Fig. 1A

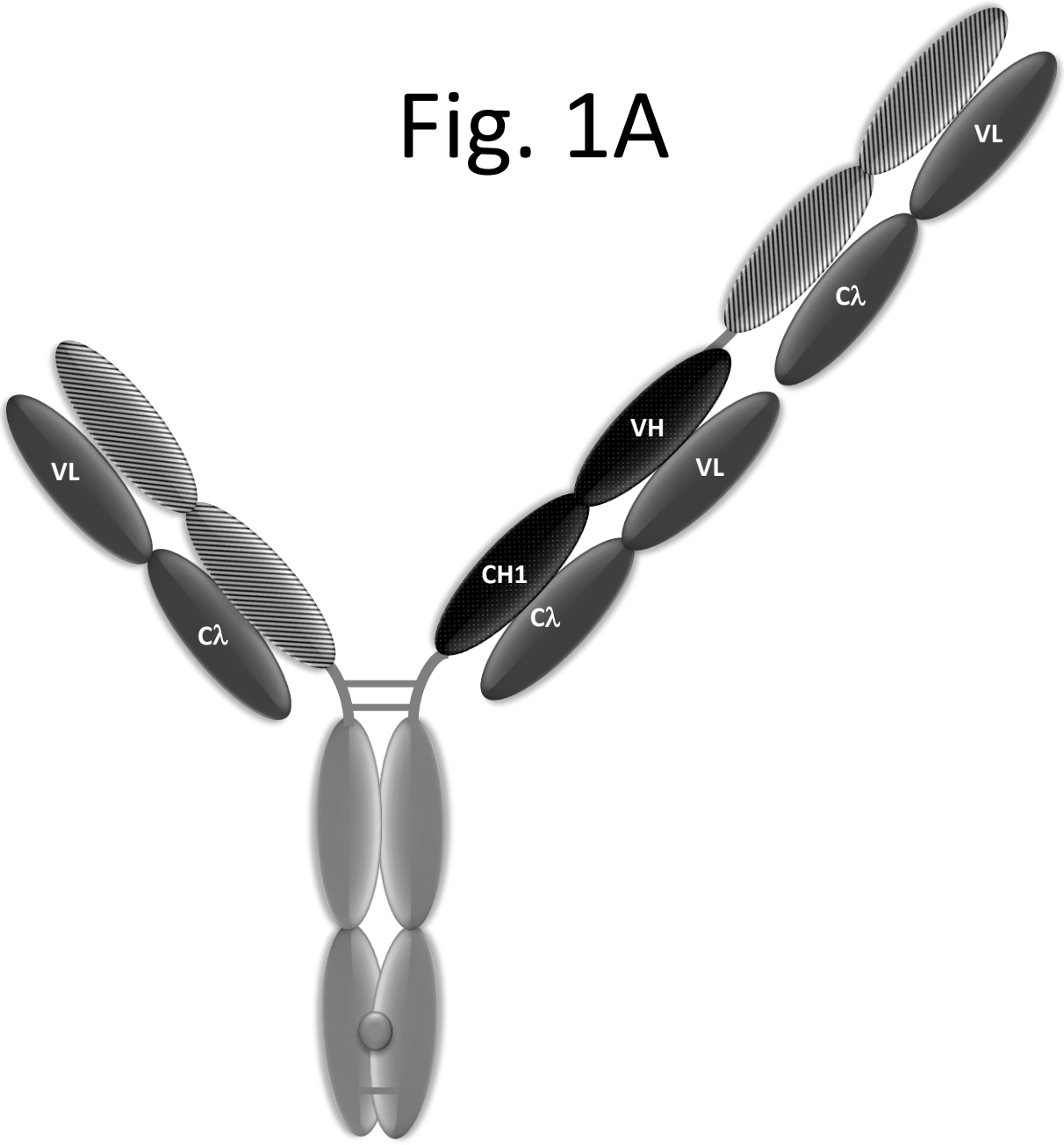


Fig. 1B

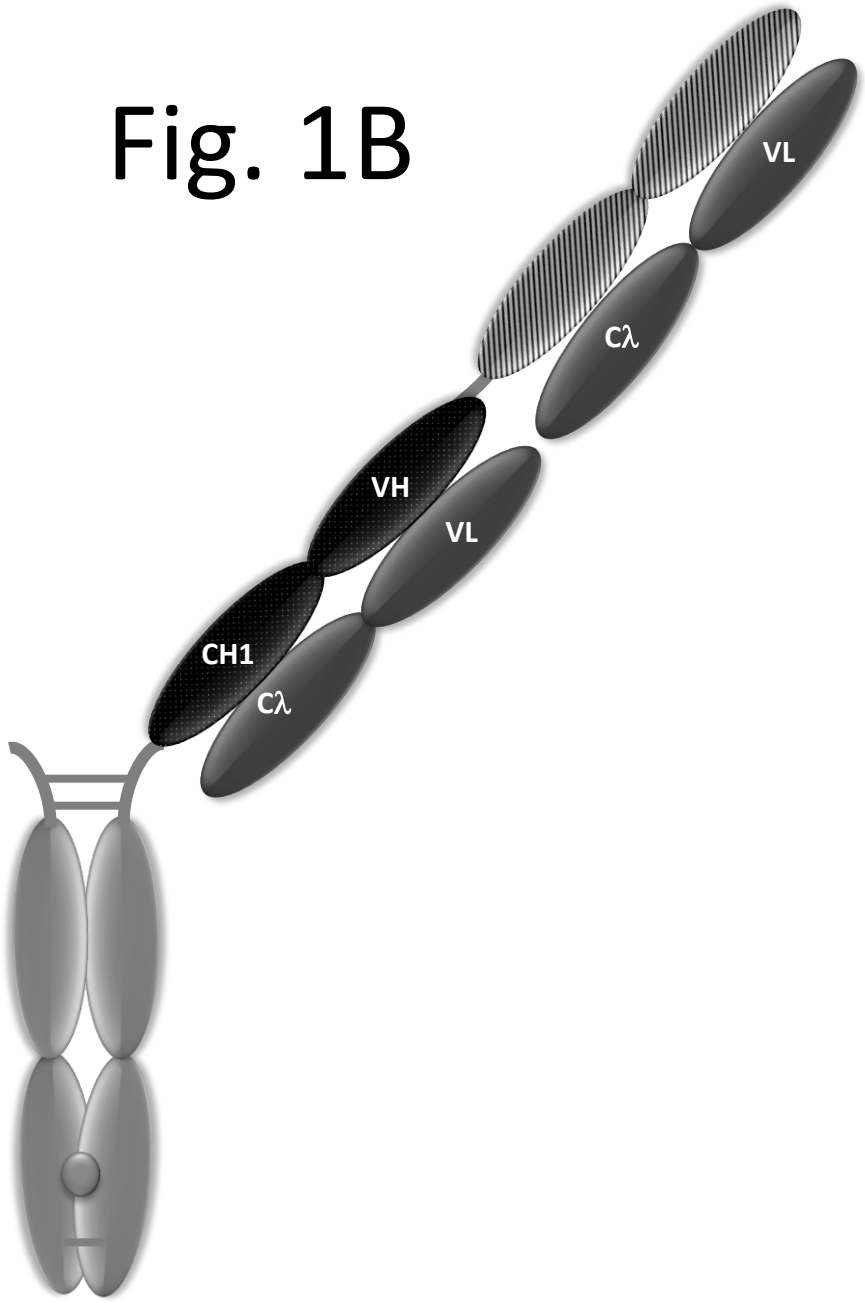


Fig. 1C

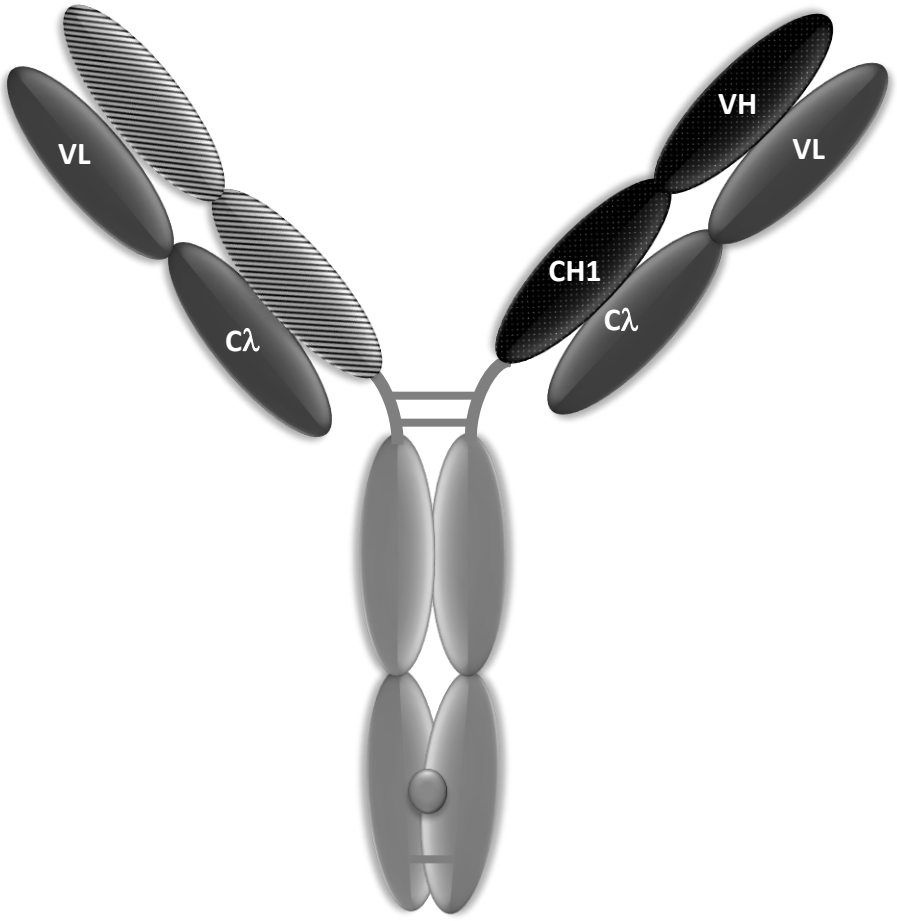


Fig. 1D

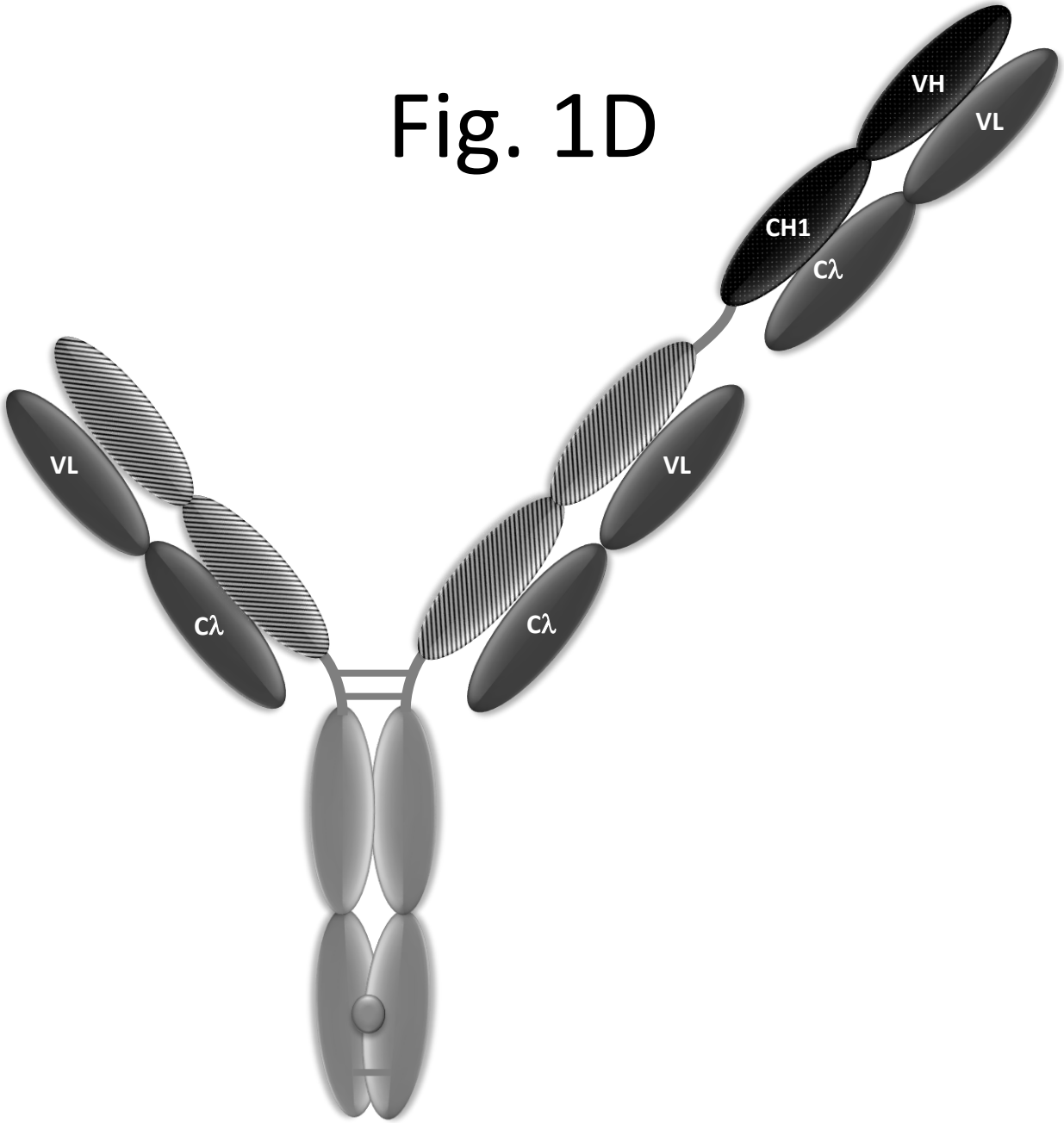


Fig. 1E

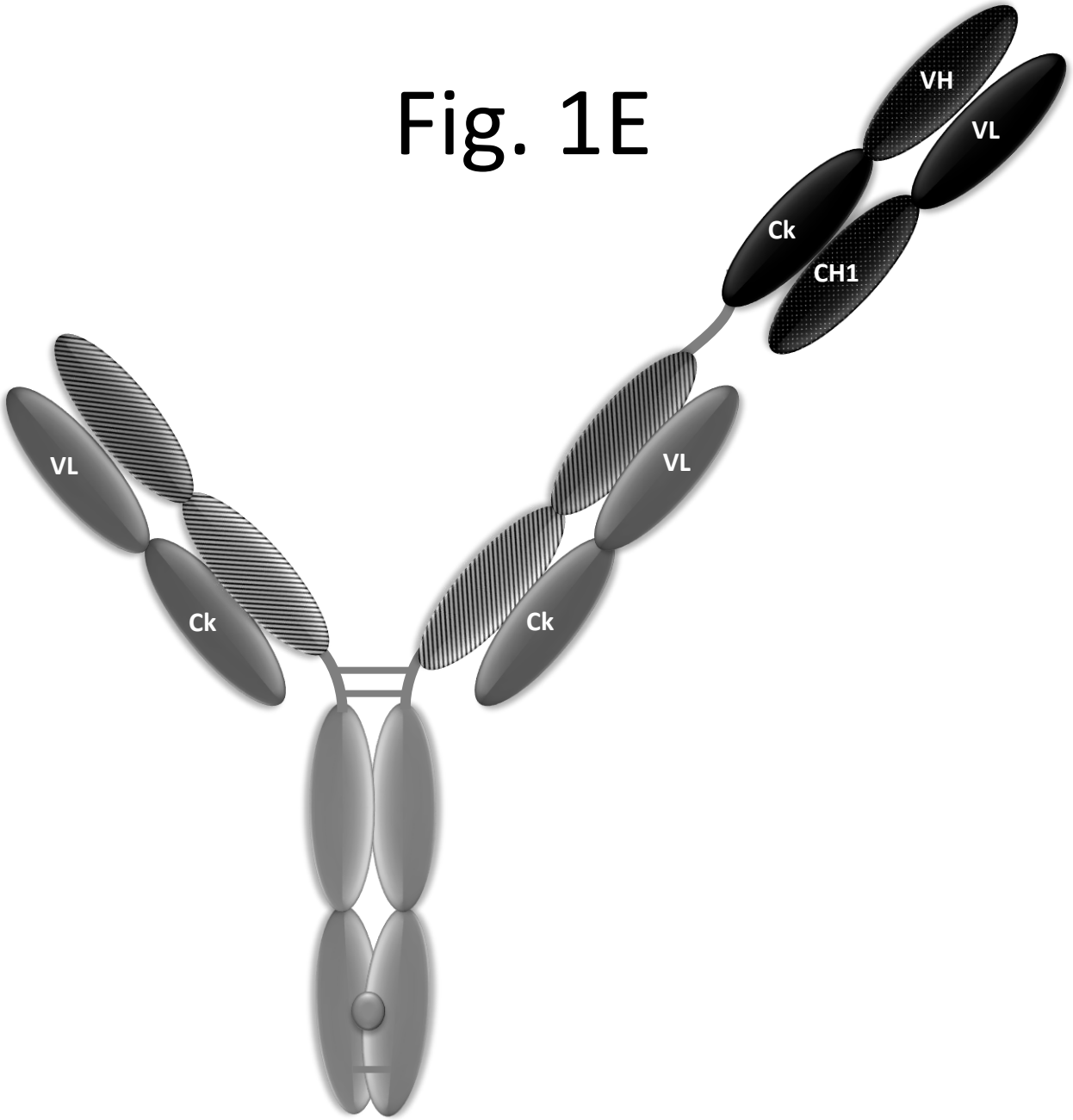


Fig. 1F

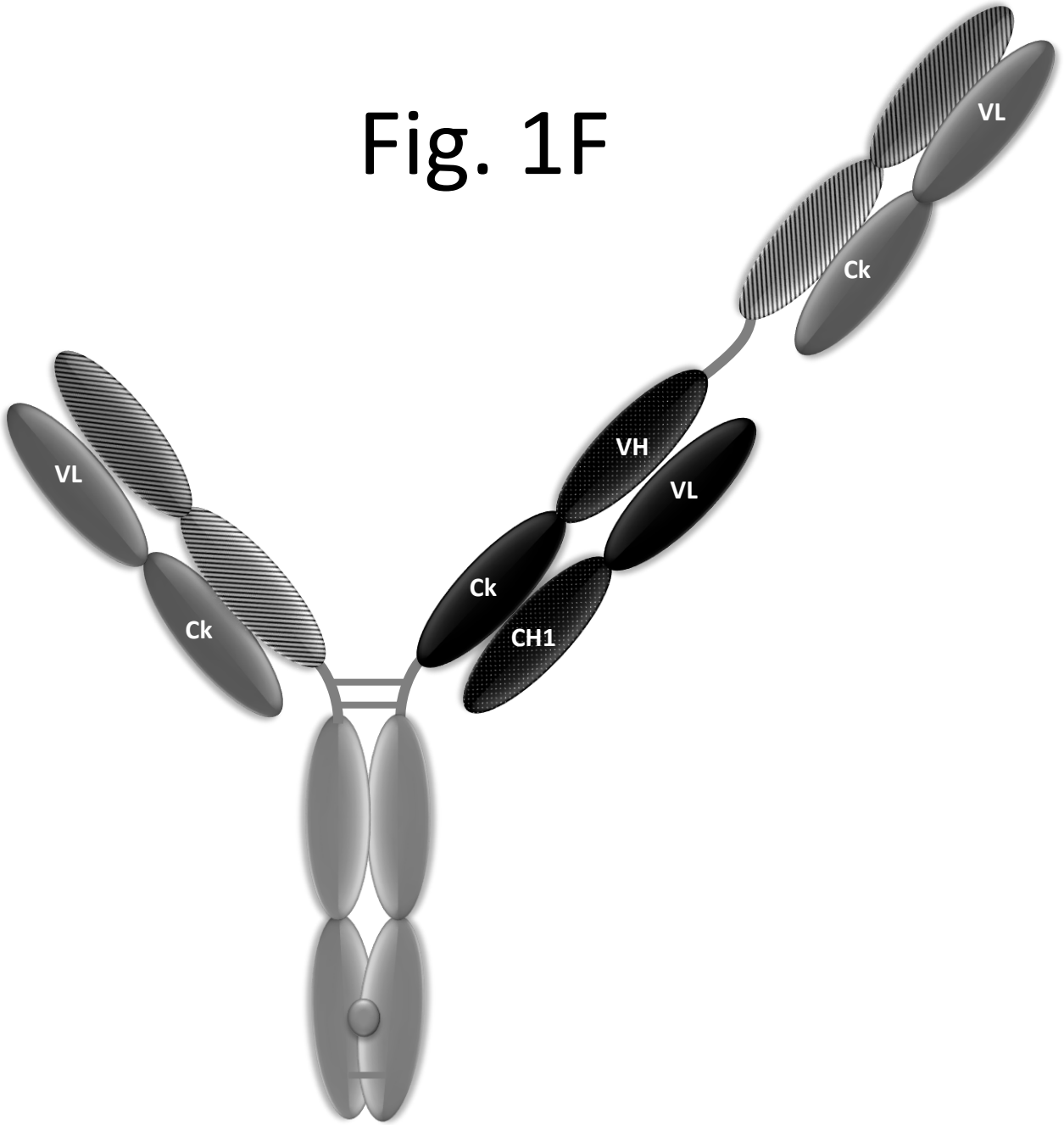


Fig. 1G

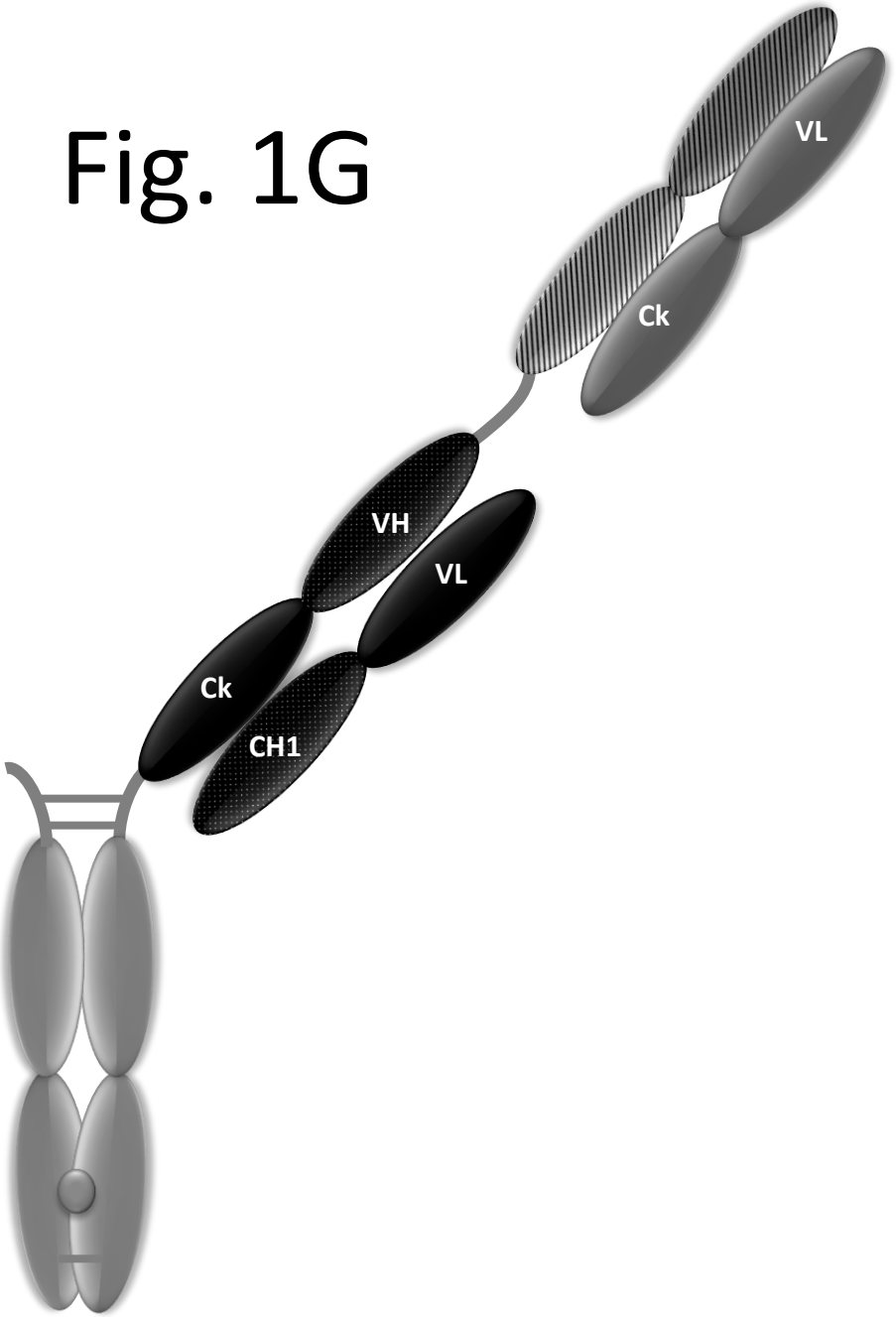


Fig. 1H

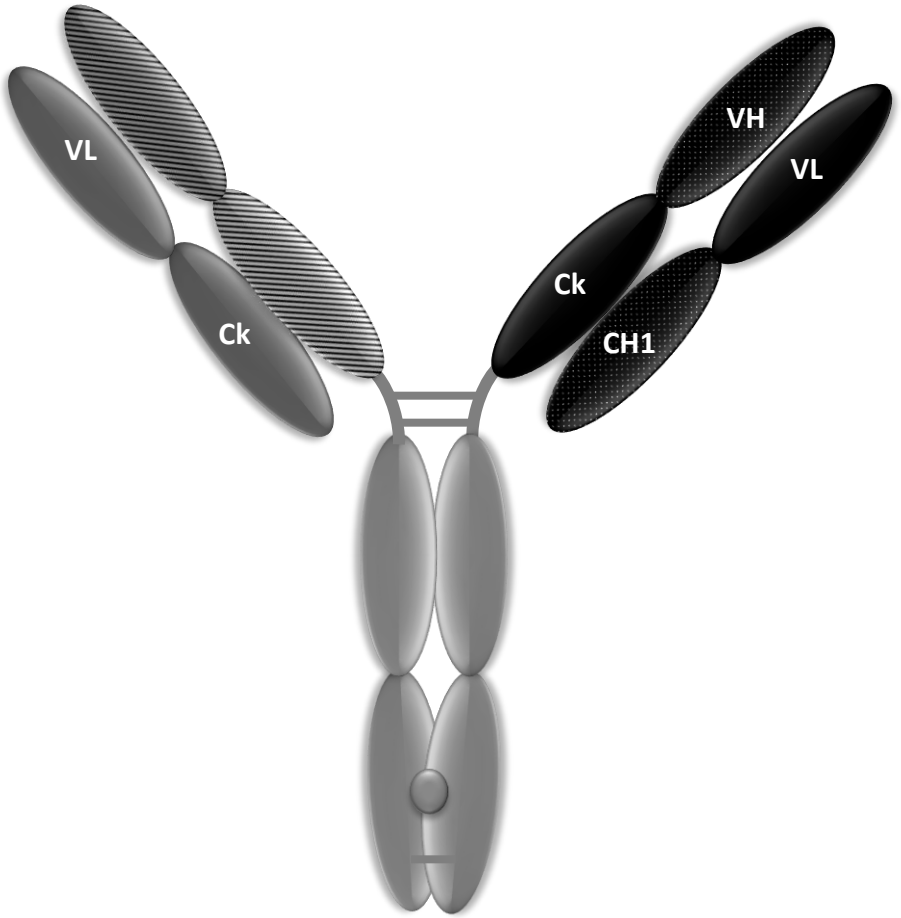


Fig. 1I

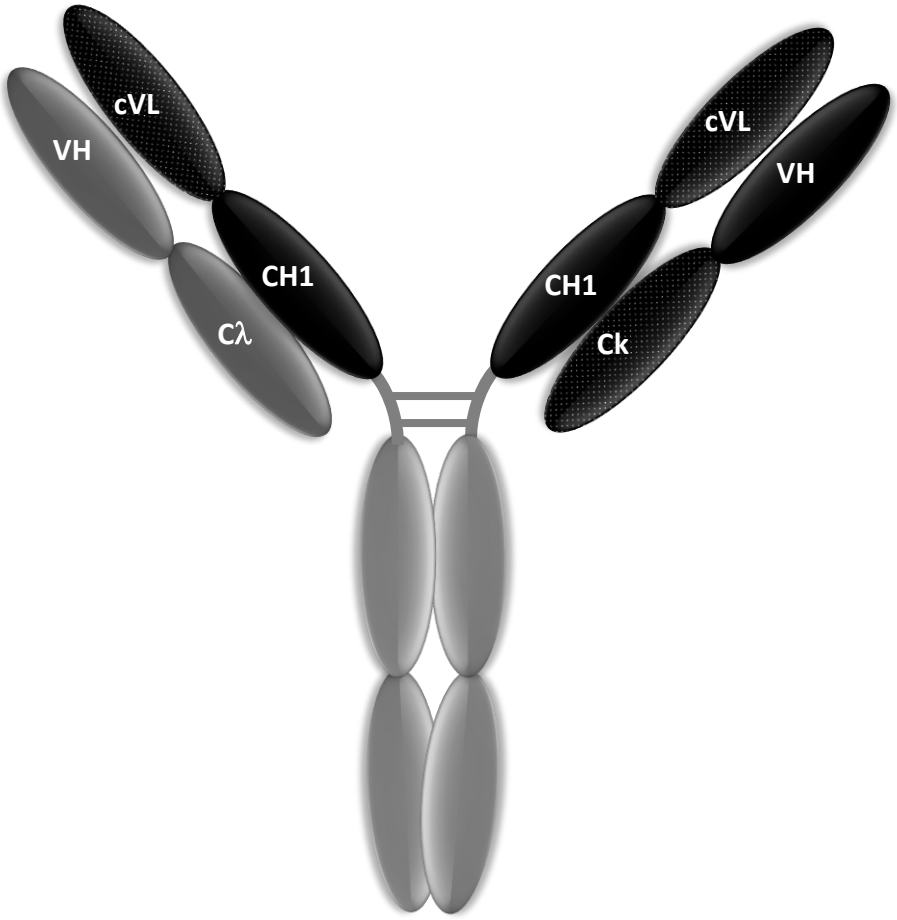


Fig. 2A **moléculas de unión a FolR1 CLCL**

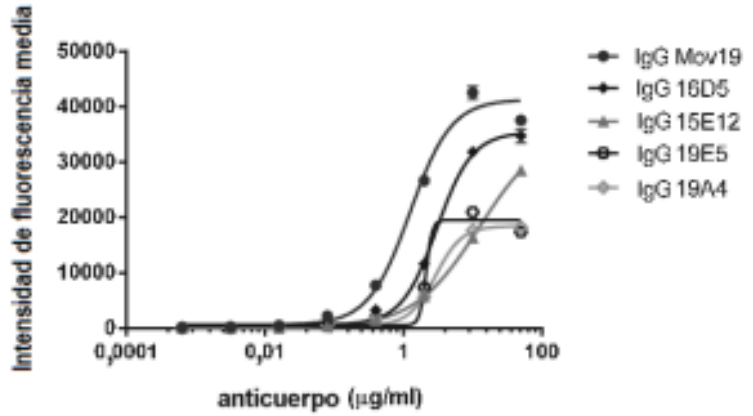


Fig. 2B **moléculas de unión a FolR1 CLCL**

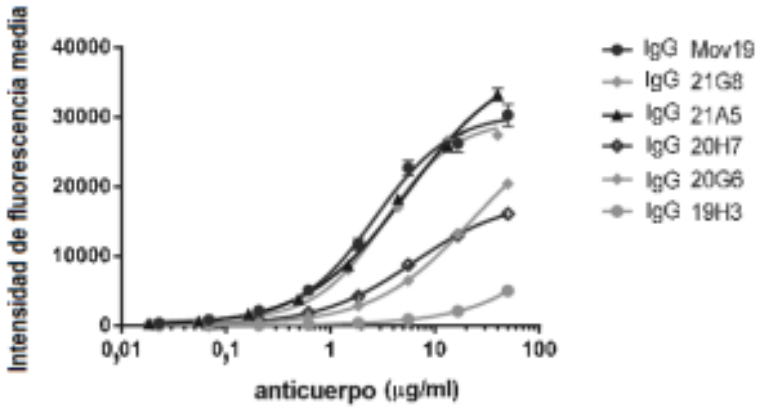


Fig. 2C **moléculas de unión a FolR1 Fab**

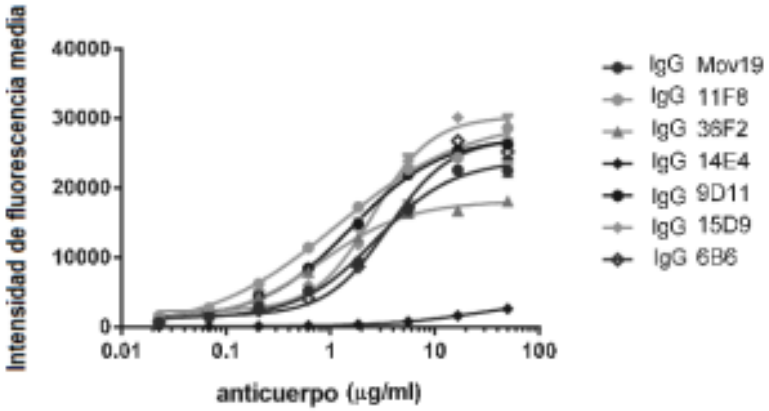


Fig. 3A

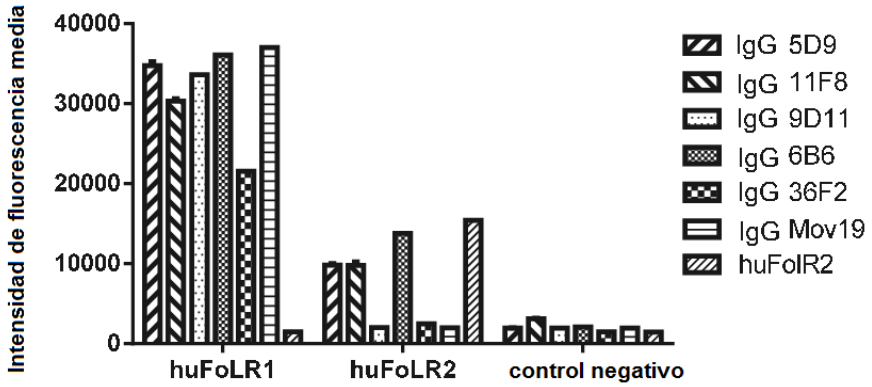

Intensidad de fluorescencia media
40000
30000
20000
10000
0
huFoLR1
huFoLR2
control negativo
IgG 5D9
IgG 11F8
IgG 9D11
IgG 6B6
IgG 36F2
IgG Mov19
huFolR2

Fig. 3B

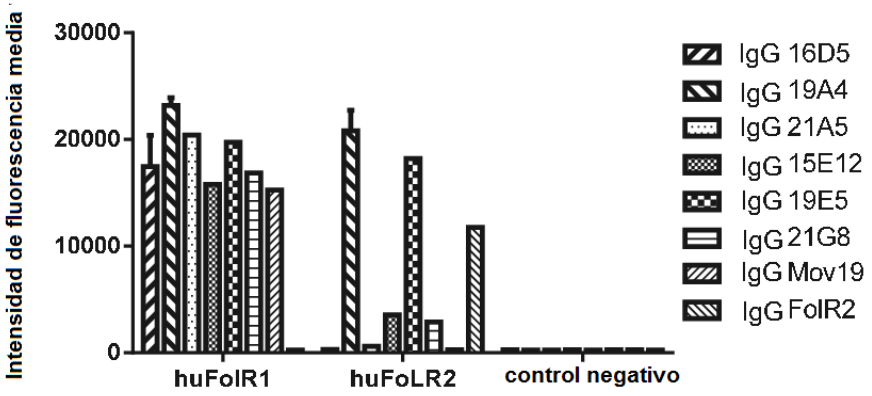

Intensidad de fluorescencia media
30000
20000
10000
0
huFolR1
huFoLR2
control negativo
IgG 16D5
IgG 19A4
IgG 21A5
IgG 15E12
IgG 19E5
IgG 21G8
IgG Mov19
IgG FolR2

Fig. 4A

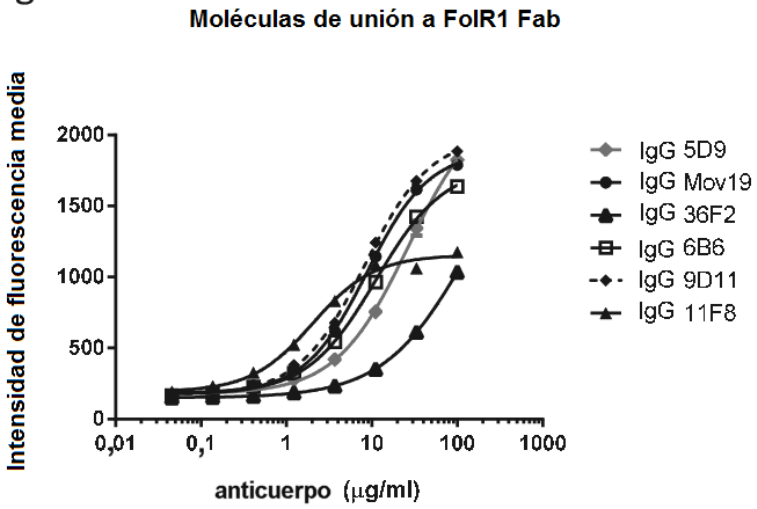

Moléculas de unión a FolR1 Fab
Intensidad de fluorescencia media
2000
1500
1000
500
0
0,01
0,1
1
10
100
1000
anticuerpo (µg/ml)
IgG 5D9
IgG Mov19
IgG 36F2
IgG 6B6
IgG 9D11
IgG 11F8

Fig. 4B

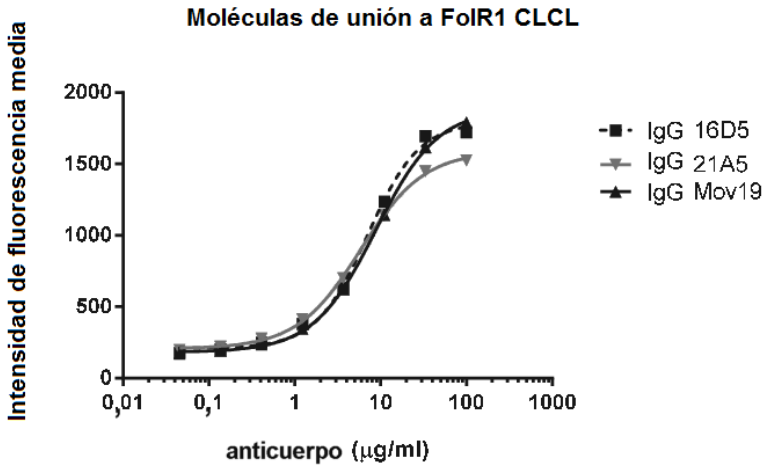

Moléculas de unión a FolR1 CLCL
Intensidad de fluorescencia media
2000
1500
1000
500
0
0,01
0,1
1
10
100
1000
anticuerpo (µg/ml)
IgG 16D5
IgG 21A5
IgG Mov19

Fig. 5

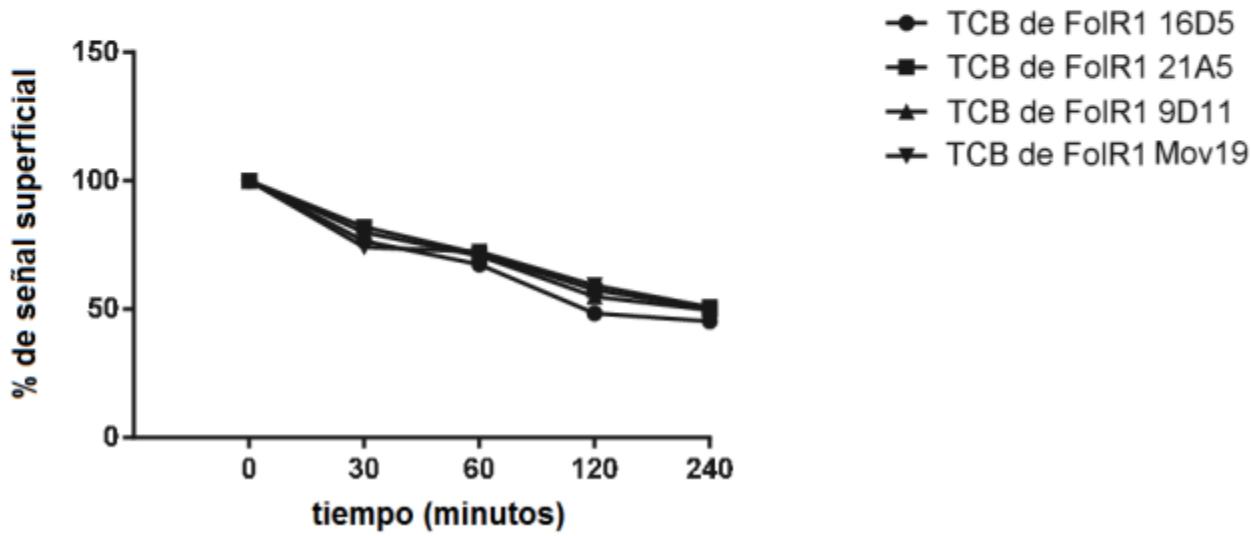

% de señal superficial
150
100
50
0
0
30
60
120
240
tiempo (minutos)
TCB de FolR1 16D5
TCB de FolR1 21A5
TCB de FolR1 9D11
TCB de FolR1 Mov19

Fig. 6A

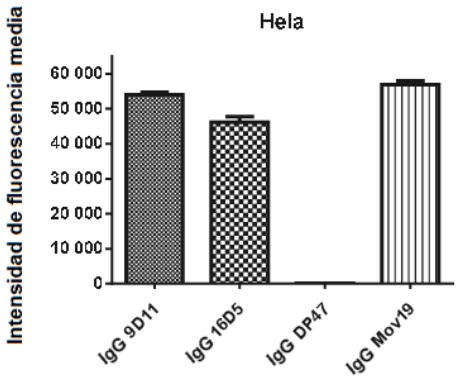


Fig. 6B

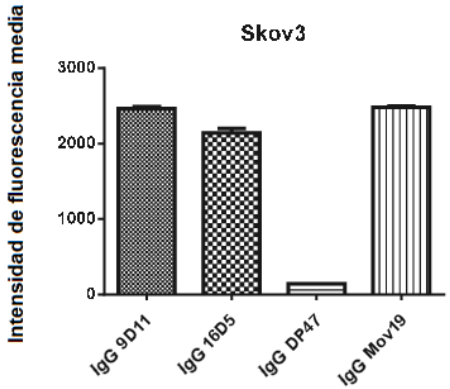


Fig. 6C

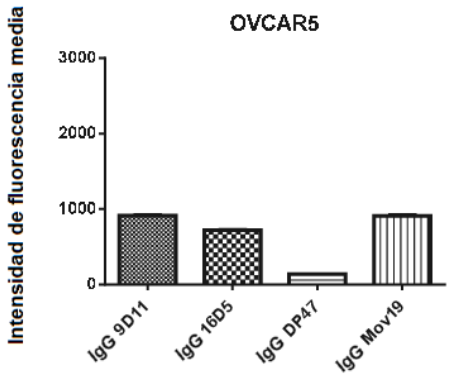


Fig. 6D

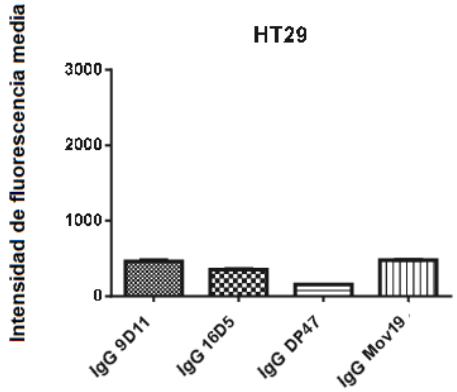


Fig. 6E

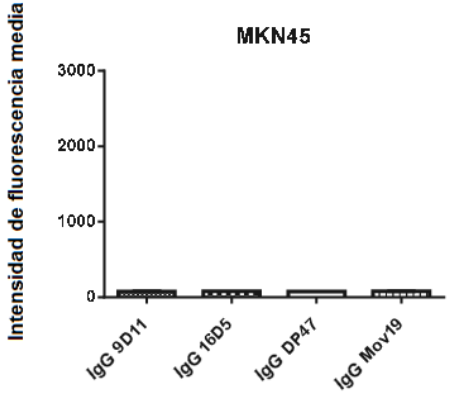


Fig. 7A

HT29

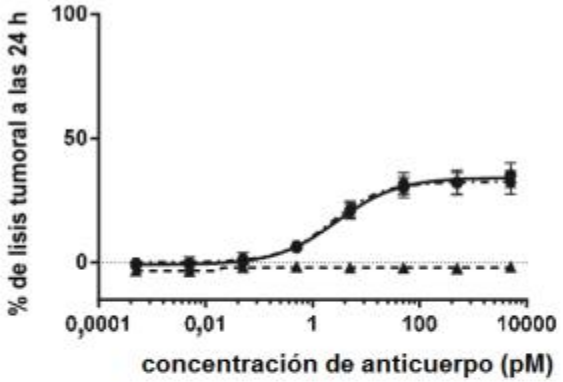


Fig. 7B

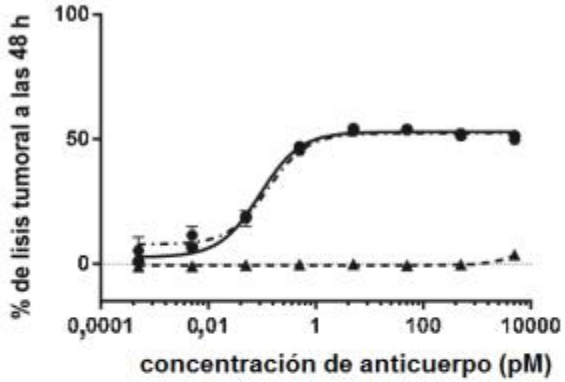


Fig. 7C

SKOV3

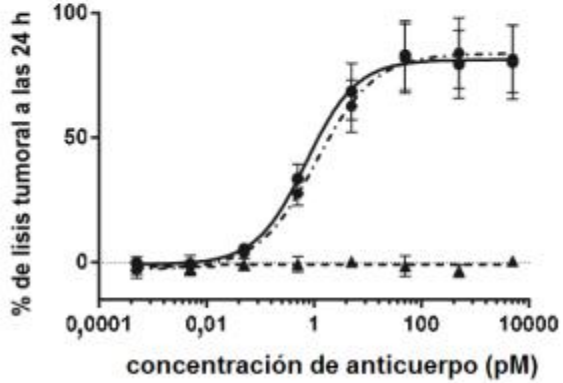
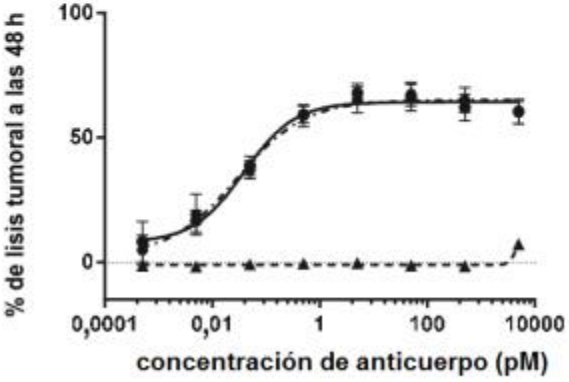


Fig. 7D



TCB de FolR1 16D5 TCB de FolR1 9D11 TCB de DP47

Fig. 7E

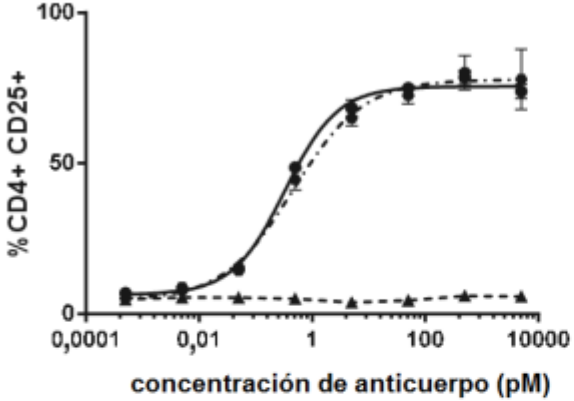


Fig. 7F

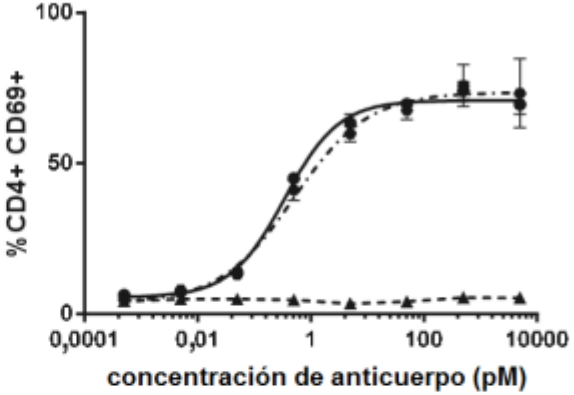


Fig. 7G

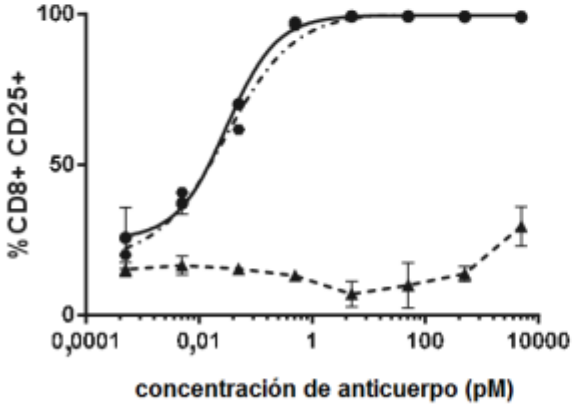
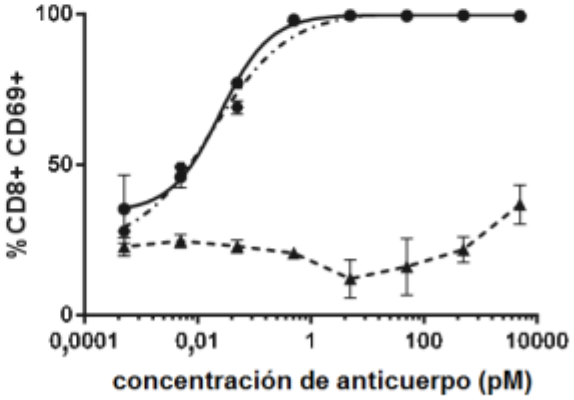


Fig. 7H



TCB de FolR1 16D5 — TCB de FolR1 9D11 — TCB de DP47

Fig. 7I

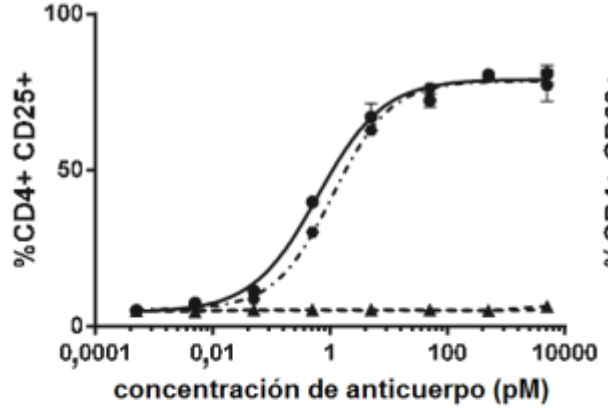


Fig. 7J

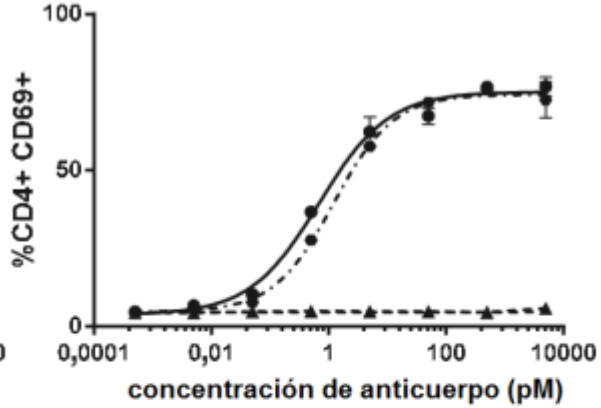


Fig. 7K

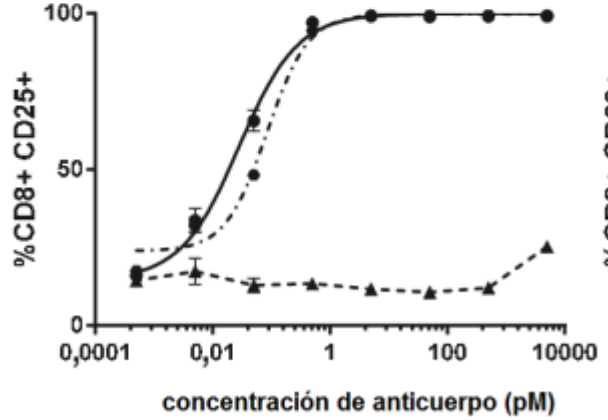
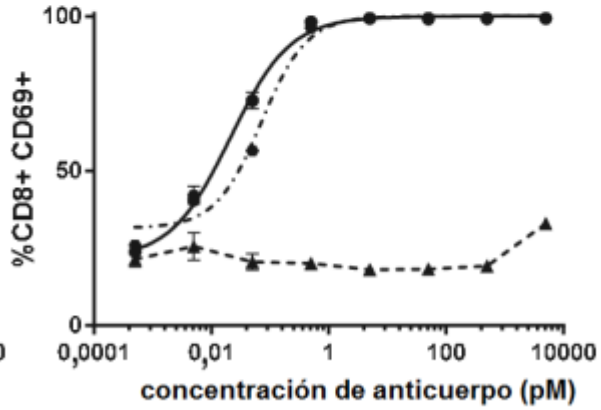


Fig. 7L



TCB de FolR1 16D5 TCB de FolR1 9D11 TCB de DP47

Fig. 8

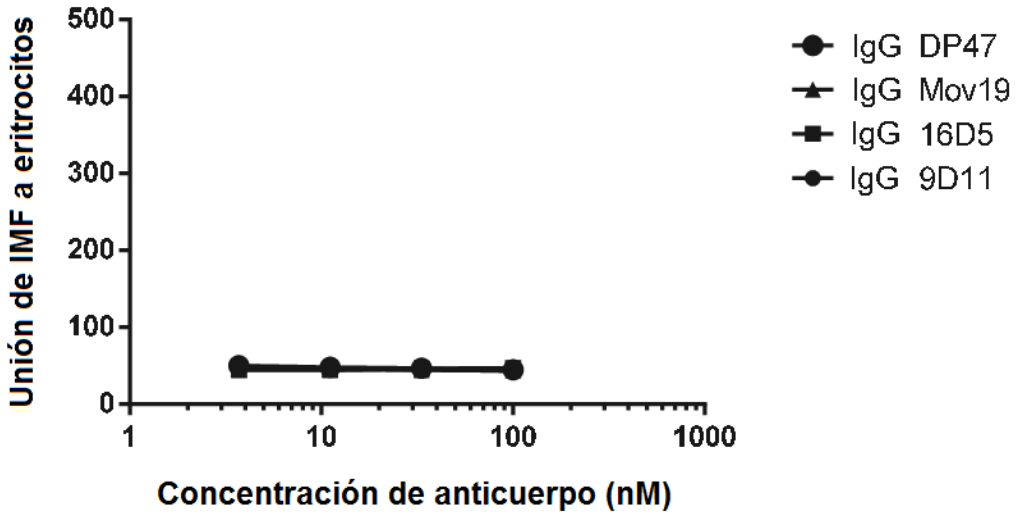

Unión de IMF a eritrocitos
500
400
300
200
100
0
1
10
100
1000
Concentración de anticuerpo (nM)
IgG DP47
IgG Mov19
IgG 16D5
IgG 9D11

Fig. 9A

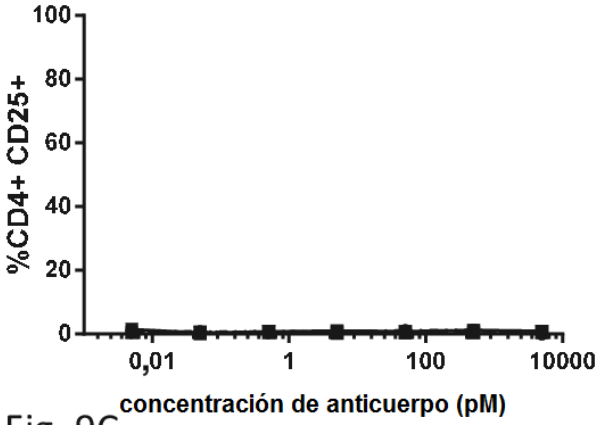


Fig. 9B

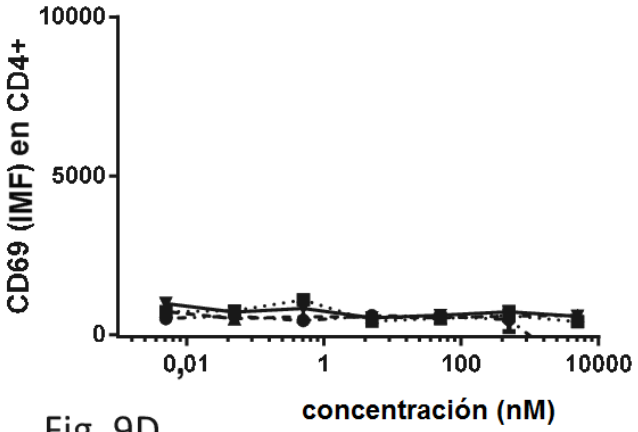


Fig. 9C

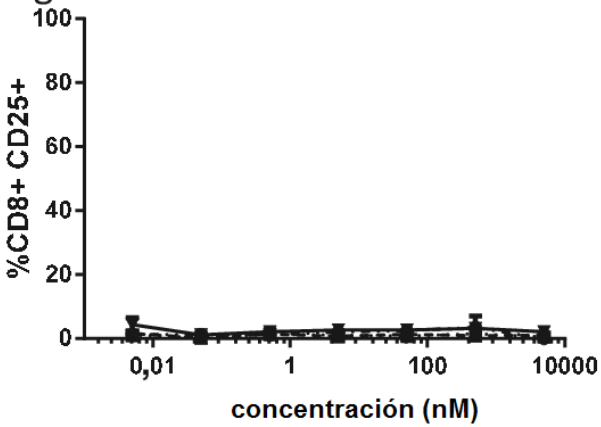
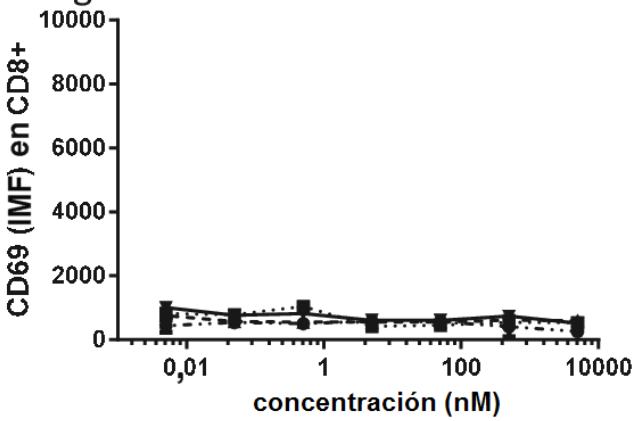
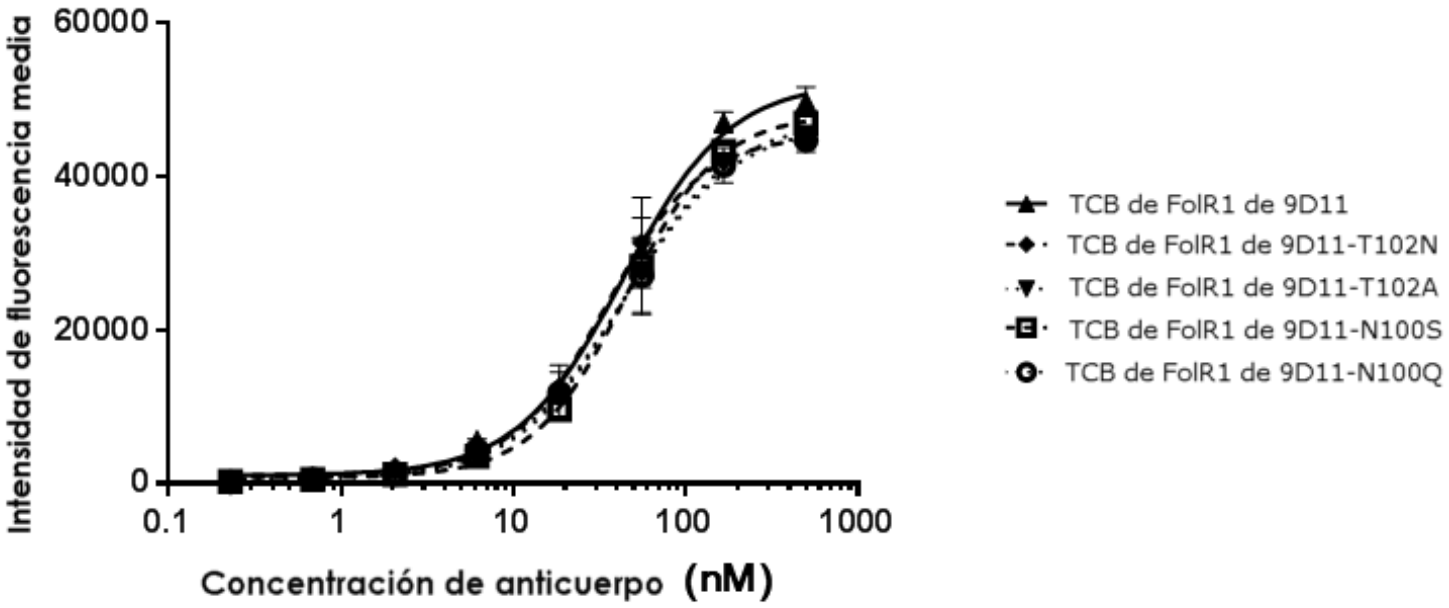


Fig. 9D

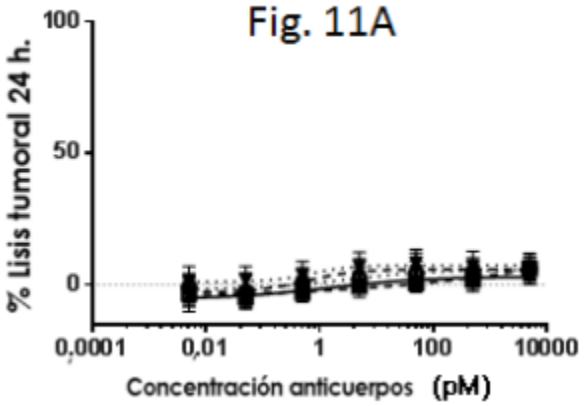


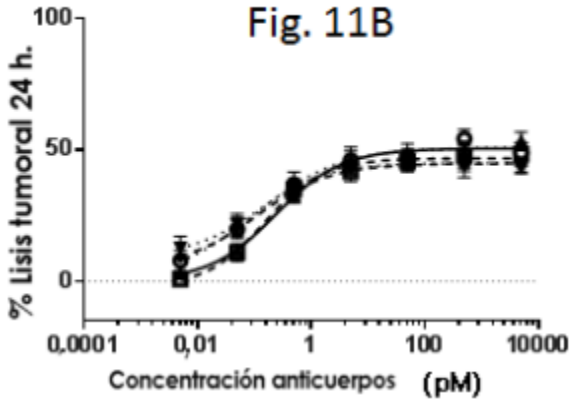
TCB Mov19 TCB 9D11 TCB 16D5 TCB DP47

Fig. 10

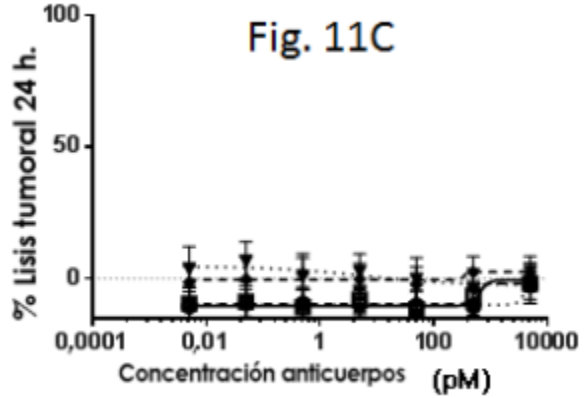

Intensidad de fluorescencia media
60000
40000
20000
0
0.1
1
10
100
1000
Concentración de anticuerpo (nM)
TCB de FolR1 de 9D11
TCB de FolR1 de 9D11-T102N
TCB de FolR1 de 9D11-T102A
TCB de FolR1 de 9D11-N100S
TCB de FolR1 de 9D11-N100Q

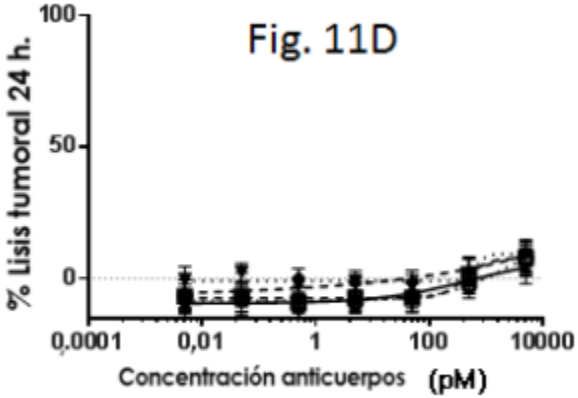
SKOV3


Fig. 11A
% Lisis tumoral 24 h.
100
50
0
0,0001
0,01
1
100
10000
Concentración anticuerpos (pM)


Fig. 11B
% Lisis tumoral 24 h.
100
50
0
0,0001
0,01
1
100
10000
Concentración anticuerpos (pM)

MKN45


Fig. 11C
% Lisis tumoral 24 h.
100
50
0
0,0001
0,01
1
100
10000
Concentración anticuerpos (pM)


Fig. 11D
% Lisis tumoral 24 h.
100
50
0
0,0001
0,01
1
100
10000
Concentración anticuerpos (pM)

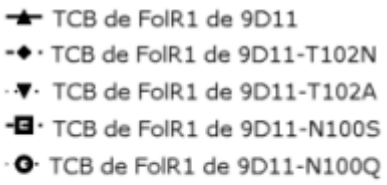
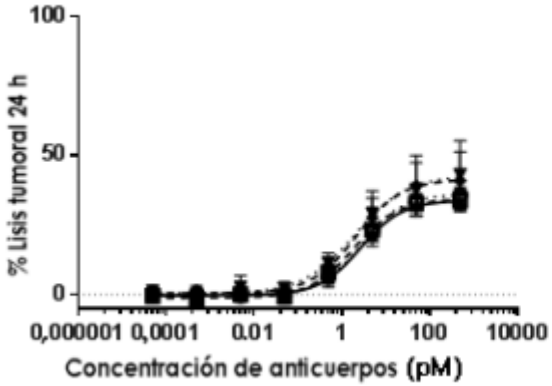
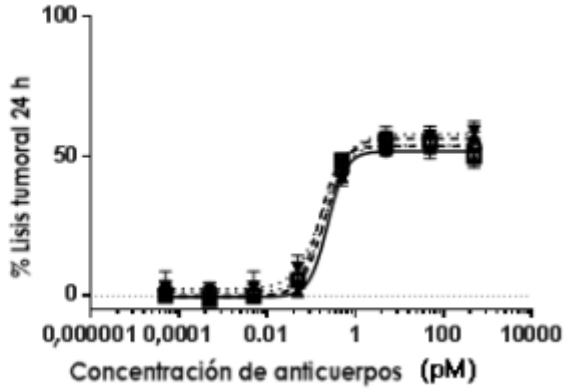

TCB de FolR1 de 9D11
TCB de FolR1 de 9D11-T102N
TCB de FolR1 de 9D11-T102A
TCB de FolR1 de 9D11-N100S
TCB de FolR1 de 9D11-N100Q

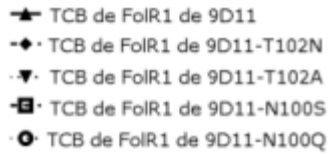
Fig. 11E

Fig. 11F

HT29







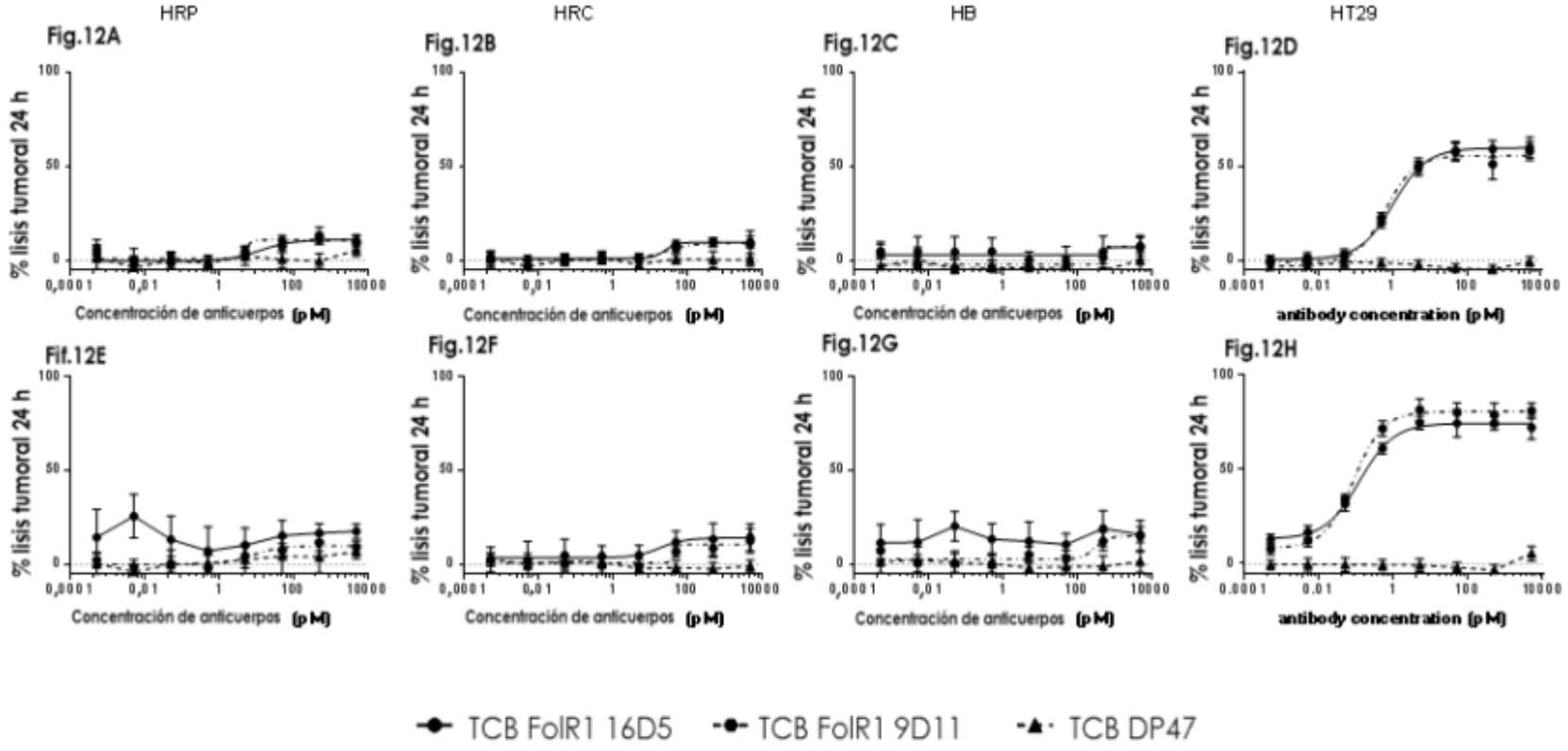

HRP
HRC
HB
HT29
Fig.12A
Fig.12B
Fig.12C
Fig.12D
Fif.12E
Fig.12F
Fig.12G
Fig.12H
% lisis tumoral 24 h
Concentración de anticuerpos (pM)
antibody concentration (pM)
TCB FolR1 16D5
TCB FolR1 9D11
TCB DP47

Fig. 12I

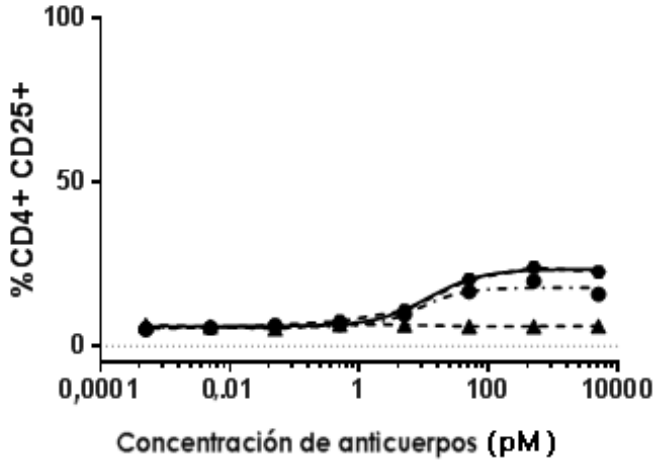


Fig.12J

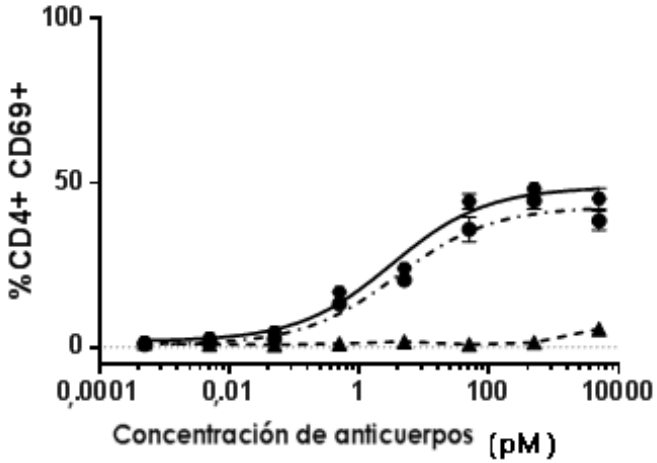


Fig.12K

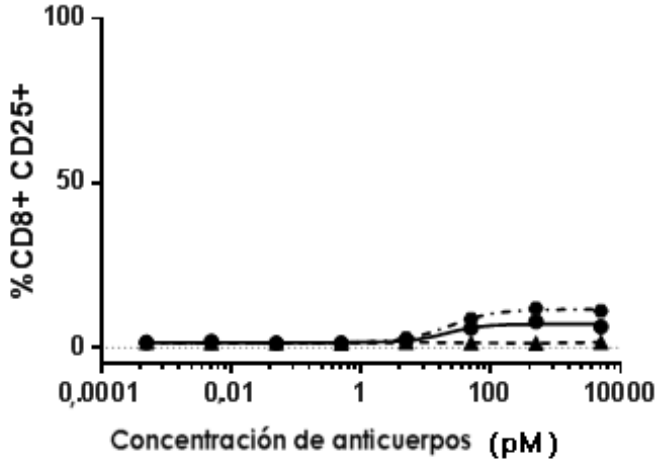
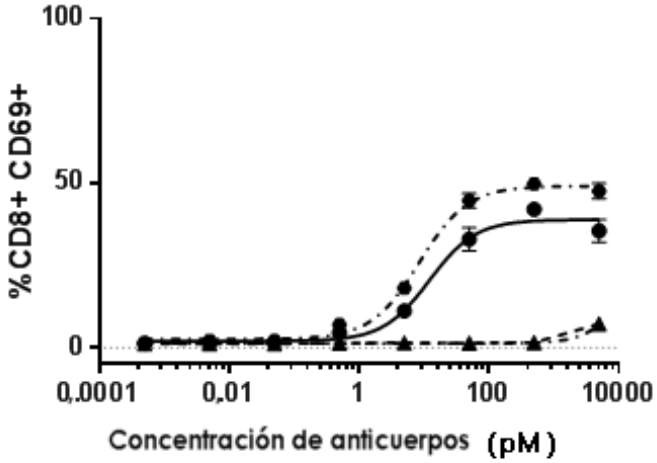


Fig.12L



TCB FolR1 16D5 TCB FolR1 9D11 TCB DP47

Fig. 12M

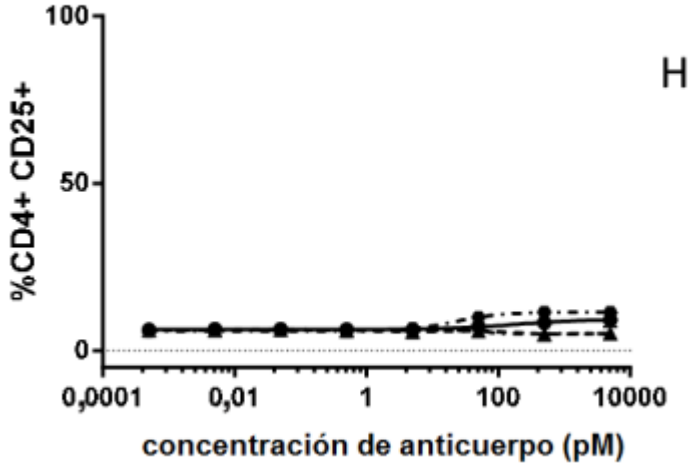


Fig. 12N

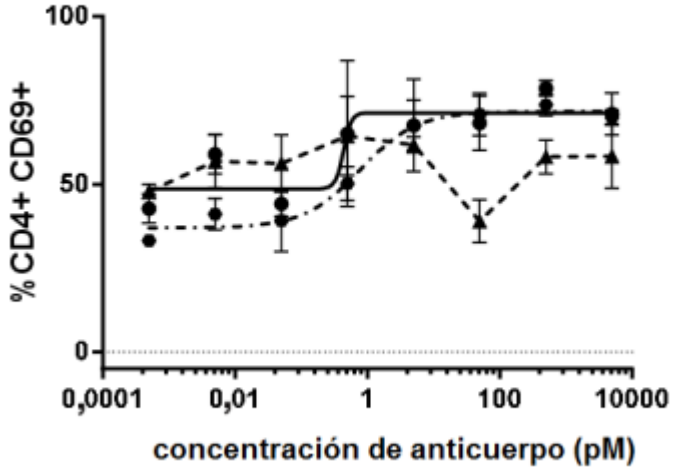


Fig. 12O

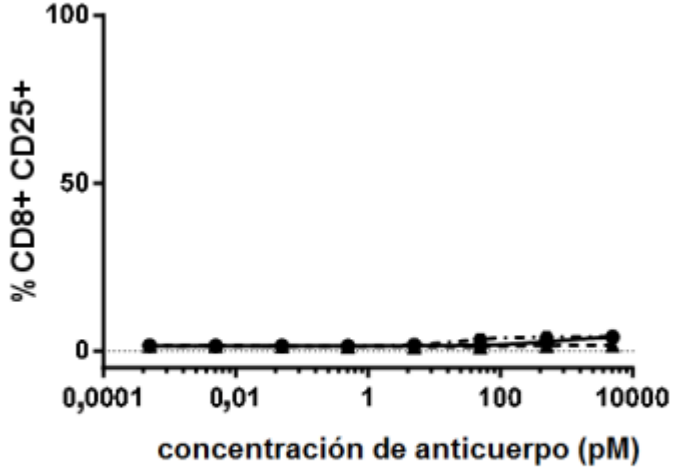
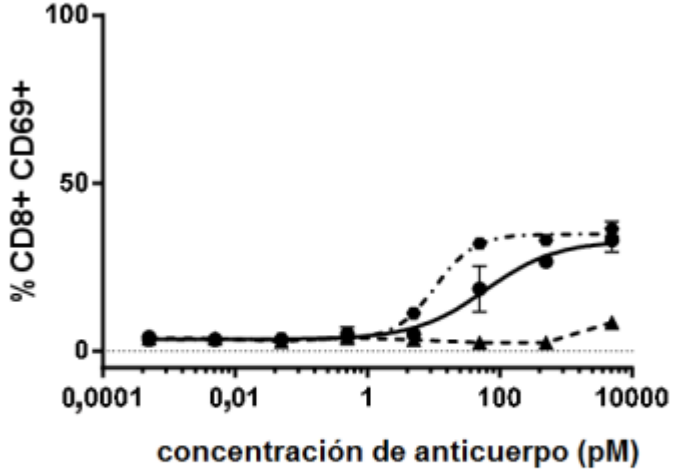
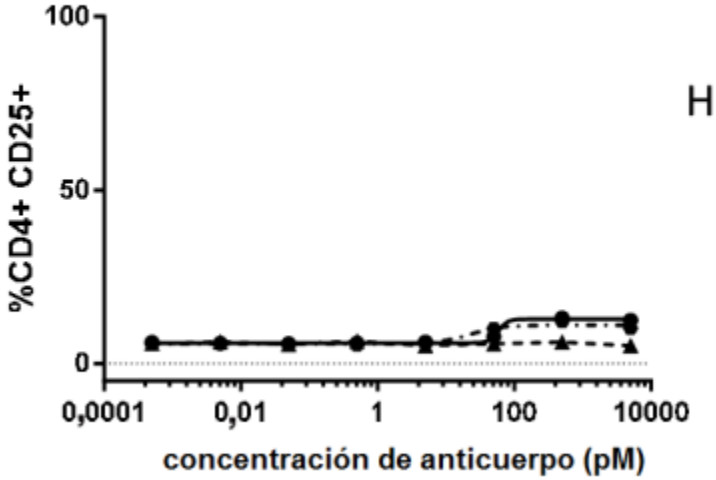


Fig. 12P



TCB de FolR1 16D5 — TCB de FolR1 9D11 — TCB de DP47

Fig. 12Q



HB

Fig. 12R

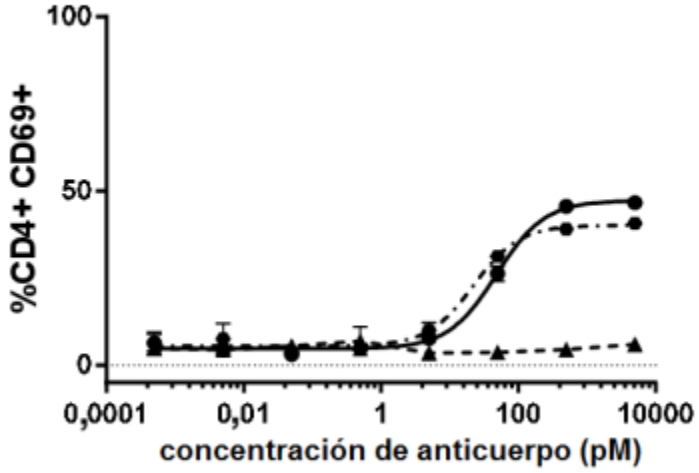


Fig. 12S

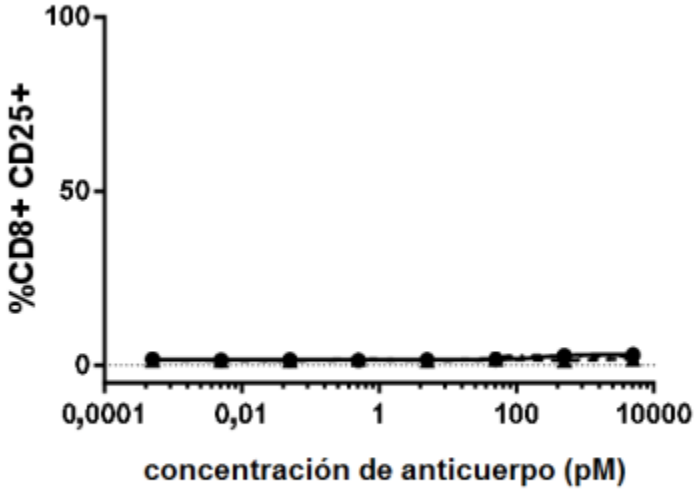
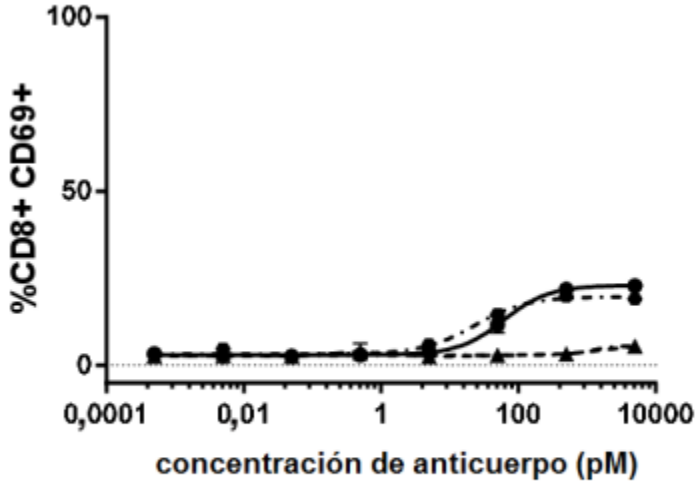
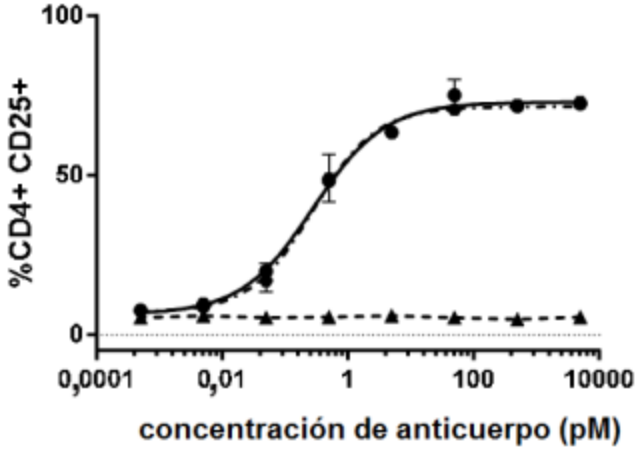


Fig. 12T



TCB de FolR1 16D5 TCB de FolR1 9D11 TCB de DP47

Fig. 12U



HT29

Fig. 12V

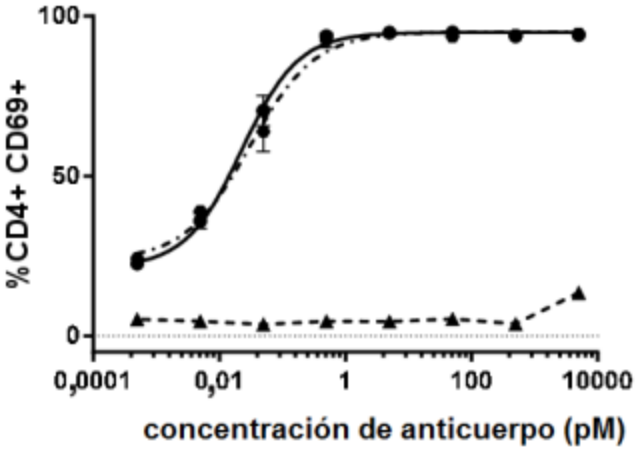


Fig. 12W

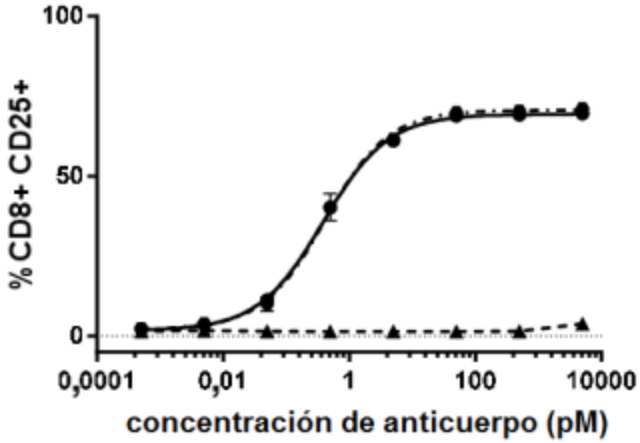
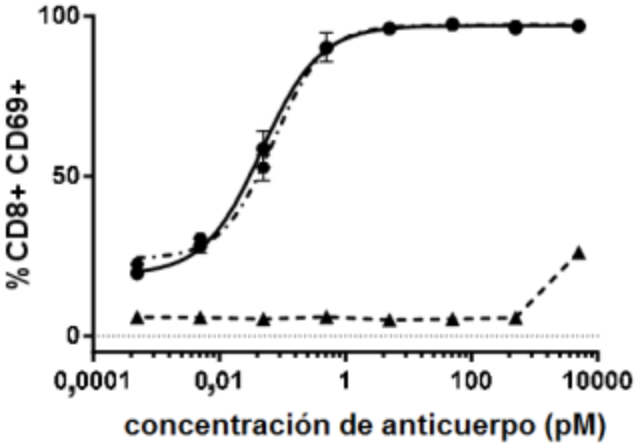


Fig. 12X



TCB de FolR1 16D5 — TCB de FolR1 9D11 — TCB de DP47

Fig. 13A

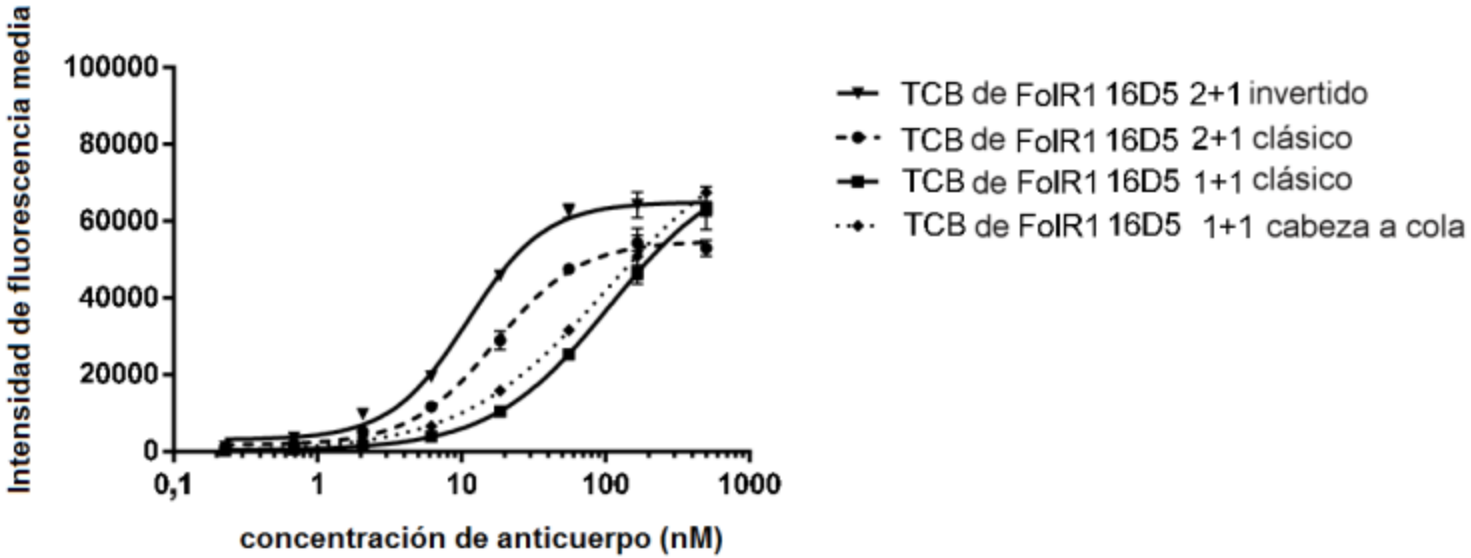

Intensidad de fluorescencia media
100000
80000
60000
40000
20000
0
0,1
1
10
100
1000
concentración de anticuerpo (nM)
TCB de FolR1 16D5 2+1 invertido
TCB de FolR1 16D5 2+1 clásico
TCB de FolR1 16D5 1+1 clásico
TCB de FolR1 16D5 1+1 cabeza a cola

Fig. 13B

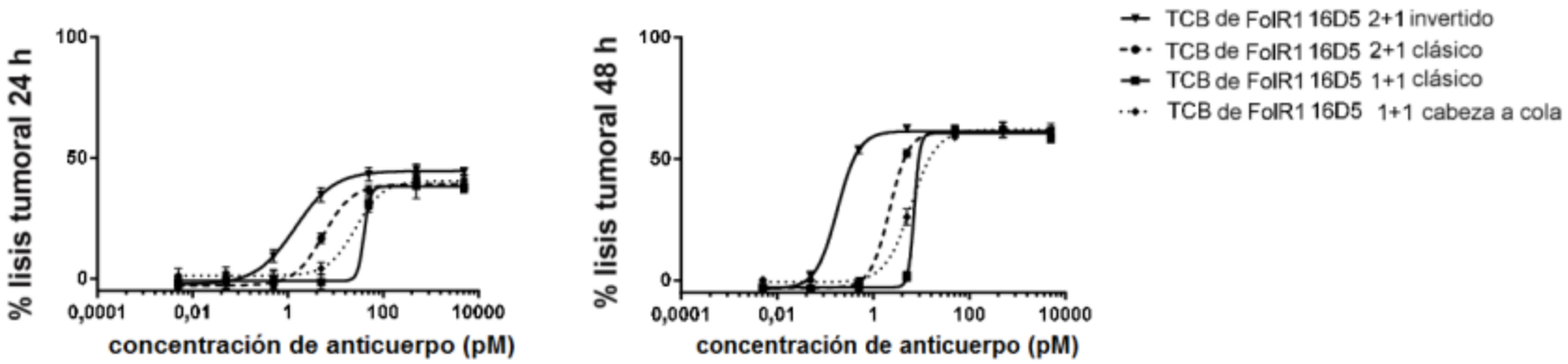

% lisis tumoral 24 h
100
50
0
0,0001
0,01
1
100
10000
concentración de anticuerpo (pM)
% lisis tumoral 48 h
100
50
0
0,0001
0,01
1
100
10000
concentración de anticuerpo (pM)
TCB de FolR1 16D5 2+1 invertido
TCB de FolR1 16D5 2+1 clásico
TCB de FolR1 16D5 1+1 clásico
TCB de FolR1 16D5 1+1 cabeza a cola

Fig. 13C

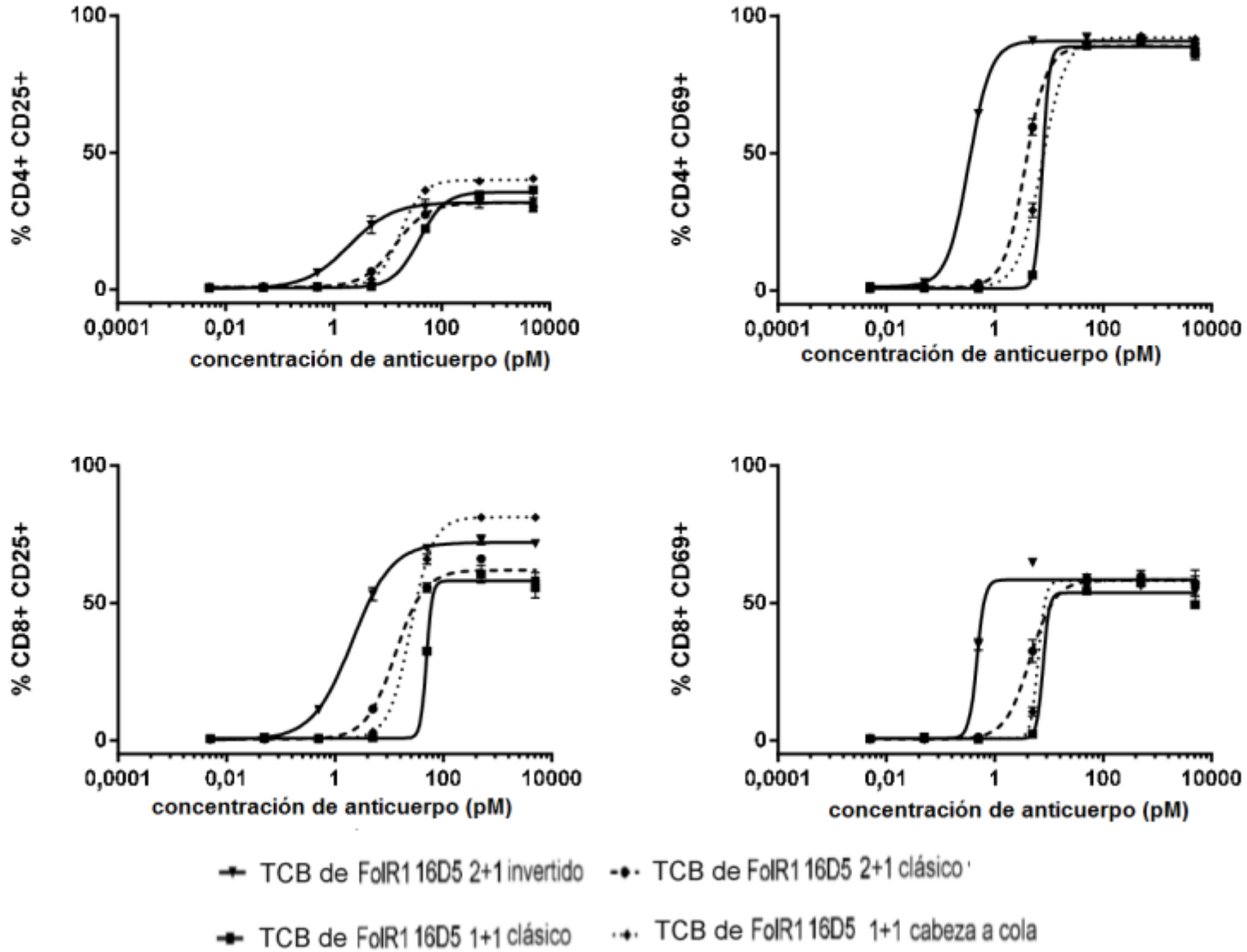

% CD4+ CD25+
% CD4+ CD69+
% CD8+ CD25+
% CD8+ CD69+
100
50
0
0,0001
0,01
1
100
10000
concentración de anticuerpo (pM)
TCB de FolR1 16D5 2+1 invertido
TCB de FolR1 16D5 2+1 clásico
TCB de FolR1 16D5 1+1 clásico
TCB de FolR1 16D5 1+1 cabeza a cola

Fig. 14A

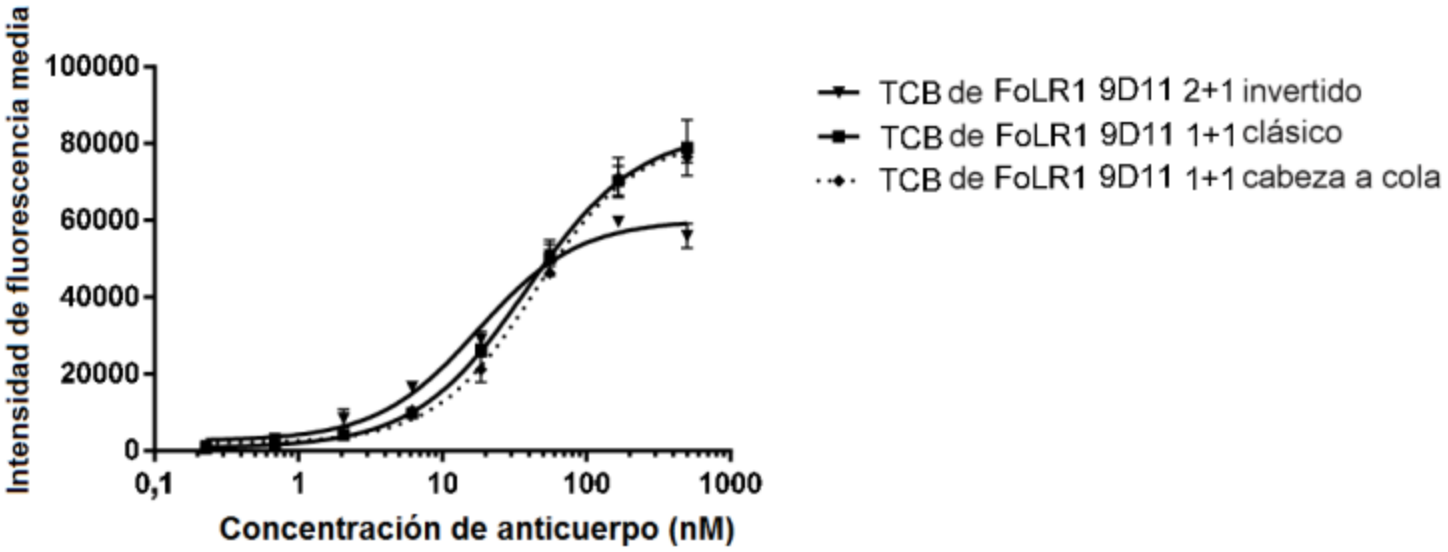

Intensidad de fluorescencia media
100000
80000
60000
40000
20000
0
0,1
1
10
100
1000
Concentración de anticuerpo (nM)
TCB de FoLR1 9D11 2+1 invertido
TCB de FoLR1 9D11 1+1 clásico
TCB de FoLR1 9D11 1+1 cabeza a cola

Fig. 14B

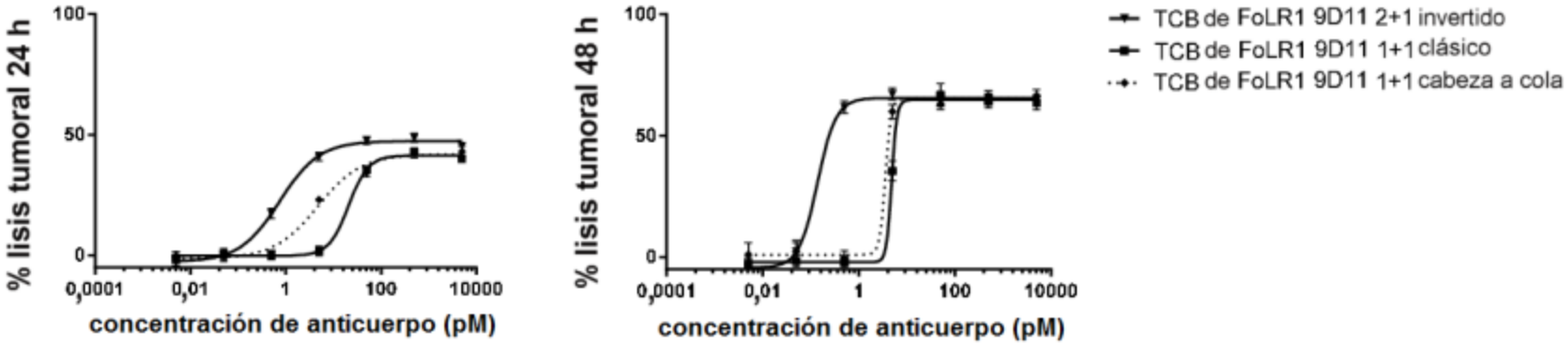

% lisis tumoral 24 h
100
50
0
0,0001
0,01
1
100
10000
concentración de anticuerpo (pM)
% lisis tumoral 48 h
100
50
0
0,0001
0,01
1
100
10000
concentración de anticuerpo (pM)
TCB de FoLR1 9D11 2+1 invertido
TCB de FoLR1 9D11 1+1 clásico
TCB de FoLR1 9D11 1+1 cabeza a cola

Fig. 14C

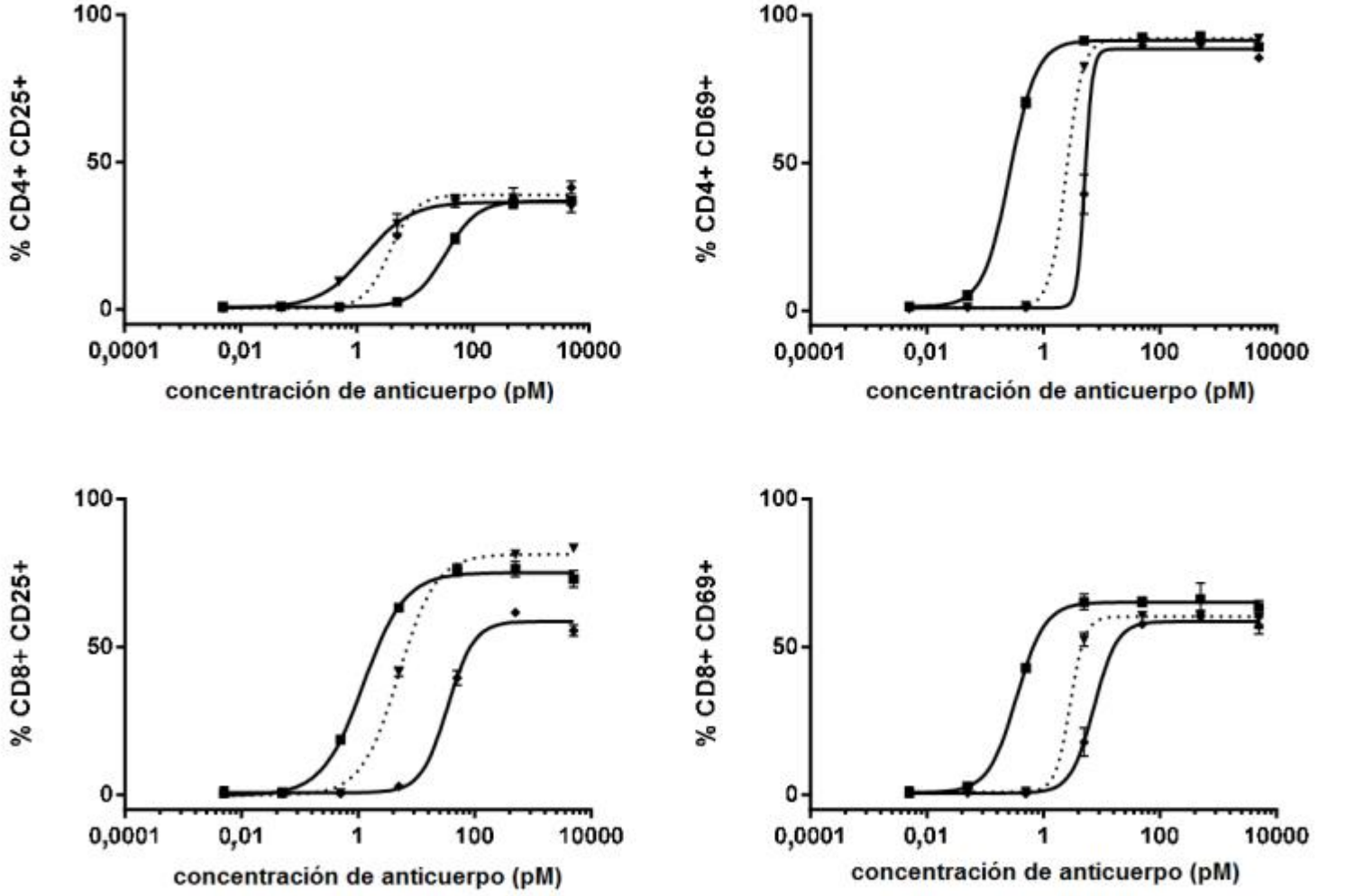
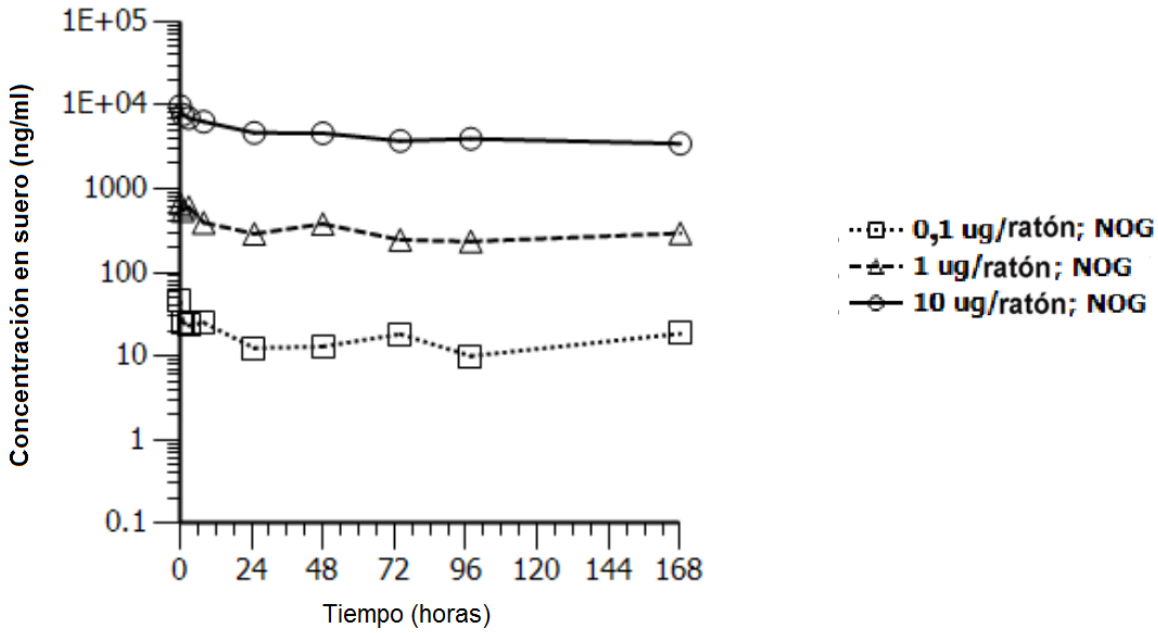

% CD4+ CD25+
% CD4+ CD69+
% CD8+ CD25+
% CD8+ CD69+
100
50
0
0,0001
0,01
1
100
10000
concentración de anticuerpo (pM)
TCB de FoLR1 9D11 2+1 invertido
TCB de FoLR1 9D11 1+1 clásico
TCB de FoLR1 9D11 1+1 cabeza a cola

Fig. 15



Dosis ug/ratón	Semivida Día
0,1	7,5
1	5,9
10	13,6

Fig. 16

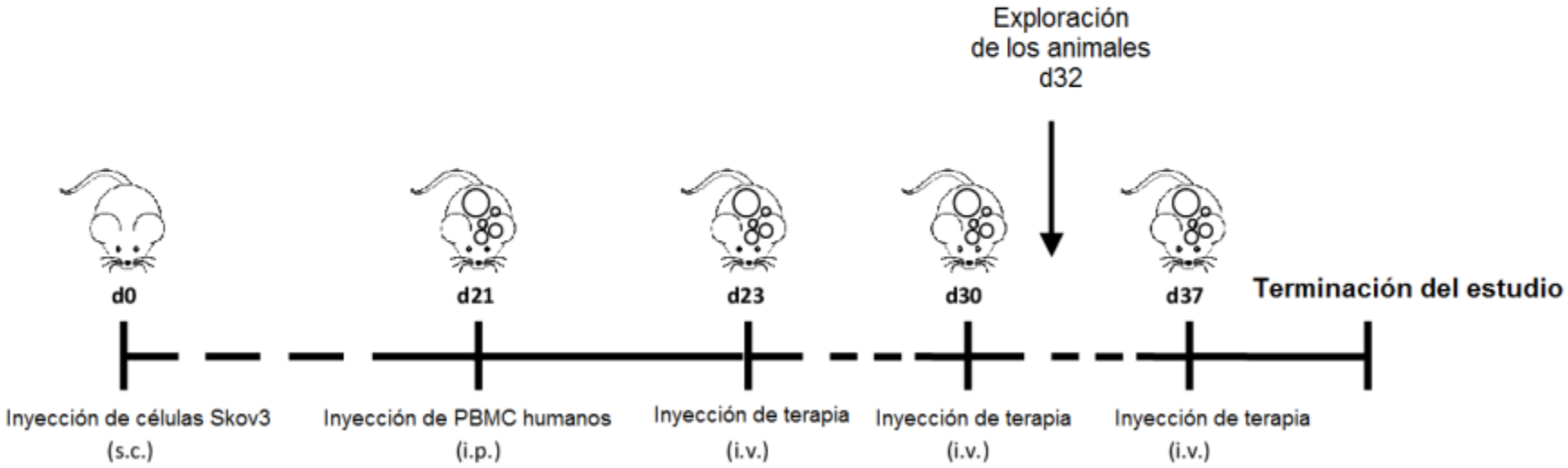

Exploración
de los animales
d32
d0
d21
d23
d30
d37
Terminación del estudio
Inyección de células Skov3
(s.c.)
Inyección de PBMC humanos
(i.p.)
Inyección de terapia
(i.v.)
Inyección de terapia
(i.v.)
Inyección de terapia
(i.v.)

Fig. 17A

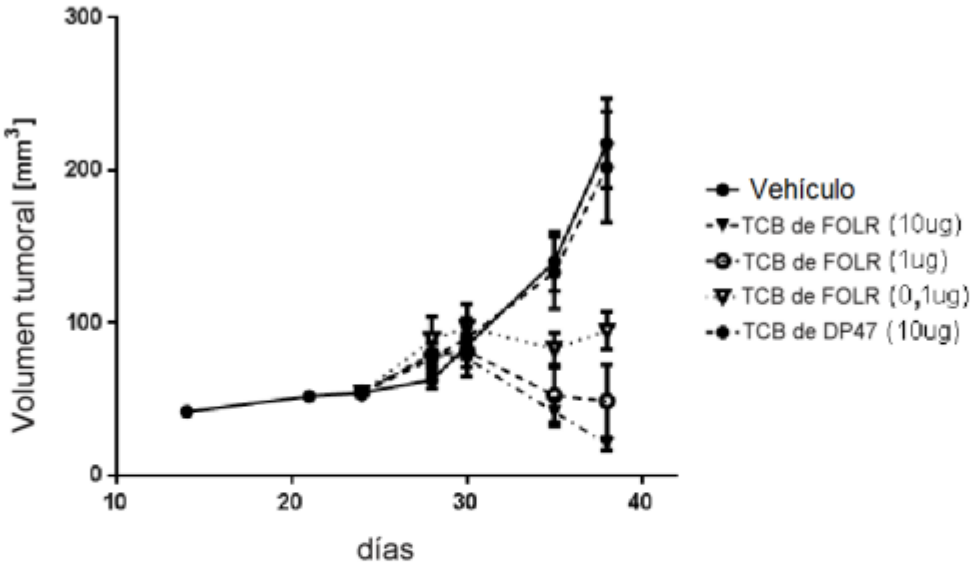


Fig. 17B

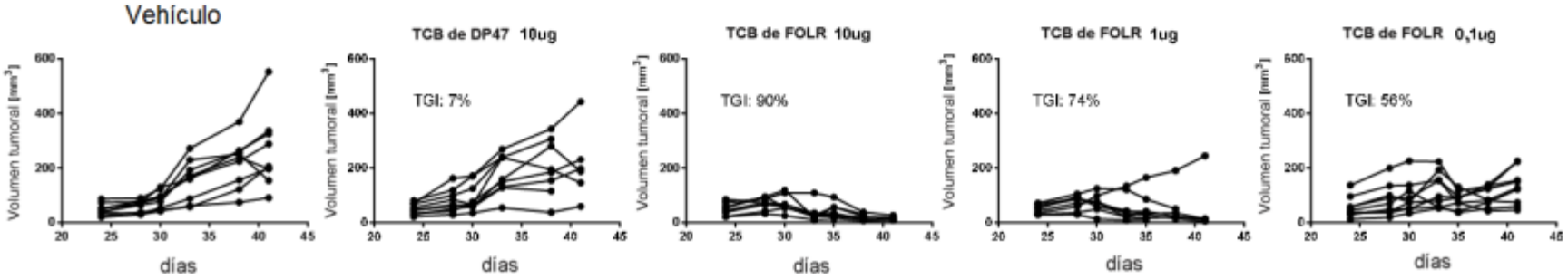
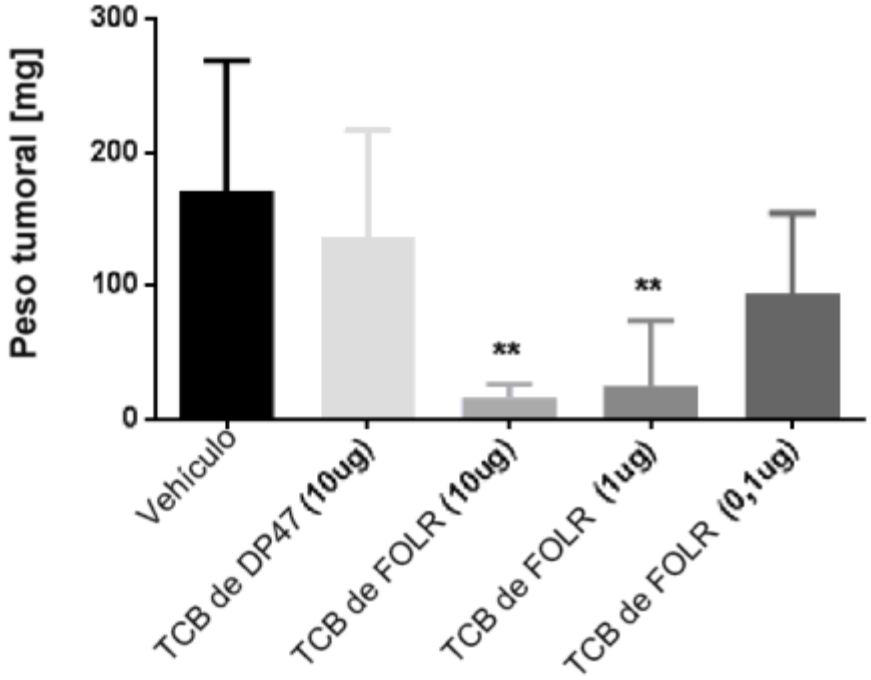


Fig. 18



** p≤0,01 (comparado con grupo de vehículo)
Prueba T: no emparejada, de dos colas

Fig. 19A

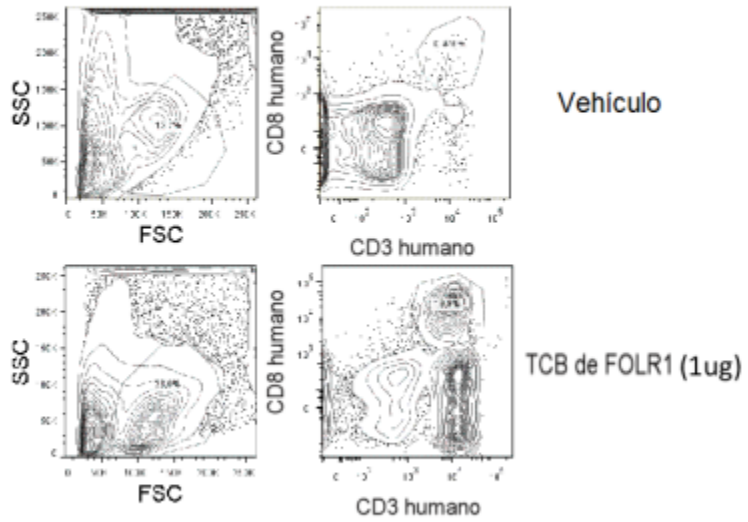
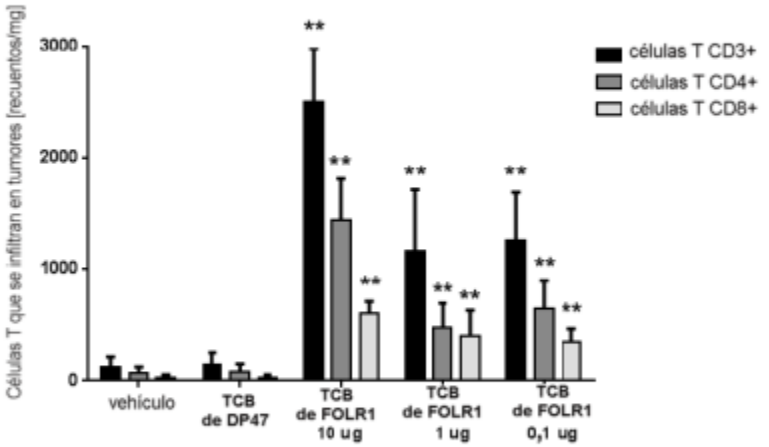


Fig. 19B



** $p \leq 0{,}01$ (comparado con grupo de vehículo)

Prueba T: no emparejada, de dos colas

Fig. 20A

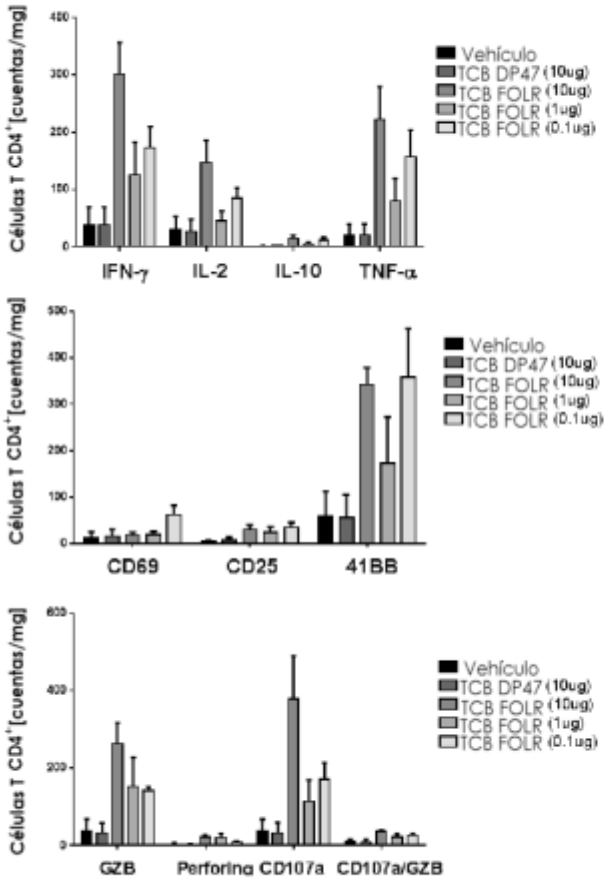


Fig. 20B

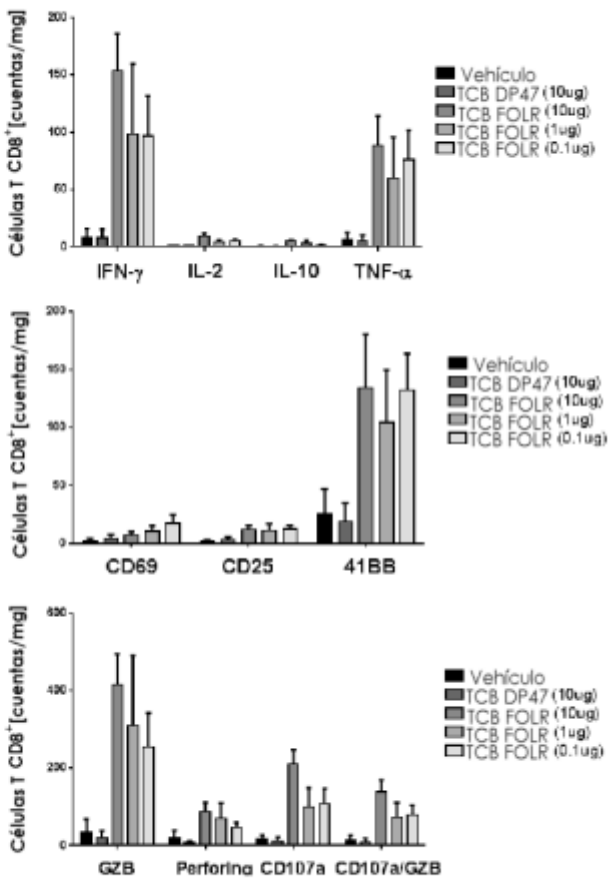


Fig. 21A

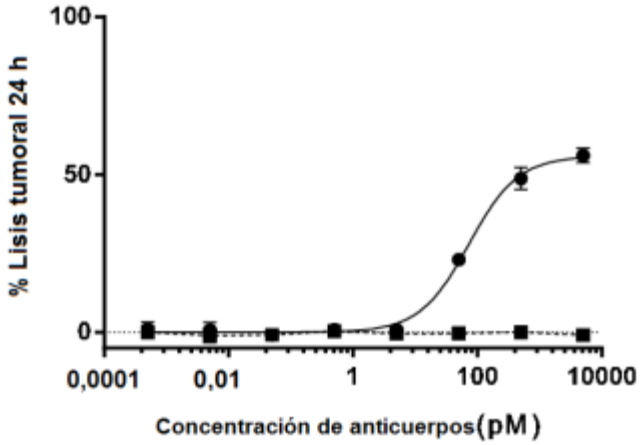
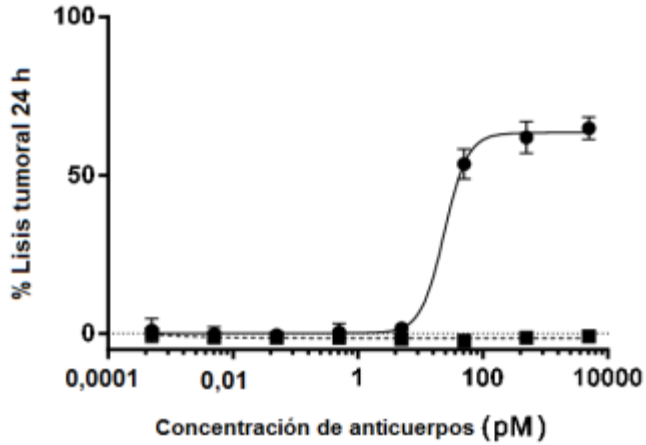


Fig. 21B



TCB DP47 TCB FolR1 kappa lambda

Fig. 22A

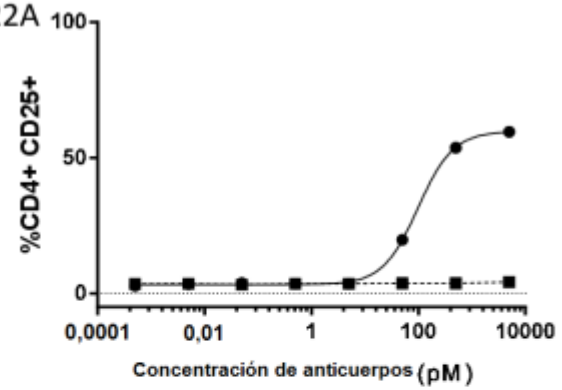


Fig. 22B

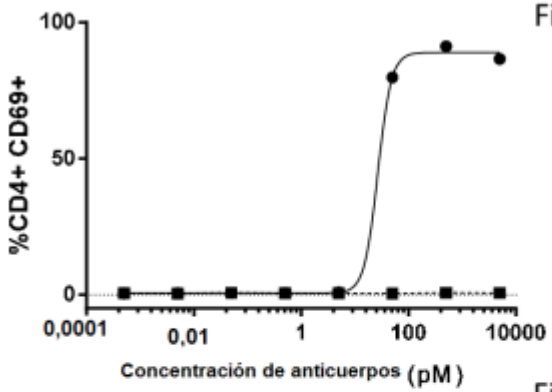


Fig. 22C

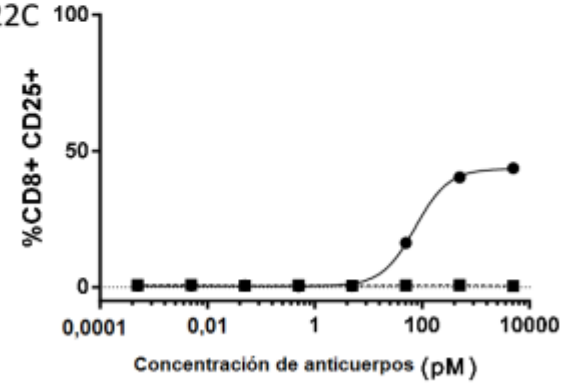
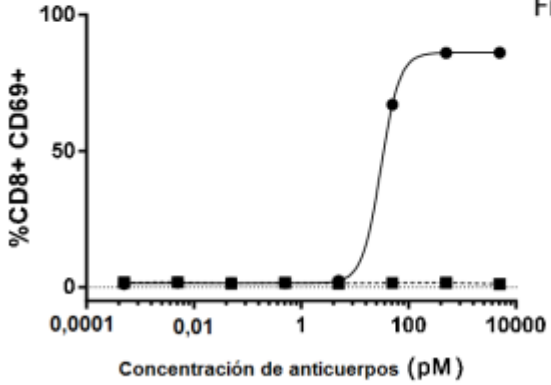


Fig. 22D



DP47 TCB

kappa lambda FolR1 TCB

Fig. 23A

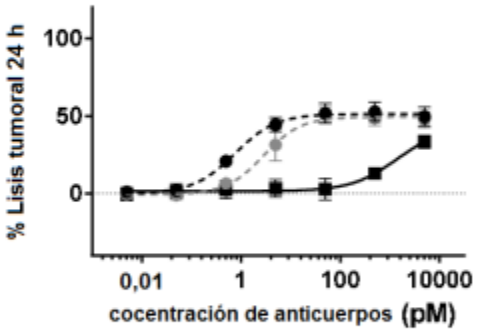
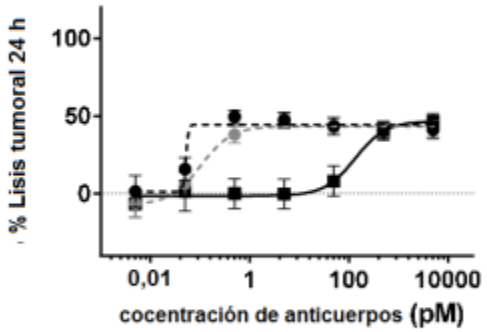


Fig. 23B



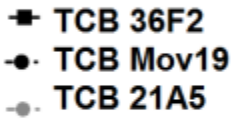


Fig. 24A

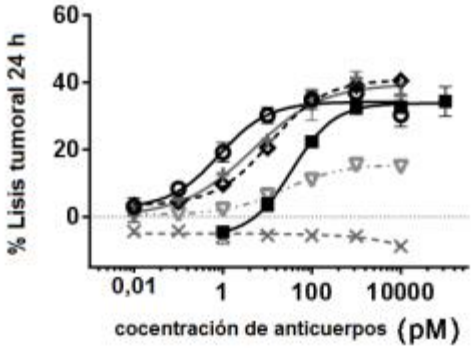


Fig. 24B

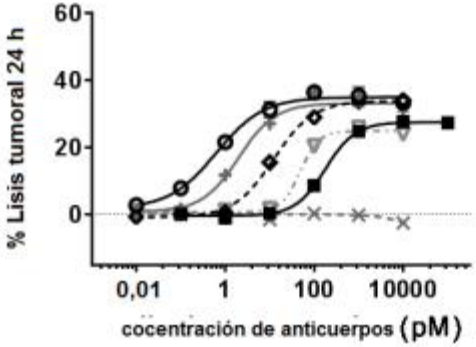
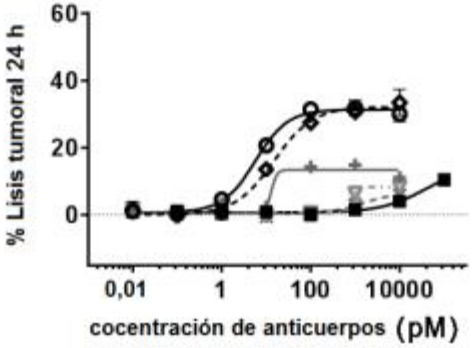


Fig. 24C



- TCB 36F2
- TCB 16D5
- TCB 16D5 clásico
- HT 16D5
- 16D5 1+1
- TCB DP47

Fig. 25A

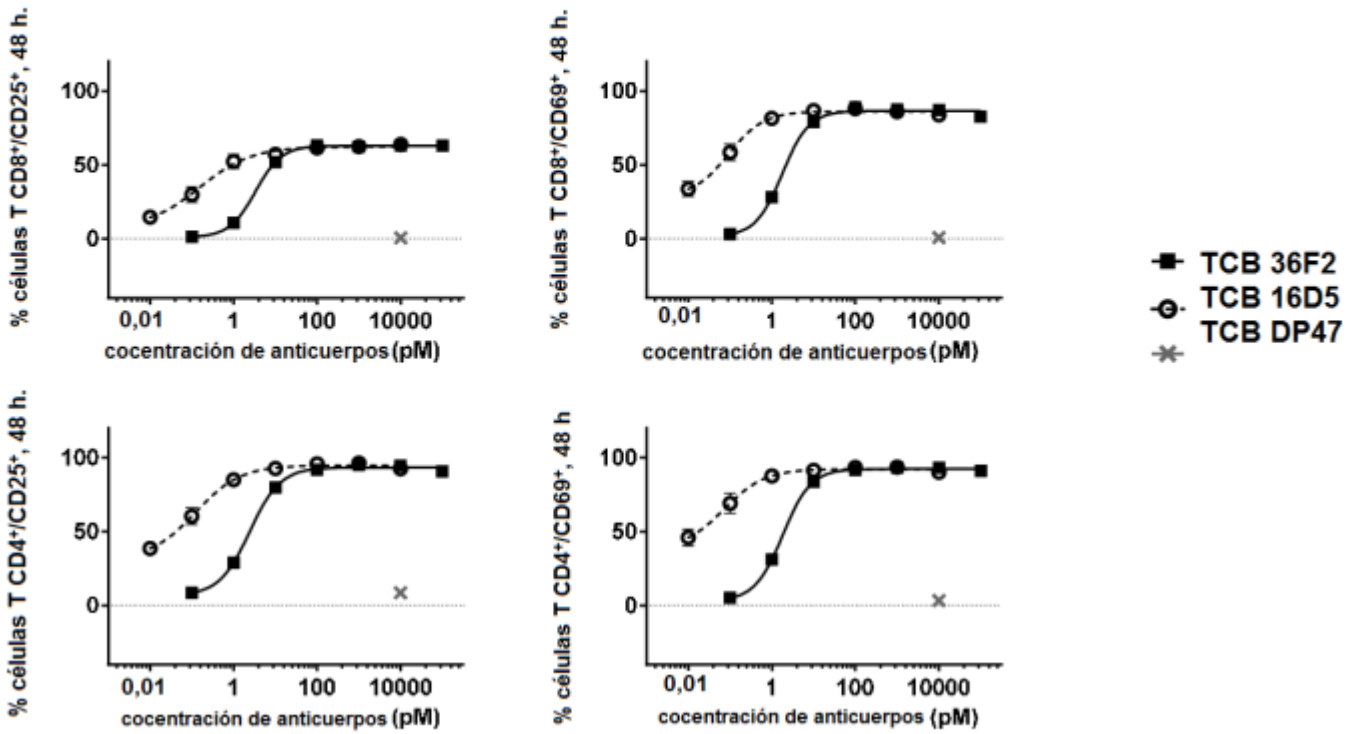

% células T CD8+/CD25+, 48 h.
% células T CD8+/CD69+, 48 h.
% células T CD4+/CD25+, 48 h.
% células T CD4+/CD69+, 48 h
100
50
0
0,01
1
100
10000
cocentración de anticuerpos (pM)
TCB 36F2
TCB 16D5
TCB DP47

Fig. 25B

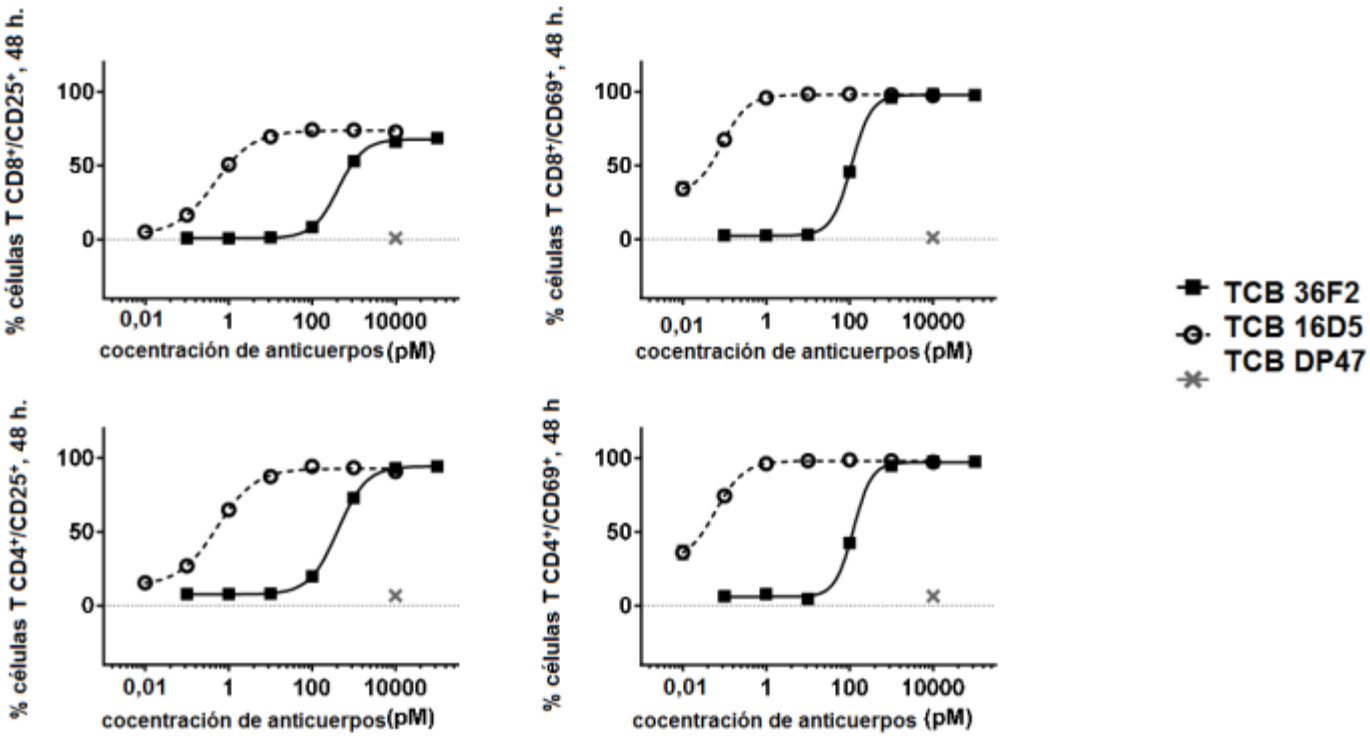

% células T CD8+/CD25+, 48 h.
100
50
0
0,01
1
100
10000
cocentración de anticuerpos (pM)
% células T CD8+/CD69+, 48 h.
% células T CD4+/CD25+, 48 h.
% células T CD4+/CD69+, 48 h
TCB 36F2
TCB 16D5
TCB DP47

Fig. 25C

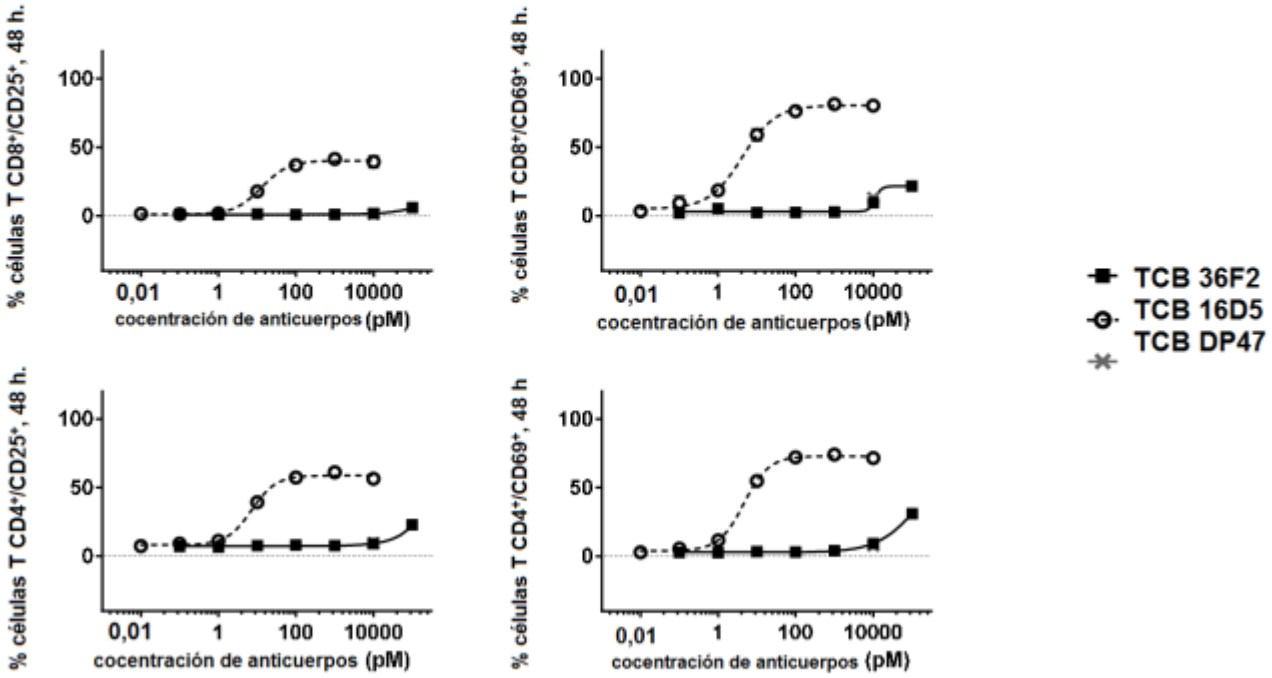

% células T CD8+/CD25+, 48 h.
% células T CD8+/CD69+, 48 h.
% células T CD4+/CD25+, 48 h.
% células T CD4+/CD69+, 48 h
100
50
0
0,01
1
100
10000
cocentración de anticuerpos (pM)
TCB 36F2
TCB 16D5
TCB DP47

Fig. 26A

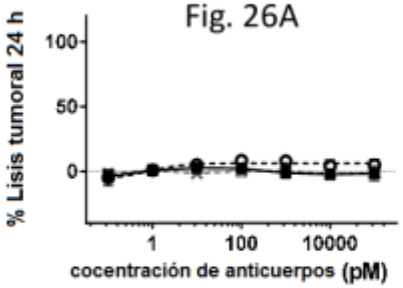


Fig. 26B

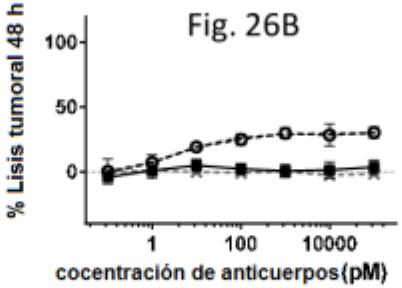


Fig. 26C

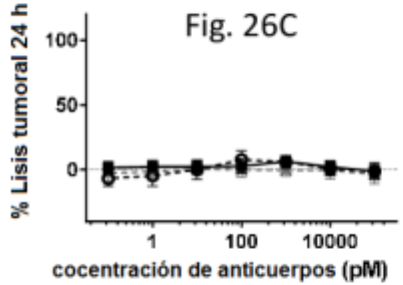


Fig. 26D

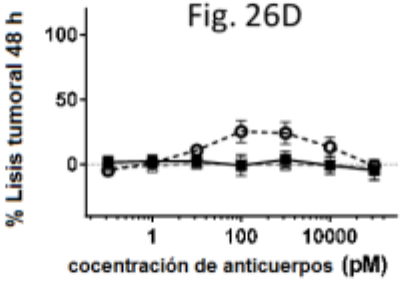


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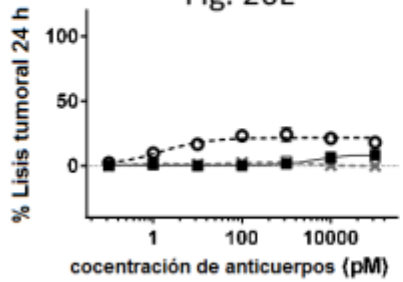
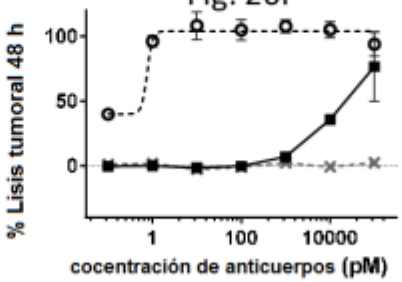


Fig. 26F



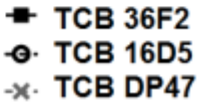


Fig. 27

Línea celular	Sitios de unión	Línea celular	Sitios de unión
Hela	2'240'716	Epitelio bronquial	492
Skov3	91'510	Epitelio del plexo coroide	104
OVCAR5	22'077	Epitelio cortical renal	312
HT29	10'135	Epitelio pigmentario retinal	822
MKN45	54	Skov3	69'890

Fig. 28A

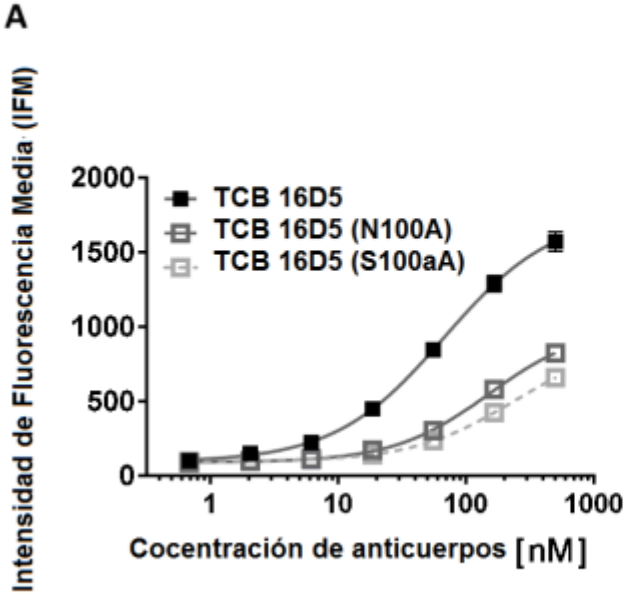
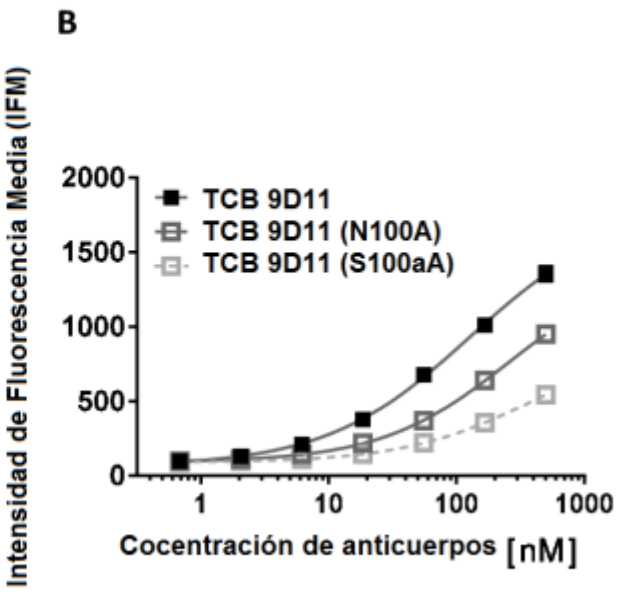


Fig. 28B



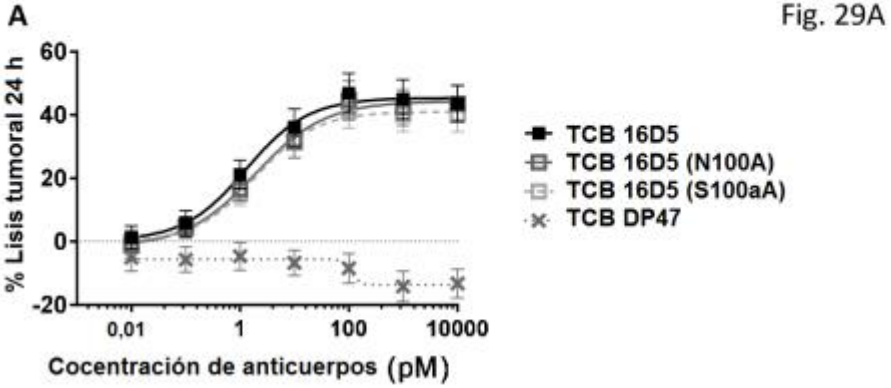


Fig. 29A

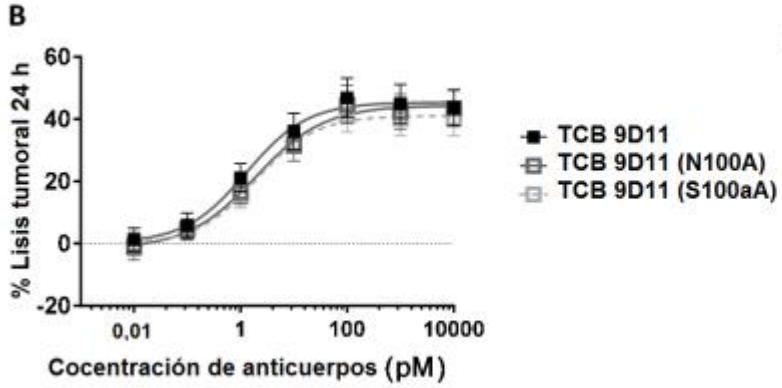
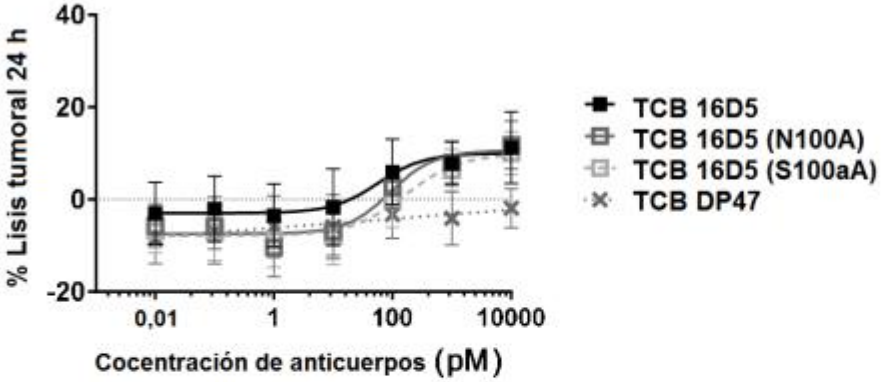


Fig. 29B

A

Fig. 30A



B

Fig. 30B

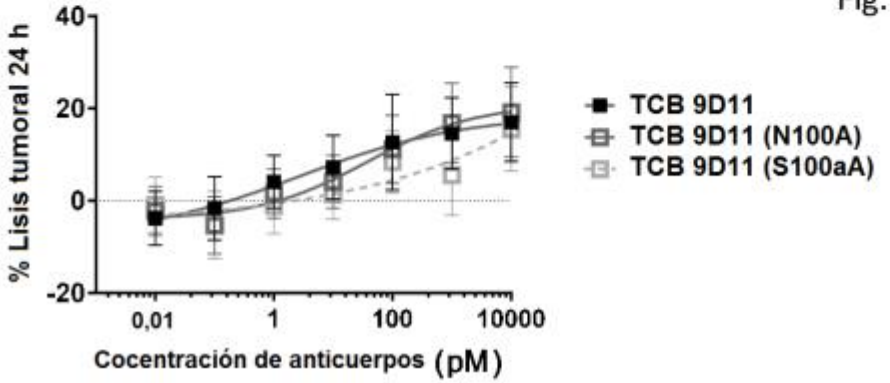


Fig. 31A

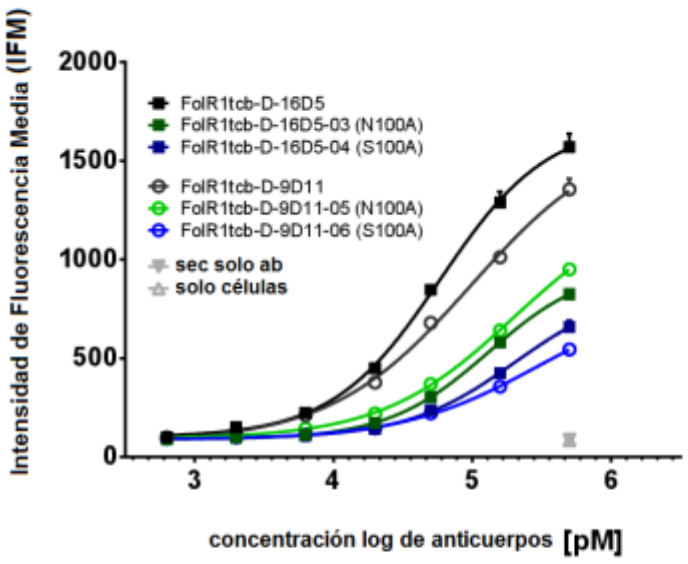
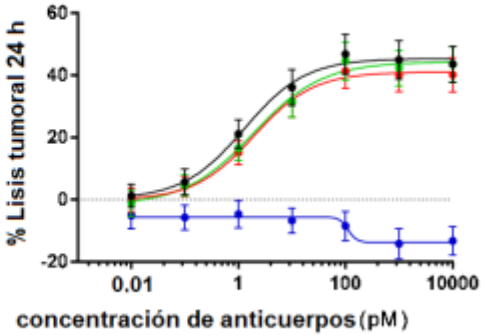


