

SECUENCIAS
LISTA DE SECUENCIAS

<110> EISAI R&D MANAGEMENT CO., LTD.

<120> Anticuerpo anti-EphA4 humano

<130> ESAP1901F

<150> JP2019-122982

<151> 2019-07-01

<160> 62

<170> PatentIn versión 3.5

<210> 1

<211> 986

<212> PRT

<213> Mus musculus

<400> 1

Met Ala Gly Ile Phe Tyr Phe Ile Leu Phe Ser Phe Leu Phe Gly Ile
1 5 10 15

Cys Asp Ala Val Thr Gly Ser Arg Val Tyr Pro Ala Asn Glu Val Thr
20 25 30

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

Pro Leu Glu Gly Gly Trp Glu Glu Val Ser Ile Met Asp Glu Lys Asn
50 55 60

Thr Pro Ile Arg Thr Tyr Gln Val Cys Asn Val Met Glu Ala Ser Gln
65 70 75 80

Asn Asn Trp Leu Arg Thr Asp Trp Ile Thr Arg Glu Gly Ala Gln Arg
85 90 95

Val Tyr Ile Glu Ile Lys Phe Thr Leu Arg Asp Cys Asn Ser Leu Pro
100 105 110

Gly Val Met Gly Thr Cys Lys Glu Thr Phe Asn Leu Tyr Tyr Tyr Glu
115 120 125

Ser Asp Asn Asp Lys Glu Arg Phe Ile Arg Glu Ser Gln Phe Gly Lys
130 135 140

Ile Asp Thr Ile Ala Ala Asp Glu Ser Phe Thr Gln Val Asp Ile Gly
145 150 155 160

Asp Arg Ile Met Lys Leu Asn Thr Glu Ile Arg Asp Val Gly Pro Leu
165 170 175

Ser Lys Lys Gly Phe Tyr Leu Ala Phe Gln Asp Val Gly Ala Cys Ile
180 185 190

SECUENCIAS

Ala Leu Val Ser Val Arg Val Phe Tyr Lys Lys Cys Pro Leu Thr Val
195 200 205

Arg Asn Leu Ala Gln Phe Pro Asp Thr Ile Thr Gly Ala Asp Thr Ser
210 215 220

Ser Leu Val Glu Val Arg Gly Ser Cys Val Asn Asn Ser Glu Glu Lys
225 230 235 240

Asp Val Pro Lys Met Tyr Cys Gly Ala Asp Gly Glu Trp Leu Val Pro
245 250 255

Ile Gly Asn Cys Leu Cys Asn Ala Gly His Glu Glu Gln Asn Gly Glu
260 265 270

Cys Gln Ala Cys Lys Ile Gly Tyr Tyr Lys Ala Leu Ser Thr Asp Ala
275 280 285

Ser Cys Ala Lys Cys Pro Pro His Ser Tyr Ser Val Trp Glu Gly Ala
290 295 300

Thr Ser Cys Thr Cys Asp Arg Gly Phe Phe Arg Ala Asp Asn Asp Ala
305 310 315 320

Ala Ser Met Pro Cys Thr Arg Pro Pro Ser Ala Pro Leu Asn Leu Ile
325 330 335

Ser Asn Val Asn Glu Thr Ser Val Asn Leu Glu Trp Ser Ser Pro Gln
340 345 350

Asn Thr Gly Gly Arg Gln Asp Ile Ser Tyr Asn Val Val Cys Lys Lys
355 360 365

Cys Gly Ala Gly Asp Pro Ser Lys Cys Arg Pro Cys Gly Ser Gly Val
370 375 380

His Tyr Thr Pro Gln Gln Asn Gly Leu Lys Thr Thr Arg Val Ser Ile
385 390 395 400

Thr Asp Leu Leu Ala His Thr Asn Tyr Thr Phe Glu Ile Trp Ala Val
405 410 415

Asn Gly Val Ser Lys Tyr Asn Pro Ser Pro Asp Gln Ser Val Ser Val
420 425 430

Thr Val Thr Thr Asn Gln Ala Ala Pro Ser Ser Ile Ala Leu Val Gln
435 440 445

Ala Lys Glu Val Thr Arg Tyr Ser Val Ala Leu Ala Trp Leu Glu Pro
450 455 460

SECUENCIAS

Asp Arg Pro Asn Gly Val Ile Leu Glu Tyr Glu Val Lys Tyr Tyr Glu
465 470 475 480

Lys Asp Gln Asn Glu Arg Ser Tyr Arg Ile Val Arg Thr Ala Ala Arg
485 490 495

Asn Thr Asp Ile Lys Gly Leu Asn Pro Leu Thr Ser Tyr Val Phe His
500 505 510

Val Arg Ala Arg Thr Ala Ala Gly Tyr Gly Asp Phe Ser Glu Pro Leu
515 520 525

Glu Val Thr Thr Asn Thr Val Pro Ser Arg Ile Ile Gly Asp Gly Ala
530 535 540

Asn Ser Thr Val Leu Leu Val Ser Val Ser Gly Ser Val Val Leu Val
545 550 555 560

Val Ile Leu Ile Ala Ala Phe Val Ile Ser Arg Arg Arg Ser Lys Tyr
565 570 575

Ser Lys Ala Lys Gln Glu Ala Asp Glu Glu Lys His Leu Asn Gln Gly
580 585 590

Val Arg Thr Tyr Val Asp Pro Phe Thr Tyr Glu Asp Pro Asn Gln Ala
595 600 605

Val Arg Glu Phe Ala Lys Glu Ile Asp Ala Ser Cys Ile Lys Ile Glu
610 615 620

Lys Val Ile Gly Val Gly Glu Phe Gly Glu Val Cys Ser Gly Arg Leu
625 630 635 640

Lys Val Pro Gly Lys Arg Glu Ile Cys Val Ala Ile Lys Thr Leu Lys
645 650 655

Ala Gly Tyr Thr Asp Lys Gln Arg Arg Asp Phe Leu Ser Glu Ala Ser
660 665 670

Ile Met Gly Gln Phe Asp His Pro Asn Ile Ile His Leu Glu Gly Val
675 680 685

Val Thr Lys Cys Lys Pro Val Met Ile Ile Thr Glu Tyr Met Glu Asn
690 695 700

Gly Ser Leu Asp Ala Phe Leu Arg Lys Asn Asp Gly Arg Phe Thr Val
705 710 715 720

Ile Gln Leu Val Gly Met Leu Arg Gly Ile Gly Ser Gly Met Lys Tyr
725 730 735

Leu Ser Asp Met Ser Tyr Val His Arg Asp Leu Ala Ala Arg Asn Ile
Página 3

SECUENCIAS

740

745

750

Leu Val Asn Ser Asn Leu Val Cys Lys Val Ser Asp Phe Gly Met Ser
755 760 765

Arg Val Leu Glu Asp Asp Pro Glu Ala Ala Tyr Thr Thr Arg Gly Gly
770 775 780

Lys Ile Pro Ile Arg Trp Thr Ala Pro Glu Ala Ile Ala Tyr Arg Lys
785 790 795 800

Phe Thr Ser Ala Ser Asp Val Trp Ser Tyr Gly Ile Val Met Trp Glu
805 810 815

Val Met Ser Tyr Gly Glu Arg Pro Tyr Trp Asp Met Ser Asn Gln Asp
820 825 830

Val Ile Lys Ala Ile Glu Glu Gly Tyr Arg Leu Pro Pro Pro Met Asp
835 840 845

Cys Pro Ile Ala Leu His Gln Leu Met Leu Asp Cys Trp Gln Lys Glu
850 855 860

Arg Ser Asp Arg Pro Lys Phe Gly Gln Ile Val Asn Met Leu Asp Lys
865 870 875 880

Leu Ile Arg Asn Pro Asn Ser Leu Lys Arg Thr Gly Ser Glu Ser Ser
885 890 895

Arg Pro Asn Thr Ala Leu Leu Asp Pro Ser Ser Pro Glu Phe Ser Ala
900 905 910

Val Val Ser Val Gly Asp Trp Leu Gln Ala Ile Lys Met Asp Arg Tyr
915 920 925

Lys Asp Asn Phe Thr Ala Ala Gly Tyr Thr Thr Leu Glu Ala Val Val
930 935 940

His Met Ser Gln Asp Asp Leu Ala Arg Ile Gly Ile Thr Ala Ile Thr
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His Gln Asn Lys Ile Leu Ser Ser Val Gln Ala Met Arg Thr Gln Met
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Gln Gln Met His Gly Arg Met Val Pro Val
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<211> 528
<212> PRT
<213> Mus musculus

<400> 2

SECUENCIAS

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

Arg Thr Tyr Gln Val Cys Asn Val Met Glu Ala Ser Gln Asn Asn Trp
50 55 60

Leu Arg Thr Asp Trp Ile Thr Arg Glu Gly Ala Gln Arg Val Tyr Ile
65 70 75 80

Glu Ile Lys Phe Thr Leu Arg Asp Cys Asn Ser Leu Pro Gly Val Met
85 90 95

Gly Thr Cys Lys Glu Thr Phe Asn Leu Tyr Tyr Tyr Glu Ser Asp Asn
100 105 110

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

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

Met Lys Leu Asn Thr Glu Ile Arg Asp Val Gly Pro Leu Ser Lys Lys
145 150 155 160

Gly Phe Tyr Leu Ala Phe Gln Asp Val Gly Ala Cys Ile Ala Leu Val
165 170 175

Ser Val Arg Val Phe Tyr Lys Lys Cys Pro Leu Thr Val Arg Asn Leu
180 185 190

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

Glu Val Arg Gly Ser Cys Val Asn Asn Ser Glu Glu Lys Asp Val Pro
210 215 220

Lys Met Tyr Cys Gly Ala Asp Gly Glu Trp Leu Val Pro Ile Gly Asn
225 230 235 240

Cys Leu Cys Asn Ala Gly His Glu Glu Gln Asn Gly Glu Cys Gln Ala
245 250 255

Cys Lys Ile Gly Tyr Tyr Lys Ala Leu Ser Thr Asp Ala Ser Cys Ala
260 265 270

SECUENCIAS

Lys Cys Pro 275 Pro His Ser Tyr Ser 280 Val Trp Glu Gly Ala 285 Thr Ser Cys

Thr Cys 290 Asp Arg Gly Phe 295 Phe Arg Ala Asp Asn 300 Asp Ala Ala Ser Met

Pro Cys Thr Arg Pro 310 Pro Ser Ala Pro Leu Asn 315 Leu Ile Ser Asn Val 320

Asn Glu Thr Ser 325 Val Asn Leu Glu Trp 330 Ser Ser Pro Gln Asn Thr 335 Gly

Gly Arg Gln Asp 340 Ile Ser Tyr Asn 345 Val Val Cys Lys Lys Cys 350 Gly Ala

Gly Asp Pro 355 Ser Lys Cys Arg Pro 360 Cys Gly Ser Gly Val 365 His Tyr Thr

Pro Gln 370 Gln Asn Gly Leu Lys 375 Thr Thr Arg Val Ser 380 Ile Thr Asp Leu

Leu 385 Ala His Thr Asn 390 Tyr Thr Phe Glu Ile Trp 395 Ala Val Asn Gly Val 400

Ser Lys Tyr Asn 405 Pro Ser Pro Asp Gln Ser 410 Val Ser Val Thr Val 415 Thr

Thr Asn Gln 420 Ala Ala Pro Ser Ser 425 Ile Ala Leu Val Gln 430 Ala Lys Glu

Val Thr Arg 435 Tyr Ser Val Ala 440 Leu Ala Trp Leu Glu Pro 445 Asp Arg Pro

Asn Gly 450 Val Ile Leu Glu 455 Tyr Glu Val Lys Tyr 460 Tyr Glu Lys Asp Gln

Asn Glu Arg Ser Tyr 470 Arg Ile Val Arg Thr 475 Ala Ala Arg Asn Thr 480 Asp

Ile Lys Gly Leu 485 Asn Pro Leu Thr Ser 490 Tyr Val Phe His Val 495 Arg Ala

Arg Thr Ala 500 Ala Gly Tyr Gly Asp 505 Phe Ser Glu Pro Leu 510 Glu Val Thr

Thr Asn Thr 515 Val Pro Ser Arg 520 Ile Ile Gly Asp Gly 525 Ala Asn Ser Thr

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<213> Secuencia artificial

SECUENCIAS

<220>

<223> Polipéptido sintético

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Val Thr Gly Ser Arg Val Tyr Pro Ala Asn Glu Val Thr Leu Leu Asp
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Ser Arg Ser Val Gln Gly Glu Leu Gly Trp Ile Ala Ser Pro Leu Glu
20 25 30

Gly Gly Trp Glu Glu Val Ser Ile Met Asp Glu Lys Asn Thr Pro Ile
35 40 45

Arg Thr Tyr Gln Val Cys Asn Val Met Glu Ala Ser Gln Asn Asn Trp
50 55 60

Leu Arg Thr Asp Trp Ile Thr Arg Glu Gly Ala Gln Arg Val Tyr Ile
65 70 75 80

Glu Ile Lys Phe Thr Leu Arg Asp Cys Asn Ser Leu Pro Gly Val Met
85 90 95

Gly Thr Cys Lys Glu Thr Phe Asn Leu Tyr Tyr Tyr Glu Ser Asp Asn
100 105 110

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

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

Met Lys Leu Asn Thr Glu Ile Arg Asp Val Gly Pro Leu Ser Lys Lys
145 150 155 160

Gly Phe Tyr Leu Ala Phe Gln Asp Val Gly Ala Cys Ile Ala Leu Val
165 170 175

Ser Val Arg Val Phe Tyr Lys Lys Cys Pro Leu Thr Val Arg Asn Leu
180 185 190

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

Glu Val Arg Gly Ser Cys Val Asn Asn Ser Glu Glu Lys Asp Val Pro
210 215 220

Lys Met Tyr Cys Gly Ala Asp Gly Glu Trp Leu Val Pro Ile Gly Asn
225 230 235 240

Cys Leu Cys Asn Ala Gly His Glu Glu Gln Asn Gly Glu Cys Gln Ala
245 250 255

SECUENCIAS

Cys Lys Ile Gly Tyr Tyr Lys Ala Leu Ser Thr Asp Ala Ser Cys Ala
260 265 270

Lys Cys Pro Pro His Ser Tyr Ser Val Trp Glu Gly Ala Thr Ser Cys
275 280 285

Thr Cys Asp Arg Gly Phe Phe Arg Ala Asp Asn Asp Ala Ala Ser Met
290 295 300

Pro Cys Thr Arg Pro Pro Ser Ala Pro Leu Asn Leu Ile Ser Asn Val
305 310 315 320

Asn Glu Thr Ser Val Asn Leu Glu Trp Ser Ser Pro Gln Asn Thr Gly
325 330 335

Gly Arg Gln Asp Ile Ser Tyr Asn Val Val Cys Lys Lys Cys Gly Ala
340 345 350

Gly Asp Pro Ser Lys Cys Arg Pro Cys Gly Ser Gly Val His Tyr Thr
355 360 365

Pro Gln Gln Asn Gly Leu Lys Thr Thr Arg Val Ser Ile Thr Asp Leu
370 375 380

Leu Ala His Thr Asn Tyr Thr Phe Glu Ile Trp Ala Val Asn Gly Val
385 390 395 400

Ser Lys Tyr Asn Pro Ser Pro Asp Gln Ser Val Ser Val Thr Val Thr
405 410 415

Thr Asn Gln Ala Ala Pro Ser Ser Ile Ala Leu Val Gln Ala Lys Glu
420 425 430

Val Thr Arg Tyr Ser Val Ala Leu Ala Trp Leu Glu Pro Asp Arg Pro
435 440 445

Asn Gly Val Ile Leu Glu Tyr Glu Val Lys Tyr Tyr Glu Lys Asp Gln
450 455 460

Asn Glu Arg Ser Tyr Arg Ile Val Arg Thr Ala Ala Arg Asn Thr Asp
465 470 475 480

Ile Lys Gly Leu Asn Pro Leu Thr Ser Tyr Val Phe His Val Arg Ala
485 490 495

Arg Thr Ala Ala Gly Tyr Gly Asp Phe Ser Glu Pro Leu Glu Val Thr
500 505 510

Thr Asn Thr Val Pro Ser Arg Ile Ile Gly Asp Gly Ala Asn Ser Thr
515 520 525

Ala Ala Ala Ile Ile Pro Val Glu Glu Glu Asn Pro Asp Phe Trp Asn

SECUENCIAS

530

535

540

Arg Glu Ala Ala Glu Ala Leu Gly Ala Ala Lys Lys Leu Gln Pro Ala
545 550 555 560

Gln Thr Ala Ala Lys Asn Leu Ile Ile Phe Leu Gly Asp Gly Met Gly
565 570 575

Val Ser Thr Val Thr Ala Ala Arg Ile Leu Lys Gly Gln Lys Lys Asp
580 585 590

Lys Leu Gly Pro Glu Ile Pro Leu Ala Met Asp Arg Phe Pro Tyr Val
595 600 605

Ala Leu Ser Lys Thr Tyr Asn Val Asp Lys His Val Pro Asp Ser Gly
610 615 620

Ala Thr Ala Thr Ala Tyr Leu Cys Gly Val Lys Gly Asn Phe Gln Thr
625 630 635 640

Ile Gly Leu Ser Ala Ala Ala Arg Phe Asn Gln Cys Asn Thr Thr Arg
645 650 655

Gly Asn Glu Val Ile Ser Val Met Asn Arg Ala Lys Lys Ala Gly Lys
660 665 670

Ser Val Gly Val Val Thr Thr Thr Arg Val Gln His Ala Ser Pro Ala
675 680 685

Gly Thr Tyr Ala His Thr Val Asn Arg Asn Trp Tyr Ser Asp Ala Asp
690 695 700

Val Pro Ala Ser Ala Arg Gln Glu Gly Cys Gln Asp Ile Ala Thr Gln
705 710 715 720

Leu Ile Ser Asn Met Asp Ile Asp Val Ile Leu Gly Gly Gly Arg Lys
725 730 735

Tyr Met Phe Arg Met Gly Thr Pro Asp Pro Glu Tyr Pro Asp Asp Tyr
740 745 750

Ser Gln Gly Gly Thr Arg Leu Asp Gly Lys Asn Leu Val Gln Glu Trp
755 760 765

Leu Ala Lys Arg Gln Gly Ala Arg Tyr Val Trp Asn Arg Thr Glu Leu
770 775 780

Met Gln Ala Ser Leu Asp Pro Ser Val Thr His Leu Met Gly Leu Phe
785 790 795 800

Glu Pro Gly Asp Met Lys Tyr Glu Ile His Arg Asp Ser Thr Leu Asp
805 810 815

SECUENCIAS

Pro Ser Leu Met Glu Met Thr Glu Ala Ala Leu Arg Leu Leu Ser Arg
820 825 830

Asn Pro Arg Gly Phe Phe Leu Phe Val Glu Gly Gly Arg Ile Asp His
835 840 845

Gly His His Glu Ser Arg Ala Tyr Arg Ala Leu Thr Glu Thr Ile Met
850 855 860

Phe Asp Asp Ala Ile Glu Arg Ala Gly Gln Leu Thr Ser Glu Glu Asp
865 870 875 880

Thr Leu Ser Leu Val Thr Ala Asp His Ser His Val Phe Ser Phe Gly
885 890 895

Gly Tyr Pro Leu Arg Gly Ser Ser Ile Phe Gly Leu Ala Pro Gly Lys
900 905 910

Ala Arg Asp Arg Lys Ala Tyr Thr Val Leu Leu Tyr Gly Asn Gly Pro
915 920 925

Gly Tyr Val Leu Lys Asp Gly Ala Arg Pro Asp Val Thr Glu Ser Glu
930 935 940

Ser Gly Ser Pro Glu Tyr Arg Gln Gln Ser Ala Val Pro Leu Asp Glu
945 950 955 960

Glu Thr His Ala Gly Glu Asp Val Ala Val Phe Ala Arg Gly Pro Gln
965 970 975

Ala His Leu Val His Gly Val Gln Glu Gln Thr Phe Ile Ala His Val
980 985 990

Met Ala Phe Ala Ala Cys Leu Glu Pro Tyr Thr Ala Cys Asp Leu Ala
995 1000 1005

Pro Pro Ala Gly Thr Thr Asp Ala Ala His Pro Gly His His His
1010 1015 1020

His His His His His His His
1025 1030

<210> 4
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<212> PRT
<213> Mus musculus

<400> 4

Met Ala Gly Ile Phe Tyr Phe Ile Leu Phe Ser Phe Leu Phe Gly Ile
1 5 10 15

SECUENCIAS

Cys Asp Ala

<210> 5
 <211> 986
 <212> PRT
 <213> Homo sapiens

<400> 5

Met Ala Gly Ile Phe Tyr Phe Ala Leu Phe Ser Cys Leu Phe Gly Ile
 1 5 10 15

Cys Asp Ala Val Thr Gly Ser Arg Val Tyr Pro Ala Asn Glu Val Thr
 20 25 30

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

Pro Leu Glu Gly Gly Trp Glu Glu Val Ser Ile Met Asp Glu Lys Asn
 50 55 60

Thr Pro Ile Arg Thr Tyr Gln Val Cys Asn Val Met Glu Pro Ser Gln
 65 70 75 80

Asn Asn Trp Leu Arg Thr Asp Trp Ile Thr Arg Glu Gly Ala Gln Arg
 85 90 95

Val Tyr Ile Glu Ile Lys Phe Thr Leu Arg Asp Cys Asn Ser Leu Pro
 100 105 110

Gly Val Met Gly Thr Cys Lys Glu Thr Phe Asn Leu Tyr Tyr Tyr Glu
 115 120 125

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

Ile Asp Thr Ile Ala Ala Asp Glu Ser Phe Thr Gln Val Asp Ile Gly
 145 150 155 160

Asp Arg Ile Met Lys Leu Asn Thr Glu Ile Arg Asp Val Gly Pro Leu
 165 170 175

Ser Lys Lys Gly Phe Tyr Leu Ala Phe Gln Asp Val Gly Ala Cys Ile
 180 185 190

Ala Leu Val Ser Val Arg Val Phe Tyr Lys Lys Cys Pro Leu Thr Val
 195 200 205

Arg Asn Leu Ala Gln Phe Pro Asp Thr Ile Thr Gly Ala Asp Thr Ser
 210 215 220

Ser Leu Val Glu Val Arg Gly Ser Cys Val Asn Asn Ser Glu Glu Lys
 225 230 235 240

SECUENCIAS

Asp Val Pro Lys Met Tyr Cys Gly Ala Asp Gly Glu Trp Leu Val Pro
 245 250 255
 Ile Gly Asn Cys Leu Cys Asn Ala Gly His Glu Glu Arg Ser Gly Glu
 260 265 270
 Cys Gln Ala Cys Lys Ile Gly Tyr Tyr Lys Ala Leu Ser Thr Asp Ala
 275 280 285
 Thr Cys Ala Lys Cys Pro Pro His Ser Tyr Ser Val Trp Glu Gly Ala
 290 295 300
 Thr Ser Cys Thr Cys Asp Arg Gly Phe Phe Arg Ala Asp Asn Asp Ala
 305 310 315 320
 Ala Ser Met Pro Cys Thr Arg Pro Pro Ser Ala Pro Leu Asn Leu Ile
 325 330 335
 Ser Asn Val Asn Glu Thr Ser Val Asn Leu Glu Trp Ser Ser Pro Gln
 340 345 350
 Asn Thr Gly Gly Arg Gln Asp Ile Ser Tyr Asn Val Val Cys Lys Lys
 355 360 365
 Cys Gly Ala Gly Asp Pro Ser Lys Cys Arg Pro Cys Gly Ser Gly Val
 370 375 380
 His Tyr Thr Pro Gln Gln Asn Gly Leu Lys Thr Thr Lys Val Ser Ile
 385 390 395 400
 Thr Asp Leu Leu Ala His Thr Asn Tyr Thr Phe Glu Ile Trp Ala Val
 405 410 415
 Asn Gly Val Ser Lys Tyr Asn Pro Asn Pro Asp Gln Ser Val Ser Val
 420 425 430
 Thr Val Thr Thr Asn Gln Ala Ala Pro Ser Ser Ile Ala Leu Val Gln
 435 440 445
 Ala Lys Glu Val Thr Arg Tyr Ser Val Ala Leu Ala Trp Leu Glu Pro
 450 455 460
 Asp Arg Pro Asn Gly Val Ile Leu Glu Tyr Glu Val Lys Tyr Tyr Glu
 465 470 475 480
 Lys Asp Gln Asn Glu Arg Ser Tyr Arg Ile Val Arg Thr Ala Ala Arg
 485 490 495
 Asn Thr Asp Ile Lys Gly Leu Asn Pro Leu Thr Ser Tyr Val Phe His
 500 505 510

SECUENCIAS

Val Arg Ala Arg Thr Ala Ala Gly Tyr Gly Asp Phe Ser Glu Pro Leu
515 520 525

Glu Val Thr Thr Asn Thr Val Pro Ser Arg Ile Ile Gly Asp Gly Ala
530 535 540

Asn Ser Thr Val Leu Leu Val Ser Val Ser Gly Ser Val Val Leu Val
545 550 555 560

Val Ile Leu Ile Ala Ala Phe Val Ile Ser Arg Arg Arg Ser Lys Tyr
565 570 575

Ser Lys Ala Lys Gln Glu Ala Asp Glu Glu Lys His Leu Asn Gln Gly
580 585 590

Val Arg Thr Tyr Val Asp Pro Phe Thr Tyr Glu Asp Pro Asn Gln Ala
595 600 605

Val Arg Glu Phe Ala Lys Glu Ile Asp Ala Ser Cys Ile Lys Ile Glu
610 615 620

Lys Val Ile Gly Val Gly Glu Phe Gly Glu Val Cys Ser Gly Arg Leu
625 630 635 640

Lys Val Pro Gly Lys Arg Glu Ile Cys Val Ala Ile Lys Thr Leu Lys
645 650 655

Ala Gly Tyr Thr Asp Lys Gln Arg Arg Asp Phe Leu Ser Glu Ala Ser
660 665 670

Ile Met Gly Gln Phe Asp His Pro Asn Ile Ile His Leu Glu Gly Val
675 680 685

Val Thr Lys Cys Lys Pro Val Met Ile Ile Thr Glu Tyr Met Glu Asn
690 695 700

Gly Ser Leu Asp Ala Phe Leu Arg Lys Asn Asp Gly Arg Phe Thr Val
705 710 715 720

Ile Gln Leu Val Gly Met Leu Arg Gly Ile Gly Ser Gly Met Lys Tyr
725 730 735

Leu Ser Asp Met Ser Tyr Val His Arg Asp Leu Ala Ala Arg Asn Ile
740 745 750

Leu Val Asn Ser Asn Leu Val Cys Lys Val Ser Asp Phe Gly Met Ser
755 760 765

Arg Val Leu Glu Asp Asp Pro Glu Ala Ala Tyr Thr Thr Arg Gly Gly
770 775 780

SECUENCIAS

Lys Ile Pro Ile Arg Trp Thr Ala Pro Glu Ala Ile Ala Tyr Arg Lys
785 790 795 800

Phe Thr Ser Ala Ser Asp Val Trp Ser Tyr Gly Ile Val Met Trp Glu
805 810 815

Val Met Ser Tyr Gly Glu Arg Pro Tyr Trp Asp Met Ser Asn Gln Asp
820 825 830

Val Ile Lys Ala Ile Glu Glu Gly Tyr Arg Leu Pro Pro Pro Met Asp
835 840 845

Cys Pro Ile Ala Leu His Gln Leu Met Leu Asp Cys Trp Gln Lys Glu
850 855 860

Arg Ser Asp Arg Pro Lys Phe Gly Gln Ile Val Asn Met Leu Asp Lys
865 870 875 880

Leu Ile Arg Asn Pro Asn Ser Leu Lys Arg Thr Gly Thr Glu Ser Ser
885 890 895

Arg Pro Asn Thr Ala Leu Leu Asp Pro Ser Ser Pro Glu Phe Ser Ala
900 905 910

Val Val Ser Val Gly Asp Trp Leu Gln Ala Ile Lys Met Asp Arg Tyr
915 920 925

Lys Asp Asn Phe Thr Ala Ala Gly Tyr Thr Thr Leu Glu Ala Val Val
930 935 940

His Val Asn Gln Glu Asp Leu Ala Arg Ile Gly Ile Thr Ala Ile Thr
945 950 955 960

His Gln Asn Lys Ile Leu Ser Ser Val Gln Ala Met Arg Thr Gln Met
965 970 975

Gln Gln Met His Gly Arg Met Val Pro Val
980 985

<210> 6
<211> 528
<212> PRT
<213> Homo sapiens

<400> 6

Val Thr Gly Ser Arg Val Tyr Pro Ala Asn Glu Val Thr Leu Leu Asp
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Ser Arg Ser Val Gln Gly Glu Leu Gly Trp Ile Ala Ser Pro Leu Glu
20 25 30

Gly Gly Trp Glu Glu Val Ser Ile Met Asp Glu Lys Asn Thr Pro Ile
35 40 45

SECUENCIAS

Arg Thr Tyr Gln Val Cys Asn Val Met Glu Pro Ser Gln Asn Asn Trp
 50 55 60
 Leu Arg Thr Asp Trp Ile Thr Arg Glu Gly Ala Gln Arg Val Tyr Ile
 65 70 75 80
 Glu Ile Lys Phe Thr Leu Arg Asp Cys Asn Ser Leu Pro Gly Val Met
 85 90 95
 Gly Thr Cys Lys Glu Thr Phe Asn Leu Tyr Tyr Tyr Glu Ser Asp Asn
 100 105 110
 Asp Lys Glu Arg Phe Ile Arg Glu Asn Gln Phe Val Lys Ile Asp Thr
 115 120 125
 Ile Ala Ala Asp Glu Ser Phe Thr Gln Val Asp Ile Gly Asp Arg Ile
 130 135 140
 Met Lys Leu Asn Thr Glu Ile Arg Asp Val Gly Pro Leu Ser Lys Lys
 145 150 155 160
 Gly Phe Tyr Leu Ala Phe Gln Asp Val Gly Ala Cys Ile Ala Leu Val
 165 170 175
 Ser Val Arg Val Phe Tyr Lys Lys Cys Pro Leu Thr Val Arg Asn Leu
 180 185 190
 Ala Gln Phe Pro Asp Thr Ile Thr Gly Ala Asp Thr Ser Ser Leu Val
 195 200 205
 Glu Val Arg Gly Ser Cys Val Asn Asn Ser Glu Glu Lys Asp Val Pro
 210 215 220
 Lys Met Tyr Cys Gly Ala Asp Gly Glu Trp Leu Val Pro Ile Gly Asn
 225 230 235 240
 Cys Leu Cys Asn Ala Gly His Glu Glu Arg Ser Gly Glu Cys Gln Ala
 245 250 255
 Cys Lys Ile Gly Tyr Tyr Lys Ala Leu Ser Thr Asp Ala Thr Cys Ala
 260 265 270
 Lys Cys Pro Pro His Ser Tyr Ser Val Trp Glu Gly Ala Thr Ser Cys
 275 280 285
 Thr Cys Asp Arg Gly Phe Phe Arg Ala Asp Asn Asp Ala Ala Ser Met
 290 295 300
 Pro Cys Thr Arg Pro Pro Ser Ala Pro Leu Asn Leu Ile Ser Asn Val
 305 310 315 320

SECUENCIAS

Asn Glu Thr Ser Val Asn Leu Glu Trp Ser Ser Pro Gln Asn Thr Gly
325 330 335

Gly Arg Gln Asp Ile Ser Tyr Asn Val Val Cys Lys Lys Cys Gly Ala
340 345 350

Gly Asp Pro Ser Lys Cys Arg Pro Cys Gly Ser Gly Val His Tyr Thr
355 360 365

Pro Gln Gln Asn Gly Leu Lys Thr Thr Lys Val Ser Ile Thr Asp Leu
370 375 380

Leu Ala His Thr Asn Tyr Thr Phe Glu Ile Trp Ala Val Asn Gly Val
385 390 395 400

Ser Lys Tyr Asn Pro Asn Pro Asp Gln Ser Val Ser Val Thr Val Thr
405 410 415

Thr Asn Gln Ala Ala Pro Ser Ser Ile Ala Leu Val Gln Ala Lys Glu
420 425 430

Val Thr Arg Tyr Ser Val Ala Leu Ala Trp Leu Glu Pro Asp Arg Pro
435 440 445

Asn Gly Val Ile Leu Glu Tyr Glu Val Lys Tyr Tyr Glu Lys Asp Gln
450 455 460

Asn Glu Arg Ser Tyr Arg Ile Val Arg Thr Ala Ala Arg Asn Thr Asp
465 470 475 480

Ile Lys Gly Leu Asn Pro Leu Thr Ser Tyr Val Phe His Val Arg Ala
485 490 495

Arg Thr Ala Ala Gly Tyr Gly Asp Phe Ser Glu Pro Leu Glu Val Thr
500 505 510

Thr Asn Thr Val Pro Ser Arg Ile Ile Gly Asp Gly Ala Asn Ser Thr
515 520 525

<210> 7
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SECUENCIAS

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Val Leu Ser

<210> 13
 <211> 125
 <212> PRT
 <213> Secuencia artificial

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 <223> Polipéptido sintético

SECUENCIAS

<400> 13

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

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

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

Gly Val Ile Trp Arg Gly Gly Ser Thr Asp Tyr Asn Ala Ala Phe Met
50 55 60

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

Lys Met Asn Ser Leu Gln Ala Asp Asp Thr Ala Ile Tyr Tyr Cys Ala
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Lys Glu Ser Leu Phe Gly Val Tyr Tyr Asp Tyr Gly Tyr Tyr Ser Met
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Asp Tyr Trp Gly Gln Gly Thr Ser Val Thr Val Ser Ser
115 120 125

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

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

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

SECUENCIAS

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

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

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

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

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

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 ccaggaaagg gtctggagtg gctgggagtg atttggagag gtggaagcac agactacaat 180
 gcagctttca tgtccagact gagcatcacc aaggacaact ccaagagcca agttttcttt 240
 aaaatgaaca gtctgcaagc tgatgacact gccatatact actgtgcca agaaagccta 300
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 gtcaccgtct cctca 375

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SECUENCIAS

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gatggaacta ttaaacgcct gatctacgcc gcatccactt tagattctgg tgtcccaaaa 180
aggttcagtg gcagtaggtc tgggtcagat tattctctca ccatcagcag ccttgagtct 240
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SECUENCIAS

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<400> 24

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

Ala Gln Thr Asn Ser Met Val Thr Leu Gly Cys Leu Val Lys Gly Tyr
20 25 30

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

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

Ser Ser Ser Val Thr Val Pro Ser Ser Thr Trp Pro Ser Glu Thr Val
65 70 75 80

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

Ile Val Pro Arg Asp Cys Gly Cys Lys Pro Cys Ile Cys Thr Val Pro
100 105 110

Glu Val Ser Ser Val Phe Ile Phe Pro Pro Lys Pro Lys Asp Val Leu
115 120 125

Thr Ile Thr Leu Thr Pro Lys Val Thr Cys Val Val Val Asp Ile Ser
130 135 140

Lys Asp Asp Pro Glu Val Gln Phe Ser Trp Phe Val Asp Asp Val Glu
145 150 155 160

Val His Thr Ala Gln Thr Gln Pro Arg Glu Glu Gln Phe Asn Ser Thr
165 170 175

Phe Arg Ser Val Ser Glu Leu Pro Ile Met His Gln Asp Trp Leu Asn
180 185 190

Gly Lys Glu Phe Lys Cys Arg Val Asn Ser Ala Ala Phe Pro Ala Pro
195 200 205

Ile Glu Lys Thr Ile Ser Lys Thr Lys Gly Arg Pro Lys Ala Pro Gln
210 215 220

SECUENCIAS

Val Tyr Thr Ile Pro Pro Pro Lys Glu Gln Met Ala Lys Asp Lys Val
225 230 235 240

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

Glu Trp Gln Trp Asn Gly Gln Pro Ala Glu Asn Tyr Lys Asn Thr Gln
260 265 270

Pro Ile Met Asp Thr Asp Gly Ser Tyr Phe Val Tyr Ser Lys Leu Asn
275 280 285

Val Gln Lys Ser Asn Trp Glu Ala Gly Asn Thr Phe Thr Cys Ser Val
290 295 300

Leu His Glu Gly Leu His Asn His His Thr Glu Lys Ser Leu Ser His
305 310 315 320

Ser Pro Gly Lys

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<400> 25

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

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

Gln Asn Gly Val Leu Asn Ser Trp Thr Asp Gln Asp Ser Lys Asp Ser
50 55 60

Thr Tyr Ser Met Ser Ser Thr Leu Thr Leu Thr Lys Asp Glu Tyr Glu
65 70 75 80

Arg His Asn Ser Tyr Thr Cys Glu Ala Thr His Lys Thr Ser Thr Ser
85 90 95

Pro Ile Val Lys Ser Phe Asn Arg Asn Glu Cys
100 105

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SECUENCIAS

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Arg Tyr Gly Val His
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<400> 27

Val Ile Trp Arg Gly Gly Ser Thr Asp Tyr Asn Ala Ala Phe Met Ser
1 5 10 15

<210> 28
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<400> 28

Glu Ser Leu Phe Gly Val Tyr Tyr Asp Tyr Gly Tyr Tyr Ser Met Asp
1 5 10 15

Tyr

<210> 29
<211> 11
<212> PRT
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<220>
<223> Péptido sintético

<400> 29

Arg Ala Ser Gln Glu Ile Ser Gly Tyr Leu Ser
1 5 10

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<212> PRT
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<220>
<223> Péptido sintético

<400> 30

Ala Ala Ser Thr Leu Asp Ser

SECUENCIAS

1

5

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<400> 31

Leu Gln Tyr Ala Ser Tyr Pro Leu Thr
1 5

<210> 32
<211> 986
<212> PRT
<213> Macatta mulatta

<400> 32

Met Ala Gly Ile Phe Tyr Phe Ala Leu Phe Ser Cys Leu Phe Gly Ile
1 5 10 15

Cys Asp Ala Val Thr Gly Ser Arg Val Tyr Pro Ala Asn Glu Val Thr
20 25 30

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

Pro Leu Glu Gly Gly Trp Glu Glu Val Ser Ile Met Asp Glu Lys Asn
50 55 60

Thr Pro Ile Arg Thr Tyr Gln Val Cys Asn Val Met Glu Pro Ser Gln
65 70 75 80

Asn Asn Trp Leu Arg Thr Asp Trp Ile Thr Arg Glu Gly Ala Gln Arg
85 90 95

Val Tyr Ile Glu Ile Lys Phe Thr Leu Arg Asp Cys Asn Ser Leu Pro
100 105 110

Gly Val Met Gly Thr Cys Lys Glu Thr Phe Asn Leu Tyr Tyr Tyr Glu
115 120 125

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

Ile Asp Thr Ile Ala Ala Asp Glu Ser Phe Thr Gln Val Asp Ile Gly
145 150 155 160

Asp Arg Ile Met Lys Leu Asn Thr Glu Ile Arg Asp Val Gly Pro Leu
165 170 175

Ser Lys Lys Gly Phe Tyr Leu Ala Phe Gln Asp Val Gly Ala Cys Ile
Página 24

SECUENCIAS

180

185

190

Ala Leu Val Ser Val Arg Val Phe Tyr Lys Lys Cys Pro Leu Thr Val
195 200 205

Arg Asn Leu Ala Gln Phe Pro Asp Thr Ile Thr Gly Ala Asp Thr Ser
210 215 220

Ser Leu Val Glu Val Arg Gly Ser Cys Val Asn Asn Ser Glu Glu Lys
225 230 235 240

Asp Val Pro Lys Met Tyr Cys Gly Ala Asp Gly Glu Trp Leu Val Pro
245 250 255

Ile Gly Asn Cys Leu Cys Asn Ala Gly His Glu Glu Arg Ser Gly Glu
260 265 270

Cys Gln Ala Cys Lys Ile Gly Tyr Tyr Lys Ala Leu Ser Thr Asp Ala
275 280 285

Thr Cys Ala Lys Cys Pro Pro His Ser Tyr Ser Val Trp Glu Gly Ala
290 295 300

Thr Ser Cys Thr Cys Asp Arg Gly Phe Phe Arg Ala Asp Asn Asp Ala
305 310 315 320

Ala Ser Met Pro Cys Thr Arg Pro Pro Ser Ala Pro Leu Asn Leu Ile
325 330 335

Ser Asn Val Asn Glu Thr Ser Val Asn Leu Glu Trp Ser Ser Pro Gln
340 345 350

Asn Thr Gly Gly Arg Gln Asp Ile Ser Tyr Asn Val Val Cys Lys Lys
355 360 365

Cys Gly Ala Gly Asp Pro Ser Lys Cys Arg Pro Cys Gly Ser Gly Val
370 375 380

His Tyr Thr Pro Gln Gln Asn Gly Leu Lys Thr Thr Lys Val Ser Ile
385 390 395 400

Thr Asp Leu Leu Ala His Thr Asn Tyr Thr Phe Glu Ile Trp Ala Val
405 410 415

Asn Gly Val Ser Lys Tyr Asn Pro Ser Pro Asp Gln Ser Val Ser Val
420 425 430

Thr Val Thr Thr Asn Gln Ala Ala Pro Ser Ser Ile Ala Leu Val Gln
435 440 445

Ala Lys Glu Val Thr Arg Tyr Ser Val Ala Leu Ala Trp Leu Glu Pro
450 455 460

SECUENCIAS

Asp Arg Pro Asn Gly Val Ile Leu Glu Tyr Glu Val Lys Tyr Tyr Glu
465 470 475 480

Lys Asp Gln Asn Glu Arg Ser Tyr Arg Ile Val Arg Thr Ala Ala Arg
485 490 495

Asn Thr Asp Ile Lys Gly Leu Asn Pro Leu Thr Ser Tyr Val Phe His
500 505 510

Val Arg Ala Arg Thr Ala Ala Gly Tyr Gly Asp Phe Ser Glu Pro Leu
515 520 525

Glu Val Thr Thr Asn Thr Val Pro Ser Arg Ile Ile Gly Asp Gly Ala
530 535 540

Asn Ser Thr Val Leu Leu Val Ser Val Ser Gly Ser Val Val Leu Val
545 550 555 560

Val Ile Leu Ile Ala Ala Phe Val Ile Ser Arg Arg Arg Ser Lys Tyr
565 570 575

Ser Lys Ala Lys Gln Glu Ala Asp Glu Glu Lys His Leu Asn Gln Gly
580 585 590

Val Arg Thr Tyr Val Asp Pro Phe Thr Tyr Glu Asp Pro Asn Gln Ala
595 600 605

Val Arg Glu Phe Ala Lys Glu Ile Asp Ala Ser Cys Ile Lys Ile Glu
610 615 620

Lys Val Ile Gly Val Gly Glu Phe Gly Glu Val Cys Ser Gly Arg Leu
625 630 635 640

Lys Val Pro Gly Lys Arg Glu Ile Cys Val Ala Ile Lys Thr Leu Lys
645 650 655

Ala Gly Tyr Thr Asp Lys Gln Arg Arg Asp Phe Leu Ser Glu Ala Ser
660 665 670

Ile Met Gly Gln Phe Asp His Pro Asn Ile Ile His Leu Glu Gly Val
675 680 685

Val Thr Lys Cys Lys Pro Val Met Ile Ile Thr Glu Tyr Met Glu Asn
690 695 700

Gly Ser Leu Asp Ala Phe Leu Arg Lys Asn Asp Gly Arg Phe Thr Val
705 710 715 720

Ile Gln Leu Val Gly Met Leu Arg Gly Ile Gly Ser Gly Met Lys Tyr
725 730 735

SECUENCIAS

Leu Ser Asp Met Ser Tyr Val His Arg Asp Leu Ala Ala Arg Asn Ile
740 745 750

Leu Val Asn Ser Asn Leu Val Cys Lys Val Ser Asp Phe Gly Met Ser
755 760 765

Arg Val Leu Glu Asp Asp Pro Glu Ala Ala Tyr Thr Thr Arg Gly Gly
770 775 780

Lys Ile Pro Ile Arg Trp Thr Ala Pro Glu Ala Ile Ala Tyr Arg Lys
785 790 795 800

Phe Thr Ser Ala Ser Asp Val Trp Ser Tyr Gly Ile Val Met Trp Glu
805 810 815

Val Met Ser Tyr Gly Glu Arg Pro Tyr Trp Asp Met Ser Asn Gln Asp
820 825 830

Val Ile Lys Ala Ile Glu Glu Gly Tyr Arg Leu Pro Pro Pro Met Asp
835 840 845

Cys Pro Ile Ala Leu His Gln Leu Met Leu Asp Cys Trp Gln Lys Glu
850 855 860

Arg Ser Asp Arg Pro Lys Phe Gly Gln Ile Val Asn Met Leu Asp Lys
865 870 875 880

Leu Ile Arg Asn Pro Asn Ser Leu Lys Arg Thr Gly Thr Glu Ser Ser
885 890 895

Arg Pro Asn Thr Ala Leu Leu Asp Pro Ser Ser Pro Glu Phe Ser Ala
900 905 910

Val Val Ser Val Gly Asp Trp Leu Gln Ala Ile Lys Met Asp Arg Tyr
915 920 925

Lys Asp Asn Phe Thr Ala Ala Gly Tyr Thr Thr Leu Glu Ala Val Val
930 935 940

His Val Asn Gln Glu Asp Leu Ala Arg Ile Gly Ile Thr Ala Ile Thr
945 950 955 960

His Gln Asn Lys Ile Leu Ser Ser Val Gln Ala Met Arg Thr Gln Met
965 970 975

Gln Gln Met His Gly Arg Met Val Pro Val
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SECUENCIAS

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Val Thr Gly Ser Arg Val Tyr Pro Ala Asn Glu Val Thr Leu Leu Asp
1 5 10 15

Ser Arg Ser Val Gln Gly Glu Leu Gly Trp Ile Ala Ser Pro Leu Glu
20 25 30

Gly Gly Trp Glu Glu Val Ser Ile Met Asp Glu Lys Asn Thr Pro Ile
35 40 45

Arg Thr Tyr Gln Val Cys Asn Val Met Glu Pro Ser Gln Asn Asn Trp
50 55 60

Leu Arg Thr Asp Trp Ile Thr Arg Glu Gly Ala Gln Arg Val Tyr Ile
65 70 75 80

Glu Ile Lys Phe Thr Leu Arg Asp Cys Asn Ser Leu Pro Gly Val Met
85 90 95

Gly Thr Cys Lys Glu Thr Phe Asn Leu Tyr Tyr Tyr Glu Ser Asp Asn
100 105 110

Asp Lys Glu Arg Phe Ile Arg Glu Asn Gln Phe Val Lys Ile Asp Thr
115 120 125

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

Met Lys Leu Asn Thr Glu Ile Arg Asp Val Gly Pro Leu Ser Lys Lys
145 150 155 160

Gly Phe Tyr Leu Ala Phe Gln Asp Val Gly Ala Cys Ile Ala Leu Val
165 170 175

Ser Val Arg Val Phe Tyr Lys Lys Cys Pro Leu Thr Val Arg Asn Leu
180 185 190

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

Glu Val Arg Gly Ser Cys Val Asn Asn Ser Glu Glu Lys Asp Val Pro
210 215 220

Lys Met Tyr Cys Gly Ala Asp Gly Glu Trp Leu Val Pro Ile Gly Asn
225 230 235 240

Cys Leu Cys Asn Ala Gly His Glu Glu Arg Ser Gly Glu Cys Gln Ala
245 250 255

Cys Lys Ile Gly Tyr Tyr Lys Ala Leu Ser Thr Asp Ala Thr Cys Ala
260 265 270

SECUENCIAS

Lys Cys Pro Pro His Ser Tyr Ser Val Trp Glu Gly Ala Thr Ser Cys
275 280 285

Thr Cys Asp Arg Gly Phe Phe Arg Ala Asp Asn Asp Ala Ala Ser Met
290 295 300

Pro Cys Thr Arg Pro Pro Ser Ala Pro Leu Asn Leu Ile Ser Asn Val
305 310 315 320

Asn Glu Thr Ser Val Asn Leu Glu Trp Ser Ser Pro Gln Asn Thr Gly
325 330 335

Gly Arg Gln Asp Ile Ser Tyr Asn Val Val Cys Lys Lys Cys Gly Ala
340 345 350

Gly Asp Pro Ser Lys Cys Arg Pro Cys Gly Ser Gly Val His Tyr Thr
355 360 365

Pro Gln Gln Asn Gly Leu Lys Thr Thr Lys Val Ser Ile Thr Asp Leu
370 375 380

Leu Ala His Thr Asn Tyr Thr Phe Glu Ile Trp Ala Val Asn Gly Val
385 390 395 400

Ser Lys Tyr Asn Pro Ser Pro Asp Gln Ser Val Ser Val Thr Val Thr
405 410 415

Thr Asn Gln Ala Ala Pro Ser Ser Ile Ala Leu Val Gln Ala Lys Glu
420 425 430

Val Thr Arg Tyr Ser Val Ala Leu Ala Trp Leu Glu Pro Asp Arg Pro
435 440 445

Asn Gly Val Ile Leu Glu Tyr Glu Val Lys Tyr Tyr Glu Lys Asp Gln
450 455 460

Asn Glu Arg Ser Tyr Arg Ile Val Arg Thr Ala Ala Arg Asn Thr Asp
465 470 475 480

Ile Lys Gly Leu Asn Pro Leu Thr Ser Tyr Val Phe His Val Arg Ala
485 490 495

Arg Thr Ala Ala Gly Tyr Gly Asp Phe Ser Glu Pro Leu Glu Val Thr
500 505 510

Thr Asn Thr Val Pro Ser Arg Ile Ile Gly Asp Gly Ala Asn Ser Thr
515 520 525

<210> 34
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<212> PRT

SECUENCIAS

<213> Homo sapiens

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Met Ala Gly Ile Phe Tyr Phe Ala Leu Phe Ser Cys Leu Phe Gly Ile
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Cys Asp Ala

<210> 35

<211> 15

<212> PRT

<213> Homo sapiens

<400> 35

Met Ser Ala Leu Leu Ile Leu Ala Leu Val Gly Ala Ala Val Ala
1 5 10 15

<210> 36

<211> 547

<212> PRT

<213> Homo sapiens

<400> 36

Met Ala Gly Ile Phe Tyr Phe Ala Leu Phe Ser Cys Leu Phe Gly Ile
1 5 10 15

Cys Asp Ala Val Thr Gly Ser Arg Val Tyr Pro Ala Asn Glu Val Thr
20 25 30

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

Pro Leu Glu Gly Gly Trp Glu Glu Val Ser Ile Met Asp Glu Lys Asn
50 55 60

Thr Pro Ile Arg Thr Tyr Gln Val Cys Asn Val Met Glu Pro Ser Gln
65 70 75 80

Asn Asn Trp Leu Arg Thr Asp Trp Ile Thr Arg Glu Gly Ala Gln Arg
85 90 95

Val Tyr Ile Glu Ile Lys Phe Thr Leu Arg Asp Cys Asn Ser Leu Pro
100 105 110

Gly Val Met Gly Thr Cys Lys Glu Thr Phe Asn Leu Tyr Tyr Tyr Glu
115 120 125

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

Ile Asp Thr Ile Ala Ala Asp Glu Ser Phe Thr Gln Val Asp Ile Gly
145 150 155 160

SECUENCIAS

Asp Arg Ile Met Lys Leu Asn Thr Glu Ile Arg Asp Val Gly Pro Leu
 165 170 175
 Ser Lys Lys Gly Phe Tyr Leu Ala Phe Gln Asp Val Gly Ala Cys Ile
 180 185 190
 Ala Leu Val Ser Val Arg Val Phe Tyr Lys Lys Cys Pro Leu Thr Val
 195 200 205
 Arg Asn Leu Ala Gln Phe Pro Asp Thr Ile Thr Gly Ala Asp Thr Ser
 210 215 220
 Ser Leu Val Glu Val Arg Gly Ser Cys Val Asn Asn Ser Glu Glu Lys
 225 230 235 240
 Asp Val Pro Lys Met Tyr Cys Gly Ala Asp Gly Glu Trp Leu Val Pro
 245 250 255
 Ile Gly Asn Cys Leu Cys Asn Ala Gly His Glu Glu Arg Ser Gly Glu
 260 265 270
 Cys Gln Ala Cys Lys Ile Gly Tyr Tyr Lys Ala Leu Ser Thr Asp Ala
 275 280 285
 Thr Cys Ala Lys Cys Pro Pro His Ser Tyr Ser Val Trp Glu Gly Ala
 290 295 300
 Thr Ser Cys Thr Cys Asp Arg Gly Phe Phe Arg Ala Asp Asn Asp Ala
 305 310 315 320
 Ala Ser Met Pro Cys Thr Arg Pro Pro Ser Ala Pro Leu Asn Leu Ile
 325 330 335
 Ser Asn Val Asn Glu Thr Ser Val Asn Leu Glu Trp Ser Ser Pro Gln
 340 345 350
 Asn Thr Gly Gly Arg Gln Asp Ile Ser Tyr Asn Val Val Cys Lys Lys
 355 360 365
 Cys Gly Ala Gly Asp Pro Ser Lys Cys Arg Pro Cys Gly Ser Gly Val
 370 375 380
 His Tyr Thr Pro Gln Gln Asn Gly Leu Lys Thr Thr Lys Val Ser Ile
 385 390 395 400
 Thr Asp Leu Leu Ala His Thr Asn Tyr Thr Phe Glu Ile Trp Ala Val
 405 410 415
 Asn Gly Val Ser Lys Tyr Asn Pro Asn Pro Asp Gln Ser Val Ser Val
 420 425 430

SECUENCIAS

Thr Val Thr Thr Asn Gln Ala Ala Pro Ser Ser Ile Ala Leu Val Gln
435 440 445

Ala Lys Glu Val Thr Arg Tyr Ser Val Ala Leu Ala Trp Leu Glu Pro
450 455 460

Asp Arg Pro Asn Gly Val Ile Leu Glu Tyr Glu Val Lys Tyr Tyr Glu
465 470 475 480

Lys Asp Gln Asn Glu Arg Ser Tyr Arg Ile Val Arg Thr Ala Ala Arg
485 490 495

Asn Thr Asp Ile Lys Gly Leu Asn Pro Leu Thr Ser Tyr Val Phe His
500 505 510

Val Arg Ala Arg Thr Ala Ala Gly Tyr Gly Asp Phe Ser Glu Pro Leu
515 520 525

Glu Val Thr Thr Asn Thr Val Pro Ser Arg Ile Ile Gly Asp Gly Ala
530 535 540

Asn Ser Thr
545

<210> 37
<211> 328
<212> PRT
<213> Homo sapiens

<400> 37

Met Ala Gly Ile Phe Tyr Phe Ala Leu Phe Ser Cys Leu Phe Gly Ile
1 5 10 15

Cys Asp Ala Val Thr Gly Ser Arg Val Tyr Pro Ala Asn Glu Val Thr
20 25 30

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

Pro Leu Glu Gly Gly Trp Glu Glu Val Ser Ile Met Asp Glu Lys Asn
50 55 60

Thr Pro Ile Arg Thr Tyr Gln Val Cys Asn Val Met Glu Pro Ser Gln
65 70 75 80

Asn Asn Trp Leu Arg Thr Asp Trp Ile Thr Arg Glu Gly Ala Gln Arg
85 90 95

Val Tyr Ile Glu Ile Lys Phe Thr Leu Arg Asp Cys Asn Ser Leu Pro
100 105 110

Gly Val Met Gly Thr Cys Lys Glu Thr Phe Asn Leu Tyr Tyr Tyr Glu
115 120 125

SECUENCIAS

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

Ile Asp Thr Ile Ala Ala Asp Glu Ser Phe Thr Gln Val Asp Ile Gly
145 150 155 160

Asp Arg Ile Met Lys Leu Asn Thr Glu Ile Arg Asp Val Gly Pro Leu
165 170 175

Ser Lys Lys Gly Phe Tyr Leu Ala Phe Gln Asp Val Gly Ala Cys Ile
180 185 190

Ala Leu Val Ser Val Arg Val Phe Tyr Lys Lys Cys Pro Leu Thr Val
195 200 205

Arg Asn Leu Ala Gln Phe Pro Asp Thr Ile Thr Gly Ala Asp Thr Ser
210 215 220

Ser Leu Val Glu Val Arg Gly Ser Cys Val Asn Asn Ser Glu Glu Lys
225 230 235 240

Asp Val Pro Lys Met Tyr Cys Gly Ala Asp Gly Glu Trp Leu Val Pro
245 250 255

Ile Gly Asn Cys Leu Cys Asn Ala Gly His Glu Glu Arg Ser Gly Glu
260 265 270

Cys Gln Ala Cys Lys Ile Gly Tyr Tyr Lys Ala Leu Ser Thr Asp Ala
275 280 285

Thr Cys Ala Lys Cys Pro Pro His Ser Tyr Ser Val Trp Glu Gly Ala
290 295 300

Thr Ser Cys Thr Cys Asp Arg Gly Phe Phe Arg Ala Asp Asn Asp Ala
305 310 315 320

Ala Ser Met Pro Cys Thr Arg Pro
325

<210> 38
<211> 236
<212> PRT
<213> Homo sapiens

<400> 38

Pro Leu Thr Val Arg Asn Leu Ala Gln Phe Pro Asp Thr Ile Thr Gly
1 5 10 15

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

SECUENCIAS

Ser Glu Glu Lys Asp Val Pro Lys Met Tyr Cys Gly Ala Asp Gly Glu
35 40 45

Trp Leu Val Pro Ile Gly Asn Cys Leu Cys Asn Ala Gly His Glu Glu
50 55 60

Arg Ser Gly Glu Cys Gln Ala Cys Lys Ile Gly Tyr Tyr Lys Ala Leu
65 70 75 80

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

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

Asp Asn Asp Ala Ala Ser Met Pro Cys Thr Arg Pro Pro Ser Ala Pro
115 120 125

Leu Asn Leu Ile Ser Asn Val Asn Glu Thr Ser Val Asn Leu Glu Trp
130 135 140

Ser Ser Pro Gln Asn Thr Gly Gly Arg Gln Asp Ile Ser Tyr Asn Val
145 150 155 160

Val Cys Lys Lys Cys Gly Ala Gly Asp Pro Ser Lys Cys Arg Pro Cys
165 170 175

Gly Ser Gly Val His Tyr Thr Pro Gln Gln Asn Gly Leu Lys Thr Thr
180 185 190

Lys Val Ser Ile Thr Asp Leu Leu Ala His Thr Asn Tyr Thr Phe Glu
195 200 205

Ile Trp Ala Val Asn Gly Val Ser Lys Tyr Asn Pro Asn Pro Asp Gln
210 215 220

Ser Val Ser Val Thr Val Thr Thr Asn Gln Ala Ala
225 230 235

<210> 39
<211> 112
<212> PRT
<213> Homo sapiens

<400> 39

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

Val Thr Arg Tyr Ser Val Ala Leu Ala Trp Leu Glu Pro Asp Arg Pro
20 25 30

Asn Gly Val Ile Leu Glu Tyr Glu Val Lys Tyr Tyr Glu Lys Asp Gln
35 40 45

SECUENCIAS

Asn Glu Arg Ser Tyr Arg Ile Val Arg Thr Ala Ala Arg Asn Thr Asp
 50 55 60

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

Arg Thr Ala Ala Gly Tyr Gly Asp Phe Ser Glu Pro Leu Glu Val Thr
 85 90 95

Thr Asn Thr Val Pro Ser Arg Ile Ile Gly Asp Gly Ala Asn Ser Thr
 100 105 110

<210> 40
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<220>
 <223> Polipéptido sintético

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

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

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

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

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

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

<210> 41
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 <213> Secuencia artificial

<220>
 <223> Polipéptido sintético

<400> 41

Leu Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
 1 5 10

<210> 42
 <211> 98
 <212> PRT

SECUENCIAS

<213> Secuencia artificial

<220>

<223> Polipéptido sintético

<400> 42

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

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

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

Ala Val Ile Trp Tyr Asp Gly Ser Asn Lys 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

<210> 43

<211> 18

<212> PRT

<213> Secuencia artificial

<220>

<223> Polipéptido sintético

<400> 43

Tyr Tyr Tyr Tyr Gly Met Asp Val Trp Gly Gln Gly Thr Thr Val Thr
1 5 10 15

Val Ser

<210> 44

<211> 5

<212> PRT

<213> Secuencia artificial

<220>

<223> Polipéptido sintético

<400> 44

Arg Phe Gly Val His
1 5

<210> 45

<211> 125

SECUENCIAS

<212> PRT
<213> Secuencia artificial

<220>
<223> Polipéptido sintético

<400> 45

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

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

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

Ala Val Ile Trp Arg Gly Gly Ser Thr Asp Tyr Asn Ala Ala Phe Met
50 55 60

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

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

Lys Glu Ser Leu Phe Gly Val Tyr Tyr Asp Tyr Gly Tyr Tyr Ser Met
100 105 110

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

<210> 46
<211> 107
<212> PRT
<213> Secuencia artificial

<220>
<223> Polipéptido sintético

<400> 46

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 Glu Ile Ser Gly Tyr
20 25 30

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

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

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

SECUENCIAS

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

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

<210> 47
<211> 326
<212> PRT
<213> Homo sapiens

<400> 47

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

Ser Thr Ser Glu Ser 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 Asn Phe Gly Thr Gln Thr
65 70 75 80

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

Thr Val Glu Arg Lys Ser Cys Val Glu Cys Pro Pro Cys Pro Ala Pro
100 105 110

Pro Ala Ala Ala Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp
115 120 125

Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp
130 135 140

Val Ser His Glu Asp Pro Glu Val Gln Phe Asn Trp Tyr Val Asp Gly
145 150 155 160

Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Phe Asn
165 170 175

Ser Thr Phe Arg Val Val Ser Val Leu Thr Val Val His Gln Asp Trp
180 185 190

Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Gly Leu Pro
195 200 205

Ala Pro Ile Glu Lys Thr Ile Ser Lys Thr Lys Gly Gln Pro Arg Glu

SECUENCIAS

210

215

220

Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu Met Thr Lys Asn
225 230 235 240

Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile
245 250 255

Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr
260 265 270

Thr Pro Pro Met Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys
275 280 285

Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys
290 295 300

Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu
305 310 315 320

Ser Leu Ser Pro Gly Lys
325

<210> 48
<211> 107
<212> PRT
<213> Homo sapiens

<400> 48

Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu
1 5 10 15

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

Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln
35 40 45

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

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

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

Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
100 105

<210> 49
<211> 15
<212> ADN

SECUENCIAS

<213>	Secuencia artificial	
<220>		
<223>	Polinucleótido sintético	
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<210>	50	
<211>	48	
<212>	ADN	
<213>	Secuencia artificial	
<220>		
<223>	Polinucleótido sintético	
<400>	50	
	gtgatctgga ggggaggatc caccgactac aacgctgctt ttatgagc	48
<210>	51	
<211>	51	
<212>	ADN	
<213>	Secuencia artificial	
<220>		
<223>	Polinucleótido sintético	
<400>	51	
	gagagcctgt tcggcgtgta ctatgactac ggctactatt ctatggatta t	51
<210>	52	
<211>	33	
<212>	ADN	
<213>	Secuencia artificial	
<220>		
<223>	Polinucleótido sintético	
<400>	52	
	cgcgctccc aggagatctc tggctacctg tcc	33
<210>	53	
<211>	21	
<212>	ADN	
<213>	Secuencia artificial	
<220>		
<223>	Polinucleótido sintético	
<400>	53	
	gctgcctcca ccctggactc t	21
<210>	54	
<211>	27	
<212>	ADN	
<213>	Secuencia artificial	
<220>		
<223>	Polinucleótido sintético	
<400>	54	
	ctgcagtacg cttcctatcc actgacc	27

SECUENCIAS

<210> 55
 <211> 375
 <212> ADN
 <213> Secuencia artificial

<220>
 <223> Polinucleótido sintético

<400> 55
 caggtgcagc tggaggagag cggaggagga gtggtgcagc ctggcaggtc cctgaggctg 60
 agctgtgccg tgtccggcct cagcctgaca agatttggag tgcattgggt gcgccaggct 120
 ccaggcaagg gactggagtg ggtggccgtg atctggaggg gaggatccac cgactacaac 180
 gctgctttta tgagccggct gacaatctct aaggataact ccaagaatac cgtgtatctg 240
 cagatgaact ccctgagggc tgaggacacc gccgtgtact attgcgcaa ggagagcctg 300
 ttcggcgtgt actatgacta cggctactat tctatggatt attggggcca gggcaccaca 360
 gtgacagtgt cctcc 375

<210> 56
 <211> 321
 <212> ADN
 <213> Secuencia artificial

<220>
 <223> Polinucleótido sintético

<400> 56
 gatatccaga tgacacagtc cccttcagc ctgtctgcct ccgtgggcga cagagtgacc 60
 atcacatgtc gcgcctccca ggagatctct ggctacctgt cctggctgca gcagaagcca 120
 ggcaaggctc ccaagcgcct gatctatgct gcctccaccc tggactctgg agtgccttcc 180
 aggttcagcg gctctcggtc cggcacagag tacaccctga caatctcttc cctgcagcct 240
 gaggatttcg ccacctaacta ttgcctgcag tacgcttcct atccactgac ctttggcggc 300
 ggcacaaagg tggagatcaa g 321

<210> 57
 <211> 978
 <212> ADN
 <213> Secuencia artificial

<220>
 <223> Polinucleótido sintético

<400> 57
 gcctccacca agggaccatc cgtgttccca ctggcccat cttcccggag cacatctgag 60
 tccaccgccg ctctgggctg tctggtgaag gattacttcc ctgagccagt gacagtgtct 120
 tggaaactccg gcgctctgac atccggcgtg cacaccttcc ctgccgtgct gcagagctct 180
 ggcctgtaca gcctgtccag cgtggtgacc gtgccctctt ccaatttcgg caccagaca 240
 tatacctgca acgtggacca taagccttcc aatacaaagg tggataagac cgtggagaga 300
 aagagctgcg tggagtgtcc accttgccca gctccaccag ccgctgcccc tagcgtgttc 360
 ctgtttcctc caaagccaaa ggacacactg atgatctctc gcacaccga ggtgacctgc 420

SECUENCIAS

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gtggtggtgg acgtgtccca cgaggatcca gaggtgcagt ttaactggta cgtggatggc      480
gtggagggtgc ataatgctaa gaccaagccc agggaggagc agttcaactc cacatttcgg      540
gtggtgagcg tgctgaccgt ggtgcaccag gactggctga acggcaagga gtataagtgt      600
aaggtgagca ataagggcct gcccgccct atcgagaaga caatctctaa gaccaagggc      660
cagcctagag agccacaggt gtacaccctg ccccttctc gcgaggagat gacaaagaac      720
caggtgtccc tgacctgcct ggtgaagggc ttctatccta gcgacatcgc tgtggagtgg      780
gagtctaattg gccagccaga gaacaattac aagaccacac caccatgct ggacagcgat      840
ggctctttct ttctgtattc taagctgaca gtggataagt ccaggtggca gcagggaac      900
gtgttttagct gctctgtgat gcatgaggcc ctgcacaatc attacacca gaagtccttg      960
agcctgtctc caggcaag                                     978

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<210> 58
<211> 321
<212> ADN
<213> Secuencia artificial

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<220>
<223> Polinucleótido sintético

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<400> 58
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ggcaccgcct ctgtggtgtg cctgctgaac aatttctacc ccaggagggc caaggtgcag      120
tggaagggtg ataacgctct gcagagcggc aattctcagg agtccgtgac cgagcaggac      180
agcaaggatt ctacatattc cctgagctct accctgacac tgagcaaggc cgattacgag      240
aagcacaagg tgtatgcttg cgaggtgacc catcagggcc tgtccagccc agtgacaaag      300
tcttttaaca ggggcgagtg t                                     321

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<210> 59
<211> 451
<212> PRT
<213> Secuencia artificial

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<220>
<223> Polipéptido sintético

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<400> 59

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

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

```

```

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

```

```

Ala Val Ile Trp Arg Gly Gly Ser Thr Asp Tyr Asn Ala Ala Phe Met
50           55           60

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SECUENCIAS

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

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

Lys Glu Ser Leu Phe Gly Val Tyr Tyr Asp Tyr Gly Tyr Tyr Ser Met
100 105 110

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

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

Glu Ser 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 Asn Phe Gly Thr Gln Thr Tyr Thr Cys
195 200 205

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

Arg Lys Ser Cys Val Glu Cys Pro Pro Cys Pro Ala Pro Pro Ala Ala
225 230 235 240

Ala 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 Gln Phe Asn Trp Tyr Val Asp Gly Val Glu Val
275 280 285

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

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

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

Glu Lys Thr Ile Ser Lys Thr Lys Gly Gln Pro Arg Glu Pro Gln Val

SECUENCIAS

340

345

350

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

Leu Thr 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

Met 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
450

<210> 60

<211> 214

<212> PRT

<213> Secuencia artificial

<220>

<223> Polipéptido sintético

<400> 60

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 Glu Ile Ser Gly Tyr
20 25 30

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

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

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

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

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

SECUENCIAS

Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu Lys Ser Gly
115 120 125

Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro Arg Glu Ala
130 135 140

Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly Asn Ser Gln
145 150 155 160

Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr Ser Leu Ser
165 170 175

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

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

Phe Asn Arg Gly Glu Cys
210

<210> 61
<211> 1353
<212> ADN
<213> Secuencia artificial

<220>
<223> Polinucleótido sintético

<400> 61
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agctgtgccg tgtccggctt cagcctgaca agatttggag tgcattgggt gcgccaggct 120
ccaggcaagg gactggagtg ggtggccgtg atctggaggg gaggatccac cgactacaac 180
gctgctttta tgagccggct gacaatctct aaggataact ccaagaatac cgtgtatctg 240
cagatgaact ccctgagggc tgaggacacc gccgtgtact attgcgcaa ggagagcctg 300
ttcggcgtgt actatgacta cggctactat tctatggatt attggggcca gggcaccaca 360
gtgacagtgt cctccgcctc caccaaggga ccatccgtgt tcccactggc cccatcttcc 420
cggagcacat ctgagtccac cgccgctctg ggctgtctgg tgaaggatta cttccctgag 480
ccagtgcagc tgtcttgaa ctccggcgct ctgacatccg gcgtgcacac ctttcctgcc 540
gtgctgcaga gctctggcct gtacagcctg tccagcgtgg tgaccgtgcc ctcttccaat 600
ttcggcacc agacatatac ctgcaacgtg gaccataagc cttccaatac aaaggtggat 660
aagaccgtgg agagaaagag ctgcgtