

Listado de secuencias
LISTADO DE SECUENCIAS

<110> APOGENIX GMBH

<120> PROTEÍNAS AGONISTAS DE LOS RECEPTORES DE TRAIL DE CADENA SIMPLE

<130> 566215: BBI-999PC

<140> PCT/US2015/27270

<141> 23-04-2015

<150> 61/983152

<151> 23-04-2014

<160> 31

<170> PatentIn versión 3.5

<210> 1

<211> 281

<212> PRT

<213> Homo sapiens

<220>

<221> fuente

<223> /nota="TRAIL humano"

<400> 1

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

Val Leu Ile Val Ile Phe Thr Val Leu Leu Gln Ser Leu Cys Val Ala
20 25 30

Val Thr Tyr Val Tyr Phe Thr Asn Glu Leu Lys Gln Met Gln Asp Lys
35 40 45

Tyr Ser Lys Ser Gly Ile Ala Cys Phe Leu Lys Glu Asp Asp Ser Tyr
50 55 60

Trp Asp Pro Asn Asp Glu Glu Ser Met Asn Ser Pro Cys Trp Gln Val
65 70 75 80

Lys Trp Gln Leu Arg Gln Leu Val Arg Lys Met Ile Leu Arg Thr Ser
85 90 95

Glu Glu Thr Ile Ser Thr Val Gln Glu Lys Gln Gln Asn Ile Ser Pro
100 105 110

Leu Val Arg Glu Arg Gly Pro Gln Arg Val Ala Ala His Ile Thr Gly
115 120 125

Thr Arg Gly Arg Ser Asn Thr Leu Ser Ser Pro Asn Ser Lys Asn Glu
130 135 140

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Lys Ala Leu Gly Arg Lys Ile Asn Ser Trp Glu Ser Ser Arg Ser Gly
145 150 155 160

His Ser Phe Leu Ser Asn Leu His Leu Arg Asn Gly Glu Leu Val Ile
165 170 175

His Glu Lys Gly Phe Tyr Tyr Ile Tyr Ser Gln Thr Tyr Phe Arg Phe
180 185 190

Gln Glu Glu Ile Lys Glu Asn Thr Lys Asn Asp Lys Gln Met Val Gln
195 200 205

Tyr Ile Tyr Lys Tyr Thr Ser Tyr Pro Asp Pro Ile Leu Leu Met Lys
210 215 220

Ser Ala Arg Asn Ser Cys Trp Ser Lys Asp Ala Glu Tyr Gly Leu Tyr
225 230 235 240

Ser Ile Tyr Gln Gly Gly Ile Phe Glu Leu Lys Glu Asn Asp Arg Ile
245 250 255

Phe Val Ser Val Thr Asn Glu His Leu Ile Asp Met Asp His Glu Ala
260 265 270

Ser Phe Phe Gly Ala Phe Leu Val Gly
275 280

<210> 2
<211> 8
<212> PRT
<213> Secuencia artificial

<220>
<221> fuente
<223> /nota="Descripción de secuencia artificial: Péptido conector sintético"

<400> 2
Gly Ser Gly Ser Gly Asn Gly Ser
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<210> 3
<211> 8
<212> PRT
<213> Secuencia artificial

<220>
<221> fuente
<223> /nota="Descripción de secuencia artificial: Péptido conector sintético"

<400> 3
Gly Ser Gly Ser Gly Ser Gly Ser
1 5

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<210> 4
<211> 8
<212> PRT
<213> Secuencia artificial

<220>
<221> fuente
<223> /nota="Descripción de Secuencia artificial: Péptido conector sintético"

<400> 4
Gly Gly Ser Gly Ser Gly Ser Gly
1 5

<210> 5
<211> 6
<212> PRT
<213> Secuencia artificial

<220>
<221> fuente
<223> /nota="Descripción de Secuencia artificial: Péptido conector sintético"

<400> 5
Gly Gly Ser Gly Ser Gly
1 5

<210> 6
<211> 4
<212> PRT
<213> Secuencia artificial

<220>
<221> fuente
<223> /nota="Descripción de Secuencia artificial: Péptido conector sintético"

<400> 6
Gly Gly Ser Gly
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<210> 7
<211> 8
<212> PRT
<213> Secuencia artificial

<220>
<221> fuente
<223> /nota="Descripción de Secuencia artificial: Péptido conector sintético"

<400> 7
Gly Gly Ser Gly Asn Gly Ser Gly
1 5

<210> 8
<211> 8
<212> PRT
<213> Secuencia artificial

Listado de secuencias

<220>
 <221> fuente
 <223> /nota="Descripción de Secuencia artificial: Péptido conector sintético

 <400> 8
 Gly Gly Asn Gly Ser Gly Ser Gly
 1 5

<210> 9
 <211> 6
 <212> PRT
 <213> Secuencia artificial

<220>
 <221> fuente
 <223> /nota="Descripción de Secuencia artificial: Péptido conector sintético

 <400> 9
 Gly Gly Asn Gly Ser Gly
 1 5

<210> 10
 <211> 218
 <212> PRT
 <213> Secuencia artificial

<220>
 <221> fuente
 <223> /nota="Descripción de Secuencia artificial: Fragmento de un anticuerpo del tipo Fc sintético

 <400> 10
 Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro
 1 5 10 15

Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys
 20 25 30

Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp
 35 40 45

Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu
 50 55 60

Glu Gln Tyr Ser Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu
 65 70 75 80

His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn
 85 90 95

Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly
 100 105 110

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

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115

120

125

Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr
130 135 140

Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn
145 150 155 160

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

Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn
180 185 190

Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr
195 200 205

Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
210 215

<210> 11

<211> 22

<212> PRT

<213> Secuencia artificial

<220>

<221> fuente

<223> /nota="Descripción de Secuencia artificial: Conector sintético que hace las veces de bisagra"

<400> 11

Gly Pro Gly Ser Ser Ser Ser Ser Ser Ser Gly Ser Cys Asp Lys Thr
1 5 10 15

His Thr Cys Pro Pro Cys
20

<210> 12

<211> 20

<212> PRT

<213> Secuencia artificial

<220>

<221> fuente

<223> /nota="Descripción de Secuencia artificial: Péptido señal sintético"

<400> 12

Met Glu Thr Asp Thr Leu Leu Val Phe Val Leu Leu Val Trp Val Pro
1 5 10 15

Ala Gly Asn Gly
20

Listado de secuencias

<210> 13
 <211> 15
 <212> PRT
 <213> Secuencia artificial

 <220>
 <221> fuente
 <223> /nota="Descripción de Secuencia artificial: péptido conector que comprende serina y una marca del tipo Strep "

<400> 13
 Ser Ser Ser Ser Ser Ser Ala Trp Ser His Pro Gln Phe Glu Lys
 1 5 10 15

<210> 14
 <211> 760
 <212> PRT
 <213> Secuencia artificial

<220>
 <221> fuente
 <223> /nota="Descripción de Secuencia artificial: polipéptido de fusión de cadena simple sintético "

<400> 14
 Met Glu Thr Asp Thr Leu Leu Val Phe Val Leu Leu Val Trp Val Pro
 1 5 10 15

Ala Gly Asn Gly Gln Arg Val Ala Ala His Ile Thr Gly Thr Arg Gly
 20 25 30

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

Gly Arg Lys Ile Asn Ser Trp Glu Ser Ser Arg Ser Gly His Ser Phe
 50 55 60

Leu Ser Asn Leu His Leu Arg Asn Gly Glu Leu Val Ile His Glu Lys
 65 70 75 80

Gly Phe Tyr Tyr Ile Tyr Ser Gln Thr Tyr Phe Arg Phe Gln Glu Glu
 85 90 95

Ile Lys Glu Asn Thr Lys Asn Asp Lys Gln Met Val Gln Tyr Ile Tyr
 100 105 110

Lys Tyr Thr Ser Tyr Pro Asp Pro Ile Leu Leu Met Lys Ser Ala Arg
 115 120 125

Asn Ser Cys Trp Ser Lys Asp Ala Glu Tyr Gly Leu Tyr Ser Ile Tyr
 130 135 140

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Gln Gly Gly Ile Phe Glu Leu Lys Glu Asn Asp Arg Ile Phe Val Ser
145 150 155 160