Fig. 31B



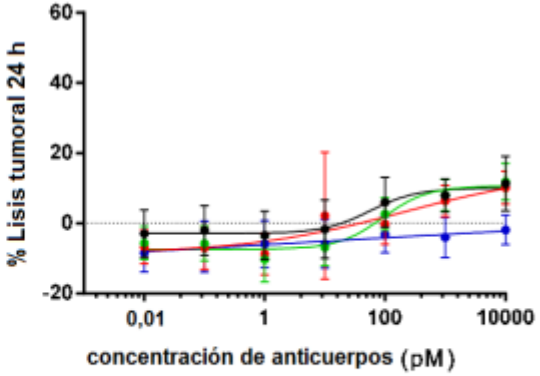


Fig. 31C

Fig. 32A

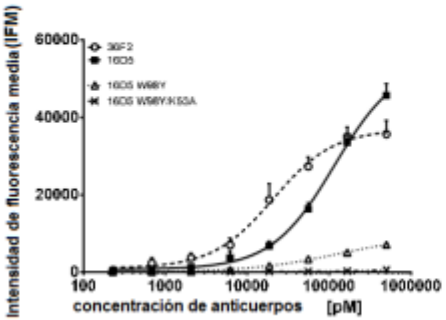


Fig. 32B

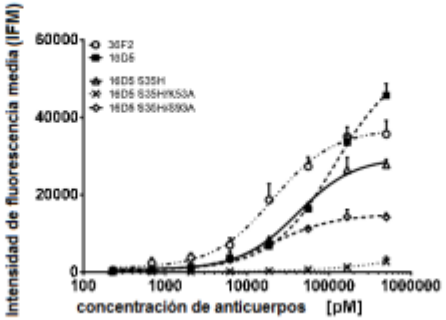


Fig. 32C

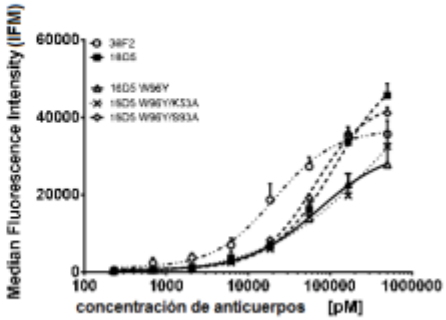


Fig. 32D

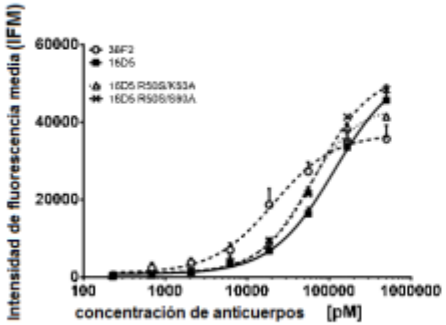


Fig. 32E

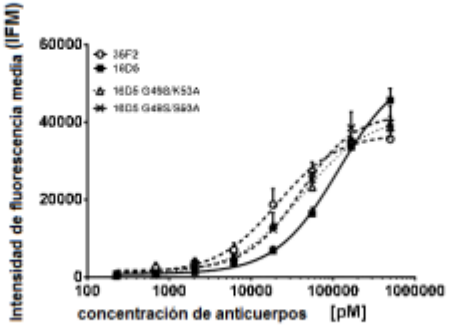


Fig. 33

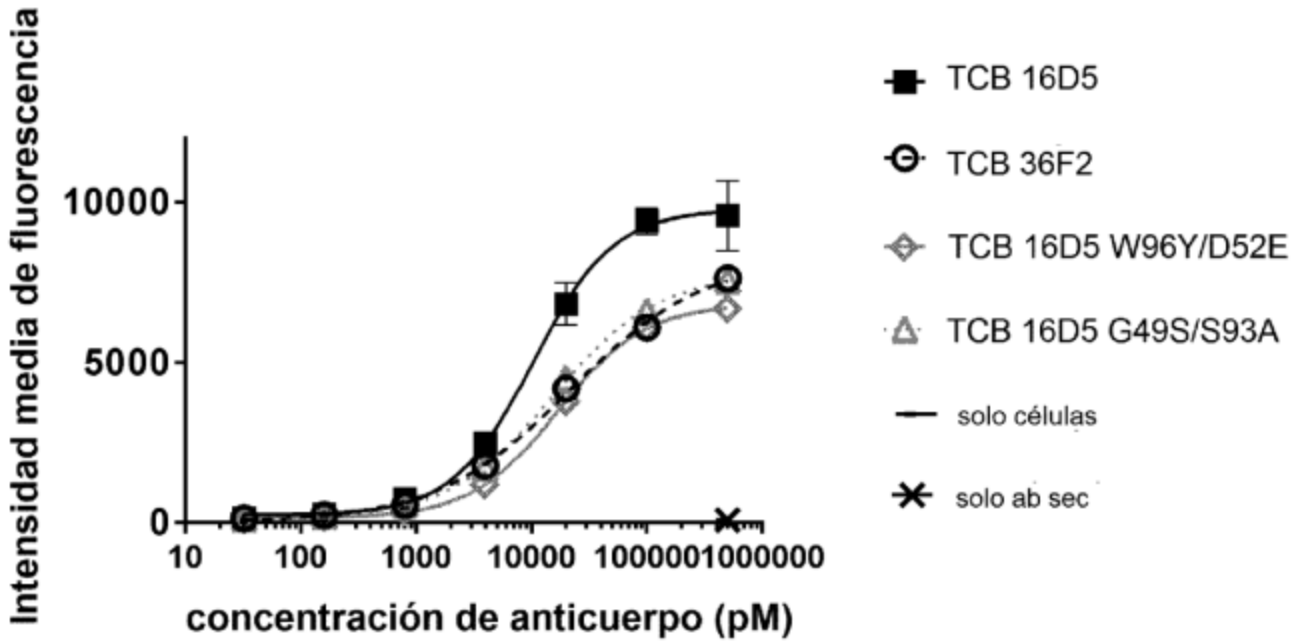

Intensidad media de fluorescencia
10000
5000
0
10
100
1000
10000
100000
1000000
concentración de anticuerpo (pM)
TCB 16D5
TCB 36F2
TCB 16D5 W96Y/D52E
TCB 16D5 G49S/S93A
solo células
solo ab sec

Fig. 34A

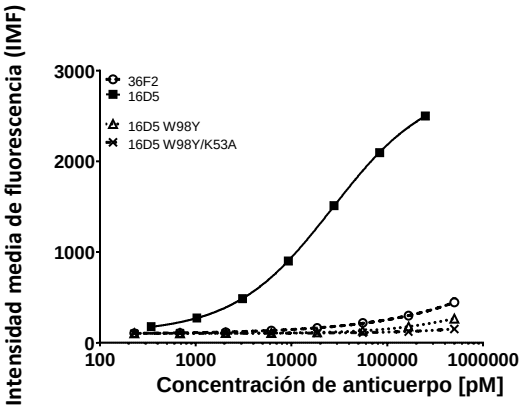


Fig. 34B

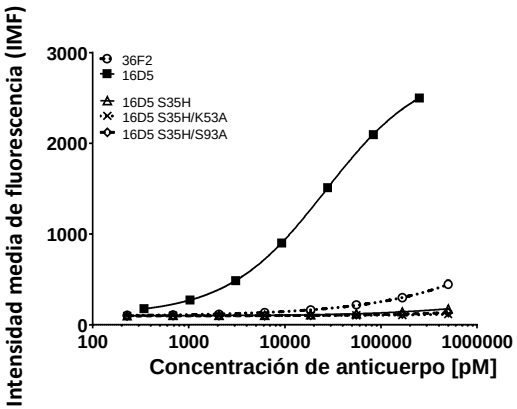


Fig. 34C

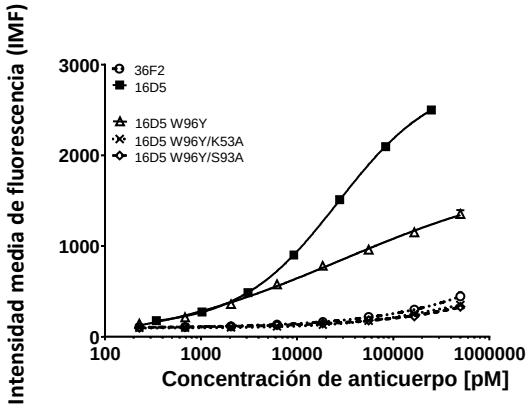


Fig. 34D

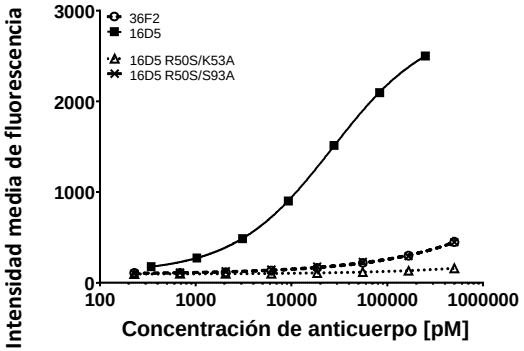


Fig. 34E

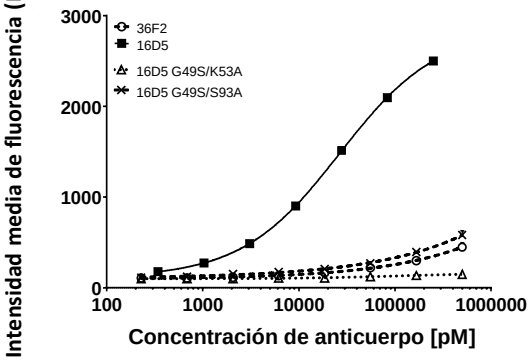


Fig. 35A

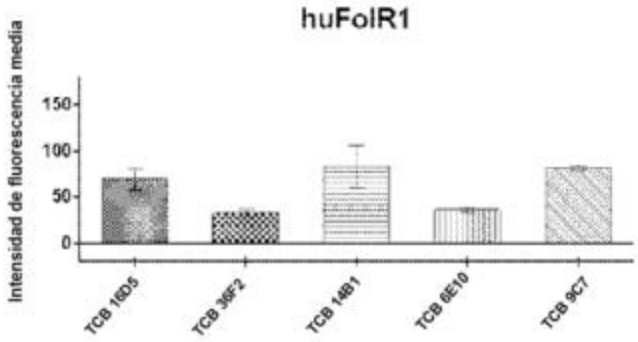
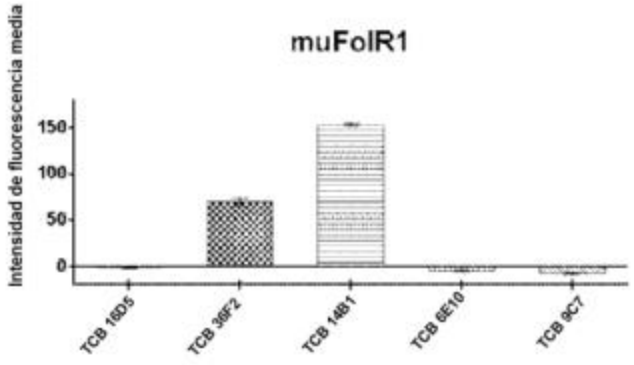


Fig. 35B



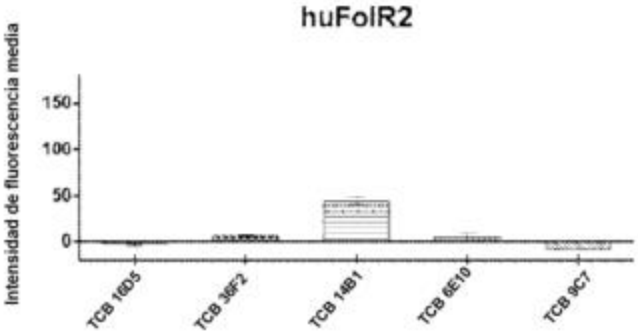


Fig. 35C

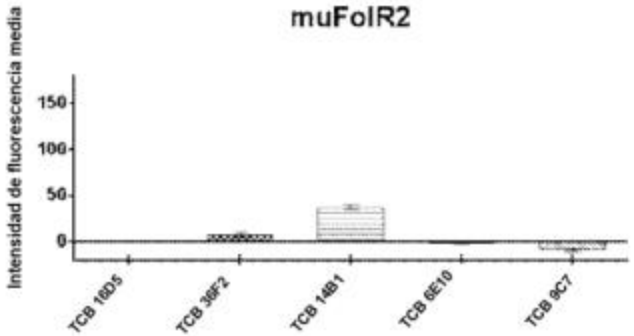


Fig. 35D

Fig. 36A

Fig. 36B

Fig. 36C

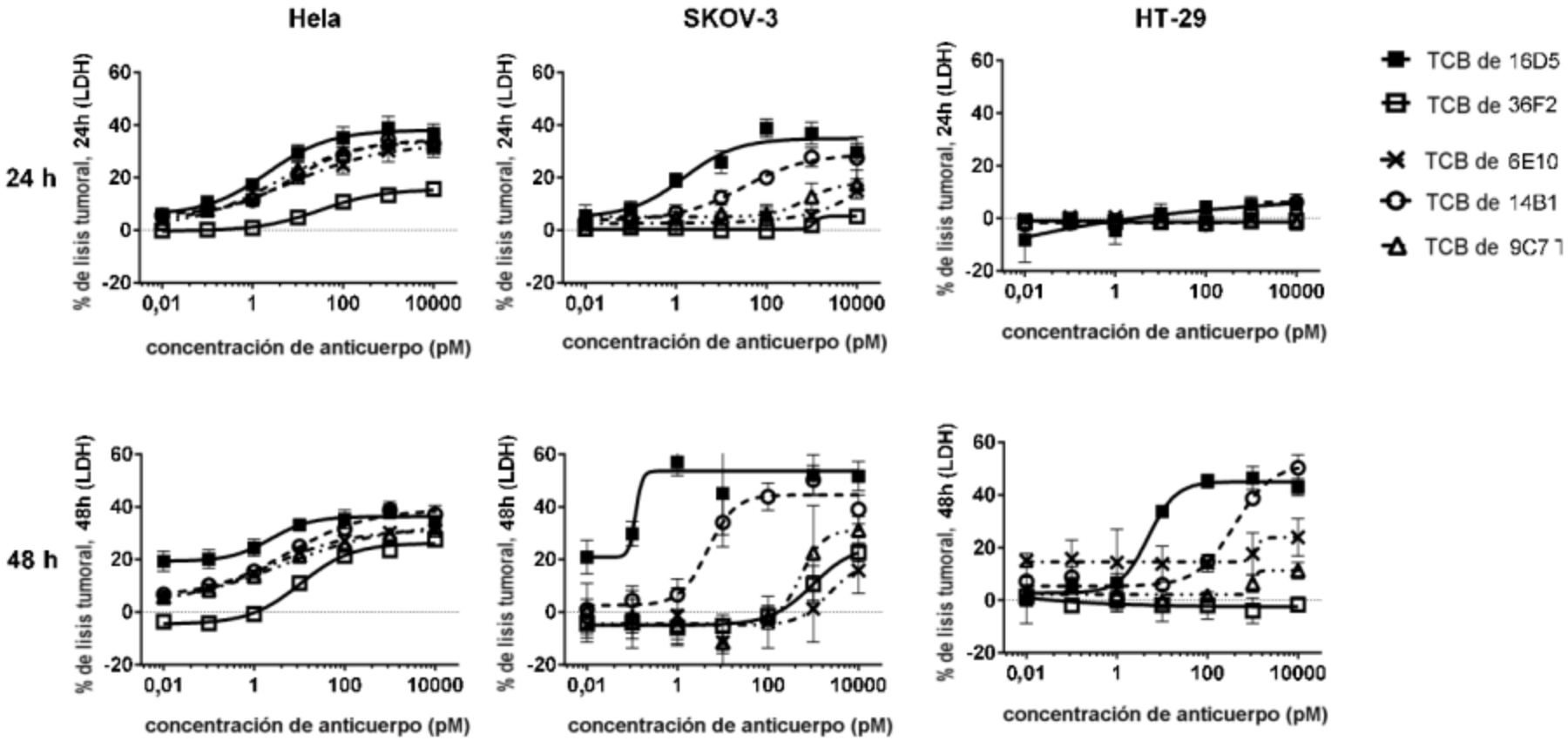


Fig. 36D

Fig. 36E

Fig. 36F

Fig. 37A

Fig. 37B

Fig. 37C

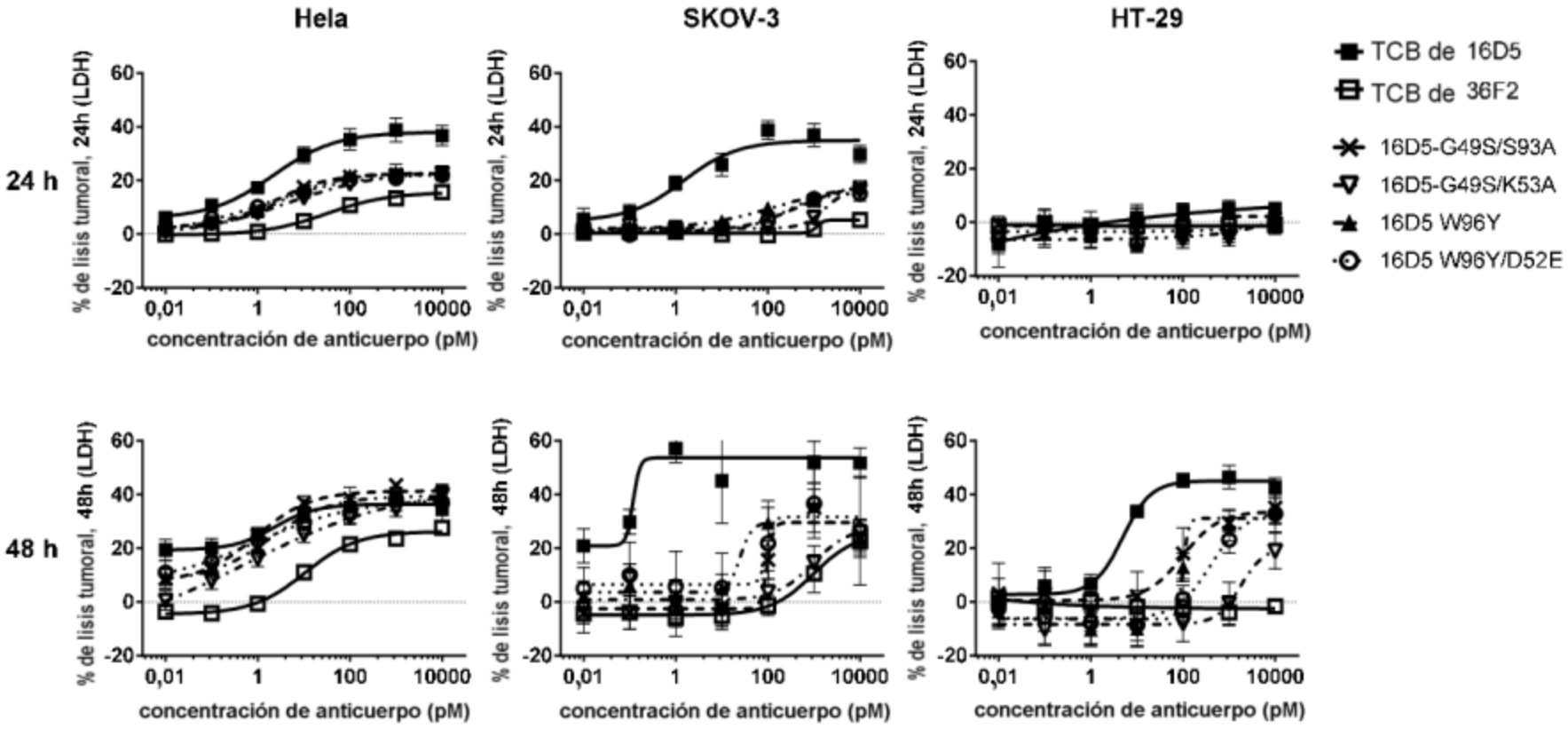


Fig. 37D

Fig. 37E

Fig. 37F

Fig. 38A

Fig. 38B

Fig. 38C

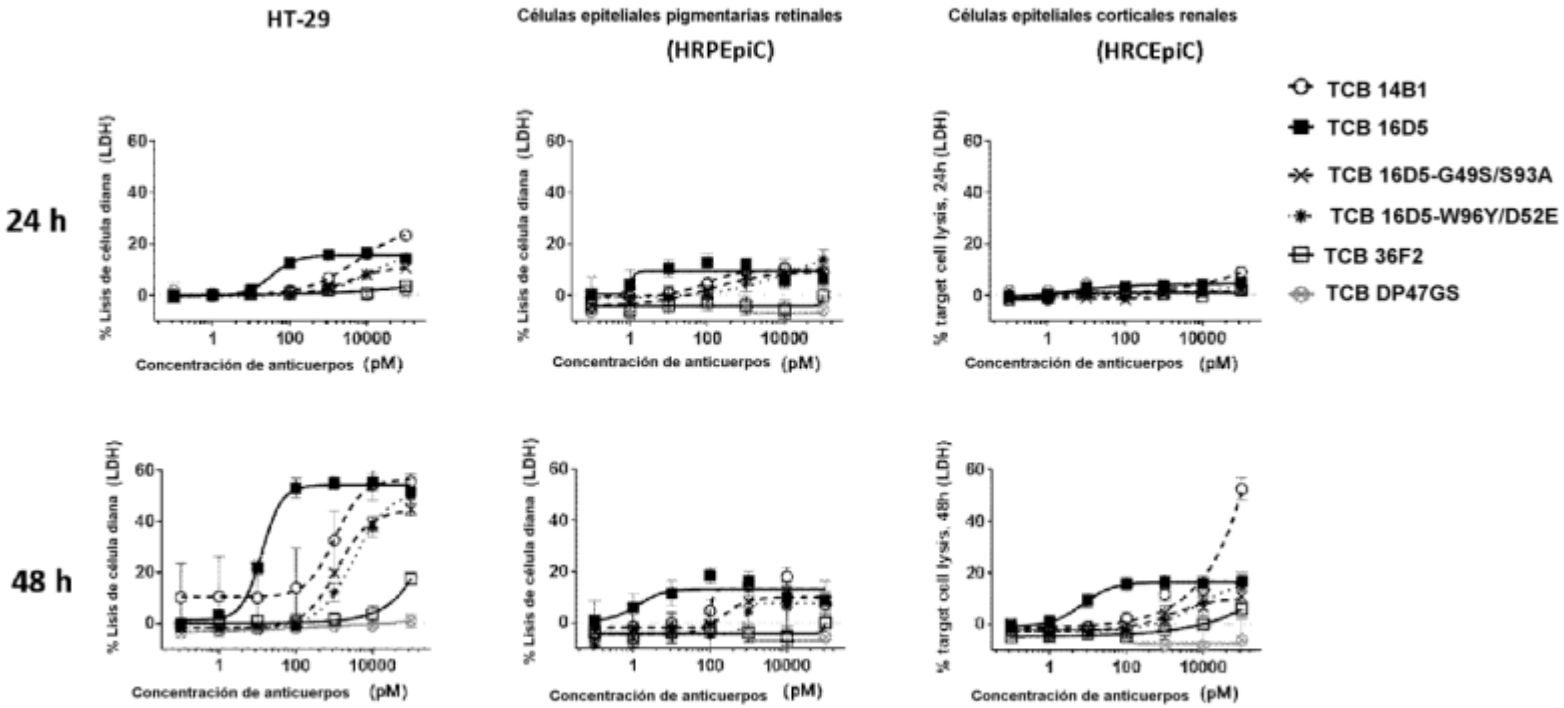


Fig. 38D

Fig. 38E

Fig. 38F

Fig. 39A

Grupo	Construcción	Cepa de ratón	Tumor	Dosis (mg/kg)	Molécula de unión	Semivida (días)	Cmáx (ug/ml)
A	TCB de FOLR1 (clon: 16D5 W96Y/D52E)	NOG	No	0,5	16D5 W96Y/D52E	10,6	16
B	TCB de FOLR1 (clon: 16D5 G49S/S93A)	NOG	No	0,5	16D5 G49S/S93A	4,35	11
C	TCB de FOLR1 (clon: 16D5)	NOG	No	0,5	16D5	13,6	10
D	TCB de FOLR1 (clon: 36F2)	NOG	No	0,5	36F2	3,6	9

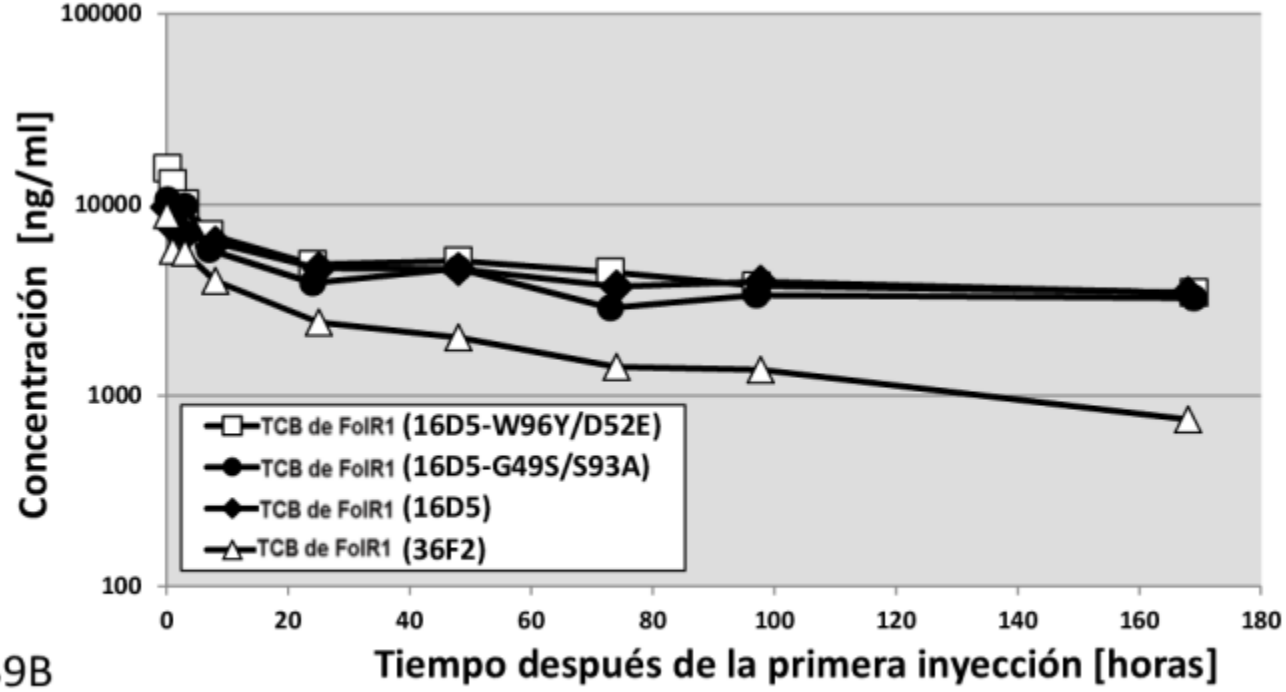


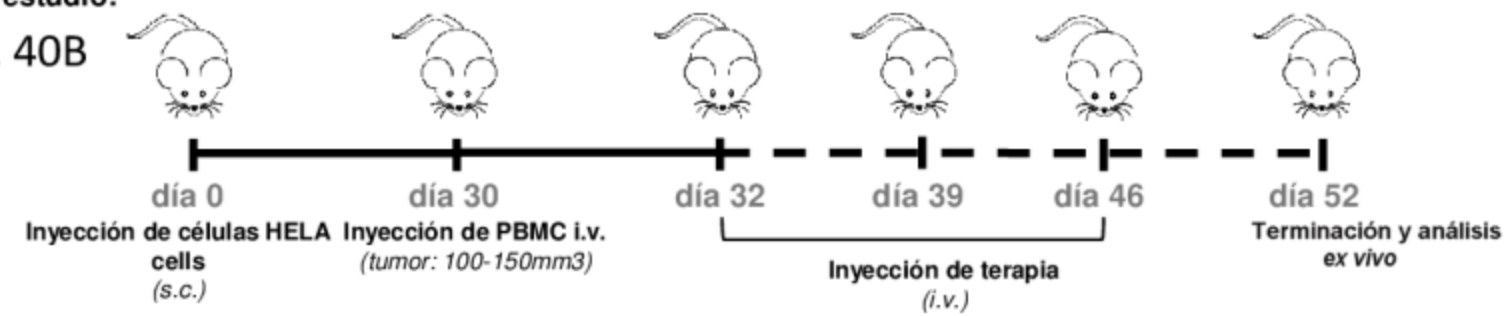
Fig. 39B

Fig. 40A

Grupo	Construcción	Inyección de PMBC (día 30)	Tumor (s.c.)	Inicio del tratamiento	Dosis (mg/kg)	Pauta
A	Vehículo	$10x10^6$	HELA	Día 32	--	una por semana
B	TCB de FOLR1 (clon: 16D5)	$10x10^6$	HELA	Día 32	0,5	una por semana
C	TCB de FOLR1 (clon: 16D5 W96Y/D52E)	$10x10^6$	HELA	Día 32	2,5	una por semana
D	TCB de FOLR1 (clon: 16D5 W96Y/D52E)	$10x10^6$	HELA	Día 32	0,5	una por semana
E	TCB de FOLR1 (clon: 16D5 G49S/S93A)	$10x10^6$	HELA	Día 32	2,5	una por semana
F	TCB de FOLR1 (clon: 16D5 G49S/S93A)	$10x10^6$	HELA	Día 32	0,5	una por semana

Protocolo del estudio:

Fig. 40B



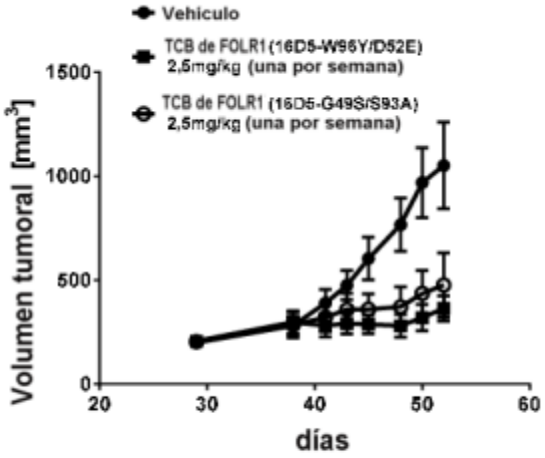


Fig. 40C

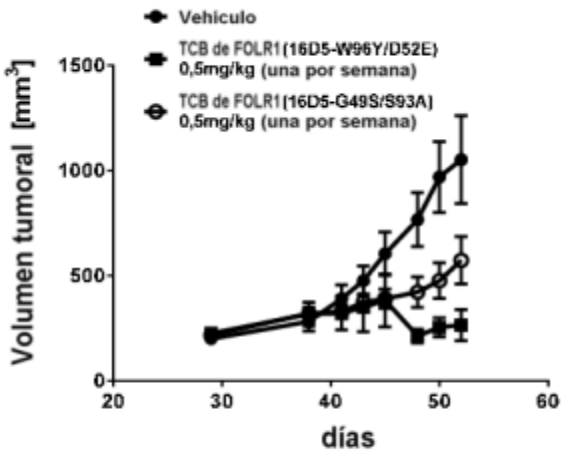


Fig. 40D

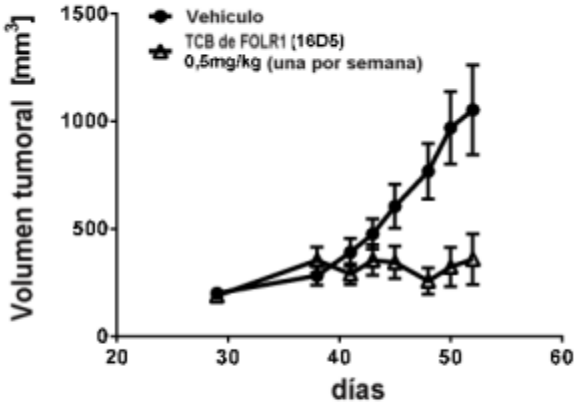


Fig. 40E

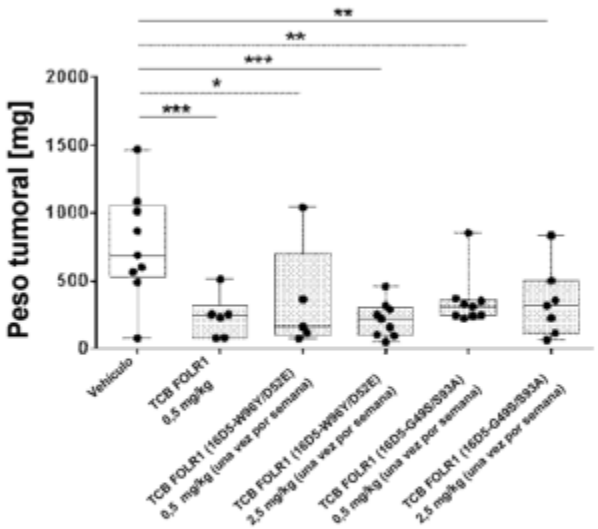


Fig. 40F

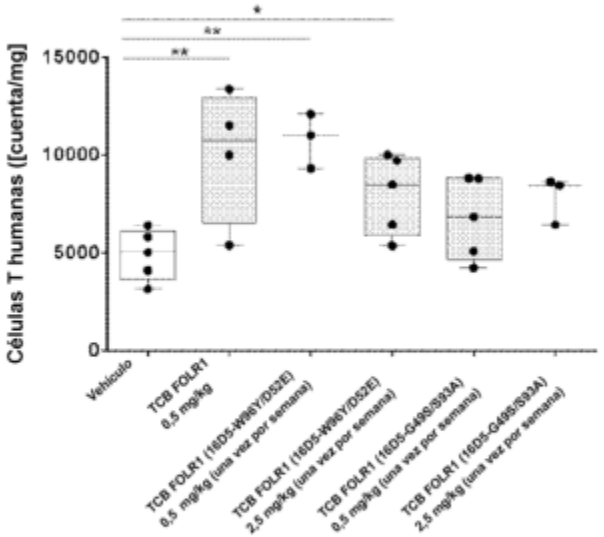


Fig. 40G

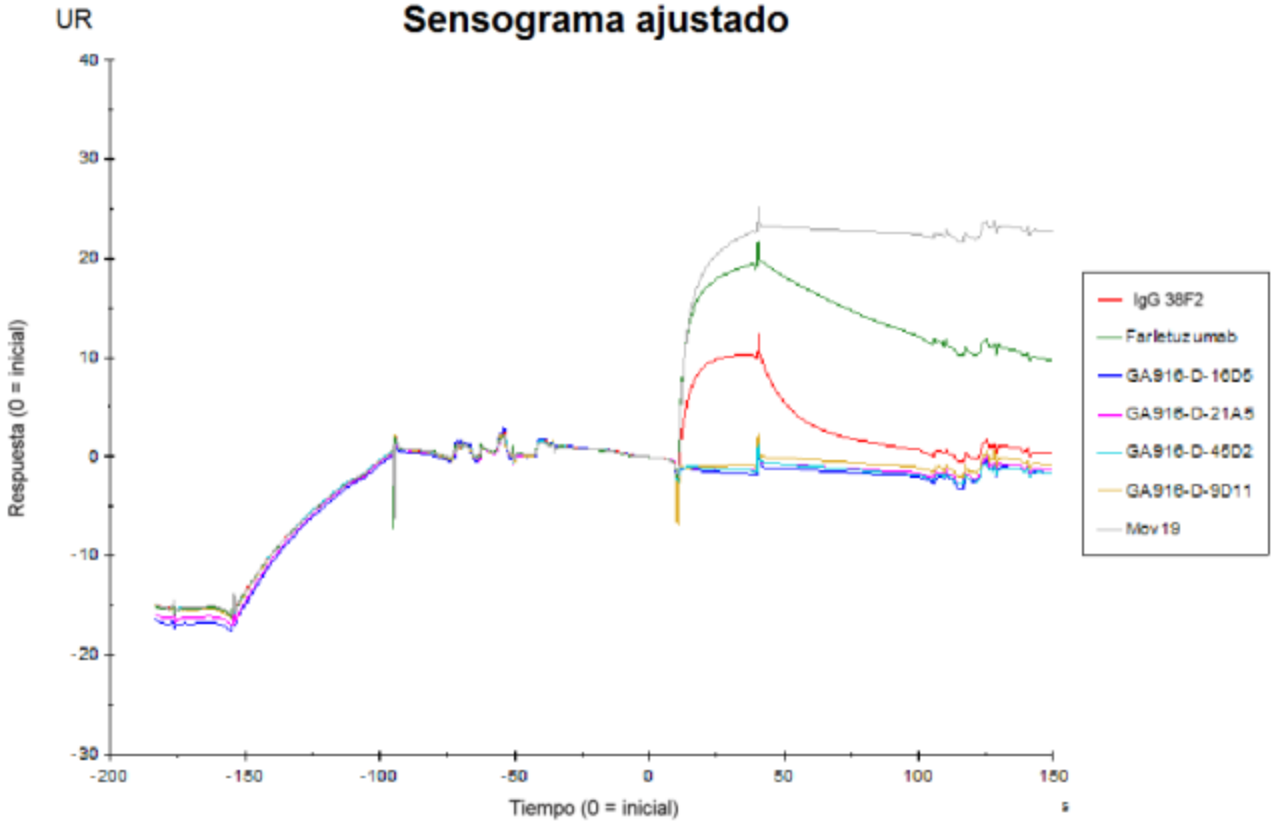

Sensograma ajustado
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Respuesta (0 = inicial)
Tiempo (0 = inicial)
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30
20
10
0
-10
-20
-30
-200
-150
-100
-50
0
50
100
150
IgG 38F2
Farletuzumab
GA916-D-16D5
GA916-D-21A5
GA916-D-45D2
GA916-D-9D11
Mov19

Fig. 41

<110> F. HOFFMANN-LA ROCHE AG

<120> MOLECULAS DE UNIÓN A ANTÍGENO BIESPECÍFICAS ACTIVADORAS DE CÉLULAS T QUE SE UNEN A CD3 Y AL RECEPTOR 1 DE FOLATO (FOLR1)

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

Gly Ile Ile Asn Pro Ser Gly Gly Ser Thr Ser 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
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20 25 30

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

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

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

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Gly Ile Ile Asn Pro Ser Gly Gly Ser Thr Ser 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 Asn Tyr Tyr Leu Phe Ser Thr Ser Phe Asp Tyr Trp Gly Gln
            100                 105                 110

Gly Thr Leu Val Thr Val Ser Ser
        115                 120
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            20                  25                  30

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

Gly Ile Ile Asn Pro Ser Gly Gly Ser Thr Ser 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 Asn Tyr Tyr Ile Gly Ile Val Pro Phe Asp Tyr Trp Gly Gln
            100                 105                 110

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

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

Gly Ile Ile Asn Pro Ser Gly Gly Ser Thr Ser 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 Asn Tyr Tyr Val Gly Val Ser Pro Phe Asp Tyr Trp Gly Gln
100 105 110

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 6
<211> 120
<212> PRT
<213> Secuencia artificial

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

<400> 6
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 Ser Tyr
20 25 30

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

Gly Ile Ile Asn Pro Ser Gly Gly Ser Thr Ser 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 Asn Phe Thr Val Leu Arg Val Pro Phe Asp Tyr Trp Gly Gln
            100                 105                 110

Gly Thr Leu Val Thr Val Ser Ser
        115                 120
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<210> 7
<211> 120
<212> PRT
<213> Secuencia artificial

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

<400> 7

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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 Ser Tyr
            20                  25                  30

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

Gly Ile Ile Asn Pro Ser Gly Gly Ser Thr Ser 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 Asn Tyr Tyr Ile Gly Val Val Thr Phe Asp Tyr Trp Gly Gln
            100                 105                 110
```

Gly Thr Leu Val Thr Val Ser Ser
        115   120

<210> 8
<211> 5
<212> PRT
<213> Secuencia artificial

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

<400> 8
Ser Tyr Tyr Met His
1   5

<210> 9
<211> 17
<212> PRT
<213> Secuencia artificial

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

<400> 9
Ile Ile Asn Pro Ser Gly Gly Ser Thr Ser Tyr Ala Gln Lys Phe Gln
1   5   10   15

Gly

<210> 10
<211> 11
<212> PRT
<213> Secuencia artificial

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

<400> 10
Asn Tyr Tyr Ile Gly Val Val Thr Phe Asp Tyr
1   5   10

<210> 11
<211> 120
<212> PRT
<213> Secuencia artificial

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

<400> 11
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 Ser Tyr
20 25 30

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

Gly Ile Ile Asn Pro Ser Gly Gly Ser Thr Ser 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 Glu Trp Arg Arg Tyr Thr Ser Phe Asp Tyr Trp Gly Gln
100 105 110

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 12
<211> 11
<212> PRT
<213> Secuencia artificial

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

<400> 12
Gly Glu Trp Arg Arg Tyr Thr Ser Phe Asp Tyr
1 5 10

<210> 13
<211> 120
<212> PRT
<213> Secuencia artificial

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

<400> 13
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 Ser Tyr
            20                  25                  30


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


Gly Ile Ile Asn Pro Ser Gly Gly Ser Thr Ser 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 Gly Trp Ile Arg Trp Glu His Phe Asp Tyr Trp Gly Gln
            100                 105                 110


Gly Thr Leu Val Thr Val Ser Ser
        115                 120


<210> 14
<211> 11
<212> PRT
<213> Secuencia artificial

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

<400> 14
Gly Gly Trp Ile Arg Trp Glu His Phe Asp Tyr
1               5                   10


<210> 15
<211> 120
<212> PRT
<213> Secuencia artificial

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

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


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

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


Gly Arg Ile Lys Ser Lys Thr Asp Gly Gly Thr Thr Asp Tyr Ala Ala
    50                  55                  60


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


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


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


Gly Thr Leu Val Thr Val Ser Ser
        115                 120
```

<210> 16
<211> 5
<212> PRT
<213> Secuencia artificial

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

<400> 16

```
Asn Ala Trp Met Ser
1               5
```

<210> 17
<211> 19
<212> PRT
<213> Secuencia artificial

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

<400> 17

```
Arg Ile Lys Ser Lys Thr Asp Gly Gly Thr Thr Asp Tyr Ala Ala Pro
1               5                   10                  15


Val Lys Gly
```

<210> 18
<211> 9
<212> PRT
<213> Secuencia artificial

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

<400> 18
Pro Trp Glu Trp Ser Trp Tyr Asp Tyr
1 5

<210> 19
<211> 120
<212> PRT
<213> Secuencia artificial

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

<400> 19
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Lys Pro Gly Gly
1 5 10 15

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

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

Gly Arg Ile Lys Ser Lys Thr Asp Gly Gly Thr Thr Asp Tyr Ala Ala
50 55 60

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

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

Tyr Cys Thr Thr Pro Trp Glu Trp Ser Tyr Phe Asp Tyr Trp Gly Gln
100 105 110

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 20
<211> 9
<212> PRT
<213> Secuencia artificial

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

<400> 20
Pro Trp Glu Trp Ser Tyr Phe Asp Tyr
1 5

<210> 21
<211> 120
<212> PRT
<213> Secuencia artificial

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

<400> 21
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Lys Pro Gly Gly
1 5 10 15

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

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

Gly Arg Ile Lys Ser Lys Thr Asp Gly Gly Thr Thr Asp Tyr Ala Ala
50 55 60

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

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

Tyr Cys Thr Thr Pro Trp Glu Trp Ala Trp Phe Asp Tyr Trp Gly Gln
100 105 110

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 22
<211> 9
<212> PRT
<213> Secuencia artificial

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

<400> 22
Pro Trp Glu Trp Ala Trp Phe Asp Tyr
1 5

<210> 23
<211> 120
<212> PRT
<213> Secuencia artificial

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

<400> 23
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Lys Pro Gly Gly
1 5 10 15

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

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

Gly Arg Ile Lys Ser Lys Thr Asp Gly Gly Thr Thr Asp Tyr Ala Ala
50 55 60

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

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

Tyr Cys Thr Thr Pro Trp Glu Trp Ala Tyr Phe Asp Tyr Trp Gly Gln
100 105 110

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 24
<211> 9
<212> PRT
<213> Secuencia artificial

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

<400> 24
Pro Trp Glu Trp Ala Tyr Phe Asp Tyr
1 5

<210> 25
<211> 120
<212> PRT
<213> Secuencia artificial

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

<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 Ala Ser Gly Tyr Thr Phe Thr Ser Tyr
20 25 30

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

Gly Ile Ile Asn Pro Ser Gly Gly Ser Thr Ser 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 Thr Gly Trp Ser Arg Trp Gly Tyr Met Asp Tyr Trp Gly Gln
100 105 110

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 26
<211> 11
<212> PRT
<213> Secuencia artificial

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

<400> 26
Thr Gly Trp Ser Arg Trp Gly Tyr Met Asp Tyr
1 5 10

<210> 27
<211> 120
<212> PRT
<213> Secuencia artificial

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

<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 Ser Tyr
20 25 30

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

Gly Ile Ile Asn Pro Ser Gly Gly Ser Thr Ser 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 Glu Trp Ile Arg Tyr Tyr His Phe Asp Tyr Trp Gly Gln
100 105 110

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 28
<211> 11
<212> PRT
<213> Secuencia artificial

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

<400> 28
Gly Glu Trp Ile Arg Tyr Tyr His Phe Asp Tyr
1 5 10

<210> 29
<211> 120
<212> PRT
<213> Secuencia artificial

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

<400> 29
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 Ser Tyr
20 25 30

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

Gly Ile Ile Asn Pro Ser Gly Gly Ser Thr Ser 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 Val Gly Trp Tyr Arg Trp Gly Tyr Met Asp Tyr Trp Gly Gln
100 105 110

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 30
<211> 11
<212> PRT
<213> Secuencia artificial

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

<400> 30
Val Gly Trp Tyr Arg Trp Gly Tyr Met Asp Tyr
1 5 10

<210> 31
<211> 109
<212> PRT
<213> Secuencia artificial

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

<400> 31
Gln Ala Val Val Thr Gln Glu Pro Ser Leu Thr Val Ser Pro Gly Gly
1 5 10 15

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

Asn Tyr Ala Asn Trp Val Gln Glu Lys Pro Gly Gln Ala Phe Arg Gly

35 40 45

Leu Ile Gly Gly Thr Asn Lys Arg Ala Pro Gly Thr Pro Ala Arg Phe
50 55 60

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

Gln Pro Glu Asp Glu Ala Glu Tyr Tyr Cys Ala Leu Trp Tyr Ser Asn
85 90 95

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

<210> 32
<211> 14
<212> PRT
<213> Secuencia artificial

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

<400> 32
Gly Ser Ser Thr Gly Ala Val Thr Thr Ser Asn Tyr Ala Asn
1 5 10

<210> 33
<211> 7
<212> PRT
<213> Secuencia artificial

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

<400> 33
Gly Thr Asn Lys Arg Ala Pro
1 5

<210> 34
<211> 9
<212> PRT
<213> Secuencia artificial

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

<400> 34
Ala Leu Trp Tyr Ser Asn Leu Trp Val
1 5

<210> 35
<211> 215
<212> PRT
<213> Secuencia artificial

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

<400> 35

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

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

Asn Tyr Ala Asn Trp Val Gln Glu Lys Pro Gly Gln Ala Phe Arg Gly
        35                  40                  45

Leu Ile Gly Gly Thr Asn Lys Arg Ala Pro Gly Thr Pro Ala Arg Phe
    50                  55                  60

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

Gln Pro Glu Asp Glu Ala Glu Tyr Tyr Cys Ala Leu Trp Tyr Ser Asn
                85                  90                  95

Leu Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gln Pro
            100                 105                 110

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

Gln Ala Asn Lys Ala Thr Leu Val Cys Leu Ile Ser Asp Phe Tyr Pro
    130                 135                 140

Gly Ala Val Thr Val Ala Trp Lys Ala Asp Ser Ser Pro Val Lys Ala
145                 150                 155                 160

Gly Val Glu Thr Thr Thr Pro Ser Lys Gln Ser Asn Asn Lys Tyr Ala
                165                 170                 175

Ala Ser Ser Tyr Leu Ser Leu Thr Pro Glu Gln Trp Lys Ser His Arg
            180                 185                 190

Ser Tyr Ser Cys Gln Val Thr His Glu Gly Ser Thr Val Glu Lys Thr
        195                 200                 205
```

Val Ala Pro Thr Glu Cys Ser
    210   215

<210> 36
<211> 125
<212> PRT
<213> Secuencia artificial

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

<400> 36
Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1   5   10   15

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

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

Ser Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr Tyr Tyr Ala Asp
    50   55   60

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

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

Tyr Cys Val Arg His Gly Asn Phe Gly Asn Ser Tyr Val Ser Trp Phe
            100   105   110

Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
        115   120   125

<210> 37
<211> 5
<212> PRT
<213> Secuencia artificial

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

<400> 37
Thr Tyr Ala Met Asn
1   5

<210> 38
<211> 19
<212> PRT
<213> Secuencia artificial

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

<400> 38
Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr Tyr Tyr Ala Asp Ser
1 5 10 15

Val Lys Gly

<210> 39
<211> 14
<212> PRT
<213> Secuencia artificial

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

<400> 39
His Gly Asn Phe Gly Asn Ser Tyr Val Ser Trp Phe Ala Tyr
1 5 10

<210> 40
<211> 228
<212> PRT
<213> Secuencia artificial

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

<400> 40
Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

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

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

Ser Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr Tyr Tyr Ala Asp
50 55 60

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

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

Tyr Cys Val Arg His Gly Asn Phe Gly Asn Ser Tyr Val Ser Trp Phe
            100                 105                 110

Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Ala Ser Thr
        115                 120                 125

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

Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu
145                 150                 155                 160

Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His
                165                 170                 175

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

Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys
        195                 200                 205

Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys Lys Val Glu
    210                 215                 220

Pro Lys Ser Cys
225
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<210> 41
<211> 121
<212> PRT
<213> Secuencia artificial

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

<400> 41

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

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

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

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

Gln Gly Arg Val Thr Ile Thr Ala Asp Lys 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 Ala Val Phe Tyr Arg Ala Trp Tyr Ser Phe Asp Tyr Trp Gly
            100                 105                 110

Gln Gly Thr Thr Val Thr Val Ser Ser
        115                 120
```

