----
305              310              315              320 -----
-----
-----
Arg Gly Arg Lys Lys Leu Leu Tyr Ile Phe Lys Gln Pro Phe Met Arg -----
              325              330              335              -----
-----
-----
Pro Val Gln Thr Thr Gln Glu Glu Asp Gly Cys Ser Cys Arg Phe Pro -----
              340              345              350              -----
-----
-----
Glu Glu Glu Glu Gly Gly Cys Glu Leu Arg Val Lys Phe Ser Arg Ser -----
              355              360              365              -----
-----
-----
Ala Asp Ala Pro Ala Tyr Gln Gln Gly Gln Asn Gln Leu Tyr Asn Glu -----
              370              375              380              -----
-----

```

```

-----
Leu Asn Leu Gly Arg Arg Glu Glu Tyr Asp Val Leu Asp Lys Arg Arg -----
385                390                395                400 -----
-----
-----
Gly Arg Asp Pro Glu Met Gly Gly Lys Pro Arg Arg Lys Asn Pro Gln -----
                405                410                415 -----
-----
-----
Glu Gly Leu Tyr Asn Glu Leu Gln Lys Asp Lys Met Ala Glu Ala Tyr -----
                420                425                430 -----
-----
-----
Ser Glu Ile Gly Met Lys Gly Glu Arg Arg Arg Gly Lys Gly His Asp -----
                435                440                445 -----
-----
-----
Gly Leu Tyr Gln Gly Leu Ser Thr Ala Thr Lys Asp Thr Tyr Asp Ala -----
                450                455                460 -----
-----
-----
Leu His Met Gln Ala Leu Pro Pro Arg -----
465                470 -----
-----
-----
<210> 91 -----
<211> 1422 -----
<212> ADN -----
<213> Secuencia artificial -----

```

```

-----
<220>-----
<223> Descripción de secuencia artificial: Polinucleótido sintético-----
-----
<400> 91-----
caagttcagc tgggtccagag cggcgctgaa gtgaagaagc cggcgctag cgtcaaagtc      60-
-----
tcatgcaaaa cctccggcta cacctttacc gactactaca tccactgggt ccgacaagct      120-
-----
cccggtcaag gtctggagtg gatcggcgag atctaccccg gcagcggcaa cacctactac      180-
-----
gccagaagt tccaaggacg tgccacttta accgctgaca ccagcacctc caccgcctac      240-
-----
atggagttca gctctttaag gtccgaggac accgccgtgt actactgcgc tcgtggcaac      300-
-----
gattacgacg cttggttcgt gtactgggga caaggaacat tagtgaccgt gtccagcggc      360-
-----
agcacaagcg gaagcggcaa gcccggtagc ggcgaggga gcaccaaggg cgatatcgtg      420-
-----
atgaccagga gccccgattc tttagccgtg tctttaggag agagagtgc catgaactgc      480-
-----
aagagcagcc agtctttact gaacagcggc accagaaaga actatttagc ttggtaccag      540-
-----
cagaagcccg gccagcctcc caagctgctg atctactggg ccagcattcg tgagagcgga      600-
-----
gtgccccgaca gattcagcgg cagcggctcc ggcaccgact ttactttaac catcagcagc      660-
-----
gtgcaagctg aggatgtggc cgtgtattac tgcaagcagt cctactcttt atacaccttt      720-
-----

```

```

ggccaaggaa caaagctgga gatcaaaggg tccaccacga cgccagcgcc gcgaccacca      780-
-----
acaccggcgc ccaccatcgc gtcgcagccc ctgtccctgc gccagaggc gtgccggcca      840-
-----
ggggcggggg ggcagtgca cagaggggg ctggacttcg cctgtgatat ctacatctgg      900-
-----
gcgcccttgg ccgggacttg tggggtcctt ctctgtcac tggttatcac cctttactgc      960-
-----
aaacggggca gaaagaaact cctgtatata ttcaaacaac catttatgag accagtacaa     1020-
-----
actactcaag aggaagatgg ctgtagctgc cgatttccag aagaagaaga aggaggatgt     1080-
-----
gaactgagag tgaagttcag caggagcgca gacgcccccg cgtaccagca gggccagaac     1140-
-----
cagctctata acgagctcaa tctaggacga agagaggagt acgatgtttt ggacaagagg     1200-
-----
cgtggccggg accctgagat ggggggaaag ccgagaagga agaaccctca ggaaggcctg     1260-
-----
tacaatgaac tgcagaaaga taagatggcg gaggcctaca gtgagattgg gatgaaaggc     1320-
-----
gagcgccgga ggggcaaggg gcacgatggc ctttaccagg gtctcagtac agccaccaag     1380-
-----
gacacctacg acgcccttca catgcaggcc ctgccccctc gc                        1422-
-----
-----
<210> 92-----
<211> 33-----
<212> PRT-----
<213> Secuencia artificial-----

```

```

-----
<220>-----
<223> Descripción de secuencia artificial: Polipéptido sintético-----
-----
<400> 92-----
Met Glu Ala Ala Val Ala Ala Pro Arg Pro Arg Leu Leu Leu Leu Val -----
1           5           10           15           -----
-----
-----
Leu Ala Ala Ala Ala Ala Ala Ala Ala Ala Leu Leu Pro Gly Ala Thr -----
           20           25           30           -----
-----
-----
Ala -----
-----
-----
-----
<210> 93-----
<211> 126-----
<212> PRT-----
<213> Secuencia artificial-----
-----
-----
<220>-----
<223> Descripción de secuencia artificial: Polipéptido sintético-----
-----
-----
<400> 93-----
Met Glu Ala Ala Val Ala Ala Pro Arg Pro Arg Leu Leu Leu Leu Val -----
1           5           10           15           -----
-----

```



```

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

```

<210> 94-----

<211> 22-----

<212> PRT-----

<213> Secuencia artificial-----

<220>-----

<223> Descripción de secuencia artificial: Péptido sintético-----

<400> 94-----

Met Gly Arg Gly Leu Leu Arg Gly Leu Trp Pro Leu His Ile Val Leu -----

1 5 10 15 -----

Trp Thr Arg Ile Ala Ser -----

 20 -----

<210> 95-----

<211> 32-----

<212> PRT-----

<213> Secuencia artificial-----

<220>-----

<223> Descripción de secuencia artificial: Polipéptido sintético-----

<400> 95-----

Met Leu Leu Leu Val Thr Ser Leu Leu Leu Cys Glu Leu Pro His Pro -----

1 5 10 15 -----

```

-----
Ala Phe Leu Leu Ile Pro Glu Gln Lys Leu Ile Ser Glu Glu Asp Leu -----
                20                25                30                -----
-----
-----
<210> 96-----
<211> 96-----
<212> ADN-----
<213> Secuencia artificial-----
-----
<220>-----
<223> Descripción de secuencia artificial: Oligonucleótido sintético-----
-----
<400> 96-----
atgcttctcc tggtgacaag ccttctgctc tgtgagttac cacacccagc attcctcctg      60-
-----
attcctgaac agaagctgat aagtgaggag gacttg                                96-
-----
-----
<210> 97-----
<211> 152-----
<212> PRT-----
<213> Secuencia artificial-----
-----
<220>-----
<223> Descripción de secuencia artificial: Polipéptido sintético-----
-----
<400> 97-----
Met Glu Ala Ala Val Ala Ala Pro Arg Pro Arg Leu Leu Leu Leu Val -----

```

```

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

```

```

-----
-----
Val Ile Ala Gly Pro Val Cys Phe Val Cys Ile Ser Leu Met Leu Met -----
      130              135              140              -----
-----
-----
Val Tyr Ile Arg Val Asn Arg Gln -----
145              150              -----
-----
-----
<210> 98-----
<211> 194-----
<212> PRT-----
<213> Secuencia artificial-----
-----
<220>-----
<223> Descripción de secuencia artificial: Polipéptido sintético-----
-----
<400> 98-----
Met Gly Arg Gly Leu Leu Arg Gly Leu Trp Pro Leu His Ile Val Leu -----
1              5              10              15              -----
-----
-----
Trp Thr Arg Ile Ala Ser Thr Ile Pro Pro His Val Gln Lys Ser Val -----
      20              25              30              -----
-----
-----
Asn Asn Asp Met Ile Val Thr Asp Asn Asn Gly Ala Val Lys Phe Pro -----
      35              40              45              -----

```

```

-----
-----
Gln Leu Cys Lys Phe Cys Asp Val Arg Phe Ser Thr Cys Asp Asn Gln -----
      50              55              60              -----
-----
-----
Lys Ser Cys Met Ser Asn Cys Ser Ile Thr Ser Ile Cys Glu Lys Pro -----
65              70              75              80 -----
-----
-----
Gln Glu Val Cys Val Ala Val Trp Arg Lys Asn Asp Glu Asn Ile Thr -----
              85              90              95 -----
-----
-----
Leu Glu Thr Val Cys His Asp Pro Lys Leu Pro Tyr His Asp Phe Ile -----
              100             105             110 -----
-----
-----
Leu Glu Asp Ala Ala Ser Pro Lys Cys Ile Met Lys Glu Lys Lys Lys -----
              115             120             125 -----
-----
-----
Pro Gly Glu Thr Phe Phe Met Cys Ser Cys Ser Ser Asp Glu Cys Asn -----
              130             135             140 -----
-----
-----
Asp Asn Ile Ile Phe Ser Glu Glu Tyr Asn Thr Ser Asn Pro Asp Leu -----
145              150             155             160 -----
-----

```

```

-----
Leu Leu Val Ile Phe Gln Val Thr Gly Ile Ser Leu Leu Pro Pro Leu -----
                165                170                175 -----
-----
-----
Gly Val Ala Ile Ser Val Ile Ile Ile Phe Tyr Cys Tyr Arg Val Asn -----
                180                185                190 -----
-----
-----
Arg Gln -----
-----
-----
-----
<210> 99-----
<211> 137-----
<212> PRT-----
<213> Secuencia artificial-----
-----
<220>-----
<223> Descripción de secuencia artificial: Polipéptido sintético-----
-----
<400> 99-----
Thr Ile Pro Pro His Val Gln Lys Ser Val Asn Asn Asp Met Ile Val -----
1                5                10                15 -----
-----
-----
Thr Asp Asn Asn Gly Ala Val Lys Phe Pro Gln Leu Cys Lys Phe Cys -----
                20                25                30 -----
-----

```