Val Thr Asn Glu His Leu Ile Asp Met Asp His Glu Ala Ser Phe Phe
165 170 175

Gly Ala Phe Leu Val Gly Gly Ser Gly Ser Gly Asn Gly Ser Arg Val
180 185 190

Ala Ala His Ile Thr Gly Thr Arg Gly Arg Ser Asn Thr Leu Ser Ser
195 200 205

Pro Asn Ser Lys Asn Glu Lys Ala Leu Gly Arg Lys Ile Asn Ser Trp
210 215 220

Glu Ser Ser Arg Ser Gly His Ser Phe Leu Ser Asn Leu His Leu Arg
225 230 235 240

Asn Gly Glu Leu Val Ile His Glu Lys Gly Phe Tyr Tyr Ile Tyr Ser
245 250 255

Gln Thr Tyr Phe Arg Phe Gln Glu Glu Ile Lys Glu Asn Thr Lys Asn
260 265 270

Asp Lys Gln Met Val Gln Tyr Ile Tyr Lys Tyr Thr Ser Tyr Pro Asp
275 280 285

Pro Ile Leu Leu Met Lys Ser Ala Arg Asn Ser Cys Trp Ser Lys Asp
290 295 300

Ala Glu Tyr Gly Leu Tyr Ser Ile Tyr Gln Gly Gly Ile Phe Glu Leu
305 310 315 320

Lys Glu Asn Asp Arg Ile Phe Val Ser Val Thr Asn Glu His Leu Ile
325 330 335

Asp Met Asp His Glu Ala Ser Phe Phe Gly Ala Phe Leu Val Gly Gly
340 345 350

Ser Gly Ser Gly Asn Gly Ser Arg Val Ala Ala His Ile Thr Gly Thr
355 360 365

Arg Gly Arg Ser Asn Thr Leu Ser Ser Pro Asn Ser Lys Asn Glu Lys
370 375 380

Ala Leu Gly Arg Lys Ile Asn Ser Trp Glu Ser Ser Arg Ser Gly His
385 390 395 400

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Ser Phe Leu Ser Asn₄₀₅ Leu His Leu Arg Asn₄₁₀ Gly Glu Leu Val Ile₄₁₅ His

Glu Lys Gly Phe₄₂₀ Tyr Tyr Ile Tyr Ser₄₂₅ Gln Thr Tyr Phe Arg₄₃₀ Phe Gln

Glu Glu Ile₄₃₅ Lys Glu Asn Thr Lys₄₄₀ Asn Asp Lys Gln Met₄₄₅ Val Gln Tyr

Ile Tyr₄₅₀ Lys Tyr Thr Ser Tyr₄₅₅ Pro Asp Pro Ile₄₆₀ Leu Leu Met Lys Ser

Ala Arg Asn Ser Cys Trp₄₇₀ Ser Lys Asp Ala Glu₄₇₅ Tyr Gly Leu Tyr Ser₄₈₀

Ile Tyr Gln Gly Gly₄₈₅ Ile Phe Glu Leu Lys₄₉₀ Glu Asn Asp Arg Ile₄₉₅ Phe

Val Ser Val Thr₅₀₀ Asn Glu His Leu Ile₅₀₅ Asp Met Asp His Glu₅₁₀ Ala Ser

Phe Phe Gly₅₁₅ Ala Phe Leu Val Gly₅₂₀ Gly Pro Gly Ser Ser₅₂₅ Ser Ser Ser

Ser Ser₅₃₀ Gly Ser Cys Asp Lys₅₃₅ Thr His Thr Cys Pro₅₄₀ Pro Cys Pro Ala

Pro Glu Leu Leu Gly Gly₅₅₀ Pro Ser Val Phe Leu₅₅₅ Phe Pro Pro Lys Pro₅₆₀

Lys Asp Thr Leu Met₅₆₅ Ile Ser Arg Thr Pro₅₇₀ Glu Val Thr Cys Val₅₇₅ Val

Val Asp Val Ser₅₈₀ His Glu Asp Pro Glu₅₈₅ Val Lys Phe Asn Trp₅₉₀ Tyr Val

Asp Gly Val₅₉₅ Glu Val His Asn Ala₆₀₀ Lys Thr Lys Pro Arg₆₀₅ Glu Glu Gln

Tyr Ser₆₁₀ Ser Thr Tyr Arg Val₆₁₅ Val Ser Val Leu Thr₆₂₀ Val Leu His Gln

Asp Trp Leu Asn Gly Lys₆₃₀ Glu Tyr Lys Cys Lys₆₃₅ Val Ser Asn Lys Ala₆₄₀

Leu Pro Ala Pro Ile₆₄₅ Glu Lys Thr Ile Ser₆₅₀ Lys Ala Lys Gly Gln₆₅₅ Pro

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Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu Met Thr
660 665 670

Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser
675 680 685

Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr
690 695 700

Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr
705 710 715 720

Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe
725 730 735

Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys
740 745 750

Ser Leu Ser Leu Ser Pro Gly Lys
755 760

<210> 15

<211> 774

<212> PRT

<213> Secuencia artificial

<220>

<221> fuente

<223> /nota="Descripción de Secuencia artificial: polipéptido de fusión de cadena simple sintético"

<400> 15

Met Glu Thr Asp Thr Leu Leu Val Phe Val Leu Leu Val Trp Val Pro
1 5 10 15

Ala Gly Asn Gly Gln Arg Val Ala Ala His Ile Thr Gly Thr Arg Gly
20 25 30

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

Gly Arg Lys Ile Asn Ser Trp Glu Ser Ser Arg Ser Gly His Ser Phe
50 55 60

Leu Ser Asn Leu His Leu Arg Asn Gly Glu Leu Val Ile His Glu Lys
65 70 75 80

Gly Phe Tyr Tyr Ile Tyr Ser Gln Thr Tyr Phe Arg Phe Gln Glu Glu
85 90 95

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Ile Lys Glu Asn Thr Lys Asn Asp Lys Gln Met Val Gln Tyr Ile Tyr
100 105 110

Lys Tyr Thr Ser Tyr Pro Asp Pro Ile Leu Leu Met Lys Ser Ala Arg
115 120 125

Asn Ser Cys Trp Ser Lys Asp Ala Glu Tyr Gly Leu Tyr Ser Ile Tyr
130 135 140

Gln Gly Gly Ile Phe Glu Leu Lys Glu Asn Asp Arg Ile Phe Val Ser
145 150 155 160

Val Thr Asn Glu His Leu Ile Asp Met Asp His Glu Ala Ser Phe Phe
165 170 175

Gly Ala Phe Leu Val Gly Gly Ser Gly Ser Gly Asn Gly Ser Arg Val
180 185 190

Ala Ala His Ile Thr Gly Thr Arg Gly Arg Ser Asn Thr Leu Ser Ser
195 200 205

Pro Asn Ser Lys Asn Glu Lys Ala Leu Gly Arg Lys Ile Asn Ser Trp
210 215 220

Glu Ser Ser Arg Ser Gly His Ser Phe Leu Ser Asn Leu His Leu Arg
225 230 235 240

Asn Gly Glu Leu Val Ile His Glu Lys Gly Phe Tyr Tyr Ile Tyr Ser
245 250 255

Gln Thr Tyr Phe Arg Phe Gln Glu Glu Ile Lys Glu Asn Thr Lys Asn
260 265 270

Asp Lys Gln Met Val Gln Tyr Ile Tyr Lys Tyr Thr Ser Tyr Pro Asp
275 280 285

Pro Ile Leu Leu Met Lys Ser Ala Arg Asn Ser Cys Trp Ser Lys Asp
290 295 300

Ala Glu Tyr Gly Leu Tyr Ser Ile Tyr Gln Gly Gly Ile Phe Glu Leu
305 310 315 320

Lys Glu Asn Asp Arg Ile Phe Val Ser Val Thr Asn Glu His Leu Ile
325 330 335

Asp Met Asp His Glu Ala Ser Phe Phe Gly Ala Phe Leu Val Gly Gly
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340

345

350

Ser Gly Ser Gly Asn Gly Ser Arg Val Ala Ala His Ile Thr Gly Thr
355 360 365

Arg Gly Arg Ser Asn Thr Leu Ser Ser Pro Asn Ser Lys Asn Glu Lys
370 375 380

Ala Leu Gly Arg Lys Ile Asn Ser Trp Glu Ser Ser Arg Ser Gly His
385 390 395 400

Ser Phe Leu Ser Asn Leu His Leu Arg Asn Gly Glu Leu Val Ile His
405 410 415

Glu Lys Gly Phe Tyr Tyr Ile Tyr Ser Gln Thr Tyr Phe Arg Phe Gln
420 425 430

Glu Glu Ile Lys Glu Asn Thr Lys Asn Asp Lys Gln Met Val Gln Tyr
435 440 445

Ile Tyr Lys Tyr Thr Ser Tyr Pro Asp Pro Ile Leu Leu Met Lys Ser
450 455 460

Ala Arg Asn Ser Cys Trp Ser Lys Asp Ala Glu Tyr Gly Leu Tyr Ser
465 470 475 480

Ile Tyr Gln Gly Gly Ile Phe Glu Leu Lys Glu Asn Asp Arg Ile Phe
485 490 495

Val Ser Val Thr Asn Glu His Leu Ile Asp Met Asp His Glu Ala Ser
500 505 510

Phe Phe Gly Ala Phe Leu Val Gly Gly Pro Gly Ser Ser Ser Ser
515 520 525

Ser Ser Gly Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala
530 535 540

Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro
545 550 555 560

Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val
565 570 575

Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val
580 585 590

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Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln
595 600 605