<210> 42
<211> 5
<212> PRT
<213> Secuencia artificial

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

<400> 42
Ser Tyr Ala Ile Ser
1   5

<210> 43
<211> 17
<212> PRT
<213> Secuencia artificial

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

<400> 43
Gly Ile Ile Pro Ile Phe Gly Thr Ala Asn Tyr Ala Gln Lys Phe Gln
1   5   10   15

Gly

<210> 44
<211> 12
<212> PRT
<213> Secuencia artificial

<220>
<221> fuente

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

<400> 44
Ala Val Phe Tyr Arg Ala Trp Tyr Ser Phe Asp Tyr
1 5 10

<210> 45
<211> 107
<212> PRT
<213> Secuencia artificial

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

<400> 45
Asp Ile Gln Met Thr Gln Ser Pro Ser Thr Leu Ser Ala Ser Val Gly
1 5 10 15

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

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

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

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

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

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

<210> 46
<211> 11
<212> PRT
<213> Secuencia artificial

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

<400> 46
Arg Ala Ser Gln Ser Ile Ser Ser Trp Leu Ala
1 5 10

<210> 47

<211> 7
<212> PRT
<213> Secuencia artificial

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

<400> 47
Asp Ala Ser Ser Leu Glu Ser
1 5

<210> 48
<211> 9
<212> PRT
<213> Secuencia artificial

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

<400> 48
Gln Gln Tyr Thr Ser Pro Pro Pro Thr
1 5

<210> 49
<211> 119
<212> PRT
<213> Secuencia artificial

<220>
<221> fuente
<223> /nota="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 Ala Ser Gly Tyr Thr Phe Thr Ser Tyr
20 25 30

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

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

Gln Gly Arg Val Thr Met Thr His 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 Ser Phe Phe Thr Gly Phe His Leu Asp Tyr Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ser
115

<210> 50
<211> 10
<212> PRT
<213> Secuencia artificial

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

<400> 50
Ser Phe Phe Thr Gly Phe His Leu Asp Tyr
1 5 10

<210> 51
<211> 109
<212> PRT
<213> Secuencia artificial

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

<400> 51
Glu Ile Val Leu Thr Gln Ser Pro Gly Thr Leu Ser Leu Ser Pro Gly
1 5 10 15

Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Ser Ser Ser
20 25 30

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

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

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

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

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

<210> 52
<211> 12
<212> PRT
<213> Secuencia artificial

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

<400> 52
Arg Ala Ser Gln Ser Val Ser Ser Ser Tyr Leu Ala
1 5 10

<210> 53
<211> 7
<212> PRT
<213> Secuencia artificial

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

<400> 53
Gly Ala Ser Ser Arg Ala Thr
1 5

<210> 54
<211> 10
<212> PRT
<213> Secuencia artificial

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

<400> 54
Gln Gln Tyr Thr Asn Glu His Tyr Tyr Thr
1 5 10

<210> 55
<211> 117
<212> PRT
<213> Secuencia artificial

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

<400> 55
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 Ser Tyr
20 25 30

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


Gly Ile Ile Asn Pro Ser Gly Gly Pro Thr Ser 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 Asp Phe Ala Trp Leu Asp Tyr Trp Gly Gln Gly Thr Leu
            100                 105                 110


Val Thr Val Ser Ser
        115


<210> 56
<211> 17
<212> PRT
<213> Secuencia artificial

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

<400> 56
Ile Ile Asn Pro Ser Gly Gly Pro Thr Ser Tyr Ala Gln Lys Phe Gln
1               5                   10                  15


Gly



<210> 57
<211> 8
<212> PRT
<213> Secuencia artificial

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

<400> 57
Gly Asp Phe Ala Trp Leu Asp Tyr
1               5


<210> 58
<211> 112
<212> PRT
<213> Secuencia artificial
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<220>
<221> fuente
<223> /nota="Descripción de secuencia artificial: Polipéptido sintético"

<400> 58
Asp Ile Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro Gly
1 5 10 15

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

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

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

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

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

Ser Ile Met Asn Arg Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
100 105 110

<210> 59
<211> 16
<212> PRT
<213> Secuencia artificial

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

<400> 59
Arg Ser Ser Gln Ser Leu Leu His Ser Asn Gly Tyr Asn Tyr Leu Asp
1 5 10 15

<210> 60
<211> 7
<212> PRT
<213> Secuencia artificial

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

<400> 60
Leu Gly Ser Asn Arg Ala Ser
1 5

<210> 61
<211> 9
<212> PRT
<213> Secuencia artificial

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

<400> 61
Met Gln Ala Ser Ile Met Asn Arg Thr
1 5

<210> 62
<211> 112
<212> PRT
<213> Secuencia artificial

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

<400> 62
Asp Ile Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro Gly
1 5 10 15

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

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

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

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

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

Ser Ile Met Ser Arg Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
100 105 110

<210> 63
<211> 9
<212> PRT
<213> Secuencia artificial

<220>
<221> fuente

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

<400> 63
Met Gln Ala Ser Ile Met Ser Arg Thr
1 5

<210> 64
<211> 112
<212> PRT
<213> Secuencia artificial

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

<400> 64
Asp Ile Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro Gly
1 5 10 15

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

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

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

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

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

Ser Ile Met Gln Arg Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
100 105 110

<210> 65
<211> 9
<212> PRT
<213> Secuencia artificial

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

<400> 65
Met Gln Ala Ser Ile Met Gln Arg Thr
1 5

<210> 66

<211> 112
<212> PRT
<213> Secuencia artificial

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

<400> 66
Asp Ile Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro Gly
1 5 10 15

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

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

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

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

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

Ser Ile Met Asn Arg Ala Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
100 105 110

<210> 67
<211> 9
<212> PRT
<213> Secuencia artificial

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

<400> 67
Met Gln Ala Ser Ile Met Asn Arg Ala
1 5

<210> 68
<211> 112
<212> PRT
<213> Secuencia artificial

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

<400> 68
Asp Ile Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro Gly
1   5   10   15

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

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

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

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

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

Ser Ile Met Asn Arg Asn Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
            100   105   110

<210> 69
<211> 9
<212> PRT
<213> Secuencia artificial

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

<400> 69
Met Gln Ala Ser Ile Met Asn Arg Asn
1   5

<210> 70
<211> 116
<212> PRT
<213> Secuencia artificial

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

<400> 70
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 Ser Tyr
            20   25   30

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

Gly Ile Ile Asn Pro Ser Gly Gly Ser Thr Ser 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 Ser Tyr Ile Asp Met Asp Tyr Trp Gly Gln Gly Thr Leu Val
100 105 110

Thr Val Ser Ser
115

<210> 71
<211> 7
<212> PRT
<213> Secuencia artificial

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

<400> 71
Ser Tyr Ile Asp Met Asp Tyr
1 5

<210> 72
<211> 107
<212> PRT
<213> Secuencia artificial

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

<400> 72
Glu Ile Val Leu Thr Gln Ser Pro Gly Thr Leu Ser Leu Ser Pro Gly
1 5 10 15

Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Ser Ser Ser
20 25 30

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

Ile Tyr Gly Ala Ser Ser Arg Ala Thr Gly Ile Pro Asp Arg Phe Ser

50 55 60

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

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

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

<210> 73
<211> 8
<212> PRT
<213> Secuencia artificial

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

<400> 73
Gln Gln Asp Asn Trp Ser Pro Thr
1 5

<210> 74
<211> 116
<212> PRT
<213> Secuencia artificial

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

<400> 74
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 Ser Tyr
20 25 30

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

Gly Ile Ile Asn Pro Ser Gly Gly Ser Thr Ser 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 Ser Tyr Val Asp Met Asp Tyr Trp Gly Gln Gly Thr Leu Val
100 105 110

Thr Val Ser Ser
115

<210> 75
<211> 7
<212> PRT
<213> Secuencia artificial

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

<400> 75
Ser Tyr Val Asp Met Asp Tyr
1 5

<210> 76
<211> 107
<212> PRT
<213> Secuencia artificial

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

<400> 76
Glu Ile Val Leu Thr Gln Ser Pro Gly Thr Leu Ser Leu Ser Pro Gly
1 5 10 15

Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Ser Ser Ser
20 25 30

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

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

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

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

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

<210> 77
<211> 8
<212> PRT
<213> Secuencia artificial

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

<400> 77
Gln Gln Asp Ile Trp Ser Pro Thr
1 5

<210> 78
<211> 121
<212> PRT
<213> Secuencia artificial

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

<400> 78
Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

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

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

Ser Ala Ile Ser Gly Ser Gly Gly Ser Thr Tyr Tyr Ala Asp Ser Val
50 55 60

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

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

Ala Lys Asp Ser Ser Tyr Val Glu Trp Tyr Ala Phe Asp Tyr Trp Gly
100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 79
<211> 5
<212> PRT
<213> Secuencia artificial

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

<400> 79
Ser Tyr Ala Met Ser
1 5

<210> 80
<211> 17
<212> PRT
<213> Secuencia artificial

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

<400> 80
Ala Ile Ser Gly Ser Gly Gly Ser Thr Tyr Tyr Ala Asp Ser Val Lys
1 5 10 15

Gly

<210> 81
<211> 12
<212> PRT
<213> Secuencia artificial

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

<400> 81
Asp Ser Ser Tyr Val Glu Trp Tyr Ala Phe Asp Tyr
1 5 10

<210> 82
<211> 108
<212> PRT
<213> Secuencia artificial

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

<400> 82
Glu Ile Val Leu Thr Gln Ser Pro Gly Thr Leu Ser Leu Ser Pro Gly
1 5 10 15

Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Ser Ser Ser
20 25 30

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


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


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


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


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


<210> 83
<211> 9
<212> PRT
<213> Secuencia artificial

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

<400> 83
Gln Gln Pro Thr Ser Ser Pro Ile Thr
1               5


<210> 84
<211> 103
<212> PRT
<213> Secuencia artificial

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

<400> 84
Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser Lys
1               5                   10                  15


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


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


Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser
    50                  55                  60
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```
Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr
65                  70                  75                  80


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


Lys Val Glu Pro Lys Ser Cys
            100


<210> 85
<211> 103
<212> PRT
<213> Secuencia artificial

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

<400> 85
Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser Lys
1               5                   10                  15


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


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


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


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


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


Lys Val Glu Pro Lys Ser Cys
            100


<210> 86
<211> 214
<212> PRT
<213> Secuencia artificial

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

<400> 86
Gln Ala Val Val Thr Gln Glu Pro Ser Leu Thr Val Ser Pro Gly Gly
```

1 5 10 15

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

Asn Tyr Ala Asn Trp Val Gln Glu Lys Pro Gly Gln Ala Phe Arg Gly
35 40 45

Leu Ile Gly Gly Thr Asn Lys Arg Ala Pro Gly Thr Pro Ala Arg Phe
50 55 60

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

Gln Pro Glu Asp Glu Ala Glu Tyr Tyr Cys Ala Leu Trp Tyr Ser Asn
85 90 95

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

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

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

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

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

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

Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys Lys
195 200 205

Val Glu Pro Lys Ser Cys
210

<210> 87
<211> 232
<212> PRT
<213> Secuencia artificial

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

sintético"

<400> 87

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

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

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

Ser Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr Tyr Tyr Ala Asp
    50                  55                  60

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

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

Tyr Cys Val Arg His Gly Asn Phe Gly Asn Ser Tyr Val Ser Trp Phe
            100                 105                 110

Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Ala Ser Val
        115                 120                 125

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

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

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

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

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

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

Lys Ser Phe Asn Arg Gly Glu Cys
225                 230
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<210> 88
<211> 105
<212> PRT
<213> Secuencia artificial

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

<400> 88
Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu
1 5 10 15

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

Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly
35 40 45

Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr
50 55 60

Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys His
65 70 75 80

Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro Val
85 90 95

Thr Lys Ser Phe Asn Arg Gly Glu Cys
100 105

<210> 89
<211> 689
<212> PRT
<213> Secuencia artificial

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

<400> 89
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Lys Pro Gly Gly
1 5 10 15

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

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

Gly Arg Ile Lys Ser Lys Thr Asp Gly Gly Thr Thr Asp Tyr Ala Ala

```
    50                  55                  60

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

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

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

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

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

Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser
145                 150                 155                 160

Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala Val
                165                 170                 175

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

Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His Lys
        195                 200                 205

Pro Ser Asn Thr Lys Val Asp Lys Lys Val Glu Pro Lys Ser Cys Asp
    210                 215                 220

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Glu Val Gln Leu Leu Glu
225                 230                 235                 240

Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys
                245                 250                 255

Ala Ala Ser Gly Phe Thr Phe Ser Thr Tyr Ala Met Asn Trp Val Arg
            260                 265                 270

Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ser Arg Ile Arg Ser Lys
        275                 280                 285

Tyr Asn Asn Tyr Ala Thr Tyr Tyr Ala Asp Ser Val Lys Gly Arg Phe
    290                 295                 300
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Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr Leu Tyr Leu Gln Met Asn
305                 310                 315                 320

Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Val Arg His Gly
                325                 330                 335

Asn Phe Gly Asn Ser Tyr Val Ser Trp Phe Ala Tyr Trp Gly Gln Gly
            340                 345                 350

Thr Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe
        355                 360                 365

Pro Leu Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala Ala Leu
    370                 375                 380

Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp
385                 390                 395                 400

Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala Val Leu
                405                 410                 415

Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro Ser
            420                 425                 430

Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His Lys Pro
        435                 440                 445

Ser Asn Thr Lys Val Asp Lys Lys Val Glu Pro Lys Ser Cys Asp Lys
    450                 455                 460

Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Ala Ala Gly Gly Pro
465                 470                 475                 480

Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser
                485                 490                 495

Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His Glu Asp
            500                 505                 510

Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn
        515                 520                 525

Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val
    530                 535                 540

Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu
545                 550                 555                 560
```

Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Gly Ala Pro Ile Glu Lys
565 570 575

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

Leu Pro Pro Cys Arg Asp Glu Leu Thr Lys Asn Gln Val Ser Leu Trp
595 600 605

Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu
610 615 620

Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu
625 630 635 640

Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys
645 650 655

Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu
660 665 670

Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly
675 680 685

Lys

<210> 90
<211> 450
<212> PRT
<213> Secuencia artificial

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

<400> 90
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Lys Pro Gly Gly
1 5 10 15

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

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

Gly Arg Ile Lys Ser Lys Thr Asp Gly Gly Thr Thr Asp Tyr Ala Ala
50 55 60

```
Pro Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr
65                  70                  75                  80

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

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

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

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

Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser
145                 150                 155                 160

Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala Val
                165                 170                 175

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

Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His Lys
        195                 200                 205

Pro Ser Asn Thr Lys Val Asp Lys Lys Val Glu Pro Lys Ser Cys Asp
    210                 215                 220

Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Ala Ala Gly Gly
225                 230                 235                 240

Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile
                245                 250                 255

Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His Glu
            260                 265                 270

Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His
        275                 280                 285

Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg
    290                 295                 300

Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys
305                 310                 315                 320
```

```
Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Gly Ala Pro Ile Glu
                325                 330                 335

Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Cys
            340                 345                 350

Thr Leu Pro Pro Ser Arg Asp Glu Leu Thr Lys Asn Gln Val Ser Leu
        355                 360                 365

Ser Cys Ala Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp
    370                 375                 380

Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val
385                 390                 395                 400

Leu Asp Ser Asp Gly Ser Phe Phe Leu Val Ser Lys Leu Thr Val Asp
                405                 410                 415

Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His
            420                 425                 430

Glu Ala Leu His Asn Arg Phe Thr Gln Lys Ser Leu Ser Leu Ser Pro
        435                 440                 445

Gly Lys
    450
```

<210> 91
<211> 689
<212> PRT
<213> Secuencia artificial

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

<400> 91

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

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

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

Ser Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr Tyr Tyr Ala Asp
    50                  55                  60
```

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

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

Tyr Cys Val Arg His Gly Asn Phe Gly Asn Ser Tyr Val Ser Trp Phe
            100                 105                 110

Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Ala Ser Thr
        115                 120                 125

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

Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu
145                 150                 155                 160

Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His
                165                 170                 175

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

Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys
        195                 200                 205

Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys Lys Val Glu
    210                 215                 220

Pro Lys Ser Cys Asp Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Glu
225                 230                 235                 240

Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Lys Pro Gly Gly Ser
                245                 250                 255

Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Asn Ala Trp
            260                 265                 270

Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Gly
        275                 280                 285

Arg Ile Lys Ser Lys Thr Asp Gly Gly Thr Thr Asp Tyr Ala Ala Pro
    290                 295                 300

Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr Leu
```

```
305                 310                 315                 320

Tyr Leu Gln Met Asn Ser Leu Lys Thr Glu Asp Thr Ala Val Tyr Tyr
                325                 330                 335

Cys Thr Thr Pro Trp Glu Trp Ser Trp Tyr Asp Tyr Trp Gly Gln Gly
            340                 345                 350

Thr Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe
        355                 360                 365

Pro Leu Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala Ala Leu
    370                 375                 380

Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp
385                 390                 395                 400

Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala Val Leu
                405                 410                 415

Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro Ser
            420                 425                 430

Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His Lys Pro
        435                 440                 445

Ser Asn Thr Lys Val Asp Lys Lys Val Glu Pro Lys Ser Cys Asp Lys
    450                 455                 460

Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Ala Ala Gly Gly Pro
465                 470                 475                 480

Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser
                485                 490                 495

Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His Glu Asp
            500                 505                 510

Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn
        515                 520                 525

Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val
    530                 535                 540

Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu
545                 550                 555                 560
```

Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Gly Ala Pro Ile Glu Lys
565 570 575

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

Leu Pro Pro Cys Arg Asp Glu Leu Thr Lys Asn Gln Val Ser Leu Trp
595 600 605

Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu
610 615 620

Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu
625 630 635 640

Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys
645 650 655

Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu
660 665 670

Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly
675 680 685

Lys

<210> 92
<211> 455
<212> PRT
<213> Secuencia artificial

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

<400> 92
Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

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

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

Ser Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr Tyr Tyr Ala Asp
50 55 60

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

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

Tyr Cys Val Arg His Gly Asn Phe Gly Asn Ser Tyr Val Ser Trp Phe
            100                 105                 110

Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Ala Ser Thr
        115                 120                 125

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

Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu
145                 150                 155                 160

Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His
                165                 170                 175

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

Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys
        195                 200                 205

Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys Lys Val Glu
    210                 215                 220

Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro
225                 230                 235                 240

Glu Ala Ala Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys
                245                 250                 255

Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val
            260                 265                 270

Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp
        275                 280                 285

Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr
    290                 295                 300

Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp
305                 310                 315                 320
```

```
Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu
                325                 330                 335

Gly Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg
            340                 345                 350

Glu Pro Gln Val Tyr Thr Leu Pro Pro Cys Arg Asp Glu Leu Thr Lys
        355                 360                 365

Asn Gln Val Ser Leu Trp Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp
    370                 375                 380

Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys
385                 390                 395                 400

Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser
                405                 410                 415

Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser
            420                 425                 430

Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser
        435                 440                 445

Leu Ser Leu Ser Pro Gly Lys
    450                 455
```

<210> 93
<211> 227
<212> PRT
<213> Secuencia artificial

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

<400> 93

```
Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly
1               5                   10                  15

Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met
            20                  25                  30

Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His
        35                  40                  45

Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val
    50                  55                  60
```

```
His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr
65                  70                  75                  80

Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly
                85                  90                  95

Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile
            100                 105                 110

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

Cys Thr Leu Pro Pro Ser Arg Asp Glu Leu Thr Lys Asn Gln Val Ser
    130                 135                 140

Leu Ser Cys Ala Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu
145                 150                 155                 160

Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro
                165                 170                 175

Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Val Ser Lys Leu Thr Val
            180                 185                 190

Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met
        195                 200                 205

His Glu Ala Leu His Asn Arg Phe Thr Gln Lys Ser Leu Ser Leu Ser
    210                 215                 220

Pro Gly Lys
225
```

<210> 94
<211> 690
<212> PRT
<213> Secuencia artificial

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

<400> 94

```
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 Ser Tyr
            20                  25                  30
```

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

Gly Ile Ile Asn Pro Ser Gly Gly Pro Thr Ser 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 Asp Phe Ala Trp Leu Asp Tyr Trp Gly Gln Gly Thr Leu
            100                 105                 110

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

Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys
    130                 135                 140

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

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

Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser
            180                 185                 190

Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn
        195                 200                 205

Thr Lys Val Asp Lys Lys Val Glu Pro Lys Ser Cys Asp Gly Gly Gly
    210                 215                 220

Gly Ser Gly Gly Gly Gly Ser Glu Val Gln Leu Leu Glu Ser Gly Gly
225                 230                 235                 240

Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser
                245                 250                 255

Gly Phe Thr Phe Ser Thr Tyr Ala Met Asn Trp Val Arg Gln Ala Pro
            260                 265                 270

Gly Lys Gly Leu Glu Trp Val Ser Arg Ile Arg Ser Lys Tyr Asn Asn
        275                 280                 285
```

```
Tyr Ala Thr Tyr Tyr Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Ser
    290                 295                 300

Arg Asp Asp Ser Lys Asn Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg
305                 310                 315                 320

Ala Glu Asp Thr Ala Val Tyr Tyr Cys Val Arg His Gly Asn Phe Gly
                325                 330                 335

Asn Ser Tyr Val Ser Trp Phe Ala Tyr Trp Gly Gln Gly Thr Leu Val
            340                 345                 350

Thr Val Ser Ser Ala Ser Val Ala Ala Pro Ser Val Phe Ile Phe Pro
        355                 360                 365

Pro Ser Asp Glu Gln Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu
    370                 375                 380

Leu Asn Asn Phe Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp
385                 390                 395                 400

Asn Ala Leu Gln Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp
                405                 410                 415

Ser Lys Asp Ser Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys
            420                 425                 430

Ala Asp Tyr Glu Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln
        435                 440                 445

Gly Leu Ser Ser Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys Asp
    450                 455                 460

Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Ala Ala Gly Gly
465                 470                 475                 480

Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile
                485                 490                 495

Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His Glu
            500                 505                 510

Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His
        515                 520                 525

Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg
```

530 535 540

Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys
545 550 555 560

Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Gly Ala Pro Ile Glu
565 570 575

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

Thr Leu Pro Pro Cys Arg Asp Glu Leu Thr Lys Asn Gln Val Ser Leu
595 600 605

Trp Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp
610 615 620

Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val
625 630 635 640

Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp
645 650 655

Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His
660 665 670

Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro
675 680 685

Gly Lys
690

<210> 95
<211> 447
<212> PRT
<213> Secuencia artificial

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

<400> 95
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 Ser Tyr
20 25 30

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

```
        35                  40                  45

Gly Ile Ile Asn Pro Ser Gly Gly Pro Thr Ser 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 Asp Phe Ala Trp Leu Asp Tyr Trp Gly Gln Gly Thr Leu
            100                 105                 110

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

Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys
    130                 135                 140

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

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

Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser
            180                 185                 190

Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn
        195                 200                 205

Thr Lys Val Asp Lys Lys Val Glu Pro Lys Ser Cys Asp Lys Thr His
    210                 215                 220

Thr Cys Pro Pro Cys Pro Ala Pro Glu Ala Ala Gly Gly Pro Ser Val
225                 230                 235                 240

Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr
                245                 250                 255

Pro Glu Val Thr Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu
            260                 265                 270

Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys
        275                 280                 285
```

Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser
290 295 300

Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys
305 310 315 320

Cys Lys Val Ser Asn Lys Ala Leu Gly Ala Pro Ile Glu Lys Thr Ile
325 330 335

Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Cys Thr Leu Pro
340 345 350

Pro Ser Arg Asp Glu Leu Thr Lys Asn Gln Val Ser Leu Ser Cys Ala
355 360 365

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

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

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

Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu
420 425 430

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

<210> 96
<211> 219
<212> PRT
<213> Secuencia artificial

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

<400> 96
Asp Ile Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro Gly
1 5 10 15

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

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

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

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

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

Ser Ile Met Asn Arg Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
100 105 110

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

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

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

Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser
165 170 175

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

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

Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
210 215

<210> 97
<211> 648
<212> ADN
<213> Secuencia artificial

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

<220>
<221> base_modificada
<222> (603)..(603)
<223> a, c, t, g, desconocida u otra

<400> 97
gaaatcgtgt taacgcagtc tccaggcacc ctgtctttgt ctccagggga aagagccacc 60

ctctcttgca gggccagtca gagtgttagc agcagctact tagcctggta ccagcagaaa 120

cctggccagg ctcccaggct cctcatctat ggagcatcca gcagggccac tggcatccca 180

gacaggttca gtggcagtgg atccgggaca gacttcactc tcaccatcag cagactggag 240

cctgaagatt ttgcagtgta ttactgtcag cagtatacca acgaacatta ttatacgttc 300

ggccagggga ccaaagtgga aatcaaacgt acggtggctg caccatctgt cttcatcttc 360

ccgccatctg atgagcagtt gaaatctgga actgcctctg ttgtgtgcct gctgaataac 420

ttctatccca gagaggccaa agtacagtgg aaggtggata acgccctcca atcgggtaac 480

tcccaggaga gtgtcacaga gcaggacagc aaggacagca cctacagcct cagcagcacc 540

ctgacgctga gcaaagcaga ctacgagaaa cacaaagtct acgcctgcga agtcacccat 600

canggcctga gctcgcccgt cacaaagagc ttcaacaggg gagagtgt 648

<210> 98
<211> 459
<212> PRT
<213> Secuencia artificial

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

<400> 98

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

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

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

Ser Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr Tyr Tyr Ala Asp
50 55 60

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

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

Tyr Cys Val Arg His Gly Asn Phe Gly Asn Ser Tyr Val Ser Trp Phe
100 105 110

Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Ala Ser Val
115 120 125

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

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

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

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

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

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

Lys Ser Phe Asn Arg Gly Glu Cys Asp Lys Thr His Thr Cys Pro Pro
225                 230                 235                 240

Cys Pro Ala Pro Glu Ala Ala Gly Gly Pro Ser Val Phe Leu Phe Pro
                245                 250                 255

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

Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn
        275                 280                 285

Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg
    290                 295                 300

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

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

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

Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Cys Arg Asp
        355                 360                 365

Glu Leu Thr Lys Asn Gln Val Ser Leu Trp Cys Leu Val Lys Gly Phe
    370                 375                 380
```

```
Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu
385                 390                 395                 400


Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe
                405                 410                 415


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


Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr
        435                 440                 445


Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
    450                 455


<210> 99
<211> 689
<212> PRT
<213> Secuencia artificial

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

<400> 99
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Lys Pro Gly Gly
1               5                   10                  15


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


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


Gly Arg Ile Lys Ser Lys Thr Asp Gly Gly Thr Thr Asp Tyr Ala Ala
    50                  55                  60


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


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


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


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

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

Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser
145                 150                 155                 160

Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala Val
                165                 170                 175

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

Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His Lys
        195                 200                 205

Pro Ser Asn Thr Lys Val Asp Lys Lys Val Glu Pro Lys Ser Cys Asp
    210                 215                 220

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Glu Val Gln Leu Leu Glu
225                 230                 235                 240

Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys
                245                 250                 255

Ala Ala Ser Gly Phe Thr Phe Ser Thr Tyr Ala Met Asn Trp Val Arg
            260                 265                 270

Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ser Arg Ile Arg Ser Lys
        275                 280                 285

Tyr Asn Asn Tyr Ala Thr Tyr Tyr Ala Asp Ser Val Lys Gly Arg Phe
    290                 295                 300

Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr Leu Tyr Leu Gln Met Asn
305                 310                 315                 320

Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Val Arg His Gly
                325                 330                 335

Asn Phe Gly Ala Ser Tyr Val Ser Trp Phe Ala Tyr Trp Gly Gln Gly
            340                 345                 350

Thr Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe
        355                 360                 365

Pro Leu Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala Ala Leu
```

370 375 380

Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp
385 390 395 400

Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala Val Leu
405 410 415

Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro Ser
420 425 430

Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His Lys Pro
435 440 445

Ser Asn Thr Lys Val Asp Lys Lys Val Glu Pro Lys Ser Cys Asp Lys
450 455 460

Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Ala Ala Gly Gly Pro
465 470 475 480

Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser
485 490 495

Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His Glu Asp
500 505 510

Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn
515 520 525

Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val
530 535 540

Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu
545 550 555 560

Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Gly Ala Pro Ile Glu Lys
565 570 575

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

Leu Pro Pro Cys Arg Asp Glu Leu Thr Lys Asn Gln Val Ser Leu Trp
595 600 605

Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu
610 615 620

Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu
625 630 635 640

Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys
645 650 655

Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu
660 665 670

Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly
675 680 685

Lys

<210> 100
<211> 689
<212> PRT
<213> Secuencia artificial

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

<400> 100
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Lys Pro Gly Gly
1 5 10 15

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

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

Gly Arg Ile Lys Ser Lys Thr Asp Gly Gly Thr Thr Asp Tyr Ala Ala
50 55 60

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

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

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

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

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

Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser
145                 150                 155                 160

Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala Val
                165                 170                 175

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

Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His Lys
        195                 200                 205

Pro Ser Asn Thr Lys Val Asp Lys Lys Val Glu Pro Lys Ser Cys Asp
    210                 215                 220

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Glu Val Gln Leu Leu Glu
225                 230                 235                 240

Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys
                245                 250                 255

Ala Ala Ser Gly Phe Thr Phe Ser Thr Tyr Ala Met Asn Trp Val Arg
            260                 265                 270

Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ser Arg Ile Arg Ser Lys
        275                 280                 285

Tyr Asn Asn Tyr Ala Thr Tyr Tyr Ala Asp Ser Val Lys Gly Arg Phe
    290                 295                 300

Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr Leu Tyr Leu Gln Met Asn
305                 310                 315                 320

Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Val Arg His Gly
                325                 330                 335

Asn Phe Gly Asn Ala Tyr Val Ser Trp Phe Ala Tyr Trp Gly Gln Gly
            340                 345                 350

Thr Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe
        355                 360                 365

Pro Leu Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala Ala Leu
    370                 375                 380
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Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp
385                 390                 395                 400

Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala Val Leu
                405                 410                 415

Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro Ser
            420                 425                 430

Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His Lys Pro
        435                 440                 445

Ser Asn Thr Lys Val Asp Lys Lys Val Glu Pro Lys Ser Cys Asp Lys
    450                 455                 460

Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Ala Ala Gly Gly Pro
465                 470                 475                 480

Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser
                485                 490                 495

Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His Glu Asp
            500                 505                 510

Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn
        515                 520                 525

Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val
    530                 535                 540

Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu
545                 550                 555                 560

Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Gly Ala Pro Ile Glu Lys
                565                 570                 575

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

Leu Pro Pro Cys Arg Asp Glu Leu Thr Lys Asn Gln Val Ser Leu Trp
        595                 600                 605

Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu
    610                 615                 620

Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu
625                 630                 635                 640
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Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys
                645                 650                 655

Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu
            660                 665                 670

Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly
        675                 680                 685

Lys
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<210> 101
<211> 441
<212> PRT
<213> Secuencia artificial

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

<400> 101

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

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

Asn Tyr Ala Asn Trp Val Gln Glu Lys Pro Gly Gln Ala Phe Arg Gly
        35                  40                  45

Leu Ile Gly Gly Thr Asn Lys Arg Ala Pro Gly Thr Pro Ala Arg Phe
    50                  55                  60

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

Gln Pro Glu Asp Glu Ala Glu Tyr Tyr Cys Ala Leu Trp Tyr Ser Asn
                85                  90                  95

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

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

Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe
    130                 135                 140
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Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly
145                 150                 155                 160

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

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

Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys Lys
        195                 200                 205

Val Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro
    210                 215                 220

Ala Pro Glu Ala Ala Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys
225                 230                 235                 240

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

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

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

Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His
    290                 295                 300

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

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

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

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

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

Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu
```

385 390 395 400

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

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

Lys Ser Leu Ser Leu Ser Pro Gly Lys
435 440

<210> 102
<211> 227
<212> PRT
<213> Secuencia artificial

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

<400> 102
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Lys Pro Gly Gly
1 5 10 15

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

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

Gly Arg Ile Lys Ser Lys Thr Asp Gly Gly Thr Thr Asp Tyr Ala Ala
50 55 60

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

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

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

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

Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu Lys Ser Gly Thr Ala Ser
130 135 140

Val Val Cys Leu Leu Asn Asn Phe Tyr Pro Arg Glu Ala Lys Val Gln

145 150 155 160

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

Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr Ser Leu Ser Ser Thr Leu
180 185 190

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

Val Thr His Gln Gly Leu Ser Ser Pro Val Thr Lys Ser Phe Asn Arg
210 215 220

Gly Glu Cys
225

<210> 103
<211> 231
<212> PRT
<213> Secuencia artificial

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

<400> 103
Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

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

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

Ser Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr Tyr Tyr Ala Asp
50 55 60

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

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

Tyr Cys Val Arg His Gly Asn Phe Gly Asn Ser Tyr Val Ser Trp Phe
100 105 110

Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Ala Ser Pro

115 120 125

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

Gln Ala Asn Lys Ala Thr Leu Val Cys Leu Ile Ser Asp Phe Tyr Pro
145 150 155 160

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

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

Ala Ser Ser Tyr Leu Ser Leu Thr Pro Glu Gln Trp Lys Ser His Arg
195 200 205

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

Val Ala Pro Thr Glu Cys Ser
225 230

<210> 104
<211> 118
<212> PRT
<213> Secuencia artificial

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

<400> 104
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 Ser Tyr
20 25 30

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

Gly Ile Ile Asn Pro Ser Gly Gly Ser Thr Ser 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 Gly Ser Gly Gly Ser Phe Asp Tyr Trp Gly Gln Gly Thr
100 105 110

Leu Val Thr Val Ser Ser
115

<210> 105
<211> 118
<212> PRT
<213> Secuencia artificial

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

<400> 105
Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser
1 5 10 15

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

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

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

Gln Gly Arg Val Thr Ile Thr Ala Asp Lys 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 Gly Ser Gly Gly Ser Met Asp Ala Trp Gly Gln Gly Thr
100 105 110

Thr Val Thr Val Ser Ser
115

<210> 106
<211> 120
<212> PRT
<213> Secuencia artificial

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

<400> 106
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Lys Pro Gly Gly
1 5 10 15

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

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

Gly Arg Ile Lys Ser Lys Thr Asp Gly Gly Thr Thr Asp Tyr Ala Ala
50 55 60

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

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

Tyr Cys Thr Thr Gly Gly Ser Gly Gly Ser Phe Asp Tyr Trp Gly Gln
100 105 110

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 107
<211> 118
<212> PRT
<213> Secuencia artificial

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

<400> 107
Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

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

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

Ser Ala Ile Ser Gly Ser Gly Gly Ser Thr Tyr Tyr Ala Asp Ser Val
50 55 60

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

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


Ala Lys Gly Gly Ser Gly Gly Ser Phe Asp Tyr Trp Gly Gln Gly Thr
            100                 105                 110


Leu Val Thr Val Ser Ser
        115


<210> 108
<211> 117
<212> PRT
<213> Secuencia artificial

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

<400> 108
Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Glu
1               5                   10                  15


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


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


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


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


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


Arg Gly Gly Ser Gly Gly Ser Phe Asp Tyr Trp Gly Gln Gly Thr Leu
            100                 105                 110


Val Thr Val Ser Ser
        115


<210> 109
<211> 118
<212> PRT
<213> Secuencia artificial

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

<400> 109

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

Ser Leu Lys Ile Ser Cys Lys Gly Ser Gly Tyr Ser Phe Thr Ser Tyr
            20                  25                  30

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

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

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

Leu Gln Trp Ser Ser Leu Lys Ala Ser Asp Thr Ala Met Tyr Tyr Cys
                85                  90                  95

Ala Arg Gly Gly Ser Gly Gly Ser Phe Asp Tyr Trp Gly Gln Gly Thr
            100                 105                 110

Leu Val Thr Val Ser Ser
        115
```

<210> 110
<211> 109
<212> PRT
<213> Secuencia artificial

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

<400> 110

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

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

Asn Tyr Ala Asn Trp Val Gln Glu Lys Pro Gly Gln Ala Phe Arg Gly
        35                  40                  45

Leu Ile Gly Gly Thr Asn Lys Arg Ala Pro Gly Thr Pro Ala Arg Phe
    50                  55                  60
```

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

Gln Pro Glu Asp Glu Ala Glu Tyr Tyr Cys Ala Leu Trp Tyr Ser Asn
85 90 95

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

<210> 111
<211> 107
<212> PRT
<213> Secuencia artificial

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

<400> 111
Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
1 5 10 15

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

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

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

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

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

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

<210> 112
<211> 109
<212> PRT
<213> Secuencia artificial

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

<400> 112

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

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

Asn Tyr Ala Asn Trp Val Gln Glu Lys Pro Gly Gln Ala Phe Arg Gly
35 40 45

Leu Ile Gly Gly Thr Asn Lys Arg Ala Pro Gly Thr Pro Ala Arg Phe
50 55 60

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

Gln Pro Glu Asp Glu Ala Glu Tyr Tyr Cys Ala Leu Trp Tyr Ser Asn
85 90 95

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

<210> 113
<211> 109
<212> PRT
<213> Secuencia artificial

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

<400> 113
Gln Thr Val Val Thr Gln Glu Pro Ser Leu Thr Val Ser Pro Gly Gly
1 5 10 15

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

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

Leu Ile Gly Gly Thr Asn Ala Arg Ala Pro Gly Thr Pro Ala Arg Phe
50 55 60

Ser Gly Ser Leu Leu Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly Val
65 70 75 80

Gln Pro Glu Asp Glu Ala Glu Tyr Tyr Cys Ala Leu Trp Tyr Ser Asn
85 90 95

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

<210> 114
<211> 109
<212> PRT
<213> Secuencia artificial

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

<400> 114
Gln Thr Val Val Thr Gln Glu Pro Ser Leu Thr Val Ser Pro Gly Gly
1 5 10 15

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

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

Leu Ile Gly Gly Thr Asn Lys Arg Ala Pro Gly Thr Pro Ala Arg Phe
50 55 60

Ser Gly Ser Leu Leu Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly Val
65 70 75 80

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

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

<210> 115
<211> 122
<212> PRT
<213> Secuencia artificial

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

<400> 115
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Lys Pro Gly Gly
1 5 10 15

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

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

35 40 45

Gly Arg Ile Lys Ser Lys Thr Asp Gly Gly Thr Thr Asp Tyr Ala Ala
50 55 60

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

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

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

Gly Thr Leu Val Thr Val Ser Ser Ala Ser
115 120

<210> 116
<211> 122
<212> PRT
<213> Secuencia artificial

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

<400> 116
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Lys Pro Gly Gly
1 5 10 15

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

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

Ser Arg Ile Lys Ser Lys Thr Asp Gly Gly Thr Thr Asp Tyr Ala Ala
50 55 60

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

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

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

Gly Thr Leu Val Thr Val Ser Ser Ala Ser

115 120

<210> 117
<211> 122
<212> PRT
<213> Secuencia artificial

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

<400> 117
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Lys Pro Gly Gly
1 5 10 15

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

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

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

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

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

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

Gly Thr Leu Val Thr Val Ser Ser Ala Ser
115 120

<210> 118
<211> 122
<212> PRT
<213> Secuencia artificial

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

<400> 118
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Lys Pro Gly Gly
1 5 10 15

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

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

Gly Arg Ile Lys Ser Lys Thr Asp Gly Gly Thr Thr Asp Tyr Ala Ala
    50                  55                  60

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

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

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

Gly Thr Leu Val Thr Val Ser Ser Ala Ser
        115                 120
```

<210> 119
<211> 122
<212> PRT
<213> Secuencia artificial

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

<400> 119

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

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

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

Gly Arg Ile Lys Ser Lys Thr Asp Gly Gly Thr Thr Asp Tyr Ala Ala
    50                  55                  60

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

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

Tyr Cys Thr Thr Pro Trp Glu Tyr Ser Trp Tyr Asp Tyr Trp Gly Gln
            100                 105                 110
```

Gly Thr Leu Val Thr Val Ser Ser Ala Ser
        115   120

<210> 120
<211> 122
<212> PRT
<213> Secuencia artificial

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

<400> 120
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 Ser Tyr
            20   25   30

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

Gly Ile Ile Asn Pro Ser Gly Gly Ser Thr Ser 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 Asn Tyr Thr Ile Val Val Ser Pro Phe Asp Tyr Trp Gly Gln
            100   105   110

Gly Thr Leu Val Thr Val Ser Ser Ala Ser
        115   120

<210> 121
<211> 122
<212> PRT
<213> Secuencia artificial

<220>
<221> fuente
<223> /nota="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 Ser Tyr
20 25 30

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

Gly Ile Ile Asn Pro Ser Gly Gly Ser Thr Ser 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 Asn Tyr Phe Ile Gly Ser Val Ala Met Asp Tyr Trp Gly Gln
100 105 110

Gly Thr Leu Val Thr Val Ser Ser Ala Ser
115 120

<210> 122
<211> 119
<212> PRT
<213> Secuencia artificial

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

<400> 122
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 Ser Tyr
20 25 30

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

Gly Ile Ile Asn Pro Ser Gly Gly Ser Thr Ser 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 Leu Thr Tyr Ser Met Asp Tyr Trp Gly Gln Gly Thr Leu
100 105 110

Val Thr Val Ser Ser Ala Ser
115

<210> 123
<211> 114
<212> PRT
<213> Secuencia artificial

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

<400> 123
Asp Ile Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro Gly
1 5 10 15

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

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

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

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

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

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

Arg Thr

<210> 124
<211> 118
<212> PRT
<213> Secuencia artificial

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

<400> 124

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

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

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

Ser Ala Ile Ser Gly Ser Gly Gly Ser Thr Tyr Tyr Ala Asp Ser Val
50 55 60

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

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

Ala Lys Tyr Ala Tyr Ala Leu Asp Tyr Trp Gly Gln Gly Thr Leu Val
100 105 110

Thr Val Ser Ser Ala Ser
115

<210> 125
<211> 109
<212> PRT
<213> Secuencia artificial

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

<400> 125
Glu Ile Val Leu Thr Gln Ser Pro Gly Thr Leu Ser Leu Ser Pro Gly
1 5 10 15

Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Ser Ser Ser
20 25 30

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

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

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

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

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

<210> 126
<211> 122
<212> PRT
<213> Secuencia artificial

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

<400> 126
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 Ser Tyr
20 25 30

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

Gly Ile Ile Asn Pro Ser Gly Gly Ser Thr Ser 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 Asp Phe Ser Ala Gly Arg Leu Met Asp Tyr Trp Gly Gln
100 105 110

Gly Thr Leu Val Thr Val Ser Ser Ala Ser
115 120

<210> 127
<211> 115
<212> PRT
<213> Secuencia artificial

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

<400> 127
Asp Ile Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro Gly

1 5 10 15

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

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

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

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

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

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

Lys Arg Thr
115

<210> 128
<211> 119
<212> PRT
<213> Secuencia artificial

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

<400> 128
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 Ser Tyr
20 25 30

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

Gly Ile Ile Asn Pro Ser Gly Gly Ser Thr Ser 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 Asp Tyr Asn Ala Phe Asp Tyr Trp Gly His Gly Thr Leu
100 105 110

Val Thr Val Ser Ser Ala Ser
115

<210> 129
<211> 113
<212> PRT
<213> Secuencia artificial

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

<400> 129
Asp Ile Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro Gly
1 5 10 15

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

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

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

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

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

Trp His Ser Pro Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg
100 105 110

Thr

<210> 130
<211> 119
<212> PRT
<213> Secuencia artificial

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

<400> 130
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 Ser Tyr
20 25 30

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

Gly Ile Ile Asn Pro Ser Gly Gly Ser Thr Ser 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 Ala Thr Tyr Thr Met Asp Tyr Trp Gly Gln Gly Thr Leu
100 105 110

Val Thr Val Ser Ser Ala Ser
115

<210> 131
<211> 114
<212> PRT
<213> Secuencia artificial

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

<400> 131
Asp Ile Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro Gly
1 5 10 15

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

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

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

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

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

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

Arg Thr

<210> 132
<211> 112
<212> PRT
<213> Secuencia artificial

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

<400> 132
Asp Ile Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro Gly
1 5 10 15

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

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

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

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

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

Ser Ile Met Ser Arg Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
100 105 110

<210> 133
<211> 112
<212> PRT
<213> Secuencia artificial

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

<400> 133
Asp Ile Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro Gly
1 5 10 15

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

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

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

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

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

Ser Ile Met Gln Arg Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
100 105 110

<210> 134
<211> 112
<212> PRT
<213> Secuencia artificial

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

<400> 134
Asp Ile Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro Gly
1 5 10 15

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

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

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

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

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

Ser Ile Met Asn Arg Ala Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
100 105 110

<210> 135
<211> 112
<212> PRT
<213> Secuencia artificial

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

<400> 135
Asp Ile Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro Gly
1 5 10 15

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

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

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

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

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

Ser Ile Met Asn Arg Asn Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
100 105 110

<210> 136
<211> 448
<212> PRT
<213> Secuencia artificial

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

<400> 136
Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Leu Val Lys Pro Gly Ala
1 5 10 15

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

```
Phe Met Asn Trp Val Lys Gln Ser His Gly Lys Ser Leu Glu Trp Ile
        35                  40                  45

Gly Arg Ile His Pro Tyr Asp Gly Asp Thr Phe Tyr Asn Gln Asn Phe
    50                  55                  60

Lys Asp Lys Ala Thr Leu Thr Val Asp Lys Ser Ser Asn Thr Ala His
65                  70                  75                  80

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

Thr Arg Tyr Asp Gly Ser Arg Ala Met Asp Tyr Trp Gly Gln Gly Thr
            100                 105                 110

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

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

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

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

Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser
            180                 185                 190

Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His Lys Pro Ser
        195                 200                 205

Asn Thr Lys Val Asp Lys Lys Val Glu Pro Lys Ser Cys Asp Lys Thr
    210                 215                 220

His Thr Cys Pro Pro Cys Pro Ala Pro Glu Ala Ala Gly Gly Pro Ser
225                 230                 235                 240

Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg
                245                 250                 255

Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His Glu Asp Pro
            260                 265                 270

Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala
        275                 280                 285
```

Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val
290 295 300

Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr
305 310 315 320

Lys Cys Lys Val Ser Asn Lys Ala Leu Gly Ala Pro Ile Glu Lys Thr
325 330 335

Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Cys Thr Leu
340 345 350

Pro Pro Ser Arg Asp Glu Leu Thr Lys Asn Gln Val Ser Leu Ser Cys
355 360 365

Ala Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser
370 375 380

Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp
385 390 395 400

Ser Asp Gly Ser Phe Phe Leu Val Ser Lys Leu Thr Val Asp Lys Ser
405 410 415

Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala
420 425 430

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

<210> 137
<211> 691
<212> PRT
<213> Secuencia artificial

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

<400> 137
Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Leu Val Lys Pro Gly Ala
1 5 10 15

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

Phe Met Asn Trp Val Lys Gln Ser His Gly Lys Ser Leu Glu Trp Ile
35 40 45

```
Gly Arg Ile His Pro Tyr Asp Gly Asp Thr Phe Tyr Asn Gln Asn Phe
    50                  55                  60

Lys Asp Lys Ala Thr Leu Thr Val Asp Lys Ser Ser Asn Thr Ala His
65                  70                  75                  80

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

Thr Arg Tyr Asp Gly Ser Arg Ala Met Asp Tyr Trp Gly Gln Gly Thr
            100                 105                 110

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

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

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

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

Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser
            180                 185                 190

Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His Lys Pro Ser
        195                 200                 205

Asn Thr Lys Val Asp Lys Lys Val Glu Pro Lys Ser Cys Asp Gly Gly
    210                 215                 220

Gly Gly Ser Gly Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly
225                 230                 235                 240

Gly Gly Leu Val Gln Pro Lys Gly Ser Leu Lys Leu Ser Cys Ala Ala
                245                 250                 255

Ser Gly Phe Thr Phe Asn Thr Tyr Ala Met Asn Trp Val Arg Gln Ala
            260                 265                 270

Pro Gly Lys Gly Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn
        275                 280                 285

Asn Tyr Ala Thr Tyr Tyr Ala Asp Ser Val Lys Asp Arg Phe Thr Ile
    290                 295                 300
```

```
Ser Arg Asp Asp Ser Gln Ser Ile Leu Tyr Leu Gln Met Asn Asn Leu
305                 310                 315                 320

Lys Thr Glu Asp Thr Ala Met Tyr Tyr Cys Val Arg His Gly Asn Phe
                325                 330                 335

Gly Asn Ser Tyr Val Ser Trp Phe Ala Tyr Trp Gly Gln Gly Thr Leu
            340                 345                 350

Val Thr Val Ser Ala Ala Ser Val Ala Ala Pro Ser Val Phe Ile Phe
        355                 360                 365

Pro Pro Ser Asp Glu Gln Leu Lys Ser Gly Thr Ala Ser Val Val Cys
    370                 375                 380

Leu Leu Asn Asn Phe Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val
385                 390                 395                 400

Asp Asn Ala Leu Gln Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln
                405                 410                 415

Asp Ser Lys Asp Ser Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser
            420                 425                 430

Lys Ala Asp Tyr Glu Lys His Lys Val Tyr Ala Cys Glu Val Thr His
        435                 440                 445

Gln Gly Leu Ser Ser Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
    450                 455                 460

Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Ala Ala Gly
465                 470                 475                 480

Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met
                485                 490                 495

Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His
            500                 505                 510

Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val
        515                 520                 525

His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr
    530                 535                 540

Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly
```

545 550 555 560

Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Gly Ala Pro Ile
565 570 575

Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val
580 585 590

Tyr Thr Leu Pro Pro Cys Arg Asp Glu Leu Thr Lys Asn Gln Val Ser
595 600 605

Leu Trp Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu
610 615 620

Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro
625 630 635 640

Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val
645 650 655

Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met
660 665 670

His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser
675 680 685

Pro Gly Lys
690

<210> 138
<211> 218
<212> PRT
<213> Secuencia artificial

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

<400> 138
Asp Ile Glu Leu Thr Gln Ser Pro Ala Ser Leu Ala Val Ser Leu Gly
1 5 10 15

Gln Arg Ala Ile Ile Ser Cys Lys Ala Ser Gln Ser Val Ser Phe Ala
20 25 30

Gly Thr Ser Leu Met His Trp Tyr His Gln Lys Pro Gly Gln Gln Pro
35 40 45

Lys Leu Leu Ile Tyr Arg Ala Ser Asn Leu Glu Ala Gly Val Pro Thr

50 55 60

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

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

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

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

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

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

Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr
165 170 175

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

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

Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
210 215

<210> 139
<211> 257
<212> PRT
<213> Homo sapiens

<400> 139
Met Ala Gln Arg Met Thr Thr Gln Leu Leu Leu Leu Leu Val Trp Val
1 5 10 15

Ala Val Val Gly Glu Ala Gln Thr Arg Ile Ala Trp Ala Arg Thr Glu
20 25 30

Leu Leu Asn Val Cys Met Asn Ala Lys His His Lys Glu Lys Pro Gly
35 40 45

Pro Glu Asp Lys Leu His Glu Gln Cys Arg Pro Trp Arg Lys Asn Ala
50 55 60