```

-----
Asp Val Arg Phe Ser Thr Cys Asp Asn Gln Lys Ser Cys Met Ser Asn -----
      35              40              45              -----
-----
-----
Cys Ser Ile Thr Ser Ile Cys Glu Lys Pro Gln Glu Val Cys Val Ala -----
      50              55              60              -----
-----
-----
Val Trp Arg Lys Asn Asp Glu Asn Ile Thr Leu Glu Thr Val Cys His -----
65              70              75              80 -----
-----
-----
Asp Pro Lys Leu Pro Tyr His Asp Phe Ile Leu Glu Asp Ala Ala Ser -----
              85              90              95              -----
-----
-----
Pro Lys Cys Ile Met Lys Glu Lys Lys Lys Pro Gly Glu Thr Phe Phe -----
              100             105             110             -----
-----
-----
Met Cys Ser Cys Ser Ser Asp Glu Cys Asn Asp Asn Ile Ile Phe Ser -----
              115             120             125             -----
-----
-----
Glu Glu Tyr Asn Thr Ser Asn Pro Asp -----
              130             135             -----
-----
-----

```



```

<210> 100-----
<211> 167-----
<212> PRT-----
<213> Secuencia artificial-----
-----
<220>-----
<223> Descripción de secuencia artificial: Polipéptido sintético-----
-----
<400> 100-----
Thr Ile Pro Pro His Val Gln Lys Ser Val Asn Asn Asp Met Ile Val -----
1           5           10           15           -----
-----
-----
Thr Asp Asn Asn Gly Ala Val Lys Phe Pro Gln Leu Cys Lys Phe Cys -----
           20           25           30           -----
-----
-----
Asp Val Arg Phe Ser Thr Cys Asp Asn Gln Lys Ser Cys Met Ser Asn -----
           35           40           45           -----
-----
-----
Cys Ser Ile Thr Ser Ile Cys Glu Lys Pro Gln Glu Val Cys Val Ala -----
           50           55           60           -----
-----
-----
Val Trp Arg Lys Asn Asp Glu Asn Ile Thr Leu Glu Thr Val Cys His -----
           65           70           75           80 -----
-----
-----

```

```

Asp Pro Lys Leu Pro Tyr His Asp Phe Ile Leu Glu Asp Ala Ala Ser -----
                        85                        90                        95 -----
-----
-----
Pro Lys Cys Ile Met Lys Glu Lys Lys Lys Pro Gly Glu Thr Phe Phe -----
                        100                       105                       110 -----
-----
-----
Met Cys Ser Cys Ser Ser Asp Glu Cys Asn Asp Asn Ile Ile Phe Ser -----
                        115                       120                       125 -----
-----
-----
Glu Glu Tyr Asn Thr Ser Asn Pro Asp Leu Leu Leu Val Ile Phe Gln -----
                        130                       135                       140 -----
-----
-----
Val Thr Gly Ile Ser Leu Leu Pro Pro Leu Gly Val Ala Ile Ser Val -----
145                        150                        155                        160 -----
-----
-----
Ile Ile Ile Phe Tyr Cys Tyr -----
                        165 -----
-----
-----
<210> 101-----
<211> 159-----
<212> PRT-----
<213> Secuencia artificial-----
-----

```

```

<220>-----
<223> Descripción de secuencia artificial: Polipéptido sintético-----
-----
<400> 101-----
Thr Ile Pro Pro His Val Gln Lys Ser Val Asn Asn Asp Met Ile Val -----
1           5           10           15           -----
-----
-----
Thr Asp Asn Asn Gly Ala Val Lys Phe Pro Gln Leu Cys Lys Phe Cys -----
          20           25           30           -----
-----
-----
Asp Val Arg Phe Ser Thr Cys Asp Asn Gln Lys Ser Cys Met Ser Asn -----
          35           40           45           -----
-----
-----
Cys Ser Ile Thr Ser Ile Cys Glu Lys Pro Gln Glu Val Cys Val Ala -----
          50           55           60           -----
-----
-----
Val Trp Arg Lys Asn Asp Glu Asn Ile Thr Leu Glu Thr Val Cys His -----
65           70           75           80           -----
-----
-----
Asp Pro Lys Leu Pro Tyr His Asp Phe Ile Leu Glu Asp Ala Ala Ser -----
          85           90           95           -----
-----
-----
Pro Lys Cys Ile Met Lys Glu Lys Lys Lys Pro Gly Glu Thr Phe Phe -----

```

```

                100                105                110                -----
-----
-----
Met Cys Ser Cys Ser Ser Asp Glu Cys Asn Asp Asn Ile Ile Phe Ser -----
                115                120                125                -----
-----
-----
Glu Glu Tyr Asn Thr Ser Asn Pro Asp Ser Gly Pro Ile Leu Leu Thr -----
                130                135                140                -----
-----
-----
Ile Ser Ile Leu Ser Phe Phe Ser Val Ala Leu Leu Val Ile Leu -----
145                150                155                -----
-----
-----
<210> 102-----
<211> 162-----
<212> PRT-----
<213> Secuencia artificial-----
-----
<220>-----
<223> Descripción de secuencia artificial: Polipéptido sintético-----
-----
<400> 102-----
Thr Ile Pro Pro His Val Gln Lys Ser Val Asn Asn Asp Met Ile Val -----
1                5                10                15                -----
-----
-----
Thr Asp Asn Asn Gly Ala Val Lys Phe Pro Gln Leu Cys Lys Phe Cys -----

```

20	25	30	-----

Asp Val Arg Phe Ser Thr Cys Asp Asn Gln Lys Ser Cys Met Ser Asn	-----		
35	40	45	-----

Cys Ser Ile Thr Ser Ile Cys Glu Lys Pro Gln Glu Val Cys Val Ala	-----		
50	55	60	-----

Val Trp Arg Lys Asn Asp Glu Asn Ile Thr Leu Glu Thr Val Cys His	-----		
65	70	75	80 -----

Asp Pro Lys Leu Pro Tyr His Asp Phe Ile Leu Glu Asp Ala Ala Ser	-----		
85	90	95	-----

Pro Lys Cys Ile Met Lys Glu Lys Lys Lys Pro Gly Glu Thr Phe Phe	-----		
100	105	110	-----

Met Cys Ser Cys Ser Ser Asp Glu Cys Asn Asp Asn Ile Ile Phe Ser	-----		
115	120	125	-----

Glu Glu Tyr Asn Thr Ser Asn Pro Asp Ser Gly Pro Ile Leu Leu Thr	-----		
130	135	140	-----

```

-----
-----
Cys Pro Thr Ile Ser Ile Leu Ser Phe Phe Ser Val Ala Leu Leu Val -----
145                150                155                160 -----
-----
-----
Ile Leu -----
-----
-----
<210> 103-----
<211> 200-----
<212> PRT-----
<213> Secuencia artificial-----
-----
<220>-----
<223> Descripción de secuencia artificial: Polipéptido sintético-----
-----
<400> 103-----
Ala Cys Val Leu Trp Lys Lys Arg Ile Lys Pro Ile Val Trp Pro Ser -----
1                5                10                15                -----
-----
-----
Leu Pro Asp His Lys Lys Thr Leu Glu His Leu Cys Lys Lys Pro Arg -----
                20                25                30                -----
-----
-----
Lys Asn Leu Asn Val Ser Phe Asn Pro Glu Ser Phe Leu Asp Cys Gln -----
                35                40                45                -----

```

```

-----
-----
Ile His Arg Val Asp Asp Ile Gln Ala Arg Asp Glu Val Glu Gly Phe -----
      50              55              60              -----
-----
-----
Leu Gln Asp Thr Phe Pro Gln Gln Leu Glu Glu Ser Glu Lys Gln Arg -----
65              70              75              80 -----
-----
-----
Leu Gly Gly Asp Val Gln Ser Pro Asn Cys Pro Ser Glu Asp Val Val -----
              85              90              95 -----
-----
-----
Ile Thr Pro Glu Ser Phe Gly Arg Asp Ser Ser Leu Thr Cys Leu Ala -----
              100             105             110 -----
-----
-----
Gly Asn Val Ser Ala Cys Asp Ala Pro Ile Leu Ser Ser Ser Arg Ser -----
              115             120             125 -----
-----
-----
Leu Asp Cys Arg Glu Ser Gly Lys Asn Gly Pro His Val Tyr Gln Asp -----
              130             135             140 -----
-----
-----
Leu Leu Leu Ser Leu Gly Thr Thr Asn Ser Thr Leu Pro Pro Pro Phe -----
145              150              155              160 -----
-----
-----

```

```

-----
Ser Leu Gln Ser Gly Ile Leu Thr Leu Asn Pro Val Ala Gln Gly Gln -----
                165                170                175 -----
-----
-----
Pro Ile Leu Thr Ser Leu Gly Ser Asn Gln Glu Glu Ala Tyr Val Thr -----
                180                185                190 -----
-----
-----
Met Ser Ser Phe Tyr Gln Asn Gln -----
                195                200 -----
-----
-----
<210> 104-----
<211> 359-----
<212> PRT-----
<213> Secuencia artificial-----
-----
<220>-----
<223> Descripción de secuencia artificial: Polipéptido sintético-----
-----
<400> 104-----
Thr Ile Pro Pro His Val Gln Lys Ser Val Asn Asn Asp Met Ile Val -----
1                5                10                15 -----
-----
-----
Thr Asp Asn Asn Gly Ala Val Lys Phe Pro Gln Leu Cys Lys Phe Cys -----
                20                25                30 -----
-----

```



```

-----
Asp Val Arg Phe Ser Thr Cys Asp Asn Gln Lys Ser Cys Met Ser Asn -----
      35              40              45              -----
-----
-----
Cys Ser Ile Thr Ser Ile Cys Glu Lys Pro Gln Glu Val Cys Val Ala -----
      50              55              60              -----
-----
-----
Val Trp Arg Lys Asn Asp Glu Asn Ile Thr Leu Glu Thr Val Cys His -----
65              70              75              80 -----
-----
-----
Asp Pro Lys Leu Pro Tyr His Asp Phe Ile Leu Glu Asp Ala Ala Ser -----
              85              90              95              -----
-----
-----
Pro Lys Cys Ile Met Lys Glu Lys Lys Lys Pro Gly Glu Thr Phe Phe -----
              100             105             110             -----
-----
-----
Met Cys Ser Cys Ser Ser Asp Glu Cys Asn Asp Asn Ile Ile Phe Ser -----
              115             120             125             -----
-----
-----
Glu Glu Tyr Asn Thr Ser Asn Pro Asp Ser Gly Pro Ile Leu Leu Thr -----
              130             135             140             -----
-----
-----

```