Tyr Ser Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln
610 615 620

Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala
625 630 635 640

Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro
645 650 655

Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu Met Thr
660 665 670

Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser
675 680 685

Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr
690 695 700

Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr
705 710 715 720

Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe
725 730 735

Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys
740 745 750

Ser Leu Ser Leu Ser Pro Gly Ser Ser Ser Ser Ser Ser Ala Trp Ser
755 760 765

His Pro Gln Phe Glu Lys
770

<210> 16

<211> 2316

<212> DNA

<213> Secuencia artificial

<220>

<221> fuente

<223> /nota="Descripción de Secuencia artificial: secuencia de un polinucleótido de ADN sintético que codifica un polipéptido de fusión de cadena simple

<400> 16

gatatcggtta ccgccaccat ggaaaccgac accctgctgg tggtcgtgct gctcgtgtgg 60

gtgccagccg gcaatggaca gagagtggcc gctcatatca ccggcaccgc gggcagatct 120

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aacaccctgt	ccagcccca	ctccaagaac	gagaaggccc	tgggccggaa	gatcaactcc	180
tgggagtcct	ccagatccgg	ccactccttt	ctgtccaacc	tgcacctgag	aaacggcgag	240
ctggatcatcc	acgagaaggg	cttctactac	atctactccc	agacctactt	caggtttcag	300
gaagagatca	aagagaacac	aaagaacgac	aagcagatgg	tgcagtatat	ctacaagtac	360
acctcctacc	ccgaccccat	cctgctgatg	aagtccgccc	ggaactcctg	ctggccaag	420
gatgctgagt	acggcctgta	cagcatctac	cagggcgcca	tcttcgagct	gaaagagaac	480
gaccggatct	tcgtgtccgt	gaccaacgag	cacctgatcg	acatggacca	cgaggccagc	540
tttttcggcg	cctttctcgt	gggcggatcc	ggaagcggaa	acggcagtag	agtggctgcc	600
cacattaccg	gaaccagagg	ccggtccaac	accctgagca	gccctaacag	caaaaatgag	660
aaagctctcg	ggcgcaagat	caacagctgg	gaatctagca	gaagcggcca	cagctttctg	720
agcaatctgc	atctgcggaa	cggcgaactc	gtgattcatg	agaaggggtt	ttattatatc	780
tatagccaga	catactttcg	attccaggag	gaaatcaagg	aaaacaccaa	aatgataaa	840
cagatgggcc	agtacattta	taagtatacc	agctaccctg	atcctatcct	cctcatgaag	900
tctgccagaa	actcttggtg	gagcaaggac	gccgagtatg	gactgtactc	tatctatcag	960
ggggggatct	ttgaactcaa	agaaaacgat	cgcacttttg	tcagcgtcac	caatgagcat	1020
ctcattgata	tggatcatga	agctagtttc	ttcggggcat	tcctcgtggg	aggctccggc	1080
tctggcaacg	gatctagagt	cgccgcacac	atcacaggga	ccagaggcag	aagcaatacc	1140
ctgtcctccc	caaatagtaa	aaacgaaaag	gcactcggcc	gcaaaattaa	ttcctgggag	1200
agcagcagat	ccgggcacag	ttttctgtct	aatctccatc	tgaggaatgg	ggagctggtg	1260
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attaaggaaa	atacaaaaa	cgacaagcag	atgggtccagt	acatctataa	atacacctct	1380
tatcctgacc	caattctgct	catgaagagt	gcccgcacaa	gctgctggtc	taaagacgcc	1440
gaatacgggc	tgtattccat	ttaccagggg	ggaatttttg	agctgaagga	aatgatcgg	1500
atttttgtct	ctgtcacaaa	cgaacacctc	atcgatatgg	atcacgaagc	ctctttcttt	1560
ggcgcttcc	tggtcggagg	ccctggctcg	agttccagct	cctcttctgg	ctcctgcgac	1620
aagaccacac	cctgtccccc	ttgtcctgcc	cctgaactgc	tgggcggacc	ttccgtgttc	1680
ctgttccccc	caaagcccaa	ggacaccctg	atgatctccc	ggacccccga	agtgacctgc	1740
gtggtggtgg	atgtgtctca	cgaggaccct	gaagtgaagt	tcaattggta	cgtggacggc	1800
gtggaagtgc	acaacgccaa	gaccaagccc	agagagggaac	agtactcctc	cacctaccgg	1860
gtggtgtctg	tgctgaccgt	gctgcaccag	gactggctga	acggcaaaga	gtacaagtgc	1920
aagggtgtcca	acaaggccct	gcctgcccc	atcgaaaaga	ccatctccaa	ggccaagggc	1980
cagccccggg	aaccccaggt	gtacacactg	ccccctagcc	gggaagagat	gaccaagaac	2040

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caggtgtccc tgacctgcct ggtcaagggc ttttaccctt ccgacattgc cgtggaatgg 2100
gagtccaacg gccagcctga gaacaactac aagaccaccc cccctgtgct ggactccgac 2160
ggctcattct tcctgtactc caagctgaca gtggacaagt cccggtggca gcagggcaac 2220
gtgttctcct gctccgtgat gcacgaggcc ctgcacaacc actacacca gaagtccttg 2280
tccctgagcc ccggcaaatg atagaagctt gatatc 2316

<210> 17

<211> 217

<212> PRT

<213> Secuencia artificial

<220>

<221> fuente

<223> /nota="Descripción de Secuencia artificial: polipéptido que es una variante mutada de un fragmento Fc humano sintético"

<400> 17

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

Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val
20 25 30

Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr
35 40 45

Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu
50 55 60

Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His
65 70 75 80

Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys
85 90 95

Gly Leu Pro Ser Ser Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln
100 105 110

Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu Met
115 120 125

Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro
130 135 140

Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn
145 150 155 160

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

Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val
180 185 190

Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln
195 200 205

Lys Ser Leu Ser Leu Ser Pro Gly Lys
210 215

<210> 18

<211> 759

<212> PRT

<213> Secuencia artificial

<220>

<221> fuente

<223> /nota="Descripción de Secuencia artificial: polipéptido sintético

<400> 18

Met Glu Thr Asp Thr Leu Leu Val Phe Val Leu Leu Val Trp Val Pro
1 5 10 15

Ala Gly Asn Gly Gln Arg Val Ala Ala His Ile Thr Gly Thr Arg Gly
20 25 30

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

Gly Arg Lys Ile Asn Ser Trp Glu Ser Ser Arg Ser Gly His Ser Phe
50 55 60

Leu Ser Asn Leu His Leu Arg Asn Gly Glu Leu Val Ile His Glu Lys
65 70 75 80

Gly Phe Tyr Tyr Ile Tyr Ser Gln Thr Tyr Phe Arg Phe Gln Glu Glu
85 90 95

Ile Lys Glu Asn Thr Lys Asn Asp Lys Gln Met Val Gln Tyr Ile Tyr
100 105 110

Lys Tyr Thr Ser Tyr Pro Asp Pro Ile Leu Leu Met Lys Ser Ala Arg
115 120 125

Asn Ser Cys Trp Ser Lys Asp Ala Glu Tyr Gly Leu Tyr Ser Ile Tyr
130 135 140

Gln Gly Gly Ile Phe Glu Leu Lys Glu Asn Asp Arg Ile Phe Val Ser
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145						150						155						160
Val	Thr	Asn	Glu	His	Leu	Ile	Asp	Met	Asp	His	Glu	Ala	Ser	Phe	Phe			
				165					170					175				
Gly	Ala	Phe	Leu	Val	Gly	Gly	Ser	Gly	Ser	Gly	Asn	Gly	Ser	Arg	Val			
			180					185					190					
Ala	Ala	His	Ile	Thr	Gly	Thr	Arg	Gly	Arg	Ser	Asn	Thr	Leu	Ser	Ser			
		195					200					205						
Pro	Asn	Ser	Lys	Asn	Glu	Lys	Ala	Leu	Gly	Arg	Lys	Ile	Asn	Ser	Trp			
	210					215					220							
Glu	Ser	Ser	Arg	Ser	Gly	His	Ser	Phe	Leu	Ser	Asn	Leu	His	Leu	Arg			
225					230					235					240			
Asn	Gly	Glu	Leu	Val	Ile	His	Glu	Lys	Gly	Phe	Tyr	Tyr	Ile	Tyr	Ser			
				245					250					255				
Gln	Thr	Tyr	Phe	Arg	Phe	Gln	Glu	Glu	Ile	Lys	Glu	Asn	Thr	Lys	Asn			
			260					265					270					
Asp	Lys	Gln	Met	Val	Gln	Tyr	Ile	Tyr	Lys	Tyr	Thr	Ser	Tyr	Pro	Asp			
		275					280					285						
Pro	Ile	Leu	Leu	Met	Lys	Ser	Ala	Arg	Asn	Ser	Cys	Trp	Ser	Lys	Asp			
	290					295					300							
Ala	Glu	Tyr	Gly	Leu	Tyr	Ser	Ile	Tyr	Gln	Gly	Gly	Ile	Phe	Glu	Leu			
305					310					315					320			
Lys	Glu	Asn	Asp	Arg	Ile	Phe	Val	Ser	Val	Thr	Asn	Glu	His	Leu	Ile			
				325					330					335				
Asp	Met	Asp	His	Glu	Ala	Ser	Phe	Phe	Gly	Ala	Phe	Leu	Val	Gly	Gly			
			340					345					350					
Ser	Gly	Ser	Gly	Asn	Gly	Ser	Arg	Val	Ala	Ala	His	Ile	Thr	Gly	Thr			
		355					360					365						
Arg	Gly	Arg	Ser	Asn	Thr	Leu	Ser	Ser	Pro	Asn	Ser	Lys	Asn	Glu	Lys			
	370					375					380							
Ala	Leu	Gly	Arg	Lys	Ile	Asn	Ser	Trp	Glu	Ser	Ser	Arg	Ser	Gly	His			
385					390					395					400			