```
Cys Cys Ser Thr Asn Thr Ser Gln Glu Ala His Lys Asp Val Ser Tyr
65                  70                  75                  80

Leu Tyr Arg Phe Asn Trp Asn His Cys Gly Glu Met Ala Pro Ala Cys
                85                  90                  95

Lys Arg His Phe Ile Gln Asp Thr Cys Leu Tyr Glu Cys Ser Pro Asn
            100                 105                 110

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

Val Leu Asn Val Pro Leu Cys Lys Glu Asp Cys Glu Gln Trp Trp Glu
    130                 135                 140

Asp Cys Arg Thr Ser Tyr Thr Cys Lys Ser Asn Trp His Lys Gly Trp
145                 150                 155                 160

Asn Trp Thr Ser Gly Phe Asn Lys Cys Ala Val Gly Ala Ala Cys Gln
                165                 170                 175

Pro Phe His Phe Tyr Phe Pro Thr Pro Thr Val Leu Cys Asn Glu Ile
            180                 185                 190

Trp Thr His Ser Tyr Lys Val Ser Asn Tyr Ser Arg Gly Ser Gly Arg
        195                 200                 205

Cys Ile Gln Met Trp Phe Asp Pro Ala Gln Gly Asn Pro Asn Glu Glu
    210                 215                 220

Val Ala Arg Phe Tyr Ala Ala Ala Met Ser Gly Ala Gly Pro Trp Ala
225                 230                 235                 240

Ala Trp Pro Phe Leu Leu Ser Leu Ala Leu Met Leu Leu Trp Leu Leu
                245                 250                 255

Ser
```

<210> 140
<211> 468
<212> PRT
<213> Secuencia artificial

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

<400> 140
Arg Ile Ala Trp Ala Arg Thr Glu Leu Leu Asn Val Cys Met Asn Ala
1 5 10 15

Lys His His Lys Glu Lys Pro Gly Pro Glu Asp Lys Leu His Glu Gln
20 25 30

Cys Arg Pro Trp Arg Lys Asn Ala Cys Cys Ser Thr Asn Thr Ser Gln
35 40 45

Glu Ala His Lys Asp Val Ser Tyr Leu Tyr Arg Phe Asn Trp Asn His
50 55 60

Cys Gly Glu Met Ala Pro Ala Cys Lys Arg His Phe Ile Gln Asp Thr
65 70 75 80

Cys Leu Tyr Glu Cys Ser Pro Asn Leu Gly Pro Trp Ile Gln Gln Val
85 90 95

Asp Gln Ser Trp Arg Lys Glu Arg Val Leu Asn Val Pro Leu Cys Lys
100 105 110

Glu Asp Cys Glu Gln Trp Trp Glu Asp Cys Arg Thr Ser Tyr Thr Cys
115 120 125

Lys Ser Asn Trp His Lys Gly Trp Asn Trp Thr Ser Gly Phe Asn Lys
130 135 140

Cys Ala Val Gly Ala Ala Cys Gln Pro Phe His Phe Tyr Phe Pro Thr
145 150 155 160

Pro Thr Val Leu Cys Asn Glu Ile Trp Thr His Ser Tyr Lys Val Ser
165 170 175

Asn Tyr Ser Arg Gly Ser Gly Arg Cys Ile Gln Met Trp Phe Asp Pro
180 185 190

Ala Gln Gly Asn Pro Asn Glu Glu Val Ala Arg Phe Tyr Ala Ala Ala
195 200 205

Met Val Asp Glu Gln Leu Tyr Phe Gln Gly Gly Ser Pro Lys Ser Ala
210 215 220

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

Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met

245 250 255

Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His
260 265 270

Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val
275 280 285

His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr
290 295 300

Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly
305 310 315 320

Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile
325 330 335

Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val
340 345 350

Tyr Thr Leu Pro Pro Cys Arg Asp Glu Leu Thr Lys Asn Gln Val Ser
355 360 365

Leu Trp Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu
370 375 380

Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro
385 390 395 400

Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val
405 410 415

Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met
420 425 430

His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser
435 440 445

Pro Gly Lys Ser Gly Gly Leu Asn Asp Ile Phe Glu Ala Gln Lys Ile
450 455 460

Glu Trp His Glu
465

<210> 141
<211> 227
<212> PRT
<213> Secuencia artificial

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

<400> 141

```
Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly
1               5                  10                  15

Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met
            20                  25                  30

Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His
        35                  40                  45

Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val
    50                  55                  60

His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr
65                  70                  75                  80

Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly
                85                  90                  95

Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile
            100                 105                 110

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

Cys Thr Leu Pro Pro Ser Arg Asp Glu Leu Thr Lys Asn Gln Val Ser
    130                 135                 140

Leu Ser Cys Ala Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu
145                 150                 155                 160

Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro
                165                 170                 175

Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Val Ser Lys Leu Thr Val
            180                 185                 190

Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met
        195                 200                 205

His Glu Ala Leu His Asn Arg Phe Thr Gln Lys Ser Leu Ser Leu Ser
    210                 215                 220
```

Pro Gly Lys
225

<210> 142
<211> 255
<212> PRT
<213> Mus musculus

<400> 142
Met Ala His Leu Met Thr Val Gln Leu Leu Leu Leu Val Met Trp Met
1 5 10 15

Ala Glu Cys Ala Gln Ser Arg Ala Thr Arg Ala Arg Thr Glu Leu Leu
20 25 30

Asn Val Cys Met Asp Ala Lys His His Lys Glu Lys Pro Gly Pro Glu
35 40 45

Asp Asn Leu His Asp Gln Cys Ser Pro Trp Lys Thr Asn Ser Cys Cys
50 55 60

Ser Thr Asn Thr Ser Gln Glu Ala His Lys Asp Ile Ser Tyr Leu Tyr
65 70 75 80

Arg Phe Asn Trp Asn His Cys Gly Thr Met Thr Ser Glu Cys Lys Arg
85 90 95

His Phe Ile Gln Asp Thr Cys Leu Tyr Glu Cys Ser Pro Asn Leu Gly
100 105 110

Pro Trp Ile Gln Gln Val Asp Gln Ser Trp Arg Lys Glu Arg Ile Leu
115 120 125

Asp Val Pro Leu Cys Lys Glu Asp Cys Gln Gln Trp Trp Glu Asp Cys
130 135 140

Gln Ser Ser Phe Thr Cys Lys Ser Asn Trp His Lys Gly Trp Asn Trp
145 150 155 160

Ser Ser Gly His Asn Glu Cys Pro Val Gly Ala Ser Cys His Pro Phe
165 170 175

Thr Phe Tyr Phe Pro Thr Ser Ala Ala Leu Cys Glu Glu Ile Trp Ser
180 185 190

His Ser Tyr Lys Leu Ser Asn Tyr Ser Arg Gly Ser Gly Arg Cys Ile
195 200 205

Gln Met Trp Phe Asp Pro Ala Gln Gly Asn Pro Asn Glu Glu Val Ala

210 215 220

Arg Phe Tyr Ala Glu Ala Met Ser Gly Ala Gly Leu His Gly Thr Trp
225 230 235 240

Pro Leu Leu Cys Ser Leu Ser Leu Val Leu Leu Trp Val Ile Ser
245 250 255

<210> 143
<211> 466
<212> PRT
<213> Secuencia artificial

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

<400> 143
Thr Arg Ala Arg Thr Glu Leu Leu Asn Val Cys Met Asp Ala Lys His
1 5 10 15

His Lys Glu Lys Pro Gly Pro Glu Asp Asn Leu His Asp Gln Cys Ser
20 25 30

Pro Trp Lys Thr Asn Ser Cys Cys Ser Thr Asn Thr Ser Gln Glu Ala
35 40 45

His Lys Asp Ile Ser Tyr Leu Tyr Arg Phe Asn Trp Asn His Cys Gly
50 55 60

Thr Met Thr Ser Glu Cys Lys Arg His Phe Ile Gln Asp Thr Cys Leu
65 70 75 80

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

Ser Trp Arg Lys Glu Arg Ile Leu Asp Val Pro Leu Cys Lys Glu Asp
100 105 110

Cys Gln Gln Trp Trp Glu Asp Cys Gln Ser Ser Phe Thr Cys Lys Ser
115 120 125

Asn Trp His Lys Gly Trp Asn Trp Ser Ser Gly His Asn Glu Cys Pro
130 135 140

Val Gly Ala Ser Cys His Pro Phe Thr Phe Tyr Phe Pro Thr Ser Ala
145 150 155 160

Ala Leu Cys Glu Glu Ile Trp Ser His Ser Tyr Lys Leu Ser Asn Tyr

```
                165                 170                 175

Ser Arg Gly Ser Gly Arg Cys Ile Gln Met Trp Phe Asp Pro Ala Gln
            180                 185                 190

Gly Asn Pro Asn Glu Glu Val Ala Arg Phe Tyr Ala Glu Ala Met Val
        195                 200                 205

Asp Glu Gln Leu Tyr Phe Gln Gly Gly Ser Pro Lys Ser Ala Asp Lys
    210                 215                 220

Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro
225                 230                 235                 240

Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser
                245                 250                 255

Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His Glu Asp
            260                 265                 270

Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn
        275                 280                 285

Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val
    290                 295                 300

Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu
305                 310                 315                 320

Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys
                325                 330                 335

Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr
            340                 345                 350

Leu Pro Pro Cys Arg Asp Glu Leu Thr Lys Asn Gln Val Ser Leu Trp
        355                 360                 365

Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu
    370                 375                 380

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

Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys
                405                 410                 415
```

```
Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu
            420                 425                 430

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

Lys Ser Gly Gly Leu Asn Asp Ile Phe Glu Ala Gln Lys Ile Glu Trp
    450                 455                 460

His Glu
465
```

<210> 144
<211> 257
<212> PRT
<213> Macaca fascicularis

<400> 144

```
Met Ala Gln Arg Met Thr Thr Gln Leu Leu Leu Leu Leu Val Trp Val
1               5                   10                  15

Ala Val Val Gly Glu Ala Gln Thr Arg Thr Ala Arg Ala Arg Thr Glu
            20                  25                  30

Leu Leu Asn Val Cys Met Asn Ala Lys His His Lys Glu Lys Pro Gly
        35                  40                  45

Pro Glu Asp Lys Leu His Glu Gln Cys Arg Pro Trp Lys Lys Asn Ala
    50                  55                  60

Cys Cys Ser Thr Asn Thr Ser Gln Glu Ala His Lys Asp Val Ser Tyr
65                  70                  75                  80

Leu Tyr Arg Phe Asn Trp Asn His Cys Gly Glu Met Ala Pro Ala Cys
                85                  90                  95

Lys Arg His Phe Ile Gln Asp Thr Cys Leu Tyr Glu Cys Ser Pro Asn
            100                 105                 110

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

Val Leu Asn Val Pro Leu Cys Lys Glu Asp Cys Glu Arg Trp Trp Glu
    130                 135                 140

Asp Cys Arg Thr Ser Tyr Thr Cys Lys Ser Asn Trp His Lys Gly Trp
145                 150                 155                 160

Asn Trp Thr Ser Gly Phe Asn Lys Cys Pro Val Gly Ala Ala Cys Gln
```

165 170 175

Pro Phe His Phe Tyr Phe Pro Thr Pro Thr Val Leu Cys Asn Glu Ile
180 185 190

Trp Thr Tyr Ser Tyr Lys Val Ser Asn Tyr Ser Arg Gly Ser Gly Arg
195 200 205

Cys Ile Gln Met Trp Phe Asp Pro Ala Gln Gly Asn Pro Asn Glu Glu
210 215 220

Val Ala Arg Phe Tyr Ala Ala Ala Met Ser Gly Ala Gly Pro Trp Ala
225 230 235 240

Ala Trp Pro Leu Leu Leu Ser Leu Ala Leu Thr Leu Leu Trp Leu Leu
245 250 255

Ser

<210> 145
<211> 468
<212> PRT
<213> Secuencia artificial

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

<400> 145
Arg Thr Ala Arg Ala Arg Thr Glu Leu Leu Asn Val Cys Met Asn Ala
1 5 10 15

Lys His His Lys Glu Lys Pro Gly Pro Glu Asp Lys Leu His Glu Gln
20 25 30

Cys Arg Pro Trp Lys Lys Asn Ala Cys Cys Ser Thr Asn Thr Ser Gln
35 40 45

Glu Ala His Lys Asp Val Ser Tyr Leu Tyr Arg Phe Asn Trp Asn His
50 55 60

Cys Gly Glu Met Ala Pro Ala Cys Lys Arg His Phe Ile Gln Asp Thr
65 70 75 80

Cys Leu Tyr Glu Cys Ser Pro Asn Leu Gly Pro Trp Ile Gln Gln Val
85 90 95

Asp Gln Ser Trp Arg Lys Glu Arg Val Leu Asn Val Pro Leu Cys Lys

```
            100                 105                 110

Glu Asp Cys Glu Gln Trp Trp Glu Asp Cys Arg Thr Ser Tyr Thr Cys
        115                 120                 125

Lys Ser Asn Trp His Lys Gly Trp Asn Trp Thr Ser Gly Phe Asn Lys
    130                 135                 140

Cys Pro Val Gly Ala Ala Cys Gln Pro Phe His Phe Tyr Phe Pro Thr
145                 150                 155                 160

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

Asn Tyr Ser Arg Gly Ser Gly Arg Cys Ile Gln Met Trp Phe Asp Pro
            180                 185                 190

Ala Gln Gly Asn Pro Asn Glu Glu Val Ala Arg Phe Tyr Ala Ala Ala
        195                 200                 205

Met Val Asp Glu Gln Leu Tyr Phe Gln Gly Gly Ser Pro Lys Ser Ala
    210                 215                 220

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

Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met
                245                 250                 255

Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His
            260                 265                 270

Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val
        275                 280                 285

His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr
    290                 295                 300

Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly
305                 310                 315                 320

Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile
                325                 330                 335

Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val
            340                 345                 350
```

```
Tyr Thr Leu Pro Pro Cys Arg Asp Glu Leu Thr Lys Asn Gln Val Ser
        355                 360                 365

Leu Trp Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu
    370                 375                 380

Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro
385                 390                 395                 400

Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val
                405                 410                 415

Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met
            420                 425                 430

His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser
        435                 440                 445

Pro Gly Lys Ser Gly Gly Leu Asn Asp Ile Phe Glu Ala Gln Lys Ile
    450                 455                 460

Glu Trp His Glu
465
```

<210> 146
<211> 255
<212> PRT
<213> Homo sapiens

<400> 146

```
Met Val Trp Lys Trp Met Pro Leu Leu Leu Leu Leu Val Cys Val Ala
1               5                   10                  15

Thr Met Cys Ser Ala Gln Asp Arg Thr Asp Leu Leu Asn Val Cys Met
            20                  25                  30

Asp Ala Lys His His Lys Thr Lys Pro Gly Pro Glu Asp Lys Leu His
        35                  40                  45

Asp Gln Cys Ser Pro Trp Lys Lys Asn Ala Cys Cys Thr Ala Ser Thr
    50                  55                  60

Ser Gln Glu Leu His Lys Asp Thr Ser Arg Leu Tyr Asn Phe Asn Trp
65                  70                  75                  80

Asp His Cys Gly Lys Met Glu Pro Ala Cys Lys Arg His Phe Ile Gln
                85                  90                  95

Asp Thr Cys Leu Tyr Glu Cys Ser Pro Asn Leu Gly Pro Trp Ile Gln
```

100 105 110

Gln Val Asn Gln Ser Trp Arg Lys Glu Arg Phe Leu Asp Val Pro Leu
115 120 125

Cys Lys Glu Asp Cys Gln Arg Trp Trp Glu Asp Cys His Thr Ser His
130 135 140

Thr Cys Lys Ser Asn Trp His Arg Gly Trp Asp Trp Thr Ser Gly Val
145 150 155 160

Asn Lys Cys Pro Ala Gly Ala Leu Cys Arg Thr Phe Glu Ser Tyr Phe
165 170 175

Pro Thr Pro Ala Ala Leu Cys Glu Gly Leu Trp Ser His Ser Tyr Lys
180 185 190

Val Ser Asn Tyr Ser Arg Gly Ser Gly Arg Cys Ile Gln Met Trp Phe
195 200 205

Asp Ser Ala Gln Gly Asn Pro Asn Glu Glu Val Ala Arg Phe Tyr Ala
210 215 220

Ala Ala Met His Val Asn Ala Gly Glu Met Leu His Gly Thr Gly Gly
225 230 235 240

Leu Leu Leu Ser Leu Ala Leu Met Leu Gln Leu Trp Leu Leu Gly
245 250 255

<210> 147
<211> 472
<212> PRT
<213> Secuencia artificial

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

<400> 147
Thr Met Cys Ser Ala Gln Asp Arg Thr Asp Leu Leu Asn Val Cys Met
1 5 10 15

Asp Ala Lys His His Lys Thr Lys Pro Gly Pro Glu Asp Lys Leu His
20 25 30

Asp Gln Cys Ser Pro Trp Lys Lys Asn Ala Cys Cys Thr Ala Ser Thr
35 40 45

Ser Gln Glu Leu His Lys Asp Thr Ser Arg Leu Tyr Asn Phe Asn Trp

```
    50                  55                  60

Asp His Cys Gly Lys Met Glu Pro Ala Cys Lys Arg His Phe Ile Gln
65                  70                  75                  80

Asp Thr Cys Leu Tyr Glu Cys Ser Pro Asn Leu Gly Pro Trp Ile Gln
                85                  90                  95

Gln Val Asn Gln Ser Trp Arg Lys Glu Arg Phe Leu Asp Val Pro Leu
            100                 105                 110

Cys Lys Glu Asp Cys Gln Arg Trp Trp Glu Asp Cys His Thr Ser His
        115                 120                 125

Thr Cys Lys Ser Asn Trp His Arg Gly Trp Asp Trp Thr Ser Gly Val
    130                 135                 140

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

Pro Thr Pro Ala Ala Leu Cys Glu Gly Leu Trp Ser His Ser Tyr Lys
                165                 170                 175

Val Ser Asn Tyr Ser Arg Gly Ser Gly Arg Cys Ile Gln Met Trp Phe
            180                 185                 190

Asp Ser Ala Gln Gly Asn Pro Asn Glu Glu Val Ala Arg Phe Tyr Ala
        195                 200                 205

Ala Ala Met His Val Val Asp Glu Gln Leu Tyr Phe Gln Gly Gly Ser
    210                 215                 220

Pro Lys Ser Ala Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro
225                 230                 235                 240

Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys
                245                 250                 255

Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val
            260                 265                 270

Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp
        275                 280                 285

Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr
    290                 295                 300
```

```
Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp
305                 310                 315                 320

Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu
                325                 330                 335

Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg
            340                 345                 350

Glu Pro Gln Val Tyr Thr Leu Pro Pro Cys Arg Asp Glu Leu Thr Lys
        355                 360                 365

Asn Gln Val Ser Leu Trp Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp
    370                 375                 380

Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys
385                 390                 395                 400

Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser
                405                 410                 415

Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser
            420                 425                 430

Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser
        435                 440                 445

Leu Ser Leu Ser Pro Gly Lys Ser Gly Gly Leu Asn Asp Ile Phe Glu
    450                 455                 460

Ala Gln Lys Ile Glu Trp His Glu
465                 470
```

<210> 148
<211> 243
<212> PRT
<213> Homo sapiens

<400> 148

```
Met Ala Trp Gln Met Met Gln Leu Leu Leu Leu Ala Leu Val Thr Ala
1               5                   10                  15

Ala Gly Ser Ala Gln Pro Arg Ser Ala Arg Ala Arg Thr Asp Leu Leu
            20                  25                  30

Asn Val Cys Met Asn Ala Lys His His Lys Thr Gln Pro Ser Pro Glu
        35                  40                  45

Asp Glu Leu Tyr Gly Gln Cys Ser Pro Trp Lys Lys Asn Ala Cys Cys
```

50 55 60

Thr Ala Ser Thr Ser Gln Glu Leu His Lys Asp Thr Ser Arg Leu Tyr
65 70 75 80

Asn Phe Asn Trp Asp His Cys Gly Lys Met Glu Pro Thr Cys Lys Arg
85 90 95

His Phe Ile Gln Asp Ser Cys Leu Tyr Glu Cys Ser Pro Asn Leu Gly
100 105 110

Pro Trp Ile Arg Gln Val Asn Gln Ser Trp Arg Lys Glu Arg Ile Leu
115 120 125

Asn Val Pro Leu Cys Lys Glu Asp Cys Glu Arg Trp Trp Glu Asp Cys
130 135 140

Arg Thr Ser Tyr Thr Cys Lys Ser Asn Trp His Lys Gly Trp Asn Trp
145 150 155 160

Thr Ser Gly Ile Asn Glu Cys Pro Ala Gly Ala Leu Cys Ser Thr Phe
165 170 175

Glu Ser Tyr Phe Pro Thr Pro Ala Ala Leu Cys Glu Gly Leu Trp Ser
180 185 190

His Ser Phe Lys Val Ser Asn Tyr Ser Arg Gly Ser Gly Arg Cys Ile
195 200 205

Gln Met Trp Phe Asp Ser Ala Gln Gly Asn Pro Asn Glu Glu Val Ala
210 215 220

Lys Phe Tyr Ala Ala Ala Met Asn Ala Gly Ala Pro Ser Arg Gly Ile
225 230 235 240

Ile Asp Ser

<210> 149
<211> 479
<212> PRT
<213> Secuencia artificial

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

<400> 149
Ser Ala Arg Ala Arg Thr Asp Leu Leu Asn Val Cys Met Asn Ala Lys

```
1               5                   10                  15

His His Lys Thr Gln Pro Ser Pro Glu Asp Glu Leu Tyr Gly Gln Cys
            20                  25                  30

Ser Pro Trp Lys Lys Asn Ala Cys Cys Thr Ala Ser Thr Ser Gln Glu
        35                  40                  45

Leu His Lys Asp Thr Ser Arg Leu Tyr Asn Phe Asn Trp Asp His Cys
    50                  55                  60

Gly Lys Met Glu Pro Thr Cys Lys Arg His Phe Ile Gln Asp Ser Cys
65                  70                  75                  80

Leu Tyr Glu Cys Ser Pro Asn Leu Gly Pro Trp Ile Arg Gln Val Asn
                85                  90                  95

Gln Ser Trp Arg Lys Glu Arg Ile Leu Asn Val Pro Leu Cys Lys Glu
            100                 105                 110

Asp Cys Glu Arg Trp Trp Glu Asp Cys Arg Thr Ser Tyr Thr Cys Lys
        115                 120                 125

Ser Asn Trp His Lys Gly Trp Asn Trp Thr Ser Gly Ile Asn Glu Cys
    130                 135                 140

Pro Ala Gly Ala Leu Cys Ser Thr Phe Glu Ser Tyr Phe Pro Thr Pro
145                 150                 155                 160

Ala Ala Leu Cys Glu Gly Leu Trp Ser His Ser Phe Lys Val Ser Asn
                165                 170                 175

Tyr Ser Arg Gly Ser Gly Arg Cys Ile Gln Met Trp Phe Asp Ser Ala
            180                 185                 190

Gln Gly Asn Pro Asn Glu Glu Val Ala Lys Phe Tyr Ala Ala Ala Met
        195                 200                 205

Asn Ala Gly Ala Pro Ser Arg Gly Ile Ile Asp Ser Val Asp Glu Gln
    210                 215                 220

Leu Tyr Phe Gln Gly Gly Ser Pro Lys Ser Ala Asp Lys Thr His Thr
225                 230                 235                 240

Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe
                245                 250                 255
```

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

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

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

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

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

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

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

Cys Arg Asp Glu Leu Thr Lys Asn Gln Val Ser Leu Trp Cys Leu Val
    370                 375                 380

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

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

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

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

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

Gly Leu Asn Asp Ile Phe Glu Ala Gln Lys Ile Glu Trp His Glu
465                 470                 475


<210> 150
<211> 207
<212> PRT
<213> Homo sapiens

<400> 150
Met Gln Ser Gly Thr His Trp Arg Val Leu Gly Leu Cys Leu Leu Ser
```

1 5 10 15

Val Gly Val Trp Gly Gln Asp Gly Asn Glu Glu Met Gly Gly Ile Thr
20 25 30

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

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

Asn Ile Gly Gly Asp Glu Asp Asp Lys Asn Ile Gly Ser Asp Glu Asp
65 70 75 80

His Leu Ser Leu Lys Glu Phe Ser Glu Leu Glu Gln Ser Gly Tyr Tyr
85 90 95

Val Cys Tyr Pro Arg Gly Ser Lys Pro Glu Asp Ala Asn Phe Tyr Leu
100 105 110

Tyr Leu Arg Ala Arg Val Cys Glu Asn Cys Met Glu Met Asp Val Met
115 120 125

Ser Val Ala Thr Ile Val Ile Val Asp Ile Cys Ile Thr Gly Gly Leu
130 135 140

Leu Leu Leu Val Tyr Tyr Trp Ser Lys Asn Arg Lys Ala Lys Ala Lys
145 150 155 160

Pro Val Thr Arg Gly Ala Gly Ala Gly Gly Arg Gln Arg Gly Gln Asn
165 170 175

Lys Glu Arg Pro Pro Pro Val Pro Asn Pro Asp Tyr Glu Pro Ile Arg
180 185 190

Lys Gly Gln Arg Asp Leu Tyr Ser Gly Leu Asn Gln Arg Arg Ile
195 200 205

<210> 151
<211> 360
<212> ADN
<213> Secuencia artificial

<220>
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ccgggccagg gtctggaatg gatgggcatc attaacccaa gcggtggctc tacctcctac 180

gcgcagaaat tccagggtcg cgtcacgatg acccgtgaca ctagcacctc taccgtttat 240

atggagctgt ccagcctgcg ttctgaagat actgcagtgt actactgtgc acgcaactac 300

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<212> ADN
<213> Secuencia artificial

<220>
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agctgcaaag catccggata caccttcact tcctattaca tgcactgggt tcgtcaagcc 120

ccgggccagg gtctggaatg gatgggcatc attaacccaa gcggtggctc tacctcctac 180

gcgcagaaat tccagggtcg cgtcacgatg acccgtgaca ctagcacctc taccgtttat 240

atggagctgt ccagcctgcg ttctgaagat actgcagtgt actactgtgc acgcaactac 300

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<210> 153
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<212> ADN
<213> Secuencia artificial

<220>
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agctgcaaag catccggata caccttcact tcctattaca tgcactgggt tcgtcaagcc 120

ccgggccagg gtctggaatg gatgggcatc attaacccaa gcggtggctc tacctcctac 180

gcgcagaaat tccagggtcg cgtcacgatg acccgtgaca ctagcacctc taccgtttat 240

atggagctgt ccagcctgcg ttctgaagat actgcagtgt actactgtgc acgcaactac 300

tacactggtg gttcttctgc tttcgactat tggggtcaag gcaccctcgt aacggtttct 360

tct 363

<210> 154

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<222> (47)..(47)
<223> a, c, t, g, desconocida u otra

<400> 154
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ccgggccagg gtctggaatg gatgggcatc attaacccaa gcggtggctc tacctcctac 180

gcgcagaaat tccagggtcg cgtcacgatg acccgtgaca ctagcacctc taccgtttat 240

atggagctgt ccagcctgcg ttctgaagat actgcagtgt actactgtgc acgcggtgaa 300

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<212> ADN
<213> Secuencia artificial

<220>
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<223> /nota="Descripción de secuencia artificial: Polinucleótido sintético"

<400> 155
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agctgcaaag catccggata caccttcact tcctattaca tgcactgggt tcgtcaagcc 120

ccgggccagg gtctggaatg gatgggcatc attaacccaa gcggtggctc tacctcctac 180

gcgcagaaat tccagggtcg cgtcacgatg acccgtgaca ctagcacctc taccgtttat 240

atggagctgt ccagcctgcg ttctgaagat actgcagtgt actactgtgc acgcggtggt 300

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<213> Secuencia artificial

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agctgcaaag catccggata caccttcact tcctattaca tgcactgggt tcgtcaagcc 120

ccgggccagg gtctggaatg gatgggcatc attaacccaa gcggtggctc tacctcctac 180

gcgcagaaat tccagggtcg cgtcacgatg acccgtgaca ctagcacctc taccgtttat 240

atggagctgt ccagcctgcg ttctgaagat actgcagtgt actactgtgc acgcaactac 300

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agctgcaaag catccggata caccttcact tcctattaca tgcactgggt tcgtcaagcc 120

ccgggccagg gtctggaatg gatgggcatc attaacccaa gcggtggctc tacctcctac 180

gcgcagaaat tccagggtcg cgtcacgatg acccgtgaca ctagcacctc taccgtttat 240

atggagctgt ccagcctgcg ttctgaagat actgcagtgt actactgtgc acgcaactac 300

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<213> Secuencia artificial

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agctgcgcgg cttccggatt caccttctcc aacgcgtgga tgagctgggt tcgccaggcc 120

ccgggcaaag gcctcgagtg ggttggtcgt atcaagtcta aaactgacgg tggcaccacg 180

gattacgcgg ctccagttaa aggtcgtttt accatttccc gcgacgatag caaaaacact 240

ctgtatctgc agatgaactc tctgaaaact gaagacaccg cagtctacta ctgtactacc 300

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<210> 159

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sintético"

<220>
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<223> a, c, t, g, desconocida u otra

<400> 159
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agctgcgcgg cttccggatt caccttctcc aacgcgtgga tgagctgggt tcgccaggcc 120

ccgggcaaag gcctcgagtg ggttggtcgt atcaagtcta aaactgacgg tggcaccacg 180

gattacgcgg ctccagttaa aggtcgtttt accatttccc gcgacgatag caaaaacact 240

ctgtatctgc agatgaactc tctgaaaacc gaagacaccg cagtctacta ctgtactacc 300

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sintético"

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ccgggccagg gtctggaatg gatgggcatc attaacccaa gcggtggctc tacctcctac 180

gcgcagaaat tccagggtcg cgtcacgatg acccgtgaca ctagcacctc taccgtttat 240

atggagctgt ccagcctgcg ttctgaagat actgcagtgt actactgtgc acgcaactac 300

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<223> a, c, t, g, desconocida u otra

<220>
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<223> a, c, t, g, desconocida u otra

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ccgggccagg gtctggaatg gatgggcatc attaacccaa gcggtggctc tacctcntac 180

gcgcagaaat tccagggtcg cgtcacgatg acccgtgaca ctagcacctc taccgtttat 240

atggagctgt ccagcctgcg ttctgaagat actgcagtgt actactgtgc acgcaacttc 300

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agctgcgcgg cttccggatt caccttctcc aacgcgtgga tgagctgggt tcgccaggcc 120

ccgggcaaag gcctcgagtg ggttggtcgt atcaagtcta aaactgacgg tggcaccacg 180

gattacgcgg ctccagttaa aggtcgtttt accatttccc gcgacgatag caaaaacact 240

ctgtatctgc agatgaactc tctgaaaact gaagacaccg cagtctacta ctgtactacc 300

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sintético"

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agctgcgcgg cttccggatt caccttctcc aacgcgtgga tgagctgggt tcgccaggcc 120

ccgggcaaag gcctcgagtg ggttggtcgt atcaagtcta aaactgacgg tggcaccacg 180

gattacgcgg ctccagttaa aggtcgtttt accatttccc gcgacgatag caaaaacact 240

ctgtatctgc agatgaactc tctgaaaacc gaagacaccg cagtctacta ctgtactacc 300

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agctgcaaag catccggata caccttcact tcctattaca tgcactgggt tcgtcaagcc 120

ccgggccagg gtctggaatg gatgggcatc attaacccaa gcggtggctc tacctcctac 180

gcgcagaaat tccagggtcg cgtcacgatg acccgtgaca ctagcacctc taccgtttat 240

atggagctgt ccagcctgcg ttctgaagat actgcagtgt actactgtgc acgcactggt 300

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agctgcaaag catccggata caccttcact tcctattaca tgcactgggt tcgtcaagcc 120

ccgggccagg gtctggaatg gatgggcatc attaacccaa gcggtggctc tacctcctac 180

gcgcagaaat tccagggtcg cgtcacgatg acccgtgaca ctagcacctc taccgtttat 240

atggagctgt ccagcctgcg ttctgaagat actgcagtgt actactgtgc acgcggtgaa 300

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<220>
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ccgggccagg gtctggaatg gatgggcatc attaacccaa gcggtggctc tacctcctac 180

gcgcagaaat tccagggtcg cgtcacgatg acccgtgaca ctagcacctc taccgtttat 240

atggagctgt ccagcctgcg ttctgaagat actgcagtgt actactgtgc acgcgttggt 300

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tcctgcaagg cctccggagg cacattcagc agctacgcta taagctgggt gcgacaggcc 120

cctggacaag ggctcgagtg gatgggaggg atcatcccta tctttggtac agcaaactac 180

gcacagaagt tccagggcag ggtaaccatt actgcagaca aatccacgag cacagcctac 240

atggagctga gcagcctgag atctgaggac accgccgtgt attactgtgc gagagctgtt 300

ttctaccgtg cttggtactc tttcgactac tggggccaag ggaccaccgt gaccgtctcc 360

tca 363

<210> 168
<211> 321
<212> ADN
<213> Secuencia artificial

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

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atcacttgcc gtgccagtca gagtattagt agctggttgg cctggtatca gcagaaacca 120

gggaaagccc ctaagctcct gatctatgat gcctccagtt tggaaagtgg ggtcccatca 180

cgtttcagcg gcagtggatc cgggacagaa ttcactctca ccatcagcag cttgcagcct 240

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ggcaccaaag tcgagatcaa g 321

<210> 169
<211> 357
<212> ADN
<213> Secuencia artificial

<220>
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agctgcaaag catccggata caccttcact tcctattaca tgcactgggt tcgtcaagcc 120

ccgggccagg gtctggaatg gatgggcatc attaacccaa gcggtggctc tacctcctac 180

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<212> ADN
<213> Secuencia artificial

<220>
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ctctcttgca gggccagtca gagtgttagc agcagctact tagcctggta ccagcagaaa 120

cctggccagg ctcccaggct cctcatctat ggagcatcca gcagggccac tggcatccca 180

gacaggttca gtggcagtgg atccgggaca gacttcactc tcaccatcag cagactggag 240

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ggccagggga ccaaagtgga aatcaaa 327

<210> 171
<211> 351
<212> ADN
<213> Secuencia artificial

<220>
<221> fuente
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agctgcaaag catccggata caccttcact tcctattaca tgcactgggt tcgtcaagcc 120

ccgggccagg gtctggaatg gatgggcatc attaacccaa gcggtggccc tacctcctac 180

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<210> 172
<211> 336
<212> ADN
<213> Secuencia artificial

<220>
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tacctgcaaa aaccgggtca gagccctcag ctgctgatct acctgggctc taaccgcgct 180

tccggtgtac cggaccgttt cagcggctct ggatccggca ccgatttcac gttgaaaatc 240

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cggacttttg gtcaaggcac caaggtcgaa attaaa 336

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<213> Secuencia artificial

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tacctgcaaa aaccgggtca gagccctcag ctgctgatct acctgggctc taaccgcgct 180

tccggtgtac cggaccgttt cagcggctct ggatccggca ccgatttcac gttgaaaatc 240

agccgtgttg aagcagaaga cgtgggcgtt tattactgta tgcaggcaag cattatgagc 300

cggacttttg gtcaaggcac caaggtcgaa attaaa 336

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<220>
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tacctgcaaa aaccgggtca gagccctcag ctgctgatct acctgggctc taaccgcgct 180

tccggtgtac cggaccgttt cagcggctct ggatccggca ccgatttcac gttgaaaatc 240

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cggacttttg gtcaaggcac caaggtcgaa attaaa 336

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tacctgcaaa aaccgggtca gagccctcag ctgctgatct acctgggctc taaccgcgct 180

tccggtgtac cggaccgttt cagcggctct ggatccggca ccgatttcac gttgaaaatc 240

agccgtgttg aagcagaaga cgtgggcgtt tattactgta tgcaggcaag cattatgaac 300

cgggcttttg gtcaaggcac caaggtcgaa attaaa 336

<210> 176
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<212> ADN
<213> Secuencia artificial

<220>
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tacctgcaaa aaccgggtca gagccctcag ctgctgatct acctgggctc taaccgcgct 180

tccggtgtac cggaccgttt cagcggctct ggatccggca ccgatttcac gttgaaaatc 240

agccgtgttg aagcagaaga cgtgggcgtt tattactgta tgcaggcaag cattatgaac 300

cggaattttg gtcaaggcac caaggtcgaa attaaa 336

<210> 177
<211> 348
<212> ADN
<213> Secuencia artificial

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

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ccgggccagg gtctggaatg gatgggcatc attaacccaa gcggtggctc tacctcctac 180

gcgcagaaat tccagggtcg cgtcacgatg acccgtgaca ctagcacctc taccgtttat 240

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atcgacatgg actattgggg tcaaggcacc ctcgtaacgg tttcttct 348

<210> 178
<211> 321
<212> ADN
<213> Secuencia artificial

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

<400> 178
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cctggccagg ctcccaggct cctcatctat ggagcatcca gcagggccac tggcatccca 180

gacaggttca gtggcagtgg atccgggaca gacttcactc tcaccatcag cagactggag 240

cctgaagatt ttgcagtgta ttactgtcag caggataact ggagcccaac gttcggccag 300

gggaccaaag tggaaatcaa a 321

<210> 179
<211> 348
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<213> Secuencia artificial

<220>

<221> fuente
<223> /nota="Descripción de secuencia artificial: Polinucleótido sintético"

<400> 179
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agctgcaaag catccggata caccttcact tcctattaca tgcactgggt tcgtcaagcc 120

ccgggccagg gtctggaatg gatgggcatc attaacccaa gcggtggctc tacctcctac 180

gcgcagaaat tccagggtcg cgtcacgatg acccgtgaca ctagcacctc taccgtttat 240

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gttgacatgg actattgggg tcaaggcacc ctcgtaacgg tttcttct 348

<210> 180
<211> 321
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<213> Secuencia artificial

<220>
<221> fuente
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ctctcttgca gggccagtca gagtgttagc agcagctacc tagcctggta ccagcagaaa 120

cctggccagg ctcccaggct cctcatctat ggagcatcca gcagggccac tggcatccca 180

gacaggttca gtggcagtgg atccgggaca gacttcactc tcaccatcag cagactggag 240

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gggaccaaag tggaaatcaa a 321

<210> 181
<211> 363
<212> ADN
<213> Secuencia artificial

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

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ccagggaagg ggctggagtg ggtctcagct attagtggta gtggtggtag cacatactac 180

gcagactccg tgaagggccg gttcaccatc tccagagaca attccaagaa cacgctgtat 240

ctgcagatga acagcctgag agccgaggac acggccgtat attactgtgc gaaagactct 300

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agt 363

<210> 182
<211> 324
<212> ADN
<213> Secuencia artificial

<220>
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<223> /nota="Descripción de secuencia artificial: Polinucleótido sintético"

<400> 182
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ctctcttgca gggccagtca gagtgttagc agcagctact tagcctggta ccagcagaaa 120

cctggccagg ctcccaggct cctcatctat ggagcatcca gcagggccac tggcatccca 180

gacaggttca gtggcagtgg atccgggaca gactccactc tcaccatcag cagactggag 240

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caggggacca aagtggaaat caaa 324

<210> 183
<211> 684
<212> ADN
<213> Secuencia artificial

<220>
<221> fuente
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<400> 183
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aagagcacat ctggcggaac agccgctctg ggctgtctgg tgaaagacta cttccccgag 480

cccgtgaccg tgtcttggaa ctctggcgcc ctgaccagcg gcgtgcacac ctttccagcc 540

gtgctgcaga gcagcggcct gtactccctg tcctccgtgg tcaccgtgcc ctctagctcc 600

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aagaaagtcg agcccaagag ctgc 684

<210> 184
<211> 696
<212> ADN
<213> Secuencia artificial

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

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cctggcaaag gcctggaatg ggtgtcccgg atcagaagca agtacaacaa ctacgccacc 180

tactacgccg acagcgtgaa gggccggttc accatcagcc gggacgacag caagaacacc 240

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cacggcaact tcggcaacag ctatgtgtct tggtttgcct actggggcca gggcaccctc 360

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gaagctaaag tgcagtggaa agtggataac gcactgcagt ccggcaactc ccaggaatct 540

gtgacagaac aggactccaa ggacagcacc tactccctgt cctccaccct gacactgtct 600

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tcgcccgtca caaagagctt caacagggga gagtgt 696

<210> 185
<211> 36
<212> ADN
<213> Secuencia artificial

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

<400> 185
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<210> 186
<211> 35
<212> ADN
<213> Secuencia artificial

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

<400> 186

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<210> 187
<211> 37
<212> ADN
<213> Secuencia artificial

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

<400> 187
cattatgaac cgggcttttg gtcaaggcac caaggtc 37

<210> 188
<211> 37
<212> ADN
<213> Secuencia artificial

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

<400> 188
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<210> 189
<211> 2067
<212> ADN
<213> Secuencia artificial

<220>
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agctgcgcgg cttccggatt caccttctcc aacgcgtgga tgagctgggt tcgccaggcc 120

ccgggcaaag gcctcgagtg ggttggtcgt atcaagtcta aaactgacgg tggcaccacg 180

gattacgcgg ctccagttaa aggtcgtttt accatttccc gcgacgatag caaaaacact 240

ctgtatctgc agatgaactc tctgaaaact gaagacaccg cagtctacta ctgtactacc 300

ccgtgggaat ggtcttggta cgattattgg ggccagggca cgctggttac ggtgtcttcc 360

gctagcacaa agggccctag cgtgttccct ctggccccca gcagcaagag cacaagcggc 420

ggaacagccg ccctgggctg cctcgtgaag gactacttcc ccgagcccgt gacagtgtct 480

tggaacagcg gagccctgac aagcggcgtg cacactttcc ctgccgtgct gcagagcagc 540

ggcctgtact ccctgagcag cgtggtcacc gtgcctagca gcagcctggg cacccagacc 600

tacatctgca acgtgaacca caagcccagc aacaccaaag tggacaagaa ggtggagccc 660

aagagctgtg atggcggagg agggtccgga ggcggaggat ccgaggtgca gctgctggaa 720

tctggcggcg gactggtgca gcctggcgga tctctgagac tgagctgtgc cgccagcggc 780

ttcaccttca gcacctacgc catgaactgg gtgcgccagg cccctggcaa aggcctggaa 840

tgggtgtccc ggatcagaag caagtacaac aactacgcca cctactacgc cgacagcgtg 900

aagggccggt tcaccatcag ccgggacgac agcaagaaca ccctgtacct gcagatgaac 960

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tcagtcttcc tcttcccccc aaaacccaag gacaccctca tgatctcccg gacccctgag 1500

gtcacatgcg tggtggtgga cgtgagccac gaagaccctg aggtcaagtt caactggtac 1560

gtggacggcg tggaggtgca taatgccaag acaaagccgc gggaggagca gtacaacagc 1620

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accaagaacc aggtcagcct gtggtgcctg gtcaaaggct tctatcccag cgacatcgcc 1860

gtggagtggg agagcaatgg gcagccggag aacaactaca agaccacgcc tcccgtgctg 1920

gactccgacg gctccttctt cctctacagc aagctcaccg tggacaagag caggtggcag 1980

caggggaacg tcttctcatg ctccgtgatg catgaggctc tgcacaacca ctacacgcag 2040

aagagcctct ccctgtctcc gggtaaa 2067

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<211> 1350
<212> ADN
<213> Secuencia artificial

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

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agctgcgcgg cttccggatt caccttctcc aacgcgtgga tgagctgggt tcgccaggcc 120

ccgggcaaag gcctcgagtg ggttggtcgt atcaagtcta aaactgacgg tggcaccacg 180

gattacgcgg ctccagttaa aggtcgtttt accatttccc gcgacgatag caaaaacact 240

ctgtatctgc agatgaactc tctgaaaact gaagacaccg cagtctacta ctgtactacc 300

ccgtgggaat ggtcttggta cgattattgg ggccagggca cgctggttac ggtgtcttcc 360

gctagcacca agggcccctc cgtgttcccc ctggccccca gcagcaagag caccagcggc 420

ggcacagccg ctctgggctg cctggtcaag gactacttcc ccgagcccgt gaccgtgtcc 480

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ggcctgtata gcctgagcag cgtggtcacc gtgccttcta gcagcctggg cacccagacc 600

tacatctgca acgtgaacca caagcccagc aacaccaagg tggacaagaa ggtggagccc 660

aagagctgcg acaaaactca cacatgccca ccgtgcccag cacctgaagc tgcaggggga 720

ccgtcagtct tcctcttccc cccaaaaccc aaggacaccc tcatgatctc ccggacccct 780

gaggtcacat gcgtggtggt ggacgtgagc cacgaagacc ctgaggtcaa gttcaactgg 840

tacgtggacg gcgtggaggt gcataatgcc aagacaaagc cgcgggagga gcagtacaac 900

agcacgtacc gtgtggtcag cgtcctcacc gtcctgcacc aggactggct gaatggcaag 960

gagtacaagt gcaaggtctc caacaaagcc ctcggcgccc ccatcgagaa aaccatctcc 1020

aaagccaaag ggcagccccg agaaccacag gtgtgcaccc tgccccatc ccgggatgag 1080

ctgaccaaga accaggtcag cctctcgtgc gcagtcaaag gcttctatcc cagcgacatc 1140

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<210> 191
<211> 645
<212> ADN
<213> Secuencia artificial

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

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acatgtggca gttctacagg cgccgtgacc accagcaact acgccaactg ggtgcaggaa 120

aagcccggcc aggccttcag aggactgatc ggcggcacca acaagagagc ccctggcacc 180

cctgccagat tcagcggatc tctgctggga ggaaaggccg ccctgacact gtctggcgcc 240

cagccagaag atgaggccga gtactactgc gccctgtggt acagcaacct gtgggtgttc 300

ggcggaggca ccaagctgac agtcctaggt caacccaagg ctgcccccag cgtgaccctg 360

ttcccccca gcagcgagga actgcaggcc aacaaggcca ccctggtctg cctgatcagc 420

gacttctacc caggcgccgt gaccgtggcc tggaaggccg acagcagccc cgtgaaggcc 480

ggcgtggaga ccaccacccc cagcaagcag agcaacaaca agtacgccgc cagcagctac 540

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gagggcagca ccgtggagaa aaccgtggcc cccaccgagt gcagc 645

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<211> 2067
<212> ADN
<213> Secuencia artificial

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

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tactacgccg acagcgtgaa gggccggttc accatcagcc gggacgacag caagaacacc 240

ctgtacctgc agatgaacag cctgcgggcc gaggacaccg ccgtgtacta ttgtgtgcgg 300

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gtgctgcaga gcagcggcct gtactccctg agcagcgtgg tcaccgtgcc tagcagcagc 600

ctgggcaccc agacctacat ctgcaacgtg aaccacaagc ccagcaacac caaagtggac 660

aagaaggtgg agcccaagag ctgtgatggc ggaggagggt ccggaggcgg aggatccgag 720

gtgcaattgg ttgaatctgg tggtggtctg gtaaaaccgg gcggttccct gcgtctgagc 780

tgcgcggctt ccggattcac cttctccaac gcgtggatga gctgggttcg ccaggccccg 840

ggcaaaggcc tcgagtgggt tggtcgtatc aagtctaaaa ctgacggtgg caccacggat 900

tacgcggctc cagttaaagg tcgttttacc atttcccgcg acgatagcaa aaacactctg 960

tatctgcaga tgaactctct gaaaactgaa gacaccgcag tctactactg tactaccccg 1020

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accaagaacc aggtcagcct gtggtgcctg gtcaaaggct tctatcccag cgacatcgcc 1860

gtggagtggg agagcaatgg gcagccggag aacaactaca agaccacgcc tcccgtgctg 1920

gactccgacg gctccttctt cctctacagc aagctcaccg tggacaagag caggtggcag 1980

caggggaacg tcttctcatg ctccgtgatg catgaggctc tgcacaacca ctacacgcag 2040

aagagcctct ccctgtctcc gggtaaa 2067

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<211> 1365
<212> ADN
<213> Secuencia artificial

<220>
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tactacgccg acagcgtgaa gggccggttc accatcagcc gggacgacag caagaacacc 240

ctgtacctgc agatgaacag cctgcgggcc gaggacaccg ccgtgtacta ttgtgtgcgg 300

cacggcaact tcggcaacag ctatgtgtct tggtttgcct actggggcca gggcaccctc 360

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gtcctacagt cctcaggact ctactccctc agcagcgtgg tgaccgtgcc ctccagcagc 600

ttgggcaccc agacctacat ctgcaacgtg aatcacaagc ccagcaacac caaggtggac 660

aagaaagttg agcccaaatc ttgtgacaaa actcacacat gcccaccgtg cccagcacct 720

gaagctgcag ggggaccgtc agtcttcctc ttcccccaa aacccaagga caccctcatg 780

atctcccgga cccctgaggt cacatgcgtg gtggtggacg tgagccacga agaccctgag 840

gtcaagttca actggtacgt ggacggcgtg gaggtgcata atgccaagac aaagccgcgg 900

gaggagcagt acaacagcac gtaccgtgtg gtcagcgtcc tcaccgtcct gcaccaggac 960

tggctgaatg gcaaggagta caagtgcaag gtctccaaca aagccctcgg cgcccccatc 1020

gagaaaacca tctccaaagc caaagggcag ccccgagaac cacaggtgta caccctgccc 1080

ccatgccggg atgagctgac caagaaccag gtcagcctgt ggtgcctggt caaaggcttc 1140

tatcccagcg acatcgccgt ggagtgggag agcaatgggc agccggagaa caactacaag 1200

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cacaaccact acacgcagaa gagcctctcc ctgtctccgg gtaaa 1365

<210> 194
<211> 681
<212> ADN
<213> Secuencia artificial

<220>
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<223> /nota="Descripción de secuencia artificial: Polinucleótido sintético"