```

Ile Ser Ile Leu Ser Phe Phe Ser Val Ala Leu Leu Val Ile Leu Ala -----
145                      150                      155                      160 -----
-----
-----
Cys Val Leu Trp Lys Lys Arg Ile Lys Pro Ile Val Trp Pro Ser Leu -----
                      165                      170                      175 -----
-----
-----
Pro Asp His Lys Lys Thr Leu Glu His Leu Cys Lys Lys Pro Arg Lys -----
                      180                      185                      190 -----
-----
-----
Asn Leu Asn Val Ser Phe Asn Pro Glu Ser Phe Leu Asp Cys Gln Ile -----
                      195                      200                      205 -----
-----
-----
His Arg Val Asp Asp Ile Gln Ala Arg Asp Glu Val Glu Gly Phe Leu -----
                      210                      215                      220 -----
-----
-----
Gln Asp Thr Phe Pro Gln Gln Leu Glu Glu Ser Glu Lys Gln Arg Leu -----
225                      230                      235                      240 -----
-----
-----
Gly Gly Asp Val Gln Ser Pro Asn Cys Pro Ser Glu Asp Val Val Ile -----
                      245                      250                      255 -----
-----
-----
Thr Pro Glu Ser Phe Gly Arg Asp Ser Ser Leu Thr Cys Leu Ala Gly -----

```

```

                260                265                270                -----
-----
-----
Asn Val Ser Ala Cys Asp Ala Pro Ile Leu Ser Ser Ser Arg Ser Leu -----
                275                280                285                -----
-----
-----
Asp Cys Arg Glu Ser Gly Lys Asn Gly Pro His Val Tyr Gln Asp Leu -----
                290                295                300                -----
-----
-----
Leu Leu Ser Leu Gly Thr Thr Asn Ser Thr Leu Pro Pro Pro Phe Ser -----
305                310                315                320 -----
-----
-----
Leu Gln Ser Gly Ile Leu Thr Leu Asn Pro Val Ala Gln Gly Gln Pro -----
                325                330                335                -----
-----
-----
Ile Leu Thr Ser Leu Gly Ser Asn Gln Glu Glu Ala Tyr Val Thr Met -----
                340                345                350                -----
-----
-----
Ser Ser Phe Tyr Gln Asn Gln -----
                355                -----
-----
-----
<210> 105-----
<211> 362-----

```

```

<212> PRT-----
<213> Secuencia artificial-----
-----
<220>-----
<223> Descripción de secuencia artificial: Polipéptido sintético-----
-----
<400> 105-----
Thr Ile Pro Pro His Val Gln Lys Ser Val Asn Asn Asp Met Ile Val -----
1           5           10           15           -----
-----
-----
Thr Asp Asn Asn Gly Ala Val Lys Phe Pro Gln Leu Cys Lys Phe Cys -----
           20           25           30           -----
-----
-----
Asp Val Arg Phe Ser Thr Cys Asp Asn Gln Lys Ser Cys Met Ser Asn -----
           35           40           45           -----
-----
-----
Cys Ser Ile Thr Ser Ile Cys Glu Lys Pro Gln Glu Val Cys Val Ala -----
           50           55           60           -----
-----
-----
Val Trp Arg Lys Asn Asp Glu Asn Ile Thr Leu Glu Thr Val Cys His -----
65           70           75           80           -----
-----
-----
Asp Pro Lys Leu Pro Tyr His Asp Phe Ile Leu Glu Asp Ala Ala Ser -----
           85           90           95           -----

```

```

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

```

```

-----
Cys Gln Ile His Arg Val Asp Asp Ile Gln Ala Arg Asp Glu Val Glu -----
      210              215              220              -----
-----
-----
Gly Phe Leu Gln Asp Thr Phe Pro Gln Gln Leu Glu Glu Ser Glu Lys -----
225              230              235              240 -----
-----
-----
Gln Arg Leu Gly Gly Asp Val Gln Ser Pro Asn Cys Pro Ser Glu Asp -----
              245              250              255 -----
-----
-----
Val Val Ile Thr Pro Glu Ser Phe Gly Arg Asp Ser Ser Leu Thr Cys -----
              260              265              270 -----
-----
-----
Leu Ala Gly Asn Val Ser Ala Cys Asp Ala Pro Ile Leu Ser Ser Ser -----
              275              280              285 -----
-----
-----
Arg Ser Leu Asp Cys Arg Glu Ser Gly Lys Asn Gly Pro His Val Tyr -----
              290              295              300 -----
-----
-----
Gln Asp Leu Leu Leu Ser Leu Gly Thr Thr Asn Ser Thr Leu Pro Pro -----
305              310              315              320 -----
-----
-----

```

```

Pro Phe Ser Leu Gln Ser Gly Ile Leu Thr Leu Asn Pro Val Ala Gln -----
                        325                        330                        335 -----
-----
-----
Gly Gln Pro Ile Leu Thr Ser Leu Gly Ser Asn Gln Glu Glu Ala Tyr -----
                        340                        345                        350 -----
-----
-----
Val Thr Met Ser Ser Phe Tyr Gln Asn Gln -----
                        355                        360 -----
-----
-----
<210> 106-----
<211> 159-----
<212> PRT-----
<213> Secuencia artificial-----
-----
<220>-----
<223> Descripción de secuencia artificial: Polipéptido sintético-----
-----
<400> 106-----
Met Leu Leu Leu Val Thr Ser Leu Leu Leu Cys Glu Leu Pro His Pro -----
1           5           10           15 -----
-----
-----
Ala Phe Leu Leu Ile Pro Thr Ile Pro Pro His Val Gln Lys Ser Val -----
                        20           25           30 -----
-----
-----

```

```

Asn Asn Asp Met Ile Val Thr Asp Asn Asn Gly Ala Val Lys Phe Pro -----
      35              40              45              -----
-----
-----
Gln Leu Cys Lys Phe Cys Asp Val Arg Phe Ser Thr Cys Asp Asn Gln -----
      50              55              60              -----
-----
-----
Lys Ser Cys Met Ser Asn Cys Ser Ile Thr Ser Ile Cys Glu Lys Pro -----
65              70              75              80 -----
-----
-----
Gln Glu Val Cys Val Ala Val Trp Arg Lys Asn Asp Glu Asn Ile Thr -----
      85              90              95              -----
-----
-----
Leu Glu Thr Val Cys His Asp Pro Lys Leu Pro Tyr His Asp Phe Ile -----
      100             105             110             -----
-----
-----
Leu Glu Asp Ala Ala Ser Pro Lys Cys Ile Met Lys Glu Lys Lys Lys -----
      115             120             125             -----
-----
-----
Pro Gly Glu Thr Phe Phe Met Cys Ser Cys Ser Ser Asp Glu Cys Asn -----
      130             135             140             -----
-----
-----
Asp Asn Ile Ile Phe Ser Glu Glu Tyr Asn Thr Ser Asn Pro Asp -----

```



```

145                      150                      155                      -----
-----
-----
-----
<210> 107-----
<211> 169-----
<212> PRT-----
<213> Secuencia artificial-----
-----
<220>-----
<223> Descripción de secuencia artificial: Polipéptido sintético-----
-----
<400> 107-----
Met Leu Leu Leu Val Thr Ser Leu Leu Leu Cys Glu Leu Pro His Pro -----
1           5           10           15           -----
-----
-----
Ala Phe Leu Leu Ile Pro Glu Gln Lys Leu Ile Ser Glu Glu Asp Leu -----
           20           25           30           -----
-----
-----
Thr Ile Pro Pro His Val Gln Lys Ser Val Asn Asn Asp Met Ile Val -----
           35           40           45           -----
-----
-----
Thr Asp Asn Asn Gly Ala Val Lys Phe Pro Gln Leu Cys Lys Phe Cys -----
           50           55           60           -----
-----
-----
Asp Val Arg Phe Ser Thr Cys Asp Asn Gln Lys Ser Cys Met Ser Asn -----

```

```

65              70              75              80 -----
-----
-----
Cys Ser Ile Thr Ser Ile Cys Glu Lys Pro Gln Glu Val Cys Val Ala -----
              85              90              95 -----
-----
-----
Val Trp Arg Lys Asn Asp Glu Asn Ile Thr Leu Glu Thr Val Cys His -----
              100             105             110 -----
-----
-----
Asp Pro Lys Leu Pro Tyr His Asp Phe Ile Leu Glu Asp Ala Ala Ser -----
              115             120             125 -----
-----
-----
Pro Lys Cys Ile Met Lys Glu Lys Lys Lys Pro Gly Glu Thr Phe Phe -----
              130             135             140 -----
-----
-----
Met Cys Ser Cys Ser Ser Asp Glu Cys Asn Asp Asn Ile Ile Phe Ser -----
145              150              155              160 -----
-----
-----
Glu Glu Tyr Asn Thr Ser Asn Pro Asp -----
              165 -----
-----
-----
<210> 108-----
<211> 381-----

```

```

<212> PRT-----
<213> Secuencia artificial-----
-----
<220>-----
<223> Descripción de secuencia artificial: Polipéptido sintético-----
-----
<400> 108-----
Met Leu Leu Leu Val Thr Ser Leu Leu Leu Cys Glu Leu Pro His Pro -----
1           5           10           15           -----
-----
-----
Ala Phe Leu Leu Ile Pro Thr Ile Pro Pro His Val Gln Lys Ser Val -----
          20           25           30           -----
-----
-----
Asn Asn Asp Met Ile Val Thr Asp Asn Asn Gly Ala Val Lys Phe Pro -----
          35           40           45           -----
-----
-----
Gln Leu Cys Lys Phe Cys Asp Val Arg Phe Ser Thr Cys Asp Asn Gln -----
          50           55           60           -----
-----
-----
Lys Ser Cys Met Ser Asn Cys Ser Ile Thr Ser Ile Cys Glu Lys Pro -----
65           70           75           80           -----
-----
-----
Gln Glu Val Cys Val Ala Val Trp Arg Lys Asn Asp Glu Asn Ile Thr -----
          85           90           95           -----

```

```

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

```

```

-----
Cys Lys Lys Pro Arg Lys Asn Leu Asn Val Ser Phe Asn Pro Glu Ser -----
      210              215              220              -----
-----
-----
Phe Leu Asp Cys Gln Ile His Arg Val Asp Asp Ile Gln Ala Arg Asp -----
225              230              235              240 -----
-----
-----
Glu Val Glu Gly Phe Leu Gln Asp Thr Phe Pro Gln Gln Leu Glu Glu -----
              245              250              255              -----
-----
-----
Ser Glu Lys Gln Arg Leu Gly Gly Asp Val Gln Ser Pro Asn Cys Pro -----
              260              265              270              -----
-----
-----
Ser Glu Asp Val Val Ile Thr Pro Glu Ser Phe Gly Arg Asp Ser Ser -----
              275              280              285              -----
-----
-----
Leu Thr Cys Leu Ala Gly Asn Val Ser Ala Cys Asp Ala Pro Ile Leu -----
              290              295              300              -----
-----
-----
Ser Ser Ser Arg Ser Leu Asp Cys Arg Glu Ser Gly Lys Asn Gly Pro -----
305              310              315              320 -----
-----
-----

```