Listado de secuencias

Ser Phe Leu Ser Asn 405 Leu His Leu Arg Asn 410 Gly Glu Leu Val Ile His 415

Glu Lys Gly Phe 420 Tyr Tyr Ile Tyr Ser 425 Gln Thr Tyr Phe Arg 430 Phe Gln

Glu Glu Ile 435 Lys Glu Asn Thr Lys 440 Asn Asp Lys Gln Met 445 Val Gln Tyr

Ile Tyr 450 Lys Tyr Thr Ser Tyr 455 Pro Asp Pro Ile Leu 460 Leu Met Lys Ser

Ala Arg Asn Ser Cys Trp 470 Ser Lys Asp Ala Glu 475 Tyr Gly Leu Tyr Ser 480

Ile Tyr Gln Gly Gly 485 Ile Phe Glu Leu Lys 490 Glu Asn Asp Arg Ile 495 Phe

Val Ser Val Thr 500 Asn Glu His Leu Ile 505 Asp Met Asp His Glu 510 Ala Ser

Phe Phe Gly 515 Ala Phe Leu Val Gly 520 Gly Pro Gly Ser Ser 525 Ser Ser Ser

Ser Ser Gly 530 Ser Cys Asp Lys 535 Thr His Thr Cys Pro 540 Pro Cys Pro Ala

Pro 545 Pro Val Ala Gly Pro 550 Ser Val Phe Leu Phe 555 Pro Pro Lys Pro Lys 560

Asp Thr Leu Met Ile 565 Ser Arg Thr Pro Glu 570 Val Thr Cys Val Val 575 Val

Asp Val Ser His 580 Glu Asp Pro Glu Val 585 Lys Phe Asn Trp Tyr 590 Val Asp

Gly Val Glu 595 Val His Asn Ala Lys 600 Thr Lys Pro Arg Glu 605 Glu Gln Tyr

Asn Ser 610 Thr Tyr Arg Val Val 615 Ser Val Leu Thr Val 620 Leu His Gln Asp

Trp 625 Leu Asn Gly Lys Glu 630 Tyr Lys Cys Lys Val 635 Ser Asn Lys Gly Leu 640

Pro Ser Ser Ile Glu 645 Lys Thr Ile Ser Lys 650 Ala Lys Gly Gln Pro 655 Arg

Listado de secuencias

Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu Met Thr Lys
660 665 670

Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp
675 680 685

Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys
690 695 700

Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser
705 710 715 720

Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser
725 730 735

Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser
740 745 750

Leu Ser Leu Ser Pro Gly Lys
755

<210> 19

<211> 740

<212> PRT

<213> Secuencia artificial

<220>

<221> fuente

<223> /nota="Descripción de Secuencia artificial: polipéptido sintético

<400> 19

Gln Arg Val Ala Ala His Ile Thr Gly Thr Arg Gly Arg Ser Asn Thr
1 5 10 15

Leu Ser Ser Pro Asn Ser Lys Asn Glu Lys Ala Leu Gly Arg Lys Ile
20 25 30

Asn Ser Trp Glu Ser Ser Arg Ser Gly His Ser Phe Leu Ser Asn Leu
35 40 45

His Leu Arg Asn Gly Glu Leu Val Ile His Glu Lys Gly Phe Tyr Tyr
50 55 60

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

Thr Lys Asn Asp Lys Gln Met Val Gln Tyr Ile Tyr Lys Tyr Thr Ser
85 90 95

Listado de secuencias

Tyr Pro Asp Pro Ile Leu Leu Met Lys Ser Ala Arg Asn Ser Cys Trp
 100 105 110
 Ser Lys Asp Ala Glu Tyr Gly Leu Tyr Ser Ile Tyr Gln Gly Gly Ile
 115 120 125
 Phe Glu Leu Lys Glu Asn Asp Arg Ile Phe Val Ser Val Thr Asn Glu
 130 135 140
 His Leu Ile Asp Met Asp His Glu Ala Ser Phe Phe Gly Ala Phe Leu
 145 150 155 160
 Val Gly Gly Ser Gly Ser Gly Asn Gly Ser Arg Val Ala Ala His Ile
 165 170 175
 Thr Gly Thr Arg Gly Arg Ser Asn Thr Leu Ser Ser Pro Asn Ser Lys
 180 185 190
 Asn Glu Lys Ala Leu Gly Arg Lys Ile Asn Ser Trp Glu Ser Ser Arg
 195 200 205
 Ser Gly His Ser Phe Leu Ser Asn Leu His Leu Arg Asn Gly Glu Leu
 210 215 220
 Val Ile His Glu Lys Gly Phe Tyr Tyr Ile Tyr Ser Gln Thr Tyr Phe
 225 230 235 240
 Arg Phe Gln Glu Glu Ile Lys Glu Asn Thr Lys Asn Asp Lys Gln Met
 245 250 255
 Val Gln Tyr Ile Tyr Lys Tyr Thr Ser Tyr Pro Asp Pro Ile Leu Leu
 260 265 270
 Met Lys Ser Ala Arg Asn Ser Cys Trp Ser Lys Asp Ala Glu Tyr Gly
 275 280 285
 Leu Tyr Ser Ile Tyr Gln Gly Gly Ile Phe Glu Leu Lys Glu Asn Asp
 290 295 300
 Arg Ile Phe Val Ser Val Thr Asn Glu His Leu Ile Asp Met Asp His
 305 310 315 320
 Glu Ala Ser Phe Phe Gly Ala Phe Leu Val Gly Gly Ser Gly Ser Gly
 325 330 335
 Asn Gly Ser Arg Val Ala Ala His Ile Thr Gly Thr Arg Gly Arg Ser
 340 345 350

Listado de secuencias

Asn Thr Leu Ser Ser Pro Asn Ser Lys Asn Glu Lys Ala Leu Gly Arg
355 360 365

Lys Ile Asn Ser Trp Glu Ser Ser Arg Ser Gly His Ser Phe Leu Ser
370 375 380

Asn Leu His Leu Arg Asn Gly Glu Leu Val Ile His Glu Lys Gly Phe
385 390 395 400

Tyr Tyr Ile Tyr Ser Gln Thr Tyr Phe Arg Phe Gln Glu Glu Ile Lys
405 410 415

Glu Asn Thr Lys Asn Asp Lys Gln Met Val Gln Tyr Ile Tyr Lys Tyr
420 425 430

Thr Ser Tyr Pro Asp Pro Ile Leu Leu Met Lys Ser Ala Arg Asn Ser
435 440 445

Cys Trp Ser Lys Asp Ala Glu Tyr Gly Leu Tyr Ser Ile Tyr Gln Gly
450 455 460

Gly Ile Phe Glu Leu Lys Glu Asn Asp Arg Ile Phe Val Ser Val Thr
465 470 475 480

Asn Glu His Leu Ile Asp Met Asp His Glu Ala Ser Phe Phe Gly Ala
485 490 495

Phe Leu Val Gly Gly Pro Gly Ser Ser Ser Ser Ser Ser Gly Ser
500 505 510

Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu
515 520 525

Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu
530 535 540

Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser
545 550 555 560

His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu
565 570 575

Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Ser Ser Thr
580 585 590

Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn
595 600 605

Listado de secuencias

Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro
610 615 620

Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln
625 630 635 640

Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu Met Thr Lys Asn Gln Val
645 650 655

Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val
660 665 670

Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro
675 680 685

Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr
690 695 700

Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val
705 710 715 720

Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu
725 730 735

Ser Pro Gly Lys
740

<210> 20

<211> 754

<212> PRT

<213> Secuencia artificial

<220>

<221> fuente

<223> /nota="Descripción de secuencia artificial: polipéptido sintético"