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tgcgtggtgg tggacgtgag ccacgaagac cctgaggtca agttcaactg gtacgtggac 180

ggcgtggagg tgcataatgc caagacaaag ccgcgggagg agcagtacaa cagcacgtac 240

cgtgtggtca gcgtcctcac cgtcctgcac caggactggc tgaatggcaa ggagtacaag 300

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ctctccctgt ctccgggtaa a 681

<210> 195
<211> 2070
<212> ADN
<213> Secuencia artificial

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

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cacggcaact tcggcaactc ctatgtgtct tggtttgcct actggggcca gggcaccctc 360

gtgaccgtgt catctgctag ccccaaggct gcccccagcg tgaccctgtt tcccccccagc 420

agcgaggaac tgcaggccaa caaggccacc ctggtctgcc tgatcagcga cttctaccca 480

ggcgccgtga ccgtggcctg gaaggccgac agcagccccg tgaaggccgg cgtggagacc 540

accaccccca gcaagcagag caacaacaag tacgccgcca gcagctacct gagcctgacc 600

cccgagcagt ggaagagcca caggtcctac agctgccagg tgacccacga gggcagcacc 660

gtggagaaaa ccgtggcccc caccgagtgc agc 693

<210> 205
<211> 327
<212> ADN
<213> Secuencia artificial

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

<400> 205
cagaccgtcg tgacccagga acccagcctg acagtgtctc ctggcggcac cgtgaccctg 60

acatgtggca gttctacagg cgccgtgacc accagcaact acgccaactg ggtgcagcag 120

aagccaggcc aggctcccag aggactgatc ggcggcacca acgccagagc ccctggcacc 180

cctgccagat tcagcggatc tctgctggga ggaaaggccg ccctgacact gtctggcgtg 240

cagcctgaag atgaggccga gtactactgc gccctgtggt acagcaacct gtgggtgttc 300

ggcggaggca ccaagctgac agtccta 327

<210> 206
<211> 327
<212> ADN
<213> Secuencia artificial

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

<400> 206
cagaccgtcg tgacccagga acccagcctg acagtgtctc ctggcggcac cgtgaccctg 60

acatgtggca gttctacagg cgccgtgacc accagcaact acgccaactg ggtgcagcag 120

aagccaggcc aggctcccag aggactgatc ggcggcacca acaagagagc ccctggcacc 180

cctgccagat tcagcggatc tctgctggga ggaaaggccg ccctgacact gtctggcgtg 240

cagcctgaag atgaggccga gtactactgc gccctgtggt acgccaacct gtgggtgttc 300

ggcggaggca ccaagctgac agtccta 327

<210> 207
<211> 366
<212> ADN
<213> Secuencia artificial

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

<400> 207
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agctgtgccg ccagcggctt caccttcagc aacgcctgga tgcactgggt gcgccaggcc 120

cctggaaaag gactcgagtg ggtgggacgg atcaagagca agaccgatgg cggcaccacc 180

gactatgccg cccctgtgaa gggccggttc accatcagca gggacgacag caagaacacc 240

ctgtacctgc agatgaacag cctgaaaacc gaggacaccg ccgtgtacta ctgcaccacc 300

ccctgggagt ggtcttggta cgactattgg ggccagggca ccctcgtgac cgtgtcctct 360

gctagc 366

<210> 208
<211> 366
<212> ADN
<213> Secuencia artificial

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

<400> 208
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agctgtgccg ccagcggctt caccttcagc aacgcctgga tgagctgggt gcgccaggcc 120

cctggaaaag gactcgagtg ggtgtcccgg atcaagagca agaccgatgg cggcaccacc 180

gactatgccg cccctgtgaa gggccggttc accatcagca gggacgacag caagaacacc 240

ctgtacctgc agatgaacag cctgaaaacc gaggacaccg ccgtgtacta ctgcaccacc 300

ccctgggagt ggtcttggta cgactattgg ggccagggca ccctcgtgac cgtgtcctct 360

gctagc 366

<210> 209
<211> 366
<212> ADN
<213> Secuencia artificial

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

<400> 209
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agctgtgccg ccagcggctt caccttcagc aacgcctgga tgagctgggt gcgccaggcc 120

cctggaaaag gactcgagtg ggtgggatct atcaagagca agaccgacgg cggcaccacc 180

gactatgccg cccctgtgaa gggccggttc accatcagca gggacgacag caagaacacc 240

ctgtacctgc agatgaacag cctgaaaacc gaggacaccg ccgtgtacta ctgcaccacc 300

ccctgggagt ggtcttggta cgactattgg ggccagggca ccctcgtgac cgtgtcctct 360

gctagc 366

<210> 210
<211> 366
<212> ADN
<213> Secuencia artificial

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

<400> 210
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agctgtgccg ccagcggctt caccttcagc aacgcctgga tgagctgggt gcgccaggcc 120

cctggaaaag gactcgagtg ggtgggacgg atcaagagca agaccgatgg cggcaccacc 180

gactatgccg cccctgtgaa gggccggttc accatcagca gggacgacag caagaacacc 240

ctgtacctgc agatgaacag cctgaaaacc gaggacaccg ccgtgtacta ctgcaccacc 300

ccctacgagt ggtcttggta cgactactgg ggccagggca ccctcgtgac cgtgtcatct 360

gctagc 366

<210> 211
<211> 366
<212> ADN
<213> Secuencia artificial

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

<400> 211
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agctgtgccg ccagcggctt caccttcagc aacgcctgga tgagctgggt gcgccaggcc 120

cctggaaaag gactcgagtg ggtgggacgg atcaagagca agaccgatgg cggcaccacc 180

gactatgccg cccctgtgaa gggccggttc accatcagca gggacgacag caagaacacc 240

ctgtacctgc agatgaacag cctgaaaacc gaggacaccg ccgtgtacta ctgcaccacc 300

ccctgggagt actcttggta cgactactgg ggccagggca ccctcgtgac cgtgtcatct 360

gctagc 366

<210> 212
<211> 366
<212> ADN
<213> Secuencia artificial

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

<400> 212
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agctgcaaag catccggata caccttcact tcctattaca tgcactgggt tcgtcaagcc 120

ccgggccagg gtctggaatg gatgggcatc attaacccaa gcggtggctc tacctcctac 180

gcgcagaaat tccagggtcg cgtcacgatg acccgtgaca ctagcacctc taccgtttat 240

atggagctgt ccagcctgcg ttctgaagat actgcagtgt actactgtgc acgcaactac 300

actatcgttg tttctccgtt cgactattgg ggtcaaggca ccctcgtaac ggtttcttct 360

gctagc 366

<210> 213
<211> 366
<212> ADN
<213> Secuencia artificial

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

<400> 213
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agctgcaaag catccggata caccttcact tcctattaca tgcactgggt tcgtcaagcc 120

ccgggccagg gtctggaatg gatgggcatc attaacccaa gcggtggctc tacctcctac 180

gcgcagaaat tccagggtcg cgtcacgatg acccgtgaca ctagcacctc taccgtttat 240

atggagctgt ccagcctgcg ttctgaagat actgcagtgt actactgtgc acgcaactac 300

ttcatcggtt ctgttgctat ggactattgg ggtcaaggca ccctcgtaac ggtttcttct 360

gctagc 366

<210> 214
<211> 357
<212> ADN
<213> Secuencia artificial

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

<400> 214
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agctgcaaag catccggata caccttcact tcctattaca tgcactgggt tcgtcaagcc 120

ccgggccagg gtctggaatg gatgggcatc attaacccaa gcggtggctc tacctcctac 180

gcgcagaaat tccagggtcg cgtcacgatg acccgtgaca ctagcacctc taccgtttat 240

atggagctgt ccagcctgcg ttctgaagat actgcagtgt actactgtgc acgcggtctg 300

acttactcta tggactattg gggtcaaggc accctcgtaa cggtttcttc tgctagc 357

<210> 215
<211> 342

<212> ADN
<213> Secuencia artificial

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

<400> 215
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atttcttgcc gttccagcca gtctctgctg cactccaacg gctacaacta tctcgattgg 120

tacctgcaaa aaccgggtca gagccctcag ctgctgatct acctgggctc taaccgcgct 180

tccggtgtac cggaccgttt cagcggctct ggatccggca ccgatttcac gttgaaaatc 240

agccgtgttg aagcagaaga cgtgggcgtt tattactgta tgcaggcact gcagattcca 300

aacacttttg gtcaaggcac caaggtcgaa attaaacgta cg 342

<210> 216
<211> 354
<212> ADN
<213> Secuencia artificial

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

<400> 216
gaggtgcaat tgttggagtc tgggggaggc ttggtacagc ctgggggtc cctgagactc 60

tcctgtgcag cctccggatt cacctttagc agttatgcca tgagctgggt ccgccaggct 120

ccagggaagg ggctggagtg ggtctcagct attagtggta gtggtggtag cacatactac 180

gcagactccg tgaagggccg gttcaccatc tccagagaca attccaagaa cacgctgtat 240

ctgcagatga acagcctgag agccgaggac acggccgtat attactgtgc gaaatacgct 300

tacgctctgg actactgggg ccaaggaacc ctggtcaccg tctcgagtgc tagc 354

<210> 217
<211> 327
<212> ADN
<213> Secuencia artificial

<220>
<221> fuente
<223> /nota="Descripción de secuencia artificial: Synthetic polynucleotide"

<400> 217
gaaatcgtgt taacgcagtc tccaggcacc ctgtctttgt ctccagggga aagagccacc 60

ctctcttgca gggccagtca gagtgttagc agcagctact tagcctggta ccagcagaaa 120

cctggccagg ctcccaggct cctcatctat ggagcatcca gcagggccac tggcatccca 180

gacaggttca gtggcagtgg atccgggaca gacttcactc tcaccatcag cagactggag 240

cctgaagatt ttgcagtgta ttactgtcag cagcatggca gcagcagcac gttcggccag 300

gggaccaaag tggaaatcaa acgtacg 327

<210> 218
<211> 366
<212> ADN
<213> Secuencia artificial

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

<400> 218
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agctgcaaag catccggata caccttcact tcctattaca tgcactgggt tcgtcaagcc 120

ccgggccagg gtctggaatg gatgggcatc attaacccaa gcggtggctc tacctcctac 180

gcgcagaaat tccagggtcg cgtcacgatg acccgtgaca ctagcacctc taccgtttat 240

atggagctgt ccagcctgcg ttctgaagat actgcagtgt actactgtgc acgcggtgac 300

ttctctgctg gtcgtctgat ggactattgg ggtcaaggca ccctcgtaac ggtttcttct 360

gctagc 366

<210> 219
<211> 345
<212> ADN
<213> Secuencia artificial

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

<400> 219
gatattgtta tgactcaatc tccactgtct ctgccggtga ctccaggcga accggcgagc 60

atttcttgcc gttccagcca gtctctgctg cactccaacg gctacaacta tctcgattgg 120

tacctgcaaa aaccgggtca gagccctcag ctgctgatct acctgggctc taaccgcgct 180

tccggtgtac cggaccgttt cagcggctct ggatccggca ccgatttcac gttgaaaatc 240

agccgtgttg aagcagaaga cgtgggcgtt tattactgta tgcaggcact gcagacccca 300

ccaattacct ttggtcaagg caccaaggtc gaaattaaac gtacg 345

<210> 220
<211> 357
<212> ADN
<213> Secuencia artificial

<220>

<221> fuente
<223> /nota="Descripción de secuencia artificial: Polinucleótido sintético"

<400> 220
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agctgcaaag catccggata caccttcact tcctattaca tgcactgggt tcgtcaagcc 120

ccgggccagg gtctggaatg gatgggcatc attaacccaa gcggtggctc tacctcctac 180

gcgcagaaat tccagggtcg cgtcacgatg acccgtgaca ctagcacctc taccgtttat 240

atggagctgt ccagcctgcg ttctgaagat actgcagtgt actactgtgc acgcggtgac 300

tacaacgctt tcgactattg gggtcacggc accctcgtaa cggtttcttc tgctagc 357

<210> 221
<211> 339
<212> ADN
<213> Secuencia artificial

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

<400> 221
gatattgtta tgactcaatc tccactgtct ctgccggtga ctccaggcga accggcgagc 60

atttcttgcc gttccagcca gtctctgctg cactccaacg gctacaacta tctcgattgg 120

tacctgcaaa aaccgggtca gagccctcag ctgctgatct acctgggctc taaccgcgct 180

tccggtgtac cggaccgttt cagcggctct ggatccggca ccgatttcac gttgaaaatc 240

agccgtgttg aagcagaaga cgtgggcgtt tattactgta tgcaggcatg gcatagccca 300

acttttggtc aaggcaccaa ggtcgaaatt aaacgtacg 339

<210> 222
<211> 357
<212> ADN
<213> Secuencia artificial

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

<400> 222
caggtgcaat tggttcaatc tggtgctgaa gtaaaaaaac cgggcgcttc cgttaaagtg 60

agctgcaaag catccggata caccttcact tcctattaca tgcactgggt tcgtcaagcc 120

ccgggccagg gtctggaatg gatgggcatc attaacccaa gcggtggctc tacctcctac 180

gcgcagaaat tccagggtcg cgtcacgatg acccgtgaca ctagcacctc taccgtttat 240

atggagctgt ccagcctgcg ttctgaagat actgcagtgt actactgtgc acgcggtgct 300

acttacacta tggactattg gggtcaaggc accctcgtaa cggtttcttc tgctagc 357

<210> 223
<211> 342
<212> ADN
<213> Secuencia artificial

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

<400> 223
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atttcttgcc gttccagcca gtctctgctg cactccaacg gctacaacta tctcgattgg 120

tacctgcaaa aaccgggtca gagccctcag ctgctgatct acctgggctc taaccgcgct 180

tccggtgtac cggaccgttt cagcggctct ggatccggca ccgatttcac gttgaaaatc 240

agccgtgttg aagcagaaga cgtgggcgtt tattactgta tgcaggcact gcagacccca 300

attacttttg gtcaaggcac caaggtcgaa attaaacgta cg 342

<210> 224
<211> 1344
<212> ADN
<213> Secuencia artificial

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

<400> 224
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agctgcaagg ccagcggcta cagcttcacc ggctacttca tgaactgggt caagcagagc 120

cacggcaaga gcctggaatg gatcggcaga atccacccct acgacggcga caccttctac 180

aaccagaact tcaaggacaa ggccaccctg accgtggaca agagcagcaa caccgcccac 240

atggaactgc tgagcctgac cagcgaggac ttcgccgtgt actactgcac cagatacgac 300

ggcagccggg ccatggatta ttggggccag ggcaccaccg tgacagtgtc cagcgctagc 360

accaagggcc cctccgtgtt ccccctggcc cccagcagca agagcaccag cggcggcaca 420

gccgctctgg gctgcctggt caaggactac ttccccgagc ccgtgaccgt gtcctggaac 480

agcggagccc tgacctccgg cgtgcacacc ttccccgccg tgctgcagag ttctggcctg 540

tatagcctga gcagcgtggt caccgtgcct tctagcagcc tgggcaccca gacctacatc 600

tgcaacgtga accacaagcc cagcaacacc aaggtggaca agaaggtgga gcccaagagc 660

tgcgacaaaa ctcacacatg cccaccgtgc ccagcacctg aagctgcagg gggaccgtca 720

gtcttcctct tccccccaaa acccaaggac accctcatga tctcccggac ccctgaggtc 780

acatgcgtgg tggtggacgt gagccacgaa gaccctgagg tcaagttcaa ctggtacgtg 840

gacggcgtgg aggtgcataa tgccaagaca aagccgcggg aggagcagta caacagcacg 900

taccgtgtgg tcagcgtcct caccgtcctg caccaggact ggctgaatgg caaggagtac 960

aagtgcaagg tctccaacaa agccctcggc gcccccatcg agaaaaccat ctccaaagcc 1020

aaagggcagc cccgagaacc acaggtgtgc accctgcccc catcccggga tgagctgacc 1080

aagaaccagg tcagcctctc gtgcgcagtc aaaggcttct atcccagcga catcgccgtg 1140

gagtgggaga gcaatgggca gccggagaac aactacaaga ccacgcctcc cgtgctggac 1200

tccgacggct ccttcttcct cgtgagcaag ctcaccgtgg acaagagcag gtggcagcag 1260

gggaacgtct tctcatgctc cgtgatgcat gaggctctgc acaaccacta cacgcagaag 1320

agcctctccc tgtctccggg taaa 1344

<210> 225
<211> 2073
<212> ADN
<213> Secuencia artificial

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

<400> 225
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agctgcaagg ccagcggcta cagcttcacc ggctacttca tgaactgggt caagcagagc 120

cacggcaaga gcctggaatg gatcggcaga atccacccct acgacggcga caccttctac 180

aaccagaact tcaaggacaa ggccaccctg accgtggaca agagcagcaa caccgcccac 240

atggaactgc tgagcctgac cagcgaggac ttcgccgtgt actactgcac cagatacgac 300

ggcagccggg ccatggatta ttggggccag ggcaccaccg tgacagtgtc cagcgctagc 360

acaaagggcc ccagcgtgtt ccctctggcc cctagcagca agagcacatc tggcggaaca 420

gccgccctgg gctgcctcgt gaaggactac tttcccgagc ctgtgaccgt gtcctggaac 480

tctggcgccc tgacaagcgg cgtgcacacc tttccagccg tgctgcagag cagcggcctg 540

tactctctga gcagcgtggt caccgtgcct agcagcagcc tgggcaccca gacctacatc 600

tgcaacgtga accacaagcc cagcaacacc aaagtggaca agaaggtgga gcccaagagc 660

tgtgatggcg gaggagggtc cggaggcgga ggatccgaag tgcagctggt ggaaagcggc 720

ggaggcctgg tgcagcctaa gggctctctg aagctgagct gtgccgccag cggcttcacc 780

ttcaacacct acgccatgaa ctgggtgcgc caggcccctg gcaaaggcct ggaatgggtg 840

gcccggatca gaagcaagta caacaattac gccacctact acgccgacag cgtgaaggac 900

cggttcacca tcagccggga cgacagccag agcatcctgt acctgcagat gaacaacctg 960

aaaaccgagg acaccgccat gtactactgc gtgcggcacg gcaacttcgg caacagctat 1020

gtgtcttggt ttgcctactg gggccagggc accctcgtga cagtgtctgc tgctagcgtg 1080

gccgctccct ccgtgtttat ctttccccca tccgatgaac agctgaaaag cggcaccgcc 1140

tccgtcgtgt gtctgctgaa caatttttac cctagggaag ctaaagtgca gtggaaagtg 1200

gataacgcac tgcagtccgg caactcccag gaatctgtga cagaacagga ctccaaggac 1260

agcacctact ccctgtcctc caccctgaca ctgtctaagg ctgattatga gaaacacaaa 1320

gtctacgcct gcgaagtcac ccatcagggc ctgagctcgc ccgtcacaaa gagcttcaac 1380

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ggcccttctg tgttcctgtt ccccccaaag cccaaggaca ccctgatgat cagccggacc 1500

cccgaagtga cctgcgtggt ggtggatgtg tcccacgagg accctgaagt gaagttcaat 1560

tggtacgtgg acggcgtgga agtgcacaac gccaagacaa agccgcggga ggagcagtac 1620

aacagcacgt accgtgtggt cagcgtcctc accgtcctgc accaggactg gctgaatggc 1680

aaggagtaca agtgcaaggt ctccaacaaa gccctcggcg cccccatcga gaaaaccatc 1740

tccaaagcca aagggcagcc ccgagaacca caggtgtaca ccctgccccc atgccgggat 1800

gagctgacca agaaccaggt cagcctgtgg tgcctggtca aaggcttcta tcccagcgac 1860

atcgccgtgg agtgggagag caatgggcag ccggagaaca actacaagac cacgcctccc 1920

gtgctggact ccgacggctc cttcttcctc tacagcaagc tcaccgtgga caagagcagg 1980

tggcagcagg ggaacgtctt ctcatgctcc gtgatgcatg aggctctgca caaccactac 2040

acgcagaaga gcctctccct gtctccgggt aaa 2073

<210> 226
<211> 654
<212> ADN
<213> Secuencia artificial

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

<400> 226
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atcagctgca aggccagcca gagcgtgtcc tttgccggca cctctctgat gcactggtat 120

caccagaagc ccggccagca gcccaagctg ctgatctaca gagccagcaa cctggaagcc 180

ggcgtgccca caagattttc cggcagcggc agcaagaccg acttcaccct gaacatccac 240

cccgtggaag aagaggacgc cgccacctac tactgccagc agagcagaga gtaccctac 300

accttcggcg gaggcaccaa gctggaaatc aagcgtacgg tggctgcacc atctgtcttc 360

atcttcccgc catctgatga gcagttgaaa tctggaactg cctctgttgt gtgcctgctg 420

aataacttct atcccagaga ggccaaagta cagtggaagg tggataacgc cctccaatcg 480

ggtaactccc aggagagtgt cacagagcag gacagcaagg acagcaccta cagcctcagc 540

agcaccctga cgctgagcaa agcagactac gagaaacaca aagtctacgc ctgcgaagtc 600

acccatcagg gcctgagctc gcccgtcaca aagagcttca acaggggaga gtgt 654

<210> 227
<211> 209
<212> PRT
<213> Homo sapiens

<400> 227
Arg Ile Ala Trp Ala Arg Thr Glu Leu Leu Asn Val Cys Met Asn Ala
1 5 10 15

Lys His His Lys Glu Lys Pro Gly Pro Glu Asp Lys Leu His Glu Gln
20 25 30

Cys Arg Pro Trp Arg Lys Asn Ala Cys Cys Ser Thr Asn Thr Ser Gln
35 40 45

Glu Ala His Lys Asp Val Ser Tyr Leu Tyr Arg Phe Asn Trp Asn His
50 55 60

Cys Gly Glu Met Ala Pro Ala Cys Lys Arg His Phe Ile Gln Asp Thr
65 70 75 80

Cys Leu Tyr Glu Cys Ser Pro Asn Leu Gly Pro Trp Ile Gln Gln Val
85 90 95

Asp Gln Ser Trp Arg Lys Glu Arg Val Leu Asn Val Pro Leu Cys Lys
100 105 110

Glu Asp Cys Glu Gln Trp Trp Glu Asp Cys Arg Thr Ser Tyr Thr Cys
115 120 125

Lys Ser Asn Trp His Lys Gly Trp Asn Trp Thr Ser Gly Phe Asn Lys
130 135 140

Cys Ala Val Gly Ala Ala Cys Gln Pro Phe His Phe Tyr Phe Pro Thr
145 150 155 160

Pro Thr Val Leu Cys Asn Glu Ile Trp Thr His Ser Tyr Lys Val Ser
165 170 175

Asn Tyr Ser Arg Gly Ser Gly Arg Cys Ile Gln Met Trp Phe Asp Pro

180 185 190

Ala Gln Gly Asn Pro Asn Glu Glu Val Ala Arg Phe Tyr Ala Ala Ala
195 200 205

Met

<210> 228
<211> 214
<212> PRT
<213> Homo sapiens

<400> 228
Thr Met Cys Ser Ala Gln Asp Arg Thr Asp Leu Leu Asn Val Cys Met
1 5 10 15

Asp Ala Lys His His Lys Thr Lys Pro Gly Pro Glu Asp Lys Leu His
20 25 30

Asp Gln Cys Ser Pro Trp Lys Lys Asn Ala Cys Cys Thr Ala Ser Thr
35 40 45

Ser Gln Glu Leu His Lys Asp Thr Ser Arg Leu Tyr Asn Phe Asn Trp
50 55 60

Asp His Cys Gly Lys Met Glu Pro Ala Cys Lys Arg His Phe Ile Gln
65 70 75 80

Asp Thr Cys Leu Tyr Glu Cys Ser Pro Asn Leu Gly Pro Trp Ile Gln
85 90 95

Gln Val Asn Gln Ser Trp Arg Lys Glu Arg Phe Leu Asp Val Pro Leu
100 105 110

Cys Lys Glu Asp Cys Gln Arg Trp Trp Glu Asp Cys His Thr Ser His
115 120 125

Thr Cys Lys Ser Asn Trp His Arg Gly Trp Asp Trp Thr Ser Gly Val
130 135 140

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

Pro Thr Pro Ala Ala Leu Cys Glu Gly Leu Trp Ser His Ser Tyr Lys
165 170 175

Val Ser Asn Tyr Ser Arg Gly Ser Gly Arg Cys Ile Gln Met Trp Phe
180 185 190

Asp Ser Ala Gln Gly Asn Pro Asn Glu Glu Val Ala Arg Phe Tyr Ala
195 200 205

Ala Ala Met His Val Asn
210

<210> 229
<211> 220
<212> PRT
<213> Homo sapiens

<400> 229
Ser Ala Arg Ala Arg Thr Asp Leu Leu Asn Val Cys Met Asn Ala Lys
1 5 10 15

His His Lys Thr Gln Pro Ser Pro Glu Asp Glu Leu Tyr Gly Gln Cys
20 25 30

Ser Pro Trp Lys Lys Asn Ala Cys Cys Thr Ala Ser Thr Ser Gln Glu
35 40 45

Leu His Lys Asp Thr Ser Arg Leu Tyr Asn Phe Asn Trp Asp His Cys
50 55 60

Gly Lys Met Glu Pro Thr Cys Lys Arg His Phe Ile Gln Asp Ser Cys
65 70 75 80

Leu Tyr Glu Cys Ser Pro Asn Leu Gly Pro Trp Ile Arg Gln Val Asn
85 90 95

Gln Ser Trp Arg Lys Glu Arg Ile Leu Asn Val Pro Leu Cys Lys Glu
100 105 110

Asp Cys Glu Arg Trp Trp Glu Asp Cys Arg Thr Ser Tyr Thr Cys Lys
115 120 125

Ser Asn Trp His Lys Gly Trp Asn Trp Thr Ser Gly Ile Asn Glu Cys
130 135 140

Pro Ala Gly Ala Leu Cys Ser Thr Phe Glu Ser Tyr Phe Pro Thr Pro
145 150 155 160

Ala Ala Leu Cys Glu Gly Leu Trp Ser His Ser Phe Lys Val Ser Asn
165 170 175

Tyr Ser Arg Gly Ser Gly Arg Cys Ile Gln Met Trp Phe Asp Ser Ala
180 185 190

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Gln Gly Asn Pro Asn Glu Glu Val Ala Lys Phe Tyr Ala Ala Ala Met
        195                 200                 205


Asn Ala Gly Ala Pro Ser Arg Gly Ile Ile Asp Ser
    210                 215                 220


<210> 230
<211> 208
<212> PRT
<213> Mus musculus

<400> 230
Thr Arg Ala Arg Thr Glu Leu Leu Asn Val Cys Met Asp Ala Lys His
1               5                   10                  15


His Lys Glu Lys Pro Gly Pro Glu Asp Asn Leu His Asp Gln Cys Ser
            20                  25                  30


Pro Trp Lys Thr Asn Ser Cys Cys Ser Thr Asn Thr Ser Gln Glu Ala
        35                  40                  45


His Lys Asp Ile Ser Tyr Leu Tyr Arg Phe Asn Trp Asn His Cys Gly
    50                  55                  60


Thr Met Thr Ser Glu Cys Lys Arg His Phe Ile Gln Asp Thr Cys Leu
65                  70                  75                  80


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


Ser Trp Arg Lys Glu Arg Ile Leu Asp Val Pro Leu Cys Lys Glu Asp
            100                 105                 110


Cys Gln Gln Trp Trp Glu Asp Cys Gln Ser Ser Phe Thr Cys Lys Ser
        115                 120                 125


Asn Trp His Lys Gly Trp Asn Trp Ser Ser Gly His Asn Glu Cys Pro
    130                 135                 140


Val Gly Ala Ser Cys His Pro Phe Thr Phe Tyr Phe Pro Thr Ser Ala
145                 150                 155                 160


Ala Leu Cys Glu Glu Ile Trp Ser His Ser Tyr Lys Leu Ser Asn Tyr
                165                 170                 175


Ser Arg Gly Ser Gly Arg Cys Ile Gln Met Trp Phe Asp Pro Ala Gln
            180                 185                 190
```

Gly Asn Pro Asn Glu Glu Val Ala Arg Phe Tyr Ala Glu Ala Met Ser
195 200 205

<210> 231
<211> 213
<212> PRT
<213> Macaca fascicularis

<400> 231
Glu Ala Gln Thr Arg Thr Ala Arg Ala Arg Thr Glu Leu Leu Asn Val
1 5 10 15

Cys Met Asn Ala Lys His His Lys Glu Lys Pro Gly Pro Glu Asp Lys
20 25 30

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

Asn Thr Ser Gln Glu Ala His Lys Asp Val Ser Tyr Leu Tyr Arg Phe
50 55 60

Asn Trp Asn His Cys Gly Glu Met Ala Pro Ala Cys Lys Arg His Phe
65 70 75 80

Ile Gln Asp Thr Cys Leu Tyr Glu Cys Ser Pro Asn Leu Gly Pro Trp
85 90 95

Ile Gln Gln Val Asp Gln Ser Trp Arg Lys Glu Arg Val Leu Asn Val
100 105 110

Pro Leu Cys Lys Glu Asp Cys Glu Arg Trp Trp Glu Asp Cys Arg Thr
115 120 125

Ser Tyr Cys Lys Ser Asn Trp His Lys Gly Trp Asn Trp Thr Ser Gly
130 135 140

Phe Asn Lys Cys Pro Val Gly Ala Ala Cys Gln Pro Phe His Phe Tyr
145 150 155 160

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

Lys Val Ser Asn Tyr Ser Arg Gly Ser Gly Arg Cys Ile Gln Met Trp
180 185 190

Phe Asp Pro Ala Gln Gly Asn Pro Asn Glu Glu Val Ala Arg Phe Tyr
195 200 205

Ala Ala Ala Met Ser

210

<210> 232
<211> 9
<212> PRT
<213> Secuencia artificial

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

<400> 232
Pro Trp Glu Tyr Ser Trp Tyr Asp Tyr
1 5

<210> 233
<211> 11
<212> PRT
<213> Secuencia artificial

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

<400> 233
Asn Tyr Thr Ile Val Val Ser Pro Phe Asp Tyr
1 5 10

<210> 234
<211> 11
<212> PRT
<213> Secuencia artificial

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

<400> 234
Asn Tyr Phe Ile Gly Ser Val Ala Met Asp Tyr
1 5 10

<210> 235
<211> 8
<212> PRT
<213> Secuencia artificial

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

<400> 235
Gly Leu Thr Tyr Ser Met Asp Tyr
1 5

<210> 236
<211> 9
<212> PRT
<213> Secuencia artificial

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

<400> 236
Met Gln Ala Leu Gln Ile Pro Asn Thr
1 5

<210> 237
<211> 7
<212> PRT
<213> Secuencia artificial

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

<400> 237
Tyr Ala Tyr Ala Leu Asp Tyr
1 5

<210> 238
<211> 8
<212> PRT
<213> Secuencia artificial

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

<400> 238
Gln Gln His Gly Ser Ser Ser Thr
1 5

<210> 239
<211> 11
<212> PRT
<213> Secuencia artificial

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

<400> 239
Gly Asp Phe Ser Ala Gly Arg Leu Met Asp Tyr
1 5 10

<210> 240
<211> 10
<212> PRT

<213> Secuencia artificial

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

<400> 240
Met Gln Ala Leu Gln Thr Pro Pro Ile Thr
1 5 10

<210> 241
<211> 8
<212> PRT
<213> Secuencia artificial

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

<400> 241
Gly Asp Tyr Asn Ala Phe Asp Tyr
1 5

<210> 242
<211> 8
<212> PRT
<213> Secuencia artificial

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

<400> 242
Met Gln Ala Trp His Ser Pro Thr
1 5

<210> 243
<211> 8
<212> PRT
<213> Secuencia artificial

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

<400> 243
Gly Ala Thr Tyr Thr Met Asp Tyr
1 5

<210> 244
<211> 9
<212> PRT
<213> Secuencia artificial

<220>

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

<400> 244
Met Gln Ala Leu Gln Thr Pro Ile Thr
1 5

<210> 245
<211> 227
<212> PRT
<213> Secuencia artificial

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

<400> 245
Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly
1 5 10 15

Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met
20 25 30

Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His
35 40 45

Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val
50 55 60

His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr
65 70 75 80

Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly
85 90 95

Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile
100 105 110

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

Tyr Thr Leu Pro Pro Ser Arg Asp Glu Leu Thr Lys Asn Gln Val Ser
130 135 140

Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu
145 150 155 160

Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro
165 170 175

Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val
180 185 190

Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met
195 200 205

His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser
210 215 220

Pro Gly Lys
225

<210> 246
<211> 2076
<212> ADN
<213> Secuencia artificial

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

<400> 246
caggtgcaat tggttcaatc tggtgctgaa gtaaaaaaac cgggcgcttc cgttaaagtg 60

agctgcaaag catccggata caccttcact tcctattaca tgcactgggt tcgtcaagcc 120

ccgggccagg gtctggaatg gatgggcatc attaacccaa gcggtggctc tacctcctac 180

gcgcagaaat tccagggtcg cgtcacgatg acccatgaca ctagcacctc taccgtttat 240

atggagctgt ccagcctgcg ttctgaagat actgcagtgt actactgtgc acgctctttc 300

ttcactggtt tccatctgga ctattggggt caaggcaccc tcgtaacggt ttcttctgct 360

agcacaaagg gccccagcgt gttccctctg gcccctagca gcaagagcac atctggcgga 420

acagccgccc tgggctgcct cgtgaaggac tactttcccg agcctgtgac cgtgtcctgg 480

aactctggcg ccctgacaag cggcgtgcac acctttccag ccgtgctgca gagcagcggc 540

ctgtactctc tgagcagcgt ggtcaccgtg cctagcagca gcctgggcac ccagacctac 600

atctgcaacg tgaaccacaa gcccagcaac accaaagtgg acaagaaggt ggagcccaag 660

agctgtgatg gcggaggagg gtccggaggc ggaggatccg aggtgcagct gctggaatct 720

ggcggcggac tggtgcagcc tggcggatct ctgagactga gctgtgccgc cagcggcttc 780

accttcagca cctacgccat gaactgggtg cgccaggccc ctggcaaagg cctggaatgg 840

gtgtcccgga tcagaagcaa gtacaacaac tacgccacct actacgccga cagcgtgaag 900

ggccggttca ccatcagccg ggacgacagc aagaacaccc tgtacctgca gatgaacagc 960

ctgcgggccg aggacaccgc cgtgtactat tgtgtgcggc acggcaactt cggcaacagc 1020

tatgtgtctt ggtttgccta ctggggccag ggcaccctcg tgaccgtgtc aagcgctagt 1080

gtggccgctc cctccgtgtt tatctttccc ccatccgatg aacagctgaa aagcggcacc 1140

gcctccgtcg tgtgtctgct gaacaatttt taccctaggg aagctaaagt gcagtggaaa 1200

gtggataacg cactgcagtc cggcaactcc caggaatctg tgacagaaca ggactccaag 1260

gacagcacct actccctgtc ctccaccctg acactgtcta aggctgatta tgagaaacac 1320

aaagtctacg cctgcgaagt cacccatcag ggcctgagct cgcccgtcac aaagagcttc 1380

aacaggggag agtgtgacaa gacccacacc tgtccccctt gtcctgcccc tgaagctgct 1440

ggcggccctt ctgtgttcct gttcccccca aagcccaagg acaccctgat gatcagccgg 1500

acccccgaag tgacctgcgt ggtggtggat gtgtcccacg aggaccctga agtgaagttc 1560

aattggtacg tggacggcgt ggaagtgcac aacgccaaga caaagccgcg ggaggagcag 1620

tacaacagca cgtaccgtgt ggtcagcgtc ctcaccgtcc tgcaccagga ctggctgaat 1680

ggcaaggagt acaagtgcaa ggtctccaac aaagccctcg gcgcccccat cgagaaaacc 1740

atctccaaag ccaaagggca gccccgagaa ccacaggtgt acaccctgcc cccatgccgg 1800

gatgagctga ccaagaacca ggtcagcctg tggtgcctgg tcaaaggctt ctatcccagc 1860

gacatcgccg tggagtggga gagcaatggg cagccggaga acaactacaa gaccacgcct 1920

cccgtgctgg actccgacgg ctccttcttc ctctacagca agctcaccgt ggacaagagc 1980

aggtggcagc aggggaacgt cttctcatgc tccgtgatgc atgaggctct gcacaaccac 2040

tacacgcaga agagcctctc cctgtctccg ggtaaa 2076

<210> 247
<211> 1347
<212> ADN
<213> Secuencia artificial

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

<400> 247
caggtgcaat tggttcaatc tggtgctgaa gtaaaaaaac cgggcgcttc cgttaaagtg 60

agctgcaaag catccggata caccttcact tcctattaca tgcactgggt tcgtcaagcc 120

ccgggccagg gtctggaatg gatgggcatc attaacccaa gcggtggctc tacctcctac 180

gcgcagaaat tccagggtcg cgtcacgatg acccatgaca ctagcacctc taccgtttat 240

atggagctgt ccagcctgcg ttctgaagat actgcagtgt actactgtgc acgctctttc 300

ttcactggtt tccatctgga ctattggggt caaggcaccc tcgtaacggt ttcttctgct 360

agcaccaagg gcccctccgt gttccccctg gccccagca gcaagagcac cagcggcggc 420

acagccgctc tgggctgcct ggtcaaggac tacttccccg agcccgtgac cgtgtcctgg 480

aacagcggag ccctgacctc cggcgtgcac accttccccg ccgtgctgca gagttctggc 540

ctgtatagcc tgagcagcgt ggtcaccgtg ccttctagca gcctgggcac ccagacctac 600

atctgcaacg tgaaccacaa gcccagcaac accaaggtgg acaagaaggt ggagcccaag 660

agctgcgaca aaactcacac atgcccaccg tgcccagcac ctgaagctgc aggggggaccg 720

tcagtcttcc tcttcccccc aaaacccaag gacaccctca tgatctcccg gacccctgag 780

gtcacatgcg tggtggtgga cgtgagccac gaagaccctg aggtcaagtt caactggtac 840

gtggacggcg tggaggtgca taatgccaag acaaagccgc gggaggagca gtacaacagc 900

acgtaccgtg tggtcagcgt cctcaccgtc ctgcaccagg actggctgaa tggcaaggag 960

tacaagtgca aggtctccaa caaagccctc ggcgccccca tcgagaaaac catctccaaa 1020

gccaaagggc agccccgaga accacaggtg tgcaccctgc ccccatcccg ggatgagctg 1080

accaagaacc aggtcagcct ctcgtgcgca gtcaaaggct tctatcccag cgacatcgcc 1140

gtggagtggg agagcaatgg gcagccggag aacaactaca agaccacgcc tcccgtgctg 1200

gactccgacg gctccttctt cctcgtgagc aagctcaccg tggacaagag caggtggcag 1260

caggggaacg tcttctcatg ctccgtgatg catgaggctc tgcacaacca ctacacgcag 1320

aagagcctct ccctgtctcc gggtaaa 1347

<210> 248
<211> 120
<212> PRT
<213> Secuencia artificial

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

<400> 248
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Lys Pro Gly Gly
1 5 10 15

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

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

Gly Arg Ile Lys Ser Lys Thr Glu Gly Gly Thr Thr Asp Tyr Ala Ala
50 55 60

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

Leu Tyr Leu Gln Met Asn Ser Leu Lys Thr Glu Asp Thr Ala Val Tyr

85 90 95

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

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 249
<211> 120
<212> PRT
<213> Secuencia artificial

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

<400> 249
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Lys Pro Gly Gly
1 5 10 15

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

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

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

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

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

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

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 250
<211> 125
<212> PRT
<213> Secuencia artificial

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

<400> 250
Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

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

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

Ser Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr Tyr Tyr Ala Asp
50 55 60

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

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

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

Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
115 120 125

<210> 251
<211> 125
<212> PRT
<213> Secuencia artificial

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

<400> 251
Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

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

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

Ser Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr Tyr Tyr Ala Asp
50 55 60

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

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


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


Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
        115                 120                 125


<210> 252
<211> 689
<212> PRT
<213> Secuencia artificial

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

<400> 252
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Lys Pro Gly Gly
1               5                   10                  15


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


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


Gly Arg Ile Lys Ser Lys Thr Asp Gly Gly Thr Thr Asp Tyr Ala Ala
    50                  55                  60


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


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


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


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


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


Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser
145                 150                 155                 160
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Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala Val
                165                 170                 175

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

Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His Lys
        195                 200                 205

Pro Ser Asn Thr Lys Val Asp Lys Lys Val Glu Pro Lys Ser Cys Asp
    210                 215                 220

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Glu Val Gln Leu Leu Glu
225                 230                 235                 240

Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys
                245                 250                 255

Ala Ala Ser Gly Phe Thr Phe Ser Thr Tyr Ala Met Asn Trp Val Arg
            260                 265                 270

Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ser Arg Ile Arg Ser Lys
        275                 280                 285

Tyr Asn Asn Tyr Ala Thr Tyr Tyr Ala Asp Ser Val Lys Gly Arg Phe
    290                 295                 300

Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr Leu Tyr Leu Gln Met Asn
305                 310                 315                 320

Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Val Arg His Gly
                325                 330                 335

Asn Phe Gly Ala Ser Tyr Val Ser Trp Phe Ala Tyr Trp Gly Gln Gly
            340                 345                 350

Thr Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe
        355                 360                 365

Pro Leu Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala Ala Leu
    370                 375                 380

Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp
385                 390                 395                 400

Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala Val Leu
```

```
                405                 410                 415

Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro Ser
            420                 425                 430

Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His Lys Pro
        435                 440                 445

Ser Asn Thr Lys Val Asp Lys Lys Val Glu Pro Lys Ser Cys Asp Lys
    450                 455                 460

Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Ala Ala Gly Gly Pro
465                 470                 475                 480

Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser
                485                 490                 495

Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His Glu Asp
            500                 505                 510

Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn
        515                 520                 525

Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val
    530                 535                 540

Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu
545                 550                 555                 560

Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Gly Ala Pro Ile Glu Lys
                565                 570                 575

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

Leu Pro Pro Cys Arg Asp Glu Leu Thr Lys Asn Gln Val Ser Leu Trp
        595                 600                 605

Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu
    610                 615                 620

Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu
625                 630                 635                 640

Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys
                645                 650                 655
```

Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu
660 665 670

Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly
675 680 685

Lys

<210> 253
<211> 450
<212> PRT
<213> Secuencia artificial

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

<400> 253
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Lys Pro Gly Gly
1 5 10 15

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

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

Gly Arg Ile Lys Ser Lys Thr Asp Gly Gly Thr Thr Asp Tyr Ala Ala
50 55 60

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

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

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

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

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

Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser
145 150 155 160

```
Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala Val
                165                 170                 175

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

Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His Lys
        195                 200                 205

Pro Ser Asn Thr Lys Val Asp Lys Lys Val Glu Pro Lys Ser Cys Asp
    210                 215                 220

Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Ala Ala Gly Gly
225                 230                 235                 240

Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile
                245                 250                 255

Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His Glu
            260                 265                 270

Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His
        275                 280                 285

Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg
    290                 295                 300

Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys
305                 310                 315                 320

Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Gly Ala Pro Ile Glu
                325                 330                 335

Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Cys
            340                 345                 350

Thr Leu Pro Pro Ser Arg Asp Glu Leu Thr Lys Asn Gln Val Ser Leu
        355                 360                 365

Ser Cys Ala Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp
    370                 375                 380

Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val
385                 390                 395                 400

Leu Asp Ser Asp Gly Ser Phe Phe Leu Val Ser Lys Leu Thr Val Asp
                405                 410                 415
```

```
Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His
            420                 425                 430


Glu Ala Leu His Asn Arg Phe Thr Gln Lys Ser Leu Ser Leu Ser Pro
        435                 440                 445


Gly Lys
    450


<210> 254
<211> 215
<212> PRT
<213> Secuencia artificial

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

<400> 254
Gln Ala Val Val Thr Gln Glu Pro Ser Leu Thr Val Ser Pro Gly Gly
1               5                   10                  15


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


Asn Tyr Ala Asn Trp Val Gln Glu Lys Pro Gly Gln Ala Phe Arg Gly
        35                  40                  45


Leu Ile Gly Gly Thr Asn Lys Arg Ala Pro Gly Thr Pro Ala Arg Phe
    50                  55                  60


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


Gln Pro Glu Asp Glu Ala Glu Tyr Tyr Cys Ala Leu Trp Tyr Ser Asn
                85                  90                  95


Leu Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gln Pro
            100                 105                 110


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


Gln Ala Asn Lys Ala Thr Leu Val Cys Leu Ile Ser Asp Phe Tyr Pro
    130                 135                 140


Gly Ala Val Thr Val Ala Trp Lys Ala Asp Ser Ser Pro Val Lys Ala
145                 150                 155                 160
```

```
Gly Val Glu Thr Thr Thr Pro Ser Lys Gln Ser Asn Asn Lys Tyr Ala
                165                 170                 175

Ala Ser Ser Tyr Leu Ser Leu Thr Pro Glu Gln Trp Lys Ser His Arg
            180                 185                 190

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

Val Ala Pro Thr Glu Cys Ser
    210                 215


<210> 255
<211> 689
<212> PRT
<213> Secuencia artificial

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

<400> 255
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Lys Pro Gly Gly
1               5                   10                  15

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

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

Gly Arg Ile Lys Ser Lys Thr Asp Gly Gly Thr Thr Asp Tyr Ala Ala
    50                  55                  60

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

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

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

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

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

```
Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser
145                 150                 155                 160

Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala Val
                165                 170                 175

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

Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His Lys
        195                 200                 205

Pro Ser Asn Thr Lys Val Asp Lys Lys Val Glu Pro Lys Ser Cys Asp
    210                 215                 220

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Glu Val Gln Leu Leu Glu
225                 230                 235                 240

Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys
                245                 250                 255

Ala Ala Ser Gly Phe Thr Phe Ser Thr Tyr Ala Met Asn Trp Val Arg
            260                 265                 270

Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ser Arg Ile Arg Ser Lys
        275                 280                 285

Tyr Asn Asn Tyr Ala Thr Tyr Tyr Ala Asp Ser Val Lys Gly Arg Phe
    290                 295                 300

Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr Leu Tyr Leu Gln Met Asn
305                 310                 315                 320

Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Val Arg His Gly
                325                 330                 335

Asn Phe Gly Asn Ala Tyr Val Ser Trp Phe Ala Tyr Trp Gly Gln Gly
            340                 345                 350

Thr Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe
        355                 360                 365

Pro Leu Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala Ala Leu
    370                 375                 380

Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp
385                 390                 395                 400
```

```
Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala Val Leu
                405                 410                 415

Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro Ser
            420                 425                 430

Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His Lys Pro
        435                 440                 445

Ser Asn Thr Lys Val Asp Lys Lys Val Glu Pro Lys Ser Cys Asp Lys
    450                 455                 460

Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Ala Ala Gly Gly Pro
465                 470                 475                 480

Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser
                485                 490                 495

Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His Glu Asp
            500                 505                 510

Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn
        515                 520                 525

Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val
    530                 535                 540

Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu
545                 550                 555                 560

Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Gly Ala Pro Ile Glu Lys
                565                 570                 575

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

Leu Pro Pro Cys Arg Asp Glu Leu Thr Lys Asn Gln Val Ser Leu Trp
        595                 600                 605

Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu
    610                 615                 620

Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu
625                 630                 635                 640

Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys
```

645 650 655

Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu
660 665 670

Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly
675 680 685

Lys

<210> 256
<211> 690
<212> PRT
<213> Secuencia artificial

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

<400> 256
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 Ser Tyr
20 25 30

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

Gly Ile Ile Asn Pro Ser Gly Gly Pro Thr Ser 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 Asp Phe Ala Trp Leu Asp Tyr Trp Gly Gln Gly Thr Leu
100 105 110

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

Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys
130 135 140

Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser

```
145                 150                 155                 160

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

Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser
            180                 185                 190

Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn
        195                 200                 205

Thr Lys Val Asp Lys Lys Val Glu Pro Lys Ser Cys Asp Gly Gly Gly
    210                 215                 220

Gly Ser Gly Gly Gly Gly Ser Glu Val Gln Leu Leu Glu Ser Gly Gly
225                 230                 235                 240

Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser
                245                 250                 255

Gly Phe Thr Phe Ser Thr Tyr Ala Met Asn Trp Val Arg Gln Ala Pro
            260                 265                 270

Gly Lys Gly Leu Glu Trp Val Ser Arg Ile Arg Ser Lys Tyr Asn Asn
        275                 280                 285

Tyr Ala Thr Tyr Tyr Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Ser
    290                 295                 300

Arg Asp Asp Ser Lys Asn Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg
305                 310                 315                 320

Ala Glu Asp Thr Ala Val Tyr Tyr Cys Val Arg His Gly Asn Phe Gly
                325                 330                 335

Ala Ser Tyr Val Ser Trp Phe Ala Tyr Trp Gly Gln Gly Thr Leu Val
            340                 345                 350

Thr Val Ser Ser Ala Ser Val Ala Ala Pro Ser Val Phe Ile Phe Pro
        355                 360                 365

Pro Ser Asp Glu Gln Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu
    370                 375                 380

Leu Asn Asn Phe Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp
385                 390                 395                 400
```

```
Asn Ala Leu Gln Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp
                405                 410                 415

Ser Lys Asp Ser Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys
            420                 425                 430

Ala Asp Tyr Glu Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln
        435                 440                 445

Gly Leu Ser Ser Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys Asp
    450                 455                 460

Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Ala Ala Gly Gly
465                 470                 475                 480

Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile
                485                 490                 495

Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His Glu
            500                 505                 510

Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His
        515                 520                 525

Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg
    530                 535                 540

Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys
545                 550                 555                 560

Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Gly Ala Pro Ile Glu
                565                 570                 575

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

Thr Leu Pro Pro Cys Arg Asp Glu Leu Thr Lys Asn Gln Val Ser Leu
        595                 600                 605

Trp Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp
    610                 615                 620

Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val
625                 630                 635                 640

Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp
                645                 650                 655
```

Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His
660 665 670

Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro
675 680 685

Gly Lys
690

<210> 257
<211> 447
<212> PRT
<213> Secuencia artificial

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

<400> 257
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 Ser Tyr
20 25 30

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

Gly Ile Ile Asn Pro Ser Gly Gly Pro Thr Ser 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 Asp Phe Ala Trp Leu Asp Tyr Trp Gly Gln Gly Thr Leu
100 105 110

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

Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys
130 135 140

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

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

Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser
            180                 185                 190

Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn
        195                 200                 205

Thr Lys Val Asp Lys Lys Val Glu Pro Lys Ser Cys Asp Lys Thr His
    210                 215                 220

Thr Cys Pro Pro Cys Pro Ala Pro Glu Ala Ala Gly Gly Pro Ser Val
225                 230                 235                 240

Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr
                245                 250                 255

Pro Glu Val Thr Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu
            260                 265                 270

Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys
        275                 280                 285

Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser
    290                 295                 300

Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys
305                 310                 315                 320

Cys Lys Val Ser Asn Lys Ala Leu Gly Ala Pro Ile Glu Lys Thr Ile
                325                 330                 335

Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Cys Thr Leu Pro
            340                 345                 350

Pro Ser Arg Asp Glu Leu Thr Lys Asn Gln Val Ser Leu Ser Cys Ala
        355                 360                 365

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

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

Asp Gly Ser Phe Phe Leu Val Ser Lys Leu Thr Val Asp Lys Ser Arg
                405                 410                 415
```

```
Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu
            420                 425                 430


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


<210> 258
<211> 219
<212> PRT
<213> Secuencia artificial

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

<400> 258
Asp Ile Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro Gly
1               5                   10                  15


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


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


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


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


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


Ser Ile Met Gln Arg Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
            100                 105                 110


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


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


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


Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser
                165                 170                 175
```