```

His Val Tyr Gln Asp Leu Leu Leu Ser Leu Gly Thr Thr Asn Ser Thr -----
                        325                        330                        335 -----
-----
-----
Leu Pro Pro Pro Phe Ser Leu Gln Ser Gly Ile Leu Thr Leu Asn Pro -----
                        340                        345                        350 -----
-----
-----
Val Ala Gln Gly Gln Pro Ile Leu Thr Ser Leu Gly Ser Asn Gln Glu -----
                        355                        360                        365 -----
-----
-----
Glu Ala Tyr Val Thr Met Ser Ser Phe Tyr Gln Asn Gln -----
                        370                        375                        380 -----
-----
-----
<210> 109-----
<211> 391-----
<212> PRT-----
<213> Secuencia artificial-----
-----
<220>-----
<223> Descripción de secuencia artificial: Polipéptido sintético-----
-----
<400> 109-----
Met Leu Leu Leu Val Thr Ser Leu Leu Leu Cys Glu Leu Pro His Pro -----
1                        5                        10                        15 -----
-----
-----

```

Ala	Phe	Leu	Leu	Ile	Pro	Glu	Gln	Lys	Leu	Ile	Ser	Glu	Glu	Asp	Leu	-----
		20						25						30		-----

Thr	Ile	Pro	Pro	His	Val	Gln	Lys	Ser	Val	Asn	Asn	Asp	Met	Ile	Val	-----
		35					40					45				-----

Thr	Asp	Asn	Asn	Gly	Ala	Val	Lys	Phe	Pro	Gln	Leu	Cys	Lys	Phe	Cys	-----
		50				55					60					-----

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

Cys	Ser	Ile	Thr	Ser	Ile	Cys	Glu	Lys	Pro	Gln	Glu	Val	Cys	Val	Ala	-----
				85					90				95			-----

Val	Trp	Arg	Lys	Asn	Asp	Glu	Asn	Ile	Thr	Leu	Glu	Thr	Val	Cys	His	-----
			100					105					110			-----

Asp	Pro	Lys	Leu	Pro	Tyr	His	Asp	Phe	Ile	Leu	Glu	Asp	Ala	Ala	Ser	-----
		115					120					125				-----

Pro	Lys	Cys	Ile	Met	Lys	Glu	Lys	Lys	Lys	Pro	Gly	Glu	Thr	Phe	Phe	-----

```

130              135              140              -----
-----
-----
Met Cys Ser Cys Ser Ser Asp Glu Cys Asn Asp Asn Ile Ile Phe Ser -----
145              150              155              160 -----
-----
-----
Glu Glu Tyr Asn Thr Ser Asn Pro Asp Ser Gly Pro Ile Leu Leu Thr -----
              165              170              175 -----
-----
-----
Ile Ser Ile Leu Ser Phe Phe Ser Val Ala Leu Leu Val Ile Leu Ala -----
              180              185              190 -----
-----
-----
Cys Val Leu Trp Lys Lys Arg Ile Lys Pro Ile Val Trp Pro Ser Leu -----
              195              200              205 -----
-----
-----
Pro Asp His Lys Lys Thr Leu Glu His Leu Cys Lys Lys Pro Arg Lys -----
              210              215              220 -----
-----
-----
Asn Leu Asn Val Ser Phe Asn Pro Glu Ser Phe Leu Asp Cys Gln Ile -----
225              230              235              240 -----
-----
-----
His Arg Val Asp Asp Ile Gln Ala Arg Asp Glu Val Glu Gly Phe Leu -----
              245              250              255 -----

```



```

-----
-----
Gln Asp Thr Phe Pro Gln Gln Leu Glu Glu Ser Glu Lys Gln Arg Leu -----
                260                265                270                -----
-----
-----
Gly Gly Asp Val Gln Ser Pro Asn Cys Pro Ser Glu Asp Val Val Ile -----
                275                280                285                -----
-----
-----
Thr Pro Glu Ser Phe Gly Arg Asp Ser Ser Leu Thr Cys Leu Ala Gly -----
                290                295                300                -----
-----
-----
Asn Val Ser Ala Cys Asp Ala Pro Ile Leu Ser Ser Ser Arg Ser Leu -----
305                310                315                320 -----
-----
-----
Asp Cys Arg Glu Ser Gly Lys Asn Gly Pro His Val Tyr Gln Asp Leu -----
                325                330                335                -----
-----
-----
Leu Leu Ser Leu Gly Thr Thr Asn Ser Thr Leu Pro Pro Pro Phe Ser -----
                340                345                350                -----
-----
-----
Leu Gln Ser Gly Ile Leu Thr Leu Asn Pro Val Ala Gln Gly Gln Pro -----
                355                360                365                -----
-----

```

```

-----
Ile Leu Thr Ser Leu Gly Ser Asn Gln Glu Glu Ala Tyr Val Thr Met -----
      370              375              380              -----
-----
-----
Ser Ser Phe Tyr Gln Asn Gln -----
385              390              -----
-----
-----
<210> 110-----
<211> 381-----
<212> PRT-----
<213> Secuencia artificial-----
-----
<220>-----
<223> Descripción de secuencia artificial: Polipéptido sintético-----
-----
<400> 110-----
Met Leu Leu Leu Val Thr Ser Leu Leu Leu Cys Glu Leu Pro His Pro -----
1              5              10              15              -----
-----
-----
Ala Phe Leu Leu Ile Pro Thr Ile Pro Pro His Val Gln Lys Ser Val -----
      20              25              30              -----
-----
-----
Asn Asn Asp Met Ile Val Thr Asp Asn Asn Gly Ala Val Lys Phe Pro -----
      35              40              45              -----
-----

```

```

-----
Gln Leu Cys Lys Phe Cys Asp Val Arg Phe Ser Thr Cys Asp Asn Gln -----
      50              55              60              -----
-----
-----
Lys Ser Cys Met Ser Asn Cys Ser Ile Thr Ser Ile Cys Glu Lys Pro -----
65              70              75              80 -----
-----
-----
Gln Glu Val Cys Val Ala Val Trp Arg Lys Asn Asp Glu Asn Ile Thr -----
              85              90              95 -----
-----
-----
Leu Glu Thr Val Cys His Asp Pro Lys Leu Pro Tyr His Asp Phe Ile -----
              100             105             110 -----
-----
-----
Leu Glu Asp Ala Ala Ser Pro Lys Cys Ile Met Lys Glu Lys Lys Lys -----
              115             120             125 -----
-----
-----
Pro Gly Glu Thr Phe Phe Met Cys Ser Cys Ser Ser Asp Glu Cys Asn -----
              130             135             140 -----
-----
-----
Asp Asn Ile Ile Phe Ser Glu Glu Tyr Asn Thr Ser Asn Pro Asp Ser -----
145              150             155             160 -----
-----
-----

```

```

Gly Pro Ile Leu Leu Thr Ile Ser Ile Leu Ser Phe Phe Ser Val Ala -----
                165                170                175 -----
-----
-----
Leu Leu Val Ile Leu Ala Cys Val Leu Trp Lys Lys Arg Ile Lys Pro -----
                180                185                190 -----
-----
-----
Ile Val Trp Pro Ser Leu Pro Asp His Lys Lys Thr Leu Glu His Leu -----
                195                200                205 -----
-----
-----
Cys Lys Lys Pro Arg Lys Asn Leu Asn Val Ser Phe Asn Pro Glu Ser -----
                210                215                220 -----
-----
-----
Phe Leu Asp Cys Gln Ile His Arg Val Asp Asp Ile Gln Ala Arg Asp -----
225                230                235                240 -----
-----
-----
Glu Val Glu Gly Phe Leu Gln Asp Thr Phe Pro Gln Gln Leu Glu Glu -----
                245                250                255 -----
-----
-----
Ser Glu Lys Gln Arg Leu Gly Gly Asp Val Gln Ser Pro Asn Cys Pro -----
                260                265                270 -----
-----
-----
Ser Glu Asp Val Val Ile Thr Pro Glu Ser Phe Gly Arg Asp Ser Ser -----

```

```

                275                280                285                -----
-----
-----
Leu Thr Cys Leu Ala Gly Asn Val Ser Ala Cys Asp Ala Pro Ile Leu -----
    290                295                300                -----
-----
-----
Ser Ser Ser Arg Ser Leu Asp Cys Arg Glu Ser Gly Lys Asn Gly Pro -----
305                310                315                320 -----
-----
-----
His Val Tyr Gln Asp Leu Leu Leu Ser Leu Gly Thr Thr Asn Ser Thr -----
                325                330                335                -----
-----
-----
Leu Pro Pro Pro Phe Ser Leu Gln Ser Gly Ile Leu Thr Leu Asn Pro -----
                340                345                350                -----
-----
-----
Val Ala Gln Gly Gln Pro Ile Leu Thr Ser Leu Gly Ser Asn Gln Glu -----
                355                360                365                -----
-----
-----
Glu Ala Tyr Val Thr Met Ser Ser Phe Tyr Gln Asn Gln -----
    370                375                380                -----
-----
-----
<210> 111-----
<211> 394-----

```

```

<212> PRT-----
<213> Secuencia artificial-----
-----
<220>-----
<223> Descripción de secuencia artificial: Polipéptido sintético-----
-----
<400> 111-----
Met Leu Leu Leu Val Thr Ser Leu Leu Leu Cys Glu Leu Pro His Pro -----
1           5           10           15           -----
-----
-----
Ala Phe Leu Leu Ile Pro Glu Gln Lys Leu Ile Ser Glu Glu Asp Leu -----
          20           25           30           -----
-----
-----
Thr Ile Pro Pro His Val Gln Lys Ser Val Asn Asn Asp Met Ile Val -----
          35           40           45           -----
-----
-----
Thr Asp Asn Asn Gly Ala Val Lys Phe Pro Gln Leu Cys Lys Phe Cys -----
          50           55           60           -----
-----
-----
Asp Val Arg Phe Ser Thr Cys Asp Asn Gln Lys Ser Cys Met Ser Asn -----
65           70           75           80 -----
-----
-----
Cys Ser Ile Thr Ser Ile Cys Glu Lys Pro Gln Glu Val Cys Val Ala -----
          85           90           95           -----

```