<400> 20

Gln Arg Val Ala Ala His Ile Thr Gly Thr Arg Gly Arg Ser Asn Thr
1 5 10 15

Leu Ser Ser Pro Asn Ser Lys Asn Glu Lys Ala Leu Gly Arg Lys Ile
20 25 30

Asn Ser Trp Glu Ser Ser Arg Ser Gly His Ser Phe Leu Ser Asn Leu
35 40 45

His Leu Arg Asn Gly Glu Leu Val Ile His Glu Lys Gly Phe Tyr Tyr
50 55 60

Listado de secuencias

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

Thr Lys Asn Asp Lys Gln Met Val Gln Tyr Ile Tyr Lys Tyr Thr Ser
85 90 95

Tyr Pro Asp Pro Ile Leu Leu Met Lys Ser Ala Arg Asn Ser Cys Trp
100 105 110

Ser Lys Asp Ala Glu Tyr Gly Leu Tyr Ser Ile Tyr Gln Gly Gly Ile
115 120 125

Phe Glu Leu Lys Glu Asn Asp Arg Ile Phe Val Ser Val Thr Asn Glu
130 135 140

His Leu Ile Asp Met Asp His Glu Ala Ser Phe Phe Gly Ala Phe Leu
145 150 155 160

Val Gly Gly Ser Gly Ser Gly Asn Gly Ser Arg Val Ala Ala His Ile
165 170 175

Thr Gly Thr Arg Gly Arg Ser Asn Thr Leu Ser Ser Pro Asn Ser Lys
180 185 190

Asn Glu Lys Ala Leu Gly Arg Lys Ile Asn Ser Trp Glu Ser Ser Arg
195 200 205

Ser Gly His Ser Phe Leu Ser Asn Leu His Leu Arg Asn Gly Glu Leu
210 215 220

Val Ile His Glu Lys Gly Phe Tyr Tyr Ile Tyr Ser Gln Thr Tyr Phe
225 230 235 240

Arg Phe Gln Glu Glu Ile Lys Glu Asn Thr Lys Asn Asp Lys Gln Met
245 250 255

Val Gln Tyr Ile Tyr Lys Tyr Thr Ser Tyr Pro Asp Pro Ile Leu Leu
260 265 270

Met Lys Ser Ala Arg Asn Ser Cys Trp Ser Lys Asp Ala Glu Tyr Gly
275 280 285

Leu Tyr Ser Ile Tyr Gln Gly Gly Ile Phe Glu Leu Lys Glu Asn Asp
290 295 300

Arg Ile Phe Val Ser Val Thr Asn Glu His Leu Ile Asp Met Asp His
305 310 315 320

Listado de secuencias

Glu Ala Ser Phe Phe Gly Ala Phe Leu Val Gly Gly Ser Gly Ser Gly
325 330 335

Asn Gly Ser Arg Val Ala Ala His Ile Thr Gly Thr Arg Gly Arg Ser
340 345 350

Asn Thr Leu Ser Ser Pro Asn Ser Lys Asn Glu Lys Ala Leu Gly Arg
355 360 365

Lys Ile Asn Ser Trp Glu Ser Ser Arg Ser Gly His Ser Phe Leu Ser
370 375 380

Asn Leu His Leu Arg Asn Gly Glu Leu Val Ile His Glu Lys Gly Phe
385 390 395 400

Tyr Tyr Ile Tyr Ser Gln Thr Tyr Phe Arg Phe Gln Glu Glu Ile Lys
405 410 415

Glu Asn Thr Lys Asn Asp Lys Gln Met Val Gln Tyr Ile Tyr Lys Tyr
420 425 430

Thr Ser Tyr Pro Asp Pro Ile Leu Leu Met Lys Ser Ala Arg Asn Ser
435 440 445

Cys Trp Ser Lys Asp Ala Glu Tyr Gly Leu Tyr Ser Ile Tyr Gln Gly
450 455 460

Gly Ile Phe Glu Leu Lys Glu Asn Asp Arg Ile Phe Val Ser Val Thr
465 470 475 480

Asn Glu His Leu Ile Asp Met Asp His Glu Ala Ser Phe Phe Gly Ala
485 490 495

Phe Leu Val Gly Gly Pro Gly Ser Ser Ser Ser Ser Ser Gly Ser
500 505 510

Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu
515 520 525

Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu
530 535 540

Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser
545 550 555 560

His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu
565 570 575

Listado de secuencias

Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Ser Ser Thr
580 585 590

Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn
595 600 605

Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro
610 615 620

Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln
625 630 635 640

Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu Met Thr Lys Asn Gln Val
645 650 655

Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val
660 665 670

Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro
675 680 685

Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr
690 695 700

Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val
705 710 715 720

Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu
725 730 735

Ser Pro Gly Ser Ser Ser Ser Ser Ser Ala Trp Ser His Pro Gln Phe
740 745 750

Glu Lys

<210> 21

<211> 739

<212> PRT

<213> Secuencia artificial

<220>

<221> fuente

<223> /nota="Descripción de Secuencia artificial: Polipéptido sintético"

<400> 21

Gln Arg Val Ala Ala His Ile Thr Gly Thr Arg Gly Arg Ser Asn Thr
1 5 10 15

Listado de secuencias

Leu Ser Ser Pro Asn Ser Lys Asn Glu Lys Ala Leu Gly Arg Lys Ile
 20 25 30
 Asn Ser Trp Glu Ser Ser Arg Ser Gly His Ser Phe Leu Ser Asn Leu
 35 40 45
 His Leu Arg Asn Gly Glu Leu Val Ile His Glu Lys Gly Phe Tyr Tyr
 50 55 60
 Ile Tyr Ser Gln Thr Tyr Phe Arg Phe Gln Glu Glu Ile Lys Glu Asn
 65 70 75 80
 Thr Lys Asn Asp Lys Gln Met Val Gln Tyr Ile Tyr Lys Tyr Thr Ser
 85 90 95
 Tyr Pro Asp Pro Ile Leu Leu Met Lys Ser Ala Arg Asn Ser Cys Trp
 100 105 110
 Ser Lys Asp Ala Glu Tyr Gly Leu Tyr Ser Ile Tyr Gln Gly Gly Ile
 115 120 125
 Phe Glu Leu Lys Glu Asn Asp Arg Ile Phe Val Ser Val Thr Asn Glu
 130 135 140
 His Leu Ile Asp Met Asp His Glu Ala Ser Phe Phe Gly Ala Phe Leu
 145 150 155 160
 Val Gly Gly Ser Gly Ser Gly Asn Gly Ser Arg Val Ala Ala His Ile
 165 170 175
 Thr Gly Thr Arg Gly Arg Ser Asn Thr Leu Ser Ser Pro Asn Ser Lys
 180 185 190
 Asn Glu Lys Ala Leu Gly Arg Lys Ile Asn Ser Trp Glu Ser Ser Arg
 195 200 205
 Ser Gly His Ser Phe Leu Ser Asn Leu His Leu Arg Asn Gly Glu Leu
 210 215 220
 Val Ile His Glu Lys Gly Phe Tyr Tyr Ile Tyr Ser Gln Thr Tyr Phe
 225 230 235 240
 Arg Phe Gln Glu Glu Ile Lys Glu Asn Thr Lys Asn Asp Lys Gln Met
 245 250 255
 Val Gln Tyr Ile Tyr Lys Tyr Thr Ser Tyr Pro Asp Pro Ile Leu Leu
 260 265 270

Listado de secuencias

Met Lys Ser Ala Arg Asn Ser Cys Trp Ser Lys Asp Ala Glu Tyr Gly
275 280 285

Leu Tyr Ser Ile Tyr Gln Gly Gly Ile Phe Glu Leu Lys Glu Asn Asp
290 295 300

Arg Ile Phe Val Ser Val Thr Asn Glu His Leu Ile Asp Met Asp His
305 310 315 320

Glu Ala Ser Phe Phe Gly Ala Phe Leu Val Gly Gly Ser Gly Ser Gly
325 330 335

Asn Gly Ser Arg Val Ala Ala His Ile Thr Gly Thr Arg Gly Arg Ser
340 345 350

Asn Thr Leu Ser Ser Pro Asn Ser Lys Asn Glu Lys Ala Leu Gly Arg
355 360 365

Lys Ile Asn Ser Trp Glu Ser Ser Arg Ser Gly His Ser Phe Leu Ser
370 375 380

Asn Leu His Leu Arg Asn Gly Glu Leu Val Ile His Glu Lys Gly Phe
385 390 395 400

Tyr Tyr Ile Tyr Ser Gln Thr Tyr Phe Arg Phe Gln Glu Glu Ile Lys
405 410 415

Glu Asn Thr Lys Asn Asp Lys Gln Met Val Gln Tyr Ile Tyr Lys Tyr
420 425 430

Thr Ser Tyr Pro Asp Pro Ile Leu Leu Met Lys Ser Ala Arg Asn Ser
435 440 445

Cys Trp Ser Lys Asp Ala Glu Tyr Gly Leu Tyr Ser Ile Tyr Gln Gly
450 455 460

Gly Ile Phe Glu Leu Lys Glu Asn Asp Arg Ile Phe Val Ser Val Thr
465 470 475 480

Asn Glu His Leu Ile Asp Met Asp His Glu Ala Ser Phe Phe Gly Ala
485 490 495

Phe Leu Val Gly Gly Pro Gly Ser Ser Ser Ser Ser Ser Gly Ser
500 505 510

Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Pro Val Ala

Listado de secuencias

515

520

525

Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met
530 535 540

Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His
545 550 555 560

Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val
565 570 575

His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr
580 585 590

Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly
595 600 605

Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Gly Leu Pro Ser Ser Ile
610 615 620

Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val
625 630 635 640

Tyr Thr Leu Pro Pro Ser Arg Glu Glu Met Thr Lys Asn Gln Val Ser
645 650 655

Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu
660 665 670

Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro
675 680 685

Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val
690 695 700

Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met
705 710 715 720

His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser
725 730 735

Pro Gly Lys

<210> 22

<211> 6

<212> PRT

<213> Secuencia artificial

Listado de secuencias

<220>
 <221> fuente
 <223> /nota="Descripción de Secuencia artificial: Péptido sintético"

<400> 22
 Gly Ser Gly Ser Gly Ser
 1 5

<210> 23
 <211> 4
 <212> PRT
 <213> Secuencia artificial

<220>
 <221> fuente
 <223> /nota="Descripción de Secuencia artificial: Péptido sintético"

<400> 23
 Gly Ser Gly Ser
 1

<210> 24
 <211> 3
 <212> PRT
 <213> Secuencia artificial

<220>
 <221> fuente
 <223> /nota="Descripción de Secuencia artificial: Péptido sintético"

<400> 24
 Gly Ser Gly
 1

<210> 25
 <211> 21
 <212> PRT
 <213> Secuencia artificial

<220>
 <221> fuente
 <223> /nota="Descripción de Secuencia artificial: Péptido sintético"

<400> 25
 Gly Pro Gly Ser Ser Ser Ser Ser Ser Gly Ser Cys Asp Lys Thr His
 1 5 10 15

Thr Cys Pro Pro Cys
 20

<210> 26
 <211> 751
 <212> PRT
 <213> Secuencia artificial

<220>
 <221> fuente

Listado de secuencias

<223> /nota="Descripción de Secuencia artificial: Polipéptido sintético"

<400> 26

Gln Arg Val Ala Ala His Ile Thr Gly Thr Arg Gly Arg Ser Asn Thr
1 5 10 15

Leu Ser Ser Pro Asn Ser Lys Asn Glu Lys Ala Leu Gly Arg Lys Ile
20 25 30

Asn Ser Trp Glu Ser Ser Arg Ser Gly His Ser Phe Leu Ser Asn Leu
35 40 45

His Leu Arg Asn Gly Glu Leu Val Ile His Glu Lys Gly Phe Tyr Tyr
50 55 60

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

Thr Lys Asn Asp Lys Gln Met Val Gln Tyr Ile Tyr Lys Tyr Thr Ser
85 90 95

Tyr Pro Asp Pro Ile Leu Leu Met Lys Ser Ala Arg Asn Ser Cys Trp
100 105 110

Ser Lys Asp Ala Glu Tyr Gly Leu Tyr Ser Ile Tyr Gln Gly Gly Ile
115 120 125

Phe Glu Leu Lys Glu Asn Asp Arg Ile Phe Val Ser Val Thr Asn Glu
130 135 140

His Leu Ile Asp Met Asp His Glu Ala Ser Phe Phe Gly Ala Phe Leu
145 150 155 160

Val Gly Gly Ser Gly Ser Gly Asn Gly Ser Arg Val Ala Ala His Ile
165 170 175

Thr Gly Thr Arg Gly Arg Ser Asn Thr Leu Ser Ser Pro Asn Ser Lys
180 185 190

Asn Glu Lys Ala Leu Gly Arg Lys Ile Asn Ser Trp Glu Ser Ser Arg
195 200 205

Ser Gly His Ser Phe Leu Ser Asn Leu His Leu Arg Asn Gly Glu Leu
210 215 220

Val Ile His Glu Lys Gly Phe Tyr Tyr Ile Tyr Ser Gln Thr Tyr Phe
225 230 235 240

Listado de secuencias

Arg Phe Gln Glu Glu Ile Lys Glu Asn Thr Lys Asn Asp Lys Gln Met
245 250 255

Val Gln Tyr Ile Tyr Lys Tyr Thr Ser Tyr Pro Asp Pro Ile Leu Leu
260 265 270

Met Lys Ser Ala Arg Asn Ser Cys Trp Ser Lys Asp Ala Glu Tyr Gly
275 280 285

Leu Tyr Ser Ile Tyr Gln Gly Gly Ile Phe Glu Leu Lys Glu Asn Asp
290 295 300

Arg Ile Phe Val Ser Val Thr Asn Glu His Leu Ile Asp Met Asp His
305 310 315 320

Glu Ala Ser Phe Phe Gly Ala Phe Leu Val Gly Gly Ser Gly Ser Gly
325 330 335

Asn Gly Ser Arg Val Ala Ala His Ile Thr Gly Thr Arg Gly Arg Ser
340 345 350

Asn Thr Leu Ser Ser Pro Asn Ser Lys Asn Glu Lys Ala Leu Gly Arg
355 360 365

Lys Ile Asn Ser Trp Glu Ser Ser Arg Ser Gly His Ser Phe Leu Ser
370 375 380

Asn Leu His Leu Arg Asn Gly Glu Leu Val Ile His Glu Lys Gly Phe
385 390 395 400

Tyr Tyr Ile Tyr Ser Gln Thr Tyr Phe Arg Phe Gln Glu Glu Ile Lys
405 410 415

Glu Asn Thr Lys Asn Asp Lys Gln Met Val Gln Tyr Ile Tyr Lys Tyr
420 425 430

Thr Ser Tyr Pro Asp Pro Ile Leu Leu Met Lys Ser Ala Arg Asn Ser
435 440 445

Cys Trp Ser Lys Asp Ala Glu Tyr Gly Leu Tyr Ser Ile Tyr Gln Gly
450 455 460

Gly Ile Phe Glu Leu Lys Glu Asn Asp Arg Ile Phe Val Ser Val Thr
465 470 475 480

Asn Glu His Leu Ile Asp Met Asp His Glu Ala Ser Phe Phe Gly Ala
485 490 495

Listado de secuencias

Phe Leu Val Gly Gly Pro Gly Ser Ser Ser Ser Ser Gly Ser Asp
 500 505 510
 Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Pro Val Ala Gly Pro
 515 520 525
 Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser
 530 535 540
 Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His Glu Asp
 545 550 555 560
 Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn
 565 570 575
 Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val
 580 585 590
 Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu
 595 600 605
 Tyr Lys Cys Lys Val Ser Asn Lys Gly Leu Pro Ser Ser Ile Glu Lys
 610 615 620
 Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr
 625 630 635 640
 Leu Pro Pro Ser Arg Glu Glu Met Thr Lys Asn Gln Val Ser Leu Thr
 645 650 655
 Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu
 660 665 670
 Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu
 675 680 685
 Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys
 690 695 700
 Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu
 705 710 715 720
 Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly
 725 730 735
 Ser Ser Ser Ser Ser Ala Trp Ser His Pro Gln Phe Glu Lys
 740 745 750

Listado de secuencias

<210> 27
 <211> 750
 <212> PRT
 <213> Secuencia artificial

 <220>
 <221> fuente
 <223> /nota="Descripción de Secuencia artificial: Polipéptido sintético"

 <400> 27
 Gln Arg Val Ala Ala His Ile Thr Gly Thr Arg Gly Arg Ser Asn Thr
 1 5 10 15