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


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


Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
    210                 215


<210> 259
<211> 214
<212> PRT
<213> Secuencia artificial

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

<400> 259
Gln Ala Val Val Thr Gln Glu Pro Ser Leu Thr Val Ser Pro Gly Gly
1               5                   10                  15


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


Asn Tyr Ala Asn Trp Val Gln Glu Lys Pro Gly Gln Ala Phe Arg Gly
        35                  40                  45


Leu Ile Gly Gly Thr Asn Lys Arg Ala Pro Gly Thr Pro Ala Arg Phe
    50                  55                  60


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


Gln Pro Glu Asp Glu Ala Glu Tyr Tyr Cys Ala Leu Trp Tyr Ser Asn
                85                  90                  95


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


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


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


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

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


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


Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys Lys
        195                 200                 205


Val Glu Pro Lys Ser Cys
    210


<210> 260
<211> 690
<212> PRT
<213> Secuencia artificial

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

<400> 260
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 Ser Tyr
            20                  25                  30


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


Gly Ile Ile Asn Pro Ser Gly Gly Pro Thr Ser 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 Asp Phe Ala Trp Leu Asp Tyr Trp Gly Gln Gly Thr Leu
            100                 105                 110


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


Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys
    130                 135                 140
```

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

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

Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser
            180                 185                 190

Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn
        195                 200                 205

Thr Lys Val Asp Lys Lys Val Glu Pro Lys Ser Cys Asp Gly Gly Gly
    210                 215                 220

Gly Ser Gly Gly Gly Gly Ser Glu Val Gln Leu Leu Glu Ser Gly Gly
225                 230                 235                 240

Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser
                245                 250                 255

Gly Phe Thr Phe Ser Thr Tyr Ala Met Asn Trp Val Arg Gln Ala Pro
            260                 265                 270

Gly Lys Gly Leu Glu Trp Val Ser Arg Ile Arg Ser Lys Tyr Asn Asn
        275                 280                 285

Tyr Ala Thr Tyr Tyr Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Ser
    290                 295                 300

Arg Asp Asp Ser Lys Asn Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg
305                 310                 315                 320

Ala Glu Asp Thr Ala Val Tyr Tyr Cys Val Arg His Gly Asn Phe Gly
                325                 330                 335

Asn Ala Tyr Val Ser Trp Phe Ala Tyr Trp Gly Gln Gly Thr Leu Val
            340                 345                 350

Thr Val Ser Ser Ala Ser Val Ala Ala Pro Ser Val Phe Ile Phe Pro
        355                 360                 365

Pro Ser Asp Glu Gln Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu
    370                 375                 380

Leu Asn Asn Phe Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp
```

```
385                 390                 395                 400

Asn Ala Leu Gln Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp
                405                 410                 415

Ser Lys Asp Ser Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys
            420                 425                 430

Ala Asp Tyr Glu Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln
        435                 440                 445

Gly Leu Ser Ser Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys Asp
    450                 455                 460

Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Ala Ala Gly Gly
465                 470                 475                 480

Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile
                485                 490                 495

Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His Glu
            500                 505                 510

Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His
        515                 520                 525

Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg
    530                 535                 540

Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys
545                 550                 555                 560

Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Gly Ala Pro Ile Glu
                565                 570                 575

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

Thr Leu Pro Pro Cys Arg Asp Glu Leu Thr Lys Asn Gln Val Ser Leu
        595                 600                 605

Trp Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp
    610                 615                 620

Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val
625                 630                 635                 640
```

Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp
645 650 655

Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His
660 665 670

Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro
675 680 685

Gly Lys
690

<210> 261
<211> 360
<212> ADN
<213> Secuencia artificial

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

<400> 261
gaggtgcaat tggttgaatc tggtggtggt ctggtaaaac cgggcggttc cctgcgtctg 60

agctgcgcgg cttccggatt caccttctcc aacgcgtgga tgagctgggt tcgccaggcc 120

ccgggcaaag gcctcgagtg ggttggtcgt atcaagtcta aaactgaggg tggcaccacg 180

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<210> 273
<211> 2070
<212> ADN
<213> Secuencia artificial

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

<400> 273
caggtgcaat tggttcaatc tggtgctgaa gtaaaaaaac cgggcgcttc cgttaaagtg 60

agctgcaaag catccggata caccttcact tcctattaca tgcactgggt tcgtcaagcc 120

ccgggccagg gtctggaatg gatgggcatc attaacccaa gcggtggccc tacctcctac 180

gcgcagaaat tccagggtcg cgtcacgatg acccgtgaca ctagcacctc taccgtttat 240

atggagctgt ccagcctgcg ttctgaagat actgcagtgt actactgtgc acgcggtgac 300

ttcgcttggc tggactattg gggtcaaggc accctcgtaa cggtttcttc tgctagcaca 360

aagggcccca gcgtgttccc tctggccct agcagcaaga gcacatctgg cggaacagcc 420

gccctgggct gcctcgtgaa ggactacttt cccgagcctg tgaccgtgtc ctggaactct 480

ggcgccctga caagcggcgt gcacaccttt ccagccgtgc tgcagagcag cggcctgtac 540

tctctgagca gcgtggtcac cgtgcctagc agcagcctgg gcacccagac ctacatctgc 600

aacgtgaacc acaagcccag caacaccaaa gtggacaaga aggtggagcc caagagctgt 660

gatggcggag gagggtccgg aggcggagga tccgaggtgc agctgctgga atctggcggc 720

ggactggtgc agcctggcgg atctctgaga ctgagctgtg ccgccagcgg cttcaccttc 780

agcacctacg ccatgaactg ggtgcgccag gcccctggca aaggcctgga atgggtgtcc 840

cggatcagaa gcaagtacaa caactacgcc acctactacg ccgacagcgt gaagggccgg 900

ttcaccatca gccgggacga cagcaagaac accctgtacc tgcagatgaa cagcctgcgg 960

gccgaggaca ccgccgtgta ctattgtgtg cggcacggca acttcggcaa cgcctatgtg 1020

tcttggtttg cctactgggg ccagggcacc ctcgtgaccg tgtcaagcgc tagtgtggcc 1080

gctccctccg tgtttatctt tcccccatcc gatgaacagc tgaaaagcgg caccgcctcc 1140

gtcgtgtgtc tgctgaacaa tttttaccct agggaagcta aagtgcagtg gaaagtggat 1200

aacgcactgc agtccggcaa ctcccaggaa tctgtgacag aacaggactc caaggacagc 1260

acctactccc tgtcctccac cctgacactg tctaaggctg attatgagaa acacaaagtc 1320

tacgcctgcg aagtcaccca tcagggcctg agctcgcccg tcacaaagag cttcaacagg 1380

ggagagtgtg acaagaccca cacctgtccc ccttgtcctg cccctgaagc tgctggcggc 1440

ccttctgtgt tcctgttccc cccaaagccc aaggacaccc tgatgatcag ccggaccccc 1500

gaagtgacct gcgtggtggt ggatgtgtcc cacgaggacc ctgaagtgaa gttcaattgg 1560

tacgtggacg gcgtggaagt gcacaacgcc aagacaaagc cgcgggagga gcagtacaac 1620

agcacgtacc gtgtggtcag cgtcctcacc gtcctgcacc aggactggct gaatggcaag 1680

gagtacaagt gcaaggtctc caacaaagcc ctcggcgccc ccatcgagaa aaccatctcc 1740

aaagccaaag ggcagccccg agaaccacag gtgtacaccc tgccccatg ccgggatgag 1800

ctgaccaaga accaggtcag cctgtggtgc ctggtcaaag gcttctatcc cagcgacatc 1860

gccgtggagt gggagagcaa tgggcagccg gagaacaact acaagaccac gcctcccgtg 1920

ctggactccg acggctcctt cttcctctac agcaagctca ccgtggacaa gagcaggtgg 1980

cagcagggga acgtcttctc atgctccgtg atgcatgagg ctctgcacaa ccactacacg 2040

cagaagagcc tctccctgtc tccgggtaaa 2070

<210> 274
<211> 120
<212> PRT
<213> Secuencia artificial

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

<400> 274
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Lys Pro Gly Gly
1 5 10 15

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

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

Gly Arg Ile Lys Ser Lys Thr Glu Gly Gly Thr Thr Asp Tyr Ala Ala
50 55 60

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

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

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

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 275
<211> 19
<212> PRT
<213> Secuencia artificial

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

<400> 275
Arg Ile Lys Ser Lys Thr Glu Gly Gly Thr Thr Asp Tyr Ala Ala Pro
1 5 10 15

Val Lys Gly

<210> 276
<211> 689
<212> PRT
<213> Secuencia artificial

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

<400> 276
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Lys Pro Gly Gly
1 5 10 15

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

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

Gly Arg Ile Lys Ser Lys Thr Glu Gly Gly Thr Thr Asp Tyr Ala Ala
50 55 60

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

Leu Tyr Leu Gln Met Asn Ser Leu Lys Thr Glu Asp Thr Ala Val Tyr

```
                85                  90                  95

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

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

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

Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser
145                 150                 155                 160

Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala Val
                165                 170                 175

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

Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His Lys
        195                 200                 205

Pro Ser Asn Thr Lys Val Asp Lys Lys Val Glu Pro Lys Ser Cys Asp
    210                 215                 220

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Glu Val Gln Leu Leu Glu
225                 230                 235                 240

Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys
                245                 250                 255

Ala Ala Ser Gly Phe Thr Phe Ser Thr Tyr Ala Met Asn Trp Val Arg
            260                 265                 270

Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ser Arg Ile Arg Ser Lys
        275                 280                 285

Tyr Asn Asn Tyr Ala Thr Tyr Tyr Ala Asp Ser Val Lys Gly Arg Phe
    290                 295                 300

Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr Leu Tyr Leu Gln Met Asn
305                 310                 315                 320

Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Val Arg His Gly
                325                 330                 335
```

```
Asn Phe Gly Asn Ser Tyr Val Ser Trp Phe Ala Tyr Trp Gly Gln Gly
            340                 345                 350

Thr Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe
        355                 360                 365

Pro Leu Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala Ala Leu
    370                 375                 380

Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp
385                 390                 395                 400

Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala Val Leu
                405                 410                 415

Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro Ser
            420                 425                 430

Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His Lys Pro
        435                 440                 445

Ser Asn Thr Lys Val Asp Lys Lys Val Glu Pro Lys Ser Cys Asp Lys
    450                 455                 460

Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Ala Ala Gly Gly Pro
465                 470                 475                 480

Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser
                485                 490                 495

Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His Glu Asp
            500                 505                 510

Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn
        515                 520                 525

Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val
    530                 535                 540

Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu
545                 550                 555                 560

Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Gly Ala Pro Ile Glu Lys
                565                 570                 575

Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr
            580                 585                 590
```

```
Leu Pro Pro Cys Arg Asp Glu Leu Thr Lys Asn Gln Val Ser Leu Trp
        595                 600                 605

Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu
    610                 615                 620

Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu
625                 630                 635                 640

Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys
                645                 650                 655

Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu
            660                 665                 670

Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly
        675                 680                 685

Lys
```

<210> 277
<211> 450
<212> PRT
<213> Secuencia artificial

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

<400> 277

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

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

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

Gly Arg Ile Lys Ser Lys Thr Glu Gly Gly Thr Thr Asp Tyr Ala Ala
    50                  55                  60

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

Leu Tyr Leu Gln Met Asn Ser Leu Lys Thr Glu Asp Thr Ala Val Tyr
                85                  90                  95
```

```
Tyr Cys Thr Thr Pro Tyr Glu Trp Ser Trp Tyr Asp Tyr Trp Gly Gln
            100                 105                 110

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

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

Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser
145                 150                 155                 160

Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala Val
                165                 170                 175

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

Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His Lys
        195                 200                 205

Pro Ser Asn Thr Lys Val Asp Lys Lys Val Glu Pro Lys Ser Cys Asp
    210                 215                 220

Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Ala Ala Gly Gly
225                 230                 235                 240

Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile
                245                 250                 255

Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His Glu
            260                 265                 270

Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His
        275                 280                 285

Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg
    290                 295                 300

Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys
305                 310                 315                 320

Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Gly Ala Pro Ile Glu
                325                 330                 335

Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Cys
            340                 345                 350
```

Thr Leu Pro Pro Ser Arg Asp Glu Leu Thr Lys Asn Gln Val Ser Leu
355 360 365

Ser Cys Ala Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp
370 375 380

Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val
385 390 395 400

Leu Asp Ser Asp Gly Ser Phe Phe Leu Val Ser Lys Leu Thr Val Asp
405 410 415

Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His
420 425 430

Glu Ala Leu His Asn Arg Phe Thr Gln Lys Ser Leu Ser Leu Ser Pro
435 440 445

Gly Lys
450

<210> 278
<211> 119
<212> PRT
<213> Secuencia artificial

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

<400> 278
Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

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

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

Ser Ala Ile Ser Gly Ser Gly Gly Ser Thr Tyr Tyr Ala Asp Ser Val
50 55 60

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

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

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

Thr Leu Val Thr Val Ser Ser
115

<210> 279
<211> 109
<212> PRT
<213> Secuencia artificial

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

<400> 279
Ser Ser Glu Leu Thr Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln
1 5 10 15

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

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

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

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

Asp Glu Ala Asp Tyr Tyr Cys Asn Ser Arg Glu Ser Pro Pro Thr Gly
85 90 95

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

<210> 280
<211> 674
<212> PRT
<213> Secuencia artificial

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

<400> 280
Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

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

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

Ser Ala Ile Ser Gly Ser Gly Gly Ser Thr Tyr Tyr Ala Asp Ser Val
    50                  55                  60

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

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

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

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

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

Gly Cys Leu Val Glu Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp
145                 150                 155                 160

Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala Val Leu
                165                 170                 175

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

Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His Lys Pro
        195                 200                 205

Ser Asn Thr Lys Val Asp Glu Lys Val Glu Pro Lys Ser Cys Asp Gly
    210                 215                 220

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ala Val Val Thr Gln Glu
225                 230                 235                 240

Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Gly
                245                 250                 255

Ser Ser Thr Gly Ala Val Thr Thr Ser Asn Tyr Ala Asn Trp Val Gln
            260                 265                 270
```

```
Glu Lys Pro Gly Gln Ala Phe Arg Gly Leu Ile Gly Gly Thr Asn Lys
        275                 280                 285

Arg Ala Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly
    290                 295                 300

Lys Ala Ala Leu Thr Leu Ser Gly Ala Gln Pro Glu Asp Glu Ala Glu
305                 310                 315                 320

Tyr Tyr Cys Ala Leu Trp Tyr Ser Asn Leu Trp Val Phe Gly Gly Gly
                325                 330                 335

Thr Lys Leu Thr Val Leu Ser Ser Ala Ser Thr Lys Gly Pro Ser Val
            340                 345                 350

Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala Ala
        355                 360                 365

Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser
    370                 375                 380

Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala Val
385                 390                 395                 400

Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro
                405                 410                 415

Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His Lys
            420                 425                 430

Pro Ser Asn Thr Lys Val Asp Lys Lys Val Glu Pro Lys Ser Cys Asp
        435                 440                 445

Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Ala Ala Gly Gly
    450                 455                 460

Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile
465                 470                 475                 480

Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His Glu
                485                 490                 495

Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His
            500                 505                 510

Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg
```

515 520 525

Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys
530 535 540

Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Gly Ala Pro Ile Glu
545 550 555 560

Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr
565 570 575

Thr Leu Pro Pro Cys Arg Asp Glu Leu Thr Lys Asn Gln Val Ser Leu
580 585 590

Trp Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp
595 600 605

Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val
610 615 620

Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp
625 630 635 640

Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His
645 650 655

Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro
660 665 670

Gly Lys

<210> 281
<211> 449
<212> PRT
<213> Secuencia artificial

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

<400> 281
Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

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

Ala Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val

```
        35                  40                  45

Ser Ala Ile Ser Gly Ser Gly Gly Ser Thr Tyr Tyr Ala Asp Ser Val
    50                  55                  60

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

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

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

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

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

Gly Cys Leu Val Glu Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp
145                 150                 155                 160

Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala Val Leu
                165                 170                 175

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

Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His Lys Pro
        195                 200                 205

Ser Asn Thr Lys Val Asp Glu Lys Val Glu Pro Lys Ser Cys Asp Lys
    210                 215                 220

Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Ala Ala Gly Gly Pro
225                 230                 235                 240

Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser
                245                 250                 255

Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His Glu Asp
            260                 265                 270

Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn
        275                 280                 285
```

```
Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val
    290                 295                 300

Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu
305                 310                 315                 320

Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Gly Ala Pro Ile Glu Lys
                325                 330                 335

Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Cys Thr
            340                 345                 350

Leu Pro Pro Ser Arg Asp Glu Leu Thr Lys Asn Gln Val Ser Leu Ser
        355                 360                 365

Cys Ala Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu
    370                 375                 380

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

Asp Ser Asp Gly Ser Phe Phe Leu Val Ser Lys Leu Thr Val Asp Lys
                405                 410                 415

Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu
            420                 425                 430

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

Lys
```

<210> 282
<211> 215
<212> PRT
<213> Secuencia artificial

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

<400> 282

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

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

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

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

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

Asp Glu Ala Asp Tyr Tyr Cys Asn Ser Arg Glu Ser Pro Pro Thr Gly
                85                  90                  95

Leu Val Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gln Pro
            100                 105                 110

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

Gln Ala Asn Lys Ala Thr Leu Val Cys Leu Ile Ser Asp Phe Tyr Pro
    130                 135                 140

Gly Ala Val Thr Val Ala Trp Lys Ala Asp Ser Ser Pro Val Lys Ala
145                 150                 155                 160

Gly Val Glu Thr Thr Thr Pro Ser Lys Gln Ser Asn Asn Lys Tyr Ala
                165                 170                 175

Ala Ser Ser Tyr Leu Ser Leu Thr Pro Glu Gln Trp Lys Ser His Arg
            180                 185                 190

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

Val Ala Pro Thr Glu Cys Ser
    210                 215


<210> 283
<211> 118
<212> PRT
<213> Secuencia artificial

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

<400> 283
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 Ser Tyr
            20                  25                  30

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

Gly Ile Ile Asn Pro Ser Gly Gly Ser Thr Ser 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 Asp Trp Ser Tyr Tyr Met Asp Tyr Trp Gly Gln Gly Thr
            100                 105                 110

Leu Val Thr Val Ser Ser
        115


<210> 284
<211> 111
<212> PRT
<213> Secuencia artificial

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

<400> 284
Asp Ile Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro Gly
1               5                   10                  15

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

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

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

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

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

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

<210> 285
<211> 673
<212> PRT
<213> Secuencia artificial

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

<400> 285
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 Ser Tyr
20 25 30

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

Gly Ile Ile Asn Pro Ser Gly Gly Ser Thr Ser 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 Asp Trp Ser Tyr Tyr Met Asp Tyr Trp Gly Gln Gly Thr
100 105 110

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

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

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

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

Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser
180 185 190

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Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His Lys Pro Ser
        195                 200                 205

Asn Thr Lys Val Asp Glu Lys Val Glu Pro Lys Ser Cys Asp Gly Gly
    210                 215                 220

Gly Gly Ser Gly Gly Gly Gly Ser Gln Ala Val Val Thr Gln Glu Pro
225                 230                 235                 240

Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Gly Ser
                245                 250                 255

Ser Thr Gly Ala Val Thr Thr Ser Asn Tyr Ala Asn Trp Val Gln Glu
            260                 265                 270

Lys Pro Gly Gln Ala Phe Arg Gly Leu Ile Gly Gly Thr Asn Lys Arg
        275                 280                 285

Ala Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly Lys
    290                 295                 300

Ala Ala Leu Thr Leu Ser Gly Ala Gln Pro Glu Asp Glu Ala Glu Tyr
305                 310                 315                 320

Tyr Cys Ala Leu Trp Tyr Ser Asn Leu Trp Val Phe Gly Gly Gly Thr
                325                 330                 335

Lys Leu Thr Val Leu Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe
            340                 345                 350

Pro Leu Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala Ala Leu
        355                 360                 365

Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp
    370                 375                 380

Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala Val Leu
385                 390                 395                 400

Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro Ser
                405                 410                 415

Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His Lys Pro
            420                 425                 430

Ser Asn Thr Lys Val Asp Lys Lys Val Glu Pro Lys Ser Cys Asp Lys
        435                 440                 445
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Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Ala Ala Gly Gly Pro
    450                 455                 460

Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser
465                 470                 475                 480

Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His Glu Asp
                485                 490                 495

Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn
            500                 505                 510

Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val
        515                 520                 525

Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu
    530                 535                 540

Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Gly Ala Pro Ile Glu Lys
545                 550                 555                 560

Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr
                565                 570                 575

Leu Pro Pro Cys Arg Asp Glu Leu Thr Lys Asn Gln Val Ser Leu Trp
            580                 585                 590

Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu
        595                 600                 605

Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu
    610                 615                 620

Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys
625                 630                 635                 640

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

Gly Ile Ile Asn Pro Ser Gly Gly Ser Thr Ser 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 Asp Trp Ser Tyr Tyr Met Asp Tyr Trp Gly Gln Gly Thr
            100                 105                 110

Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro
        115                 120                 125

Leu Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly
    130                 135                 140

Cys Leu Val Glu Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Asn
145                 150                 155                 160

Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala Val Leu Gln
                165                 170                 175

Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser
            180                 185                 190

Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His Lys Pro Ser
        195                 200                 205

Asn Thr Lys Val Asp Glu Lys Val Glu Pro Lys Ser Cys Asp Lys Thr
    210                 215                 220
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His Thr Cys Pro Pro Cys Pro Ala Pro Glu Ala Ala Gly Gly Pro Ser
225                 230                 235                 240

Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg
                245                 250                 255

Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His Glu Asp Pro
            260                 265                 270

Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala
        275                 280                 285

Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val
    290                 295                 300

Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr
305                 310                 315                 320

Lys Cys Lys Val Ser Asn Lys Ala Leu Gly Ala Pro Ile Glu Lys Thr
                325                 330                 335

Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Cys Thr Leu
            340                 345                 350

Pro Pro Ser Arg Asp Glu Leu Thr Lys Asn Gln Val Ser Leu Ser Cys
        355                 360                 365

Ala Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser
    370                 375                 380

Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp
385                 390                 395                 400

Ser Asp Gly Ser Phe Phe Leu Val Ser Lys Leu Thr Val Asp Lys Ser
                405                 410                 415

Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala
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Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
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cctggaaaag gactcgagtg ggtgggacgg atcaagagca agaccgaggg cggcaccacc 180

gactatgccg cccctgtgaa gggccggttc accatcagca gggacgacag caagaacacc 240

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cctggaaaag gactcgagtg ggtgggacgg atcaagagca agaccgaggg cggcaccacc 180

gactatgccg cccctgtgaa gggccggttc accatcagca gggacgacag caagaacacc 240

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ccctacgagt ggtcttggta cgactactgg ggccagggca ccctcgtgac cgtgtcatct 360

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ggaacagccg ccctgggctg cctcgtgaag gactacttcc ccgagcccgt gacagtgtct 480

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ggcctgtact ccctgagcag cgtggtcacc gtgcctagca gcagcctggg cacccagacc 600

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aagagctgtg atggcggagg agggtccgga ggcggaggat ccgaggtgca gctgctggaa 720

tctggcggcg gactggtgca gcctggcgga tctctgagac tgagctgtgc cgccagcggc 780

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aagggccggt tcaccatcag ccgggacgac agcaagaaca ccctgtacct gcagatgaac 960

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<220>
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<223> /nota="Descripción de secuencia artificial: Polinucleótido sintético"

<400> 297
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agctgcaaag catccggata caccttcact tcctattaca tgcactgggt tcgtcaagcc 120

ccgggccagg gtctggaatg gatgggcatc attaacccaa gcggtggctc tacctcctac 180
gcgcagaaat tccagggtcg cgtcacgatg acccgtgaca ctagcacctc taccgtttat 240
atggagctgt ccagcctgcg ttctgaagat actgcagtgt actactgtgc acgcggtgac 300
tggtcttact acatggacta ttggggtcaa ggcaccctcg taacggtttc ttctgctagc 360
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gccgctctgg gctgcctggt ggaagattac ttccccgagc ccgtgaccgt gtcctggaat 480
tctggcgctc tgacctccgg cgtgcacacc tttccagctg tgctgcagtc ctccggcctg 540
tactccctgt cctccgtcgt gacagtgccc tccagctctc tgggcaccca gacctacatc 600
tgcaacgtga accacaagcc ctccaacacc aaggtggacg agaaggtgga acccaagtcc 660
tgcgacggtg gcggaggttc cggaggcgga ggatcccagg ctgtcgtgac ccaggaaccc 720
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ctgggcggca aggctgccct gactctgtct ggtgctcagc ctgaggacga ggccgagtac 960
tactgcgccc tgtggtactc caacctgtgg gtgttcggcg gaggcaccaa gctgaccgtg 1020
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gtggaaccta agagctgcga taagacccac acctgtcccc cctgccctgc tcctgaagct 1380
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cagtacaact ccacctaccg ggtggtgtcc gtgctgacag tgctgcacca ggactggctg 1620
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cgggatgagc tgaccaagaa ccaggtcagc ctgtggtgcc tggtcaaagg cttctatccc 1800
agcgacatcg ccgtggagtg ggagagcaat gggcagccgg agaacaacta caagaccacg 1860
cctcccgtgc tggactccga cggctccttc ttcctctaca gcaagctcac cgtggacaag 1920
agcaggtggc agcaggggaa cgtcttctca tgctccgtga tgcatgaggc tctgcacaac 1980

cactacacgc agaagagcct ctccctgtct ccgggtaaa 2019

<210> 298
<211> 1344
<212> ADN
<213> Secuencia artificial

<220>
<221> fuente
<223> /nota="Descripción de secuencia artificial: Polinucleótido sintético"

<400> 298
caggtgcaat tggttcaatc tggtgctgaa gtaaaaaaac cgggcgcttc cgttaaagtg 60

agctgcaaag catccggata caccttcact tcctattaca tgcactgggt tcgtcaagcc 120

ccgggccagg gtctggaatg gatgggcatc attaacccaa gcggtggctc tacctcctac 180

gcgcagaaat tccagggtcg cgtcacgatg acccgtgaca ctagcacctc taccgtttat 240

atggagctgt ccagcctgcg ttctgaagat actgcagtgt actactgtgc acgcggtgac 300

tggtcttact acatggacta ttggggtcaa ggcaccctcg taacggtttc ttctgctagc 360

accaagggcc cctccgtgtt ccccctggcc cccagcagca agagcaccag cggcggcaca 420

gccgctctgg gctgcctggt cgaggactac ttccccgagc ccgtgaccgt gtcctggaac 480

agcggagccc tgacctccgg cgtgcacacc ttccccgccg tgctgcagag ttctggcctg 540

tatagcctga gcagcgtggt caccgtgcct tctagcagcc tgggcaccca gacctacatc 600

tgcaacgtga accacaagcc cagcaacacc aaggtggacg agaaggtgga gcccaagagc 660

tgcgacaaaa ctcacacatg cccaccgtgc ccagcacctg aagctgcagg gggaccgtca 720

gtcttcctct tccccccaaa acccaaggac accctcatga tctcccggac ccctgaggtc 780

acatgcgtgg tggtggacgt gagccacgaa gaccctgagg tcaagttcaa ctggtacgtg 840

gacggcgtgg aggtgcataa tgccaagaca aagccgcggg aggagcagta caacagcacg 900

taccgtgtgg tcagcgtcct caccgtcctg caccaggact ggctgaatgg caaggagtac 960

aagtgcaagg tctccaacaa agccctcggc gcccccatcg agaaaaccat ctccaaagcc 1020

aaagggcagc cccgagaacc acaggtgtgc accctgcccc catcccggga tgagctgacc 1080

aagaaccagg tcagcctctc gtgcgcagtc aaaggcttct atcccagcga catcgccgtg 1140

gagtgggaga gcaatgggca gccggagaac aactacaaga ccacgcctcc cgtgctggac 1200

tccgacggct ccttcttcct cgtgagcaag ctcaccgtgg acaagagcag gtggcagcag 1260

gggaacgtct tctcatgctc cgtgatgcat gaggctctgc acaaccacta cacgcagaag 1320

agcctctccc tgtctccggg taaa 1344

<210> 299
<211> 654

<212> ADN
<213> Secuencia artificial

<220>
<221> fuente
<223> /nota="Descripción de secuencia artificial: Polinucleótido
sintético"

<400> 299
gatattgtta tgactcaatc tccactgtct ctgccggtga ctccaggcga accggcgagc 60

atttcttgcc gttccagcca gtctctgctg cactccaacg gctacaacta tctcgattgg 120

tacctgcaaa aaccgggtca gagccctcag ctgctgatct acctgggctc taaccgcgct 180

tccggtgtac cggaccgttt cagcggctct ggatccggca ccgatttcac gttgaaaatc 240

agccgtgttg aagcagaaga cgtgggcgtt tattactgta tgcaggcacg gcagacccca 300

acttttggtc aaggcaccaa ggtcgaaatt aaacgtacgg tggctgcacc atctgtcttc 360

atcttcccgc catctgatcg gaagttgaaa tctggaactg cctctgttgt gtgcctgctg 420

aataacttct atcccagaga ggccaaagta cagtggaagg tggataacgc cctccaatcg 480

ggtaactccc aggagagtgt cacagagcag gacagcaagg acagcaccta cagcctcagc 540

agcaccctga cgctgagcaa agcagactac gagaaacaca aagtctacgc ctgcgaagtc 600

acccatcagg gcctgagctc gcccgtcaca aagagcttca acaggggaga gtgt 654

<210> 300
<211> 50
<212> PRT
<213> Secuencia artificial

<220>
<221> fuente
<223> /nota="Descripción de secuencia artificial: Polipéptido
sintético"

<220>
<221> misc_feature
<222> (1)..(50)
<223> /nota="Esta secuencia puede abarcar 1-10 unidades de repetición de
'Gly Gly Gly Gly Ser' en las que algunas posiciones pueden estar ausentes"

<220>
<221> fuente
<223> /nota="Véase la memoria descriptiva tal como se ha presentado para una
descripción detallada de
sustituciones y realizaciones preferidas"

<400> 300
Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly
1 5 10 15

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly
20 25 30

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly
        35   40   45

Gly Ser
    50

<210> 301
<211> 50
<212> PRT
<213> Secuencia artificial

<220>
<221> fuente
<223> /nota="Descripción de secuencia artificial: Polipéptido
      sintético"

<220>
<221> misc_feature
<222> (1)..(50)
<223> /nota="Esta secuencia puede abarcar 1-10 unidades de repetición de
      'Ser Gly Gly Gly Gly', en las que algunas posiciones pueden estar ausentes"

<220>
<221> fuente
<223> /nota="Véase la memoria descriptiva tal como se ha presentado para una
descripción detallada de
      sustituciones y realizaciones preferidas"

<400> 301
Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
1   5   10   15

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly
            20   25   30

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly
        35   40   45

Gly Gly
    50

<210> 302
<211> 54
<212> PRT
<213> Secuencia artificial

<220>
<221> fuente
<223> /nota="Descripción de secuencia artificial: Polipéptido
      sintético"

<220>
<221> misc_feature
<222> (5)..(54)

<223> /nota="Esta región puede abarcar 1-10 unidades de repetición de
'Ser Gly Gly Gly Gly' en las que algunas posiciones pueden estar ausentes"

<220>
<221> fuente
<223> /nota="Véase la memoria descriptiva tal como se ha presentado para una
descripción detallada de
sustituciones y realizaciones preferidas"

<400> 302
Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly
1 5 10 15

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly
20 25 30

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly
35 40 45

Gly Ser Gly Gly Gly Gly
50

<210> 303
<211> 10
<212> PRT
<213> Secuencia artificial

<220>
<221> fuente
<223> /nota="Descripción de secuencia artificial: Péptido
sintético"

<400> 303
Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
1 5 10

<210> 304
<211> 15
<212> PRT
<213> Secuencia artificial

<220>
<221> fuente
<223> /nota="Descripción de secuencia artificial: Péptido
sintético"

<400> 304
Glu Pro Lys Ser Cys Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
1 5 10 15

<210> 305
<211> 16
<212> PRT
<213> Secuencia artificial

<220>
<221> fuente

<223> /nota="Descripción de secuencia artificial: Péptido
sintético"

<400> 305
Glu Pro Lys Ser Cys Asp Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
1 5 10 15

<210> 306
<211> 5
<212> PRT
<213> Secuencia artificial

<220>
<221> fuente
<223> /nota="Descripción de secuencia artificial: Marcador penta-His
sintético"

<400> 306
His His His His His
1 5

<210> 307
<211> 104
<212> PRT
<213> Secuencia artificial

<220>
<221> fuente
<223> /nota="Descripción de secuencia artificial: Polipéptido
sintético"

<400> 307
Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser Lys
1 5 10 15

Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr
20 25 30

Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser
35 40 45

Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser
50 55 60

Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr
65 70 75 80

Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys
85 90 95

Lys Val Glu Pro Lys Ser Cys Asp
100

<210> 308

<211> 692
<212> PRT
<213> Secuencia artificial

<220>
<221> fuente
<223> /nota="Descripción de secuencia artificial: Polipéptido sintético"

<400> 308

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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 Ser Tyr
            20                  25                  30

Tyr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
        35                  40                  45

Gly Ile Ile Asn Pro Ser Gly Gly Ser Thr Ser Tyr Ala Gln Lys Phe
    50                  55                  60

Gln Gly Arg Val Thr Met Thr His 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 Ser Phe Phe Thr Gly Phe His Leu Asp Tyr Trp Gly Gln Gly
            100                 105                 110

Thr Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe
        115                 120                 125

Pro Leu Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala Ala Leu
    130                 135                 140

Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp
145                 150                 155                 160

Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala Val Leu
                165                 170                 175

Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro Ser
            180                 185                 190

Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His Lys Pro
        195                 200                 205

Ser Asn Thr Lys Val Asp Lys Lys Val Glu Pro Lys Ser Cys Asp Gly
```

```
    210                 215                 220

Gly Gly Gly Ser Gly Gly Gly Gly Ser Glu Val Gln Leu Leu Glu Ser
225                 230                 235                 240

Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala
                245                 250                 255

Ala Ser Gly Phe Thr Phe Ser Thr Tyr Ala Met Asn Trp Val Arg Gln
            260                 265                 270

Ala Pro Gly Lys Gly Leu Glu Trp Val Ser Arg Ile Arg Ser Lys Tyr
        275                 280                 285

Asn Asn Tyr Ala Thr Tyr Tyr Ala Asp Ser Val Lys Gly Arg Phe Thr
    290                 295                 300

Ile Ser Arg Asp Asp Ser Lys Asn Thr Leu Tyr Leu Gln Met Asn Ser
305                 310                 315                 320

Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Val Arg His Gly Asn
                325                 330                 335

Phe Gly Asn Ser Tyr Val Ser Trp Phe Ala Tyr Trp Gly Gln Gly Thr
            340                 345                 350

Leu Val Thr Val Ser Ser Ala Ser Val Ala Ala Pro Ser Val Phe Ile
        355                 360                 365

Phe Pro Pro Ser Asp Glu Gln Leu Lys Ser Gly Thr Ala Ser Val Val
    370                 375                 380

Cys Leu Leu Asn Asn Phe Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys
385                 390                 395                 400

Val Asp Asn Ala Leu Gln Ser Gly Asn Ser Gln Glu Ser Val Thr Glu
                405                 410                 415

Gln Asp Ser Lys Asp Ser Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu
            420                 425                 430

Ser Lys Ala Asp Tyr Glu Lys His Lys Val Tyr Ala Cys Glu Val Thr
        435                 440                 445

His Gln Gly Leu Ser Ser Pro Val Thr Lys Ser Phe Asn Arg Gly Glu
    450                 455                 460
```

```
Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Ala Ala
465                 470                 475                 480

Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu
                485                 490                 495

Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser
            500                 505                 510

His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu
        515                 520                 525

Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr
    530                 535                 540

Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn
545                 550                 555                 560

Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Gly Ala Pro
                565                 570                 575

Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln
            580                 585                 590

Val Tyr Thr Leu Pro Pro Cys Arg Asp Glu Leu Thr Lys Asn Gln Val
        595                 600                 605

Ser Leu Trp Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val
    610                 615                 620

Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro
625                 630                 635                 640

Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr
                645                 650                 655

Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val
            660                 665                 670

Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu
        675                 680                 685

Ser Pro Gly Lys
    690
```

<210> 309
<211> 449
<212> PRT

<213> Secuencia artificial

<220>
<221> fuente
<223> /nota="Descripción de secuencia artificial: Polipéptido sintético"

<400> 309

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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 Ser Tyr
            20                  25                  30

Tyr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
        35                  40                  45

Gly Ile Ile Asn Pro Ser Gly Gly Ser Thr Ser Tyr Ala Gln Lys Phe
    50                  55                  60

Gln Gly Arg Val Thr Met Thr His 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 Ser Phe Phe Thr Gly Phe His Leu Asp Tyr Trp Gly Gln Gly
            100                 105                 110

Thr Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe
        115                 120                 125

Pro Leu Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala Ala Leu
    130                 135                 140

Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp
145                 150                 155                 160

Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala Val Leu
                165                 170                 175

Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro Ser
            180                 185                 190

Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His Lys Pro
        195                 200                 205

Ser Asn Thr Lys Val Asp Lys Lys Val Glu Pro Lys Ser Cys Asp Lys
    210                 215                 220
```

```
Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Ala Ala Gly Gly Pro
225                 230                 235                 240

Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser
                245                 250                 255

Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His Glu Asp
            260                 265                 270

Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn
        275                 280                 285

Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val
    290                 295                 300

Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu
305                 310                 315                 320

Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Gly Ala Pro Ile Glu Lys
                325                 330                 335

Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Cys Thr
            340                 345                 350

Leu Pro Pro Ser Arg Asp Glu Leu Thr Lys Asn Gln Val Ser Leu Ser
        355                 360                 365

Cys Ala Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu
    370                 375                 380

Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu
385                 390                 395                 400

Asp Ser Asp Gly Ser Phe Phe Leu Val Ser Lys Leu Thr Val Asp Lys
                405                 410                 415

Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu
            420                 425                 430

Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly
        435                 440                 445

Lys
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<210> 310
<211> 216

<212> PRT
<213> Secuencia artificial

<220>
<221> fuente
<223> /nota="Descripción de secuencia artificial: Polipéptido
sintético"

<220>
<221> MOD_RES
<222> (201)..(201)
<223> Cualquier aminoácido

<400> 310

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Glu Ile Val Leu Thr Gln Ser Pro Gly Thr Leu Ser Leu Ser Pro Gly
1               5                  10                  15

Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Ser Ser Ser
            20                  25                  30

Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu
        35                  40                  45

Ile Tyr Gly Ala Ser Ser Arg Ala Thr Gly Ile Pro Asp Arg Phe Ser
    50                  55                  60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Arg Leu Glu
65                  70                  75                  80

Pro Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Thr Asn Glu His
                85                  90                  95

Tyr Tyr Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg Thr Val
            100                 105                 110

Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu Lys
        115                 120                 125

Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro Arg
    130                 135                 140

Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly Asn
145                 150                 155                 160

Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr Ser
                165                 170                 175

Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys His Lys
            180                 185                 190
```

Val Tyr Ala Cys Glu Val Thr His Xaa Gly Leu Ser Ser Pro Val Thr
        195   200   205

Lys Ser Phe Asn Arg Gly Glu Cys
    210   215

<210> 311
<211> 7
<212> PRT
<213> Secuencia artificial

<220>
<221> fuente
<223> /nota="Descripción de secuencia artificial: Péptido
      sintético"

<400> 311
Gly Thr Asn Ala Arg Ala Pro
1   5

<210> 312
<211> 9
<212> PRT
<213> Secuencia artificial

<220>
<221> fuente
<223> /nota="Descripción de secuencia artificial: Péptido
      sintético"

<400> 312
Ala Leu Trp Tyr Ala Asn Leu Trp Val
1   5

<210> 313
<211> 5
<212> PRT
<213> Secuencia artificial

<220>
<221> fuente
<223> /nota="Descripción de secuencia artificial: Péptido
      sintético"

<400> 313
Asn Ala Trp Met His
1   5

<210> 314
<211> 19
<212> PRT
<213> Secuencia artificial

<220>
<221> fuente
<223> /nota="Descripción de secuencia artificial: Péptido
      sintético"

<400> 314
Ser Ile Lys Ser Lys Thr Asp Gly Gly Thr Thr Asp Tyr Ala Ala Pro
1   5   10   15

Val Lys Gly

<210> 315
<211> 9
<212> PRT
<213> Secuencia artificial

<220>
<221> fuente
<223> /nota="Descripción de secuencia artificial: Péptido
      sintético"

<400> 315
Pro Tyr Glu Trp Ser Trp Tyr Asp Tyr
1   5

<210> 316
<211> 218
<212> PRT
<213> Secuencia artificial

<220>
<221> fuente
<223> /nota="Descripción de secuencia artificial: Polipéptido
      sintético"

<400> 316
Asp Ile Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro Gly
1   5   10   15

Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu His Ser
            20   25   30

Asn Gly Tyr Asn Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln Ser
        35   40   45

Pro Gln Leu Leu Ile Tyr Leu Gly Ser Asn Arg Ala Ser Gly Val Pro
    50   55   60

Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile
65   70   75   80

Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln Ala
                85   90   95

Arg Gln Thr Pro Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg
            100   105   110

```
Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Arg Lys
        115                 120                 125

Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr
    130                 135                 140

Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser
145                 150                 155                 160

Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr
                165                 170                 175

Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys
            180                 185                 190

His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro
        195                 200                 205

Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
    210                 215
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Industria y Comercio
SUPERINTENDENCIA

Trámite: 11
Evento: 378
Actuación: 851

DIRECCIÓN DE NUEVAS CREACIONES
CONVERSIÓN, DIVISIÓN Y FUSIÓN DE SOLICITUDES

1. Identificación del Tramite

[ ] Conversión [X] División [ ] Fusión

[X] Patente de Invención
[ ] Patente de Modelo de Utilidad

2. Datos del solicitante

[ ] Persona Natural [X] Persona Juridica

F. HOFFMANN-LA ROCHE AG
Nombre o denominación / Nombre o razón social

ALICIA LLOREDA RICAURTE
Nombre del representante legal

Tipo de empresa [ ] Micro [ ] Pequeña [ ] Mediana [X] Otra

Documento de Identificación [X] C.C. [ ] C.E. [ ] NIT [ ] Otro Número **C.C. 39.690.713**

Nacionalidad/País de constitución	Dirección del titular	Ciudad
Suiza	Grenzacherstrasse 124, CH-4070 Basilea, Suiza.	Basilea
Dirección electrónica	**No. Fax**	**Número telefónico**
notificacionespatentes@lloredacamacho.com	6069701	3264270

[X] **Autorizo expresamente a la Superintendencia de Industria y Comercio para que todas las comunicaciones sean enviadas a través de la dirección de correo electrónico**

3. Datos del apoderado:

LLOREDA RICAURTE ALICIA	**C.C. 39.690.713**	**53.215**
Apellidos y Nombre	Documento de identificación	Tarjeta profesional

Dirección y domicilio	Dirección del titular	Ciudad
Calle 72 No. 5-83 Piso 5º		Bogotá D.C.
Dirección electrónica	**No. Fax**	**Número telefónico**
notificacionespatentes@lloredacamacho.com	6069701	3264270

En caso de haber presentado poder general para asuntos que se adelanten ante la Delegatura de Propiedad Industrial, sírvase indicar el número de su radicación o protocolo de poder general _____

4. Datos del trámite:

CONVERSION	DIVISION	FUSION
Expediente No.	Expediente No. **NC2017/0003048**	Expediente No.
De:	No. de divisionales **1**	Expediente No.
A:		

5. Comprobante de Pago No El pago se realizó por medio de la plataforma SIPI **(10-07-18)** **Fecha** **10** **7** **2018**

6. Anexos

X	Comprobante de pago de la tasa para la presentación de la corrección y/o modificación
X	Poder, si fuere el caso con el que se acredita la representación
	Número de documento que ordena la comisión o fusión o división
X	Documento que contiene la conversión, división o fusión de la solicitud
	Copia de la solicitud y sus anexos en formato magnético

7. Firma

ALICIA LLOREDA RICAURTE — Nombre y apellidos


Firma

C.C. 39.690.713 de Usaquén — C.C.

53.215 — Tarjeta Profesional

Señor
SUPERINTENDENTE DE INDUSTRIA Y COMERCIO
DIVISIÓN DE NUEVAS CREACIONES
E. S. D.

Re: PI.-**F. HOFFMANN-LA ROCHE AG**.-Solicitud de Patente de Invención en Fase Nacional PCT para "**MOLECULAS DE UNIÓN A ANTÍGENO BIESPECÍFICAS ACTIVADORAS DE CÉLULAS T QUE SE UNEN A CD3 Y AL RECEPTOR 1 DE FOLATO (FOLR1)**".-Clase **C07K 16/28**.-Expediente número **NC2017/0003048A**.-

1. Me refiero a mi memorial de respuesta a Concepto Técnico presentado hoy 10 de julio de 2018.

2. **PRESENTACIÓN DE SOLICITUD DIVISIONAL.**

2.1. Inicialmente y de conformidad con el Artículo 36 de la Decisión Andina 486 de 2000, el Artículo 7 del Decreto 2591 de 13 de Diciembre de 2000 y el Artículo 11 de la Resolución número 00210 de 15 de Enero de 2001, y los numerales 1.2.2.3.2 y 1.2.2.3.2.1 del Artículo 1 de la Resolución No. 3719 de 2016, me permito manifestar que es deseo del solicitante dividir la presente solicitud de patente en dos (2) solicitudes, a saber:

- Una **solicitud original** con un **nuevo capítulo reivindicatorio** compuesto por **25 reivindicaciones**, el cual encuentra sustento en los capítulos descriptivo y reivindicatorio actualmente presentados a este Despacho con la presente solicitud número **NC2017/0003048**.

- Una **solicitud divisional** que presenta un **nuevo capítulo reivindicatorio** constituido por **23 reivindicaciones**, el cual encuentra sustento en el capítulo reivindicatorio presentado el 22 de junio de 2017 como respuesta al auto N° 5811 emitido para la solicitud número **NC2017/0003048**.

A continuación especifico, de manera detallada, la división de materia en cada una de las solicitudes anteriormente mencionadas:

a) ***<u>Capítulo reivindicatorio de la solicitud original</u>*** **<u>No. NC2017/0003048:</u>** ***"MOLÉCULAS DE UNIÓN A ANTÍGENO BIESPECÍFICAS ACTIVADORAS DE CÉLULAS T QUE SE UNEN A CD3 Y AL RECEPTOR 1 DE FOLATO (FOLR1)".***

Con base en lo anteriormente mencionado, la solicitud original ahora cuenta con un **capítulo reivindicatorio modificado** compuesto por **25 reivindicaciones**, las cuales corresponden al capítulo reivindicatorio presentado junto con la respuesta al Oficio No. 4226.

b) ***<u>Capítulo reivindicatorio de la solicitud divisional</u>***<u>:</u> **"MOLÉCULAS DE UNIÓN A ANTÍGENO BIESPECÍFICAS ACTIVADORAS DE CÉLULAS T QUE SE UNEN A CD3 Y AL RECEPTOR 1 DE FOLATO (FOLR1)".**

La solicitud divisional cuenta con un **capítulo reivindicatorio** compuesto por **23 reivindicaciones**, las cuales corresponden a un concepto inventivo único.

En relación con lo anterior, y siguiendo la sugerencia de la Señora Examinadora, me permito reiterar que los capítulos reivindicatorios tanto de la solicitud original como de la nueva solicitud divisional cuentan con pleno sustento en la descripción de la solicitud en estudio, y se refieren a: solicitud parental, anticuerpos denominados en la descripción como 9D11, y solicitud divisional, anticuerpos denominados en la descripción como 16D5, los cuales no constituyen de ninguna manera una ampliación al alcance de la invención.

En relación con lo anterior, me permito reiterar que los capítulos reivindicatorios tanto de la solicitud original como de la nueva solicitud divisional cuentan con pleno sustento en la descripción de la solicitud en estudio, y no constituyen de ninguna manera una ampliación al alcance de la invención.

A continuación, anexo los documentos relacionados con la solicitud de divisional aquí presentada:

i) Solicitud divisional: "MOLÉCULAS DE UNIÓN A ANTÍGENO BIESPECÍFICAS ACTIVADORAS DE CÉLULAS T QUE SE UNEN A CD3 Y AL RECEPTOR 1 DE FOLATO (FOLR1)".

a) Me permito mencionar que los respectivos pagos por **(i)** los derechos que causa el presente fraccionamiento, **(ii)** la tasa que corresponde a las reivindicaciones adicionales **11** a **23**, **y (iii)** el examen de patentabilidad para el estudio de la divisional, se efectuaron a través de la plataforma SIPI el día de hoy;

b) Resumen-objeto y finalidad de la invención;

c) Páginas **1** a **303** el texto de la descripción que corresponden al originalmente presentado en la solicitud No. NC2017/0003048;

d) Páginas **304** a **308** del capítulo reivindicatorio compuesto por **23 reivindicaciones**, las cuales encuentran sustento en las enseñanzas de la descripción y en el capítulo reivindicatorio originalmente presentado;

e) Figuras;

f) Listado de secuencias;

g) Copia del documento que acredita a la suscrita ALICIA LLOREDA, y/o al doctor GUSTAVO TAMAYO y/o al doctor IGNACIO SANTAMARIA y/o al doctor ENRIQUE ALVAREZ, en los términos del Párrafo 1º del Artículo 543 del Decreto-Ley 410 de 1971, como Representantes Legales en Bogotá para todos los asuntos relacionados con la Propiedad Industrial de F. HOFFMANN-LA ROCHE AG domiciliada en Basilea, Suiza; y

h) Formato Único de Conversión, División y Fusión de Solicitudes.

ii) Por otro lado, dado que la fecha de presentación de las solicitudes resultantes del presente fraccionamiento es la misma –29 de marzo de 2017-, atentamente solicito a usted se sirva reconocer esta fecha. Adicionalmente, la Clasificación Internacional, acorde con el objeto de las dichas solicitudes resultantes, es: **C07K 16/28.**

iii) En cuanto a la reivindicación de las prioridades respecto a la solicitud divisional, es la misma invocada en la solicitud original, las cuales fueron reivindicadas oportunamente en Fase Internacional y corresponden a las solicitudes número **EP 14194147.6** de **20 de noviembre de 2014.**

iv) Así mismo, reitero a usted que los documentos que acreditan mi calidad de Representante Legal de dicha sociedad para todos los asuntos de la Propiedad Industrial, fue presentado junto con el radicado de la presente solicitud el día **29 de marzo de 2017**.

De conformidad con lo establecido por el artículo 36 de la Decisión Andina 486/2000, solicito a ese Despacho se sirva aceptar y estudiar la solicitud divisional presentada y conceder el privilegio de patente solicitado.

Señor Superintendente,

ALICIA LLOREDA RICAURTE

T.P. 53.215