```

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

```

```

-----
Pro Ser Leu Pro Asp His Lys Lys Thr Leu Glu His Leu Cys Lys Lys -----
      210              215              220              -----
-----
-----
Pro Arg Lys Asn Leu Asn Val Ser Phe Asn Pro Glu Ser Phe Leu Asp -----
225              230              235              240 -----
-----
-----
Cys Gln Ile His Arg Val Asp Asp Ile Gln Ala Arg Asp Glu Val Glu -----
              245              250              255 -----
-----
-----
Gly Phe Leu Gln Asp Thr Phe Pro Gln Gln Leu Glu Glu Ser Glu Lys -----
              260              265              270 -----
-----
-----
Gln Arg Leu Gly Gly Asp Val Gln Ser Pro Asn Cys Pro Ser Glu Asp -----
              275              280              285 -----
-----
-----
Val Val Ile Thr Pro Glu Ser Phe Gly Arg Asp Ser Ser Leu Thr Cys -----
              290              295              300 -----
-----
-----
Leu Ala Gly Asn Val Ser Ala Cys Asp Ala Pro Ile Leu Ser Ser Ser -----
305              310              315              320 -----
-----
-----

```



```

Arg Ser Leu Asp Cys Arg Glu Ser Gly Lys Asn Gly Pro His Val Tyr -----
                        325                        330                        335 -----
-----
-----
Gln Asp Leu Leu Leu Ser Leu Gly Thr Thr Asn Ser Thr Leu Pro Pro -----
                        340                        345                        350 -----
-----
-----
Pro Phe Ser Leu Gln Ser Gly Ile Leu Thr Leu Asn Pro Val Ala Gln -----
                        355                        360                        365 -----
-----
-----
Gly Gln Pro Ile Leu Thr Ser Leu Gly Ser Asn Gln Glu Glu Ala Tyr -----
                        370                        375                        380 -----
-----
-----
Val Thr Met Ser Ser Phe Tyr Gln Asn Gln -----
385                        390 -----
-----
-----
<210> 112-----
<211> 384-----
<212> PRT-----
<213> Secuencia artificial-----
-----
<220>-----
<223> Descripción de secuencia artificial: Polipéptido sintético-----
-----
<400> 112-----

```

```

Met Leu Leu Leu Val Thr Ser Leu Leu Leu Cys Glu Leu Pro His Pro -----
1           5           10           15           -----
-----
-----

Ala Phe Leu Leu Ile Pro Thr Ile Pro Pro His Val Gln Lys Ser Val -----
          20           25           30           -----
-----
-----

Asn Asn Asp Met Ile Val Thr Asp Asn Asn Gly Ala Val Lys Phe Pro -----
          35           40           45           -----
-----
-----

Gln Leu Cys Lys Phe Cys Asp Val Arg Phe Ser Thr Cys Asp Asn Gln -----
          50           55           60           -----
-----
-----

Lys Ser Cys Met Ser Asn Cys Ser Ile Thr Ser Ile Cys Glu Lys Pro -----
65           70           75           80           -----
-----
-----

Gln Glu Val Cys Val Ala Val Trp Arg Lys Asn Asp Glu Asn Ile Thr -----
          85           90           95           -----
-----
-----

Leu Glu Thr Val Cys His Asp Pro Lys Leu Pro Tyr His Asp Phe Ile -----
          100          105          110          -----
-----
-----

Leu Glu Asp Ala Ala Ser Pro Lys Cys Ile Met Lys Glu Lys Lys Lys -----

```

115	120	125	-----

Pro Gly Glu Thr Phe Phe Met Cys Ser Cys Ser Ser Asp Glu Cys Asn	-----		
130	135	140	-----

Asp Asn Ile Ile Phe Ser Glu Glu Tyr Asn Thr Ser Asn Pro Asp Ser	-----		
145	150	155	160 -----

Gly Pro Ile Leu Leu Thr Cys Pro Thr Ile Ser Ile Leu Ser Phe Phe	-----		
	165	170	175 -----

Ser Val Ala Leu Leu Val Ile Leu Ala Cys Val Leu Trp Lys Lys Arg	-----		
	180	185	190 -----

Ile Lys Pro Ile Val Trp Pro Ser Leu Pro Asp His Lys Lys Thr Leu	-----		
	195	200	205 -----

Glu His Leu Cys Lys Lys Pro Arg Lys Asn Leu Asn Val Ser Phe Asn	-----		
	210	215	220 -----

Pro Glu Ser Phe Leu Asp Cys Gln Ile His Arg Val Asp Asp Ile Gln	-----		
225	230	235	240 -----

```

-----
-----
Ala Arg Asp Glu Val Glu Gly Phe Leu Gln Asp Thr Phe Pro Gln Gln -----
                245                250                255 -----
-----
-----
Leu Glu Glu Ser Glu Lys Gln Arg Leu Gly Gly Asp Val Gln Ser Pro -----
                260                265                270 -----
-----
-----
Asn Cys Pro Ser Glu Asp Val Val Ile Thr Pro Glu Ser Phe Gly Arg -----
                275                280                285 -----
-----
-----
Asp Ser Ser Leu Thr Cys Leu Ala Gly Asn Val Ser Ala Cys Asp Ala -----
                290                295                300 -----
-----
-----
Pro Ile Leu Ser Ser Ser Arg Ser Leu Asp Cys Arg Glu Ser Gly Lys -----
305                310                315                320 -----
-----
-----
Asn Gly Pro His Val Tyr Gln Asp Leu Leu Leu Ser Leu Gly Thr Thr -----
                325                330                335 -----
-----
-----
Asn Ser Thr Leu Pro Pro Pro Phe Ser Leu Gln Ser Gly Ile Leu Thr -----
                340                345                350 -----
-----

```

```

-----
Leu Asn Pro Val Ala Gln Gly Gln Pro Ile Leu Thr Ser Leu Gly Ser -----
      355              360              365              -----
-----
-----
Asn Gln Glu Glu Ala Tyr Val Thr Met Ser Ser Phe Tyr Gln Asn Gln -----
      370              375              380              -----
-----
-----
<210> 113-----
<211> 684-----
<212> PRT-----
<213> Secuencia artificial-----
-----
<220>-----
<223> Descripción de secuencia artificial: Polipéptido sintético-----
-----
<400> 113-----
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 Thr Ser Gly Tyr Thr Phe Thr Asp Tyr -----
      20              25              30              -----
-----
-----
Tyr Ile His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met -----
      35              40              45              -----
-----

```

```

-----
Gly Glu Ile Tyr Pro Gly Ser Gly Asn Thr Tyr Tyr Ala Gln Lys Phe -----
      50              55              60              -----
-----
-----
Gln Gly Arg Val Thr Met Thr Ala Asp Thr Ser Thr Ser Thr Ala Tyr -----
65              70              75              80 -----
-----
-----
Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys -----
              85              90              95 -----
-----
-----
Ala Arg Gly Asn Asp Tyr Asp Ala Trp Phe Val Tyr Trp Gly Gln Gly -----
              100             105             110 -----
-----
-----
Thr Leu Val Thr Val Ser Ser Gly Ser Thr Ser Gly Ser Gly Lys Pro -----
              115             120             125 -----
-----
-----
Gly Ser Gly Glu Gly Ser Thr Lys Gly Asp Ile Val Met Thr Gln Ser -----
              130             135             140 -----
-----
-----
Pro Asp Ser Leu Ala Val Ser Leu Gly Glu Arg Val Thr Met Asn Cys -----
145              150             155             160 -----
-----
-----

```

```

Lys Ser Ser Gln Ser Leu Leu Asn Ser Gly Thr Arg Lys Asn Tyr Leu -----
                165                170                175 -----
-----
-----
Ala Trp Tyr Gln Gln Lys Pro Gly Gln Pro Pro Lys Leu Leu Ile Tyr -----
                180                185                190 -----
-----
-----
Trp Ala Ser Ile Arg Glu Ser Gly Val Pro Asp Arg Phe Ser Gly Ser -----
                195                200                205 -----
-----
-----
Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Val Gln Ala Glu -----
                210                215                220 -----
-----
-----
Asp Val Ala Val Tyr Tyr Cys Lys Gln Ser Tyr Ser Leu Tyr Thr Phe -----
225                230                235                240 -----
-----
-----
Gly Gln Gly Thr Lys Leu Glu Ile Lys Gly Ser Thr Thr Thr Pro Ala -----
                245                250                255 -----
-----
-----
Pro Arg Pro Pro Thr Pro Ala Pro Thr Ile Ala Ser Gln Pro Leu Ser -----
                260                265                270 -----
-----
-----
Leu Arg Pro Glu Ala Cys Arg Pro Ala Ala Gly Gly Ala Val His Thr -----

```

275	280	285	-----

Arg Gly Leu Asp Phe Ala Cys Asp Ile Tyr Ile Trp Ala Pro Leu Ala	-----		
290	295	300	-----

Gly Thr Cys Gly Val Leu Leu Leu Ser Leu Val Ile Thr Leu Tyr Cys	-----		
305	310	315	320 -----

Lys Arg Gly Arg Lys Lys Leu Leu Tyr Ile Phe Lys Gln Pro Phe Met	-----		
	325	330	335 -----

Arg Pro Val Gln Thr Thr Gln Glu Glu Asp Gly Cys Ser Cys Arg Phe	-----		
	340	345	350 -----

Pro Glu Glu Glu Glu Gly Gly Cys Glu Leu Arg Val Lys Phe Ser Arg	-----		
	355	360	365 -----

Ser Ala Asp Ala Pro Ala Tyr Gln Gln Gly Gln Asn Gln Leu Tyr Asn	-----		
	370	375	380 -----

Glu Leu Asn Leu Gly Arg Arg Glu Glu Tyr Asp Val Leu Asp Lys Arg	-----		
385	390	395	400 -----


```

-----
-----
Arg Gly Arg Asp Pro Glu Met Gly Gly Lys Pro Arg Arg Lys Asn Pro -----
                405                410                415 -----
-----
-----
Gln Glu Gly Leu Tyr Asn Glu Leu Gln Lys Asp Lys Met Ala Glu Ala -----
                420                425                430 -----
-----
-----
Tyr Ser Glu Ile Gly Met Lys Gly Glu Arg Arg Arg Gly Lys Gly His -----
                435                440                445 -----
-----
-----
Asp Gly Leu Tyr Gln Gly Leu Ser Thr Ala Thr Lys Asp Thr Tyr Asp -----
                450                455                460 -----
-----
-----
Ala Leu His Met Gln Ala Leu Pro Pro Arg Gly Ser Gly Glu Gly Arg -----
465                470                475                480 -----
-----
-----
Gly Ser Leu Leu Thr Cys Gly Asp Val Glu Glu Asn Pro Gly Pro Met -----
                485                490                495 -----
-----
-----
Gly Arg Gly Leu Leu Arg Gly Leu Trp Pro Leu His Ile Val Leu Trp -----
                500                505                510 -----
-----

```