 Leu Ser Ser Pro Asn Ser Lys Asn Glu Lys Ala Leu Gly Arg Lys Ile
 20 25 30

 Asn Ser Trp Glu Ser Ser Arg Ser Gly His Ser Phe Leu Ser Asn Leu
 35 40 45

 His Leu Arg Asn Gly Glu Leu Val Ile His Glu Lys Gly Phe Tyr Tyr
 50 55 60

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

 Thr Lys Asn Asp Lys Gln Met Val Gln Tyr Ile Tyr Lys Tyr Thr Ser
 85 90 95

 Tyr Pro Asp Pro Ile Leu Leu Met Lys Ser Ala Arg Asn Ser Cys Trp
 100 105 110

 Ser Lys Asp Ala Glu Tyr Gly Leu Tyr Ser Ile Tyr Gln Gly Gly Ile
 115 120 125

 Phe Glu Leu Lys Glu Asn Asp Arg Ile Phe Val Ser Val Thr Asn Glu
 130 135 140

 His Leu Ile Asp Met Asp His Glu Ala Ser Phe Phe Gly Ala Phe Leu
 145 150 155 160

 Val Gly Gly Ser Gly Ser Gly Asn Gly Ser Arg Val Ala Ala His Ile
 165 170 175

 Thr Gly Thr Arg Gly Arg Ser Asn Thr Leu Ser Ser Pro Asn Ser Lys
 180 185 190

 Asn Glu Lys Ala Leu Gly Arg Lys Ile Asn Ser Trp Glu Ser Ser Arg
 195 200 205

Listado de secuencias

Ser Gly His Ser Phe Leu Ser Asn Leu His Leu Arg Asn Gly Glu Leu
210 215 220

Val Ile His Glu Lys Gly Phe Tyr Tyr Ile Tyr Ser Gln Thr Tyr Phe
225 230 235 240

Arg Phe Gln Glu Glu Ile Lys Glu Asn Thr Lys Asn Asp Lys Gln Met
245 250 255

Val Gln Tyr Ile Tyr Lys Tyr Thr Ser Tyr Pro Asp Pro Ile Leu Leu
260 265 270

Met Lys Ser Ala Arg Asn Ser Cys Trp Ser Lys Asp Ala Glu Tyr Gly
275 280 285

Leu Tyr Ser Ile Tyr Gln Gly Gly Ile Phe Glu Leu Lys Glu Asn Asp
290 295 300

Arg Ile Phe Val Ser Val Thr Asn Glu His Leu Ile Asp Met Asp His
305 310 315 320

Glu Ala Ser Phe Phe Gly Ala Phe Leu Val Gly Gly Ser Gly Ser Arg
325 330 335

Val Ala Ala His Ile Thr Gly Thr Arg Gly Arg Ser Asn Thr Leu Ser
340 345 350

Ser Pro Asn Ser Lys Asn Glu Lys Ala Leu Gly Arg Lys Ile Asn Ser
355 360 365

Trp Glu Ser Ser Arg Ser Gly His Ser Phe Leu Ser Asn Leu His Leu
370 375 380

Arg Asn Gly Glu Leu Val Ile His Glu Lys Gly Phe Tyr Tyr Ile Tyr
385 390 395 400

Ser Gln Thr Tyr Phe Arg Phe Gln Glu Glu Ile Lys Glu Asn Thr Lys
405 410 415

Asn Asp Lys Gln Met Val Gln Tyr Ile Tyr Lys Tyr Thr Ser Tyr Pro
420 425 430

Asp Pro Ile Leu Leu Met Lys Ser Ala Arg Asn Ser Cys Trp Ser Lys
435 440 445

Asp Ala Glu Tyr Gly Leu Tyr Ser Ile Tyr Gln Gly Gly Ile Phe Glu
450 455 460

Listado de secuencias

Leu Lys Glu Asn Asp Arg Ile Phe Val Ser Val Thr Asn Glu His Leu
465 470 475 480

Ile Asp Met Asp His Glu Ala Ser Phe Phe Gly Ala Phe Leu Val Gly
485 490 495

Gly Pro Gly Ser Ser Ser Ser Ser Ser Ser Gly Ser Cys Asp Lys Thr
500 505 510

His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser
515 520 525

Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg
530 535 540

Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His Glu Asp Pro
545 550 555 560

Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala
565 570 575

Lys Thr Lys Pro Arg Glu Glu Gln Tyr Ser Ser Thr Tyr Arg Val Val
580 585 590

Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr
595 600 605

Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr
610 615 620

Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu
625 630 635 640

Pro Pro Ser Arg Glu Glu Met Thr Lys Asn Gln Val Ser Leu Thr Cys
645 650 655

Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser
660 665 670

Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp
675 680 685

Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser
690 695 700

Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala
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Listado de secuencias

705 710 715 720

Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Ser
725 730 735

Ser Ser Ser Ser Ser Ala Trp Ser His Pro Gln Phe Glu Lys
740 745 750

<210> 28

<211> 750

<212> PRT

<213> Secuencia artificial

<220>

<221> fuente

<223> /nota="Descripción de Secuencia artificial: Polipéptido sintético"

<400> 28

Gln Arg Val Ala Ala His Ile Thr Gly Thr Arg Gly Arg Ser Asn Thr
1 5 10 15

Leu Ser Ser Pro Asn Ser Lys Asn Glu Lys Ala Leu Gly Arg Lys Ile
20 25 30

Asn Ser Trp Glu Ser Ser Arg Ser Gly His Ser Phe Leu Ser Asn Leu
35 40 45

His Leu Arg Asn Gly Glu Leu Val Ile His Glu Lys Gly Phe Tyr Tyr
50 55 60

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

Thr Lys Asn Asp Lys Gln Met Val Gln Tyr Ile Tyr Lys Tyr Thr Ser
85 90 95

Tyr Pro Asp Pro Ile Leu Leu Met Lys Ser Ala Arg Asn Ser Cys Trp
100 105 110

Ser Lys Asp Ala Glu Tyr Gly Leu Tyr Ser Ile Tyr Gln Gly Gly Ile
115 120 125

Phe Glu Leu Lys Glu Asn Asp Arg Ile Phe Val Ser Val Thr Asn Glu
130 135 140

His Leu Ile Asp Met Asp His Glu Ala Ser Phe Phe Gly Ala Phe Leu
145 150 155 160

Val Gly Gly Ser Gly Ser Gly Ser Arg Val Ala Ala His Ile Thr Gly
165 170 175

Listado de secuencias

Thr Arg Gly Arg Ser Asn Thr Leu Ser Ser Pro Asn Ser Lys Asn Glu
180 185 190

Lys Ala Leu Gly Arg Lys Ile Asn Ser Trp Glu Ser Ser Arg Ser Gly
195 200 205

His Ser Phe Leu Ser Asn Leu His Leu Arg Asn Gly Glu Leu Val Ile
210 215 220

His Glu Lys Gly Phe Tyr Tyr Ile Tyr Ser Gln Thr Tyr Phe Arg Phe
225 230 235 240

Gln Glu Glu Ile Lys Glu Asn Thr Lys Asn Asp Lys Gln Met Val Gln
245 250 255

Tyr Ile Tyr Lys Tyr Thr Ser Tyr Pro Asp Pro Ile Leu Leu Met Lys
260 265 270

Ser Ala Arg Asn Ser Cys Trp Ser Lys Asp Ala Glu Tyr Gly Leu Tyr
275 280 285

Ser Ile Tyr Gln Gly Gly Ile Phe Glu Leu Lys Glu Asn Asp Arg Ile
290 295 300

Phe Val Ser Val Thr Asn Glu His Leu Ile Asp Met Asp His Glu Ala
305 310 315 320

Ser Phe Phe Gly Ala Phe Leu Val Gly Gly Ser Gly Ser Gly Ser Arg
325 330 335

Val Ala Ala His Ile Thr Gly Thr Arg Gly Arg Ser Asn Thr Leu Ser
340 345 350

Ser Pro Asn Ser Lys Asn Glu Lys Ala Leu Gly Arg Lys Ile Asn Ser
355 360 365

Trp Glu Ser Ser Arg Ser Gly His Ser Phe Leu Ser Asn Leu His Leu
370 375 380

Arg Asn Gly Glu Leu Val Ile His Glu Lys Gly Phe Tyr Tyr Ile Tyr
385 390 395 400

Ser Gln Thr Tyr Phe Arg Phe Gln Glu Glu Ile Lys Glu Asn Thr Lys
405 410 415

Asn Asp Lys Gln Met Val Gln Tyr Ile Tyr Lys Tyr Thr Ser Tyr Pro

Listado de secuencias

420

425

430

Asp Pro Ile Leu Leu Met Lys Ser Ala Arg Asn Ser Cys Trp Ser Lys
435 440 445

Asp Ala Glu Tyr Gly Leu Tyr Ser Ile Tyr Gln Gly Gly Ile Phe Glu
450 455 460

Leu Lys Glu Asn Asp Arg Ile Phe Val Ser Val Thr Asn Glu His Leu
465 470 475 480

Ile Asp Met Asp His Glu Ala Ser Phe Phe Gly Ala Phe Leu Val Gly
485 490 495

Gly Pro Gly Ser Ser Ser Ser Ser Ser Gly Ser Cys Asp Lys Thr
500 505 510

His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser
515 520 525

Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg
530 535 540

Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His Glu Asp Pro
545 550 555 560

Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala
565 570 575

Lys Thr Lys Pro Arg Glu Glu Gln Tyr Ser Ser Thr Tyr Arg Val Val
580 585 590

Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr
595 600 605

Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr
610 615 620

Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu
625 630 635 640

Pro Pro Ser Arg Glu Glu Met Thr Lys Asn Gln Val Ser Leu Thr Cys
645 650 655

Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser
660 665 670

Listado de secuencias

Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp
675 680 685

Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser
690 695 700

Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala
705 710 715 720

Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Ser
725 730 735

Ser Ser Ser Ser Ser Ala Trp Ser His Pro Gln Phe Glu Lys
740 745 750

<210> 29

<211> 736

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<221> fuente

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<400> 29

Gln Arg Val Ala Ala His Ile Thr Gly Thr Arg Gly Arg Ser Asn Thr
1 5 10 15

Leu Ser Ser Pro Asn Ser Lys Asn Glu Lys Ala Leu Gly Arg Lys Ile
20 25 30

Asn Ser Trp Glu Ser Ser Arg Ser Gly His Ser Phe Leu Ser Asn Leu
35 40 45

His Leu Arg Asn Gly Glu Leu Val Ile His Glu Lys Gly Phe Tyr Tyr
50 55 60

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

Thr Lys Asn Asp Lys Gln Met Val Gln Tyr Ile Tyr Lys Tyr Thr Ser
85 90 95

Tyr Pro Asp Pro Ile Leu Leu Met Lys Ser Ala Arg Asn Ser Cys Trp
100 105 110

Ser Lys Asp Ala Glu Tyr Gly Leu Tyr Ser Ile Tyr Gln Gly Gly Ile
115 120 125

Phe Glu Leu Lys Glu Asn Asp Arg Ile Phe Val Ser Val Thr Asn Glu

Listado de secuencias

130

135

140

His 145 Leu Ile Asp Met 150 Asp 155 His Glu Ala Ser Phe 155 Phe Gly Ala Phe 160 Leu

Val Gly Gly Ser 165 Gly 170 Ser Gly Asn Gly 170 Arg Val Ala Ala His 175 Ile

Thr Gly Thr 180 Arg Gly Arg Ser Asn 185 Thr Leu Ser Ser Pro 190 Asn Ser Lys

Asn Glu Lys 195 Ala Leu Gly Arg Lys 200 Ile Asn Ser Trp 205 Glu Ser Ser Arg

Ser Gly His 210 Ser Phe Leu Ser 215 Asn Leu His Leu 220 Arg Asn Gly Glu Leu

Val Ile His Glu Lys 230 Gly Phe Tyr Tyr Ile 235 Tyr Ser Gln Thr Tyr Phe 240

Arg Phe Gln Glu 245 Glu Ile Lys Glu Asn 250 Thr Lys Asn Asp Lys Gln Met 255

Val Gln Tyr Ile 260 Tyr Lys Tyr Thr Ser 265 Tyr Pro Asp Pro Ile 270 Leu Leu

Met Lys Ser 275 Ala Arg Asn Ser Cys 280 Trp Ser Lys Asp Ala 285 Glu Tyr Gly

Leu Tyr Ser Ile Tyr Gln 295 Gly Gly Ile Phe Glu Leu 300 Lys Glu Asn Asp

Arg Ile Phe Val Ser 310 Val Thr Asn Glu His Leu 315 Ile Asp Met Asp His 320

Glu Ala Ser Phe 325 Phe Gly Ala Phe Leu Val 330 Gly Gly Ser Gly Ser 335 Arg

Val Ala Ala His 340 Ile Thr Gly Thr Arg 345 Gly Arg Ser Asn Thr 350 Leu Ser

Ser Pro Asn 355 Ser Lys Asn Glu Lys 360 Ala Leu Gly Arg Lys 365 Ile Asn Ser

Trp Glu Ser 370 Ser Arg Ser Gly 375 His Ser Phe Leu Ser 380 Asn Leu His Leu

Listado de secuencias

Arg Asn Gly Glu Leu Val Ile His Glu Lys Gly Phe Tyr Tyr Ile Tyr
385 390 395 400

Ser Gln Thr Tyr Phe Arg Phe Gln Glu Glu Ile Lys Glu Asn Thr Lys
405 410 415

Asn Asp Lys Gln Met Val Gln Tyr Ile Tyr Lys Tyr Thr Ser Tyr Pro
420 425 430

Asp Pro Ile Leu Leu Met Lys Ser Ala Arg Asn Ser Cys Trp Ser Lys
435 440 445

Asp Ala Glu Tyr Gly Leu Tyr Ser Ile Tyr Gln Gly Gly Ile Phe Glu
450 455 460

Leu Lys Glu Asn Asp Arg Ile Phe Val Ser Val Thr Asn Glu His Leu
465 470 475 480

Ile Asp Met Asp His Glu Ala Ser Phe Phe Gly Ala Phe Leu Val Gly
485 490 495

Gly Pro Gly Ser Ser Ser Ser Ser Ser Ser Gly Ser Cys Asp Lys Thr
500 505 510

His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser
515 520 525

Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg
530 535 540

Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His Glu Asp Pro
545 550 555 560

Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala
565 570 575

Lys Thr Lys Pro Arg Glu Glu Gln Tyr Ser Ser Thr Tyr Arg Val Val
580 585 590

Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr
595 600 605

Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr
610 615 620

Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu
625 630 635 640

Listado de secuencias

Pro Pro Ser Arg Glu Glu Met Thr Lys Asn Gln Val Ser Leu Thr Cys
645 650 655

Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser
660 665 670

Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp
675 680 685

Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser
690 695 700

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705 710 715 720

Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
725 730 735

<210> 30

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

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35 40 45

His Leu Arg Asn Gly Glu Leu Val Ile His Glu Lys Gly Phe Tyr Tyr
50 55 60

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

Thr Lys Asn Asp Lys Gln Met Val Gln Tyr Ile Tyr Lys Tyr Thr Ser
85 90 95

Tyr Pro Asp Pro Ile Leu Leu Met Lys Ser Ala Arg Asn Ser Cys Trp
100 105 110

Listado de secuencias

Ser Lys Asp Ala Glu Tyr Gly Leu Tyr Ser Ile Tyr Gln Gly Gly Ile
115 120 125

Phe Glu Leu Lys Glu Asn Asp Arg Ile Phe Val Ser Val Thr Asn Glu
130 135 140

His Leu Ile Asp Met Asp His Glu Ala Ser Phe Phe Gly Ala Phe Leu
145 150 155 160

Val Gly Gly Ser Gly Ser Gly Ser Arg Val Ala Ala His Ile Thr Gly
165 170 175

Thr Arg Gly Arg Ser Asn Thr Leu Ser Ser Pro Asn Ser Lys Asn Glu
180 185 190

Lys Ala Leu Gly Arg Lys Ile Asn Ser Trp Glu Ser Ser Arg Ser Gly
195 200 205

His Ser Phe Leu Ser Asn Leu His Leu Arg Asn Gly Glu Leu Val Ile
210 215 220

His Glu Lys Gly Phe Tyr Tyr Ile Tyr Ser Gln Thr Tyr Phe Arg Phe
225 230 235 240

Gln Glu Glu Ile Lys Glu Asn Thr Lys Asn Asp Lys Gln Met Val Gln
245 250 255

Tyr Ile Tyr Lys Tyr Thr Ser Tyr Pro Asp Pro Ile Leu Leu Met Lys
260 265 270

Ser Ala Arg Asn Ser Cys Trp Ser Lys Asp Ala Glu Tyr Gly Leu Tyr
275 280 285

Ser Ile Tyr Gln Gly Gly Ile Phe Glu Leu Lys Glu Asn Asp Arg Ile
290 295 300

Phe Val Ser Val Thr Asn Glu His Leu Ile Asp Met Asp His Glu Ala
305 310 315 320

Ser Phe Phe Gly Ala Phe Leu Val Gly Gly Ser Gly Ser Gly Ser Arg
325 330 335

Val Ala Ala His Ile Thr Gly Thr Arg Gly Arg Ser Asn Thr Leu Ser
340 345 350

Ser Pro Asn Ser Lys Asn Glu Lys Ala Leu Gly Arg Lys Ile Asn Ser
355 360 365

Listado de secuencias

Trp Glu Ser Ser Arg Ser Gly His Ser Phe Leu Ser Asn Leu His Leu
370 375 380

Arg Asn Gly Glu Leu Val Ile His Glu Lys Gly Phe Tyr Tyr Ile Tyr
385 390 395 400

Ser Gln Thr Tyr Phe Arg Phe Gln Glu Glu Ile Lys Glu Asn Thr Lys
405 410 415

Asn Asp Lys Gln Met Val Gln Tyr Ile Tyr Lys Tyr Thr Ser Tyr Pro
420 425 430

Asp Pro Ile Leu Leu Met Lys Ser Ala Arg Asn Ser Cys Trp Ser Lys
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Asp Ala Glu Tyr Gly Leu Tyr Ser Ile Tyr Gln Gly Gly Ile Phe Glu
450 455 460

Leu Lys Glu Asn Asp Arg Ile Phe Val Ser Val Thr Asn Glu His Leu
465 470 475 480

Ile Asp Met Asp His Glu Ala Ser Phe Phe Gly Ala Phe Leu Val Gly
485 490 495

Gly Pro Gly Ser Ser Ser Ser Ser Ser Ser Gly Ser Cys Asp Lys Thr
500 505 510

His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser
515 520 525

Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg
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Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His Glu Asp Pro
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Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala
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Lys Thr Lys Pro Arg Glu Glu Gln Tyr Ser Ser Thr Tyr Arg Val Val
580 585 590

Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr
595 600 605

Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr
610 615 620

Listado de secuencias

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Pro Pro Ser Arg Glu Glu Met Thr Lys Asn Gln Val Ser Leu Thr Cys
645 650 655

Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser
660 665 670

Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp
675 680 685

Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser
690 695 700

Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala
705 710 715 720

Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
725 730 735

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<211> 4

<212> PRT

<213> Secuencia artificial

<220>

<221> fuente

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<400> 31

Asp Glu Val Asp

1