```

-----
Thr Arg Ile Ala Ser Thr Ile Pro Pro His Val Gln Lys Ser Val Asn -----
      515                520                525                -----
-----
-----
Asn Asp Met Ile Val Thr Asp Asn Asn Gly Ala Val Lys Phe Pro Gln -----
      530                535                540                -----
-----
-----
Leu Cys Lys Phe Cys Asp Val Arg Phe Ser Thr Cys Asp Asn Gln Lys -----
545                550                555                560 -----
-----
-----
Ser Cys Met Ser Asn Cys Ser Ile Thr Ser Ile Cys Glu Lys Pro Gln -----
                565                570                575                -----
-----
-----
Glu Val Cys Val Ala Val Trp Arg Lys Asn Asp Glu Asn Ile Thr Leu -----
                580                585                590                -----
-----
-----
Glu Thr Val Cys His Asp Pro Lys Leu Pro Tyr His Asp Phe Ile Leu -----
                595                600                605                -----
-----
-----
Glu Asp Ala Ala Ser Pro Lys Cys Ile Met Lys Glu Lys Lys Lys Pro -----
                610                615                620                -----
-----
-----

```

```

Gly Glu Thr Phe Phe Met Cys Ser Cys Ser Ser Asp Glu Cys Asn Asp -----
625                      630                      635                      640 -----
-----
-----
Asn Ile Ile Phe Ser Glu Glu Tyr Asn Thr Ser Asn Pro Asp Leu Leu -----
                      645                      650                      655 -----
-----
-----
Leu Val Ile Phe Gln Val Thr Gly Ile Ser Leu Leu Pro Pro Leu Gly -----
                      660                      665                      670 -----
-----
-----
Val Ala Ile Ser Val Ile Ile Ile Phe Tyr Cys Tyr -----
                      675                      680 -----
-----
-----
<210> 114-----
<211> 2052-----
<212> ADN-----
<213> Secuencia artificial-----
-----
<220>-----
<223> Descripción de secuencia artificial: Polinucleótido sintético-----
-----
<400> 114-----
caagtccaac tgggtgcagtc cggagccgag gtcaagaagc ccggagccag cgtgaaagtc      60-
-----
tcatgtaaaa ccagcgggta caccttcacc gactactaca tccactgggt ccgacaagcc      120-
-----

```

```

cccgggtcaag gtttagagtg gatgggagag atctaccccg gctccggcaa cacctactac      180-
-----
gccagaagt  tccaaggctg tgtgaccatg acagccgaca ccagcacctc caccgcctac      240-
-----
atggaactgt cctctctgcg ttctgaggac acagccgttt actactgcgc cagaggcaac      300-
-----
gactacgacg cttggttcgt gtactggggc caaggaacat tagtgaccgt gtcctccgga      360-
-----
tccacatccg gcagcggaaa gcccggtagc ggcgagggca gcaccaaagg agacatcgtc      420-
-----
atgaccaga  gcccgatc  tttagccgtg tctttaggcg aaagagtgac catgaactgc      480-
-----
aagtccagcc agtctttact gaattccggc actcgaaaaa actatcttagc ttggtaccag      540-
-----
cagaaacccg gccagcccc  taagctgctg atctactggg ctagcattcg agaatccggc      600-
-----
gtgcccgatc gcttttagcg cagcggtagc ggcaccgact ttactttaac catcagcagc      660-
-----
gtgcaagctg aggacgtggc tgtgtactat tgcaagcagt cctactcttt atacaccttc      720-
-----
ggccaaggaa caaagctgga gatcaagggg tccaccacga cgccagcgcc ggcaccacca      780-
-----
acaccggcgc ccaccatcgc gtcgcaacct ctgtccctgc gcccgaggc gtgccggcca      840-
-----
gcggcggggg gcgcagtgca cacgaggggg ctggacttcg cctgtgatat ctacatctgg      900-
-----
gcgcccttgg ccgggacttg tggggtcctt ctctgtcac tggttatcac cctttattgc      960-
-----
aaacggggca gaaagaaact cctgtatata ttcaaacaac catttatgag accagtacaa     1020-

```

```

-----
actactcaag aggaagatgg ctgtagctgc cgatttccag aagaagaaga aggaggatgt      1080-
-----
gaattgagag tgaagttcag caggagcgca gacgcccccg cctatcagca aggccagaac      1140-
-----
cagctctata acgagctcaa tttagggcga agagaggagt acgatgtttt ggacaagagg      1200-
-----
cgtggccggg accccgaaat ggggggaaag ccgagaagga agaaccctca ggaaggcttg      1260-
-----
tacaatgaat tgcagaagga taagatggcg gaggcataca gtgagattgg gatgaaaggc      1320-
-----
gagcgccgga ggggcaaggg gcacgatggc ctttatcagg gtctcagtac agccaccaag      1380-
-----
gacacctacg acgcccttca catgcaagcc ctgccccctc gcggctctgg agagggcaga      1440-
-----
ggctctctgc tgacctgcgg cgacgtggaa gagaaccag gccccatggg aagaggttta      1500-
-----
ctgagaggac tgtggccttt acacatcgtg ctgtggactc gtatcgccag caccatcccc      1560-
-----
cccatgtcc aaaagagcgt gaacaacgac atgatcgtga ccgacaacaa tggcgccgtg      1620-
-----
aagttcccc agctgtgcaa gttctgcgac gtgaggttca gcacttgtga caaccagaag      1680-
-----
agctgcatga gcaactgcag catcacctcc atctgcgaga agccccaaga agtgtgcgtg      1740-
-----
gccgtgtgga ggaagaacga cgagaacatc actttagaga cagtgtgcca cgacccaag      1800-
-----
ctgccctacc acgacttcat tttagaagat gccgccagcc ccaagtgcac catgaaggag      1860-
-----

```

aagaagaagc cggcgagac cttcttcacg tgttcttggt cgtctgatga gtgcaacgat 1920-

aacatcatct tcagcgagga gtacaacacc agcaaccccg atttactgct ggtgatcttc 1980-

caagttaccg gcatttcttt actgcctccg ttgggcgtgg ctatcagcgt gatcatcatc 2040-

ttctactgct at 2052-

<210> 115-----

<211> 684-----

<212> PRT-----

<213> Secuencia artificial-----

<220>-----

<223> Descripción de secuencia artificial: Polipéptido sintético-----

<400> 115-----

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 Thr Ser Gly Tyr Thr Phe Thr Asp Tyr -----

20 25 30 -----

Tyr Ile His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met -----

35 40 45 -----

```

-----
Gly Glu Ile Tyr Pro Gly Ser Gly Asn Thr Tyr Tyr Ala Gln Lys Phe -----
      50                      55                      60                      -----
-----
-----
Gln Gly Arg Val Thr Met Thr Ala Asp Thr Ser Thr Ser Thr Ala Tyr -----
65                      70                      75                      80 -----
-----
-----
Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys -----
                      85                      90                      95 -----
-----
-----
Ala Arg Gly Asn Asp Tyr Asp Ala Trp Phe Val Tyr Trp Gly Gln Gly -----
                      100                     105                     110 -----
-----
-----
Thr Leu Val Thr Val Ser Ser Gly Ser Thr Ser Gly Ser Gly Lys Pro -----
                      115                     120                     125 -----
-----
-----
Gly Ser Gly Glu Gly Ser Thr Lys Gly Asp Ile Val Met Thr Gln Ser -----
                      130                     135                     140 -----
-----
-----
Pro Asp Ser Leu Ala Val Ser Leu Gly Glu Arg Val Thr Met Asn Cys -----
145                      150                     155                     160 -----
-----
-----

```

Lys	Ser	Ser	Gln	Ser	Leu	Leu	Asn	Ser	Gly	Thr	Arg	Lys	Asn	Tyr	Leu	-----
				165					170					175		-----

Ala	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Gln	Pro	Pro	Lys	Leu	Leu	Ile	Tyr	-----
				180					185					190		-----

Trp	Ala	Ser	Ile	Arg	Glu	Ser	Gly	Val	Pro	Asp	Arg	Phe	Ser	Gly	Ser	-----
		195						200					205			-----

Gly	Ser	Gly	Thr	Asp	Phe	Thr	Leu	Thr	Ile	Ser	Ser	Val	Gln	Ala	Glu	-----
		210					215					220				-----

Asp	Val	Ala	Val	Tyr	Tyr	Cys	Lys	Gln	Ser	Tyr	Ser	Leu	Tyr	Thr	Phe	-----
225						230					235				240	-----

Gly	Gln	Gly	Thr	Lys	Leu	Glu	Ile	Lys	Gly	Ser	Thr	Thr	Thr	Pro	Ala	-----
				245					250					255		-----

Pro	Arg	Pro	Pro	Thr	Pro	Ala	Pro	Thr	Ile	Ala	Ser	Gln	Pro	Leu	Ser	-----
				260					265					270		-----

Leu	Arg	Pro	Glu	Ala	Cys	Arg	Pro	Ala	Ala	Gly	Gly	Ala	Val	His	Thr	-----


```

                275                280                285                -----
-----
-----
Arg Gly Leu Asp Phe Ala Cys Asp Ile Tyr Ile Trp Ala Pro Leu Ala -----
    290                295                300                -----
-----
-----
Gly Thr Cys Gly Val Leu Leu Leu Ser Leu Val Ile Thr Leu Tyr Cys -----
305                310                315                320 -----
-----
-----
Lys Arg Gly Arg Lys Lys Leu Leu Tyr Ile Phe Lys Gln Pro Phe Met -----
                325                330                335                -----
-----
-----
Arg Pro Val Gln Thr Thr Gln Glu Glu Asp Gly Cys Ser Cys Arg Phe -----
                340                345                350                -----
-----
-----
Pro Glu Glu Glu Glu Gly Gly Cys Glu Leu Arg Val Lys Phe Ser Arg -----
                355                360                365                -----
-----
-----
Ser Ala Asp Ala Pro Ala Tyr Gln Gln Gly Gln Asn Gln Leu Tyr Asn -----
                370                375                380                -----
-----
-----
Glu Leu Asn Leu Gly Arg Arg Glu Glu Tyr Asp Val Leu Asp Lys Arg -----
385                390                395                400 -----

```

```

-----
-----
Arg Gly Arg Asp Pro Glu Met Gly Gly Lys Pro Arg Arg Lys Asn Pro -----
                405                410                415 -----
-----
-----
Gln Glu Gly Leu Tyr Asn Glu Leu Gln Lys Asp Lys Met Ala Glu Ala -----
                420                425                430 -----
-----
-----
Tyr Ser Glu Ile Gly Met Lys Gly Glu Arg Arg Arg Gly Lys Gly His -----
                435                440                445 -----
-----
-----
Asp Gly Leu Tyr Gln Gly Leu Ser Thr Ala Thr Lys Asp Thr Tyr Asp -----
                450                455                460 -----
-----
-----
Ala Leu His Met Gln Ala Leu Pro Pro Arg Gly Ser Gly Glu Gly Arg -----
465                470                475                480 -----
-----
-----
Gly Ser Leu Leu Thr Cys Gly Asp Val Glu Glu Asn Pro Gly Pro Met -----
                485                490                495 -----
-----
-----
Gly Arg Gly Leu Leu Arg Gly Leu Trp Pro Leu His Ile Val Leu Trp -----
                500                505                510 -----
-----

```

```

-----
Thr Arg Ile Ala Ser Thr Ile Pro Pro His Val Gln Lys Ser Val Asn -----
      515                520                525                -----
-----
-----
Asn Asp Met Ile Val Thr Asp Asn Asn Gly Ala Val Lys Phe Pro Gln -----
      530                535                540                -----
-----
-----
Leu Cys Lys Phe Cys Asp Val Arg Phe Ser Thr Cys Asp Asn Gln Lys -----
545                550                555                560 -----
-----
-----
Ser Cys Met Ser Asn Cys Ser Ile Thr Ser Ile Cys Glu Lys Pro Gln -----
                565                570                575                -----
-----
-----
Glu Val Cys Val Ala Val Trp Arg Lys Asn Asp Glu Asn Ile Thr Leu -----
                580                585                590                -----
-----
-----
Glu Thr Val Cys His Asp Pro Lys Leu Pro Tyr His Asp Phe Ile Leu -----
                595                600                605                -----
-----
-----
Glu Asp Ala Ala Ser Pro Lys Cys Ile Met Lys Glu Lys Lys Lys Pro -----
                610                615                620                -----
-----
-----

```

```

Gly Glu Thr Phe Phe Met Cys Ser Cys Ser Ser Asp Glu Cys Asn Asp -----
625                      630                      635                      640 -----
-----
-----
Asn Ile Ile Phe Ser Glu Glu Tyr Asn Thr Ser Asn Pro Asp Leu Leu -----
                      645                      650                      655 -----
-----
-----
Leu Val Ile Phe Gln Val Thr Gly Ile Ser Leu Leu Pro Pro Leu Gly -----
                      660                      665                      670 -----
-----
-----
Val Ala Ile Ser Val Ile Ile Ile Phe Tyr Cys Tyr -----
                      675                      680 -----
-----
-----
<210> 116-----
<211> 672-----
<212> PRT-----
<213> Secuencia artificial-----
-----
<220>-----
<223> Descripción de secuencia artificial: Polipéptido sintético-----
-----
<400> 116-----
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 Thr Ser Gly Tyr Thr Phe Thr Asp Tyr -----
                20                25                30                -----
-----
-----
Tyr Ile His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met -----
                35                40                45                -----
-----
-----
Gly Glu Ile Tyr Pro Gly Ser Gly Asn Thr Tyr Tyr Ala Gln Lys Phe -----
                50                55                60                -----
-----
-----
Gln Gly Arg Val Thr Met Thr Ala Asp Thr Ser Thr Ser Thr Ala Tyr -----
65                70                75                80 -----
-----
-----
Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys -----
                85                90                95                -----
-----
-----
Ala Arg Gly Asn Asp Tyr Asp Ala Trp Phe Val Tyr Trp Gly Gln Gly -----
                100               105               110               -----
-----
-----
Thr Leu Val Thr Val Ser Ser Gly Ser Thr Ser Gly Ser Gly Lys Pro -----
                115               120               125               -----
-----
-----
Gly Ser Gly Glu Gly Ser Thr Lys Gly Asp Ile Val Met Thr Gln Ser -----

```

```

130              135              140              -----
-----
-----
Pro Asp Ser Leu Ala Val Ser Leu Gly Glu Arg Val Thr Met Asn Cys -----
145              150              155              160 -----
-----
-----
Lys Ser Ser Gln Ser Leu Leu Asn Ser Gly Thr Arg Lys Asn Tyr Leu -----
              165              170              175 -----
-----
-----
Ala Trp Tyr Gln Gln Lys Pro Gly Gln Pro Pro Lys Leu Leu Ile Tyr -----
              180              185              190 -----
-----
-----
Trp Ala Ser Ile Arg Glu Ser Gly Val Pro Asp Arg Phe Ser Gly Ser -----
              195              200              205 -----
-----
-----
Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Val Gln Ala Glu -----
              210              215              220 -----
-----
-----
Asp Val Ala Val Tyr Tyr Cys Lys Gln Ser Tyr Ser Leu Tyr Thr Phe -----
225              230              235              240 -----
-----
-----
Gly Gln Gly Thr Lys Leu Glu Ile Lys Gly Ser Leu Asp Asn Glu Lys -----
              245              250              255 -----

```

```

-----
-----
Ser Asn Gly Thr Ile Ile His Val Lys Gly Lys His Leu Cys Pro Ser -----
                260                265                270                -----
-----
-----
Pro Leu Phe Pro Gly Pro Ser Lys Pro Phe Trp Val Leu Val Val Val -----
                275                280                285                -----
-----
-----
Gly Gly Val Leu Ala Cys Tyr Ser Leu Leu Val Thr Val Ala Phe Ile -----
                290                295                300                -----
-----
-----
Ile Phe Trp Val Arg Ser Lys Arg Ser Arg Leu Leu His Ser Asp Tyr -----
305                310                315                320 -----
-----
-----
Met Asn Met Thr Pro Arg Arg Pro Gly Pro Thr Arg Lys His Tyr Gln -----
                325                330                335                -----
-----
-----
Pro Tyr Ala Pro Pro Arg Asp Phe Ala Ala Tyr Arg Ser Leu Arg Val -----
                340                345                350                -----
-----
-----
Lys Phe Ser Arg Ser Ala Asp Ala Pro Ala Tyr Gln Gln Gly Gln Asn -----
                355                360                365                -----
-----

```

```

-----
Gln Leu Tyr Asn Glu Leu Asn Leu Gly Arg Arg Glu Glu Tyr Asp Val -----
      370              375              380              -----
-----
-----
Leu Asp Lys Arg Arg Gly Arg Asp Pro Glu Met Gly Gly Lys Pro Arg -----
385              390              395              400 -----
-----
-----
Arg Lys Asn Pro Gln Glu Gly Leu Tyr Asn Glu Leu Gln Lys Asp Lys -----
              405              410              415 -----
-----
-----
Met Ala Glu Ala Tyr Ser Glu Ile Gly Met Lys Gly Glu Arg Arg Arg -----
              420              425              430 -----
-----
-----
Gly Lys Gly His Asp Gly Leu Tyr Gln Gly Leu Ser Thr Ala Thr Lys -----
              435              440              445 -----
-----
-----
Asp Thr Tyr Asp Ala Leu His Met Gln Ala Leu Pro Pro Arg Gly Ser -----
              450              455              460 -----
-----
-----
Gly Glu Gly Arg Gly Ser Leu Leu Thr Cys Gly Asp Val Glu Glu Asn -----
465              470              475              480 -----
-----
-----

```


Pro Gly	Pro Met	Gly Arg	Gly Leu	Leu Arg	Gly Leu	Trp Pro	Leu His	-----
	485			490			495	-----

Ile Val	Leu Trp	Thr Arg	Ile Ala	Ser Thr	Ile Pro	Pro His	Val Gln	-----
	500			505			510	-----

Lys Ser	Val Asn	Asn Asp	Met Ile	Val Thr	Asp Asn	Asn Gly	Ala Val	-----
	515			520			525	-----

Lys Phe	Pro Gln	Leu Cys	Lys Phe	Cys Asp	Val Arg	Phe Ser	Thr Cys	-----
	530			535			540	-----

Asp Asn	Gln Lys	Ser Cys	Met Ser	Asn Cys	Ser Ile	Thr Ser	Ile Cys	-----
545				550			555	-----

Glu Lys	Pro Gln	Glu Val	Cys Val	Ala Val	Trp Arg	Lys Asn	Asp Glu	-----
	565				570		575	-----

Asn Ile	Thr Leu	Glu Thr	Val Cys	His Asp	Pro Lys	Leu Pro	Tyr His	-----
	580				585		590	-----

Asp Phe	Ile Leu	Glu Asp	Ala Ala	Ser Pro	Lys Cys	Ile Met	Lys Glu	-----

```

595                               600                               605 -----
-----
-----
Lys Lys Lys Pro Gly Glu Thr Phe Phe Met Cys Ser Cys Ser Ser Asp -----
610                               615                               620 -----
-----
-----
Glu Cys Asn Asp Asn Ile Ile Phe Ser Glu Glu Tyr Asn Thr Ser Asn -----
625                               630                               635                               640 -----
-----
-----
Pro Asp Leu Leu Leu Val Ile Phe Gln Val Thr Gly Ile Ser Leu Leu -----
645                               650                               655 -----
-----
-----
Pro Pro Leu Gly Val Ala Ile Ser Val Ile Ile Ile Phe Tyr Cys Tyr -----
660                               665                               670 -----
-----
-----
<210> 117-----
<211> 2016-----
<212> ADN-----
<213> Secuencia artificial-----
-----
<220>-----
<223> Descripción de secuencia artificial: Polinucleótido sintético-----
-----
<400> 117-----
caagtccaac tgggtgcagtc cggagccgag gtcaagaagc cggagccag cgtgaaagtc 60-

```

```

-----
tcatgtaaaa ccagcggcta caccttcacc gactactaca tccactgggt ccgacaagcc      120-
-----
cccggtcaag gtttagagtg gatgggcgag atctaccccg gctccggcaa cacctactac      180-
-----
gccagaagt tccaaggctg tgtgaccatg acagccgaca ccagcacctc caccgcctac      240-
-----
atggaactgt cctctctgcg ttctgaggac acagccgttt actactgcgc cagaggcaac      300-
-----
gactacgacg cttggttcgt gtactggggc caaggaacat tagtgaccgt gtctccgga      360-
-----
tccacatccg gcagcggaaa gcccggtagc ggcgagggca gcaccaaagg agacatcgtc      420-
-----
atgaccaga gccccgattc tttagccgtg tctttaggcg aaagagtgac catgaactgc      480-
-----
aagtccagcc agtctttact gaattccggc actcgaaaaa actatttagc ttggtaccag      540-
-----
cagaaacccg gccagcccc taagctgctg atctactggg ctagcattcg agaatccggc      600-
-----
gtgcccgatc gctttagcgg cagcggtagc ggcaccgact ttactttaac catcagcagc      660-
-----
gtgcaagctg aggacgtggc tgtgtactat tgcaagcagt cctactcttt atacaccttc      720-
-----
ggccaaggaa caaagctgga gatcaagggg tcctagaca atgagaagag caatggaacc      780-
-----
attatccatg tgaaagggaa acacctttgt ccaagtcccc tatttcccgg accttctaag      840-
-----
cccttttggg tgctggtggt ggttggtgga gtcttggtt gctatagctt gctagtaaca      900-
-----

```

gtggccttta ttattttctg ggtccgatca aaaaggagca ggctcctgca cagtgactac 960-

atgaacatga ctccccgccg ccccgggccc acccgcaagc attaccagcc ctatgcccc 1020-

ccacgcgact tcgcagccta tcgctccctg agagtgaagt tcagcaggag cgcagacgcc 1080-

cccgcgtaac agcaagggca gaaccagctc tataacgagc tcaatctagg acgaagagag 1140-

gagtacgatg ttttggacaa gaggcgtggc cgggaccctg agatgggggg aaagccgaga 1200-

aggaagaacc ctcaggaagg cctgtacaat gaactgcaga aagataagat ggcggaggcc 1260-

tacagtgaga ttgggatgaa aggcgagcgc cggaggggca aggggcacga tggcctttac 1320-

cagggtctca gtacagccac caaggacacc tacgacgcc ttcacatgca agctctgccc 1380-

cctcgcggt ctggagaggg cagaggctct ctgctgacct gcggcgacgt ggaagagaac 1440-

ccaggcccca tgggaagagg ttactgaga ggactgtggc ctttacacat cgtgctgtgg 1500-

actcgtatcg ccagcaccat cccccccat gtccaaaaga gcgtgaacaa cgacatgatc 1560-

gtgaccgaca acaatggcgc cgtgaagttc cccagctgt gcaagttctg cgacgtgagg 1620-

ttcagcactt gtgacaacca gaagagctgc atgagcaact gcagcatcac ctccatctgc 1680-

gagaagcccc aagaagtgtg cgtggccgtg tggaggaaga acgacgagaa catcacttta 1740-

gagacagtgt gccacgacc caagctgccc taccagact tcattttaga agatgccgcc 1800-

```

-----
agccccaagt gcatcatgaa ggagaagaag aagcccggcg agaccttctt catgtgttct      1860-
-----
tgttcgtctg atgagtgcaa cgataacatc atcttcagcg aggagtacaa caccagcaac      1920-
-----
cccgatttac tgctggatgat cttccaagtt accggcattt ctttactgcc tccgttgggc      1980-
-----
gtggctatca gcgtgatcat catcttctac tgctat                                2016-
-----
-----
<210> 118-----
<211> 18-----
<212> PRT-----
<213> Secuencia artificial-----
-----
<220>-----
<223> Descripción de secuencia artificial: Péptido sintético-----
-----
<400> 118-----
Glu Gly Arg Gly Ser Leu Leu Thr Cys Gly Asp Val Glu Glu Asn Pro -----
1           5           10           15           -----
-----
-----
Gly Pro -----
-----
-----
<210> 119-----
<211> 54-----

```

```

<212> ADN-----
<213> Secuencia artificial-----
-----
<220>-----
<223> Descripción de secuencia artificial: Oligonucleótido sintético-----
-----
<400> 119-----
gagggcagag gctctctgct gacctgcggc gacgtggaag agaaccagg cccc          54-
-----
-----
<210> 120-----
<211> 50-----
<212> PRT-----
<213> Secuencia artificial-----
-----
<220>-----
<223> Descripción de secuencia artificial: Polipéptido sintético-----
-----
-----
<220>-----
<221> SITE-----
<222> (1)..(5) -----
<223> Esta región puede abarcar 1-5 residuos-----
-----
<220>-----
<221> SITE-----
<222> (6)..(10) -----
<223> Esta región puede abarcar 1-5 residuos-----
-----

```

<220>-----

<221> SITE-----

<222> (11)..(15)-----

<223> Esta región puede abarcar 1-5 residuos-----

<220>-----

<221> SITE-----

<222> (16)..(20)-----

<223> Esta región puede abarcar 1-5 residuos-----

<220>-----

<221> SITE-----

<222> (21)..(25)-----

<223> Esta región puede abarcar 1-5 residuos-----

<220>-----

<221> SITE-----

<222> (26)..(30)-----

<223> Esta región puede abarcar 1-5 residuos-----

<220>-----

<221> SITE-----

<222> (31)..(35)-----

<223> Esta región puede abarcar 1-5 residuos-----

<220>-----

<221> SITE-----

<222> (36)..(40)-----

<223> Esta región puede abarcar 1-5 residuos-----

```

-----
<220>-----
<221> SITE-----
<222> (41)..(45)-----
<223> Esta región puede abarcar 1-5 residuos-----
-----
<220>-----
<221> SITE-----
<222> (46)..(50)-----
<223> Esta región puede abarcar 1-5 residuos-----
-----
<220>-----
<221> SITE-----
<222> (1)..(50)-----
<223> Esta secuencia puede abarcar 1-5 unidades de repetición de "(G)n(S)n"
      en donde n = 1-5-----
-----
<400> 120-----
Gly Gly Gly Gly Gly Ser Ser Ser Ser Ser Gly Gly Gly Gly Gly Ser -----
1           5           10           15           -----
-----
-----
Ser Ser Ser Ser Gly Gly Gly Gly Gly Ser Ser Ser Ser Ser Gly Gly -----
          20           25           30           -----
-----
-----
Gly Gly Gly Ser Ser Ser Ser Ser Gly Gly Gly Gly Gly Ser Ser Ser -----
          35           40           45           -----
-----

```



```

-----
Ser Ser -----
    50 -----
-----
-----
<210> 121-----
<211> 474-----
<212> PRT-----
<213> Secuencia artificial-----
-----
<220>-----
<223> Descripción de secuencia artificial: Polipéptido sintético-----
-----
<400> 121-----
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 Asp Tyr -----
           20           25           30           -----
-----
-----
Tyr Ile His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met -----
           35           40           45           -----
-----
-----
Gly Glu Ile Tyr Pro Gly Ser Gly Asn Thr Tyr Tyr Ala Gln Lys Phe -----
           50           55           60           -----
-----

```

```

-----
Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val Tyr -----
65              70              75              80 -----
-----
-----
Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys -----
              85              90              95 -----
-----
-----
Ala Arg Gly Asn Asp Tyr Asp Ala Trp Phe Val Tyr Trp Gly Gln Gly -----
              100             105             110 -----
-----
-----
Thr Leu Val Thr Val Ser Ser Gly Ser Thr Ser Gly Ser Gly Lys Pro -----
              115             120             125 -----
-----
-----
Gly Ser Gly Glu Gly Ser Thr Lys Gly Asp Ile Val Met Thr Gln Ser -----
              130             135             140 -----
-----
-----
Pro Asp Ser Leu Ala Val Ser Leu Gly Glu Arg Ala Thr Ile Asn Cys -----
145              150             155             160 -----
-----
-----
Lys Ser Ser Gln Ser Leu Leu Asn Ser Gly Thr Arg Lys Asn Tyr Leu -----
              165             170             175 -----
-----
-----

```

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

Trp	Ala	Ser	Ile	Arg	Glu	Ser	Gly	Val	Pro	Asp	Arg	Phe	Ser	Gly	Ser	-----

Gly	Ser	Gly	Thr	Asp	Phe	Thr	Leu	Thr	Ile	Ser	Ser	Leu	Gln	Ala	Glu	-----

Asp	Val	Ala	Val	Tyr	Tyr	Cys	Lys	Gln	Ser	Tyr	Ser	Leu	Tyr	Thr	Phe	-----

Gly	Gln	Gly	Thr	Lys	Leu	Glu	Ile	Lys	Gly	Ser	Thr	Thr	Thr	Pro	Ala	-----

Pro	Arg	Pro	Pro	Thr	Pro	Ala	Pro	Thr	Ile	Ala	Ser	Gln	Pro	Leu	Ser	-----

Leu	Arg	Pro	Glu	Ala	Cys	Arg	Pro	Ala	Ala	Gly	Gly	Ala	Val	His	Thr	-----

Arg	Gly	Leu	Asp	Phe	Ala	Cys	Asp	Ile	Tyr	Ile	Trp	Ala	Pro	Leu	Ala	-----

290	295	300	-----

Gly Thr Cys Gly Val Leu Leu Leu Ser Leu Val Ile Thr Leu Tyr Cys	-----		
305	310	315	320 -----

Lys Arg Gly Arg Lys Lys Leu Leu Tyr Ile Phe Lys Gln Pro Phe Met	-----		
	325	330	335 -----

Arg Pro Val Gln Thr Thr Gln Glu Glu Asp Gly Cys Ser Cys Arg Phe	-----		
	340	345	350 -----

Pro Glu Glu Glu Glu Gly Gly Cys Glu Leu Arg Val Lys Phe Ser Arg	-----		
	355	360	365 -----

Ser Ala Asp Ala Pro Ala Tyr Gln Gln Gly Gln Asn Gln Leu Tyr Asn	-----		
	370	375	380 -----

Glu Leu Asn Leu Gly Arg Arg Glu Glu Tyr Asp Val Leu Asp Lys Arg	-----		
385	390	395	400 -----

Arg Gly Arg Asp Pro Glu Met Gly Gly Lys Pro Arg Arg Lys Asn Pro	-----		
	405	410	415 -----

```

-----
-----
Gln Glu Gly Leu Tyr Asn Glu Leu Gln Lys Asp Lys Met Ala Glu Ala -----
          420                      425                      430          -----
-----
-----
Tyr Ser Glu Ile Gly Met Lys Gly Glu Arg Arg Arg Gly Lys Gly His -----
          435                      440                      445          -----
-----
-----
Asp Gly Leu Tyr Gln Gly Leu Ser Thr Ala Thr Lys Asp Thr Tyr Asp -----
          450                      455                      460          -----
-----
-----
Ala Leu His Met Gln Ala Leu Pro Pro Arg -----
465                      470          -----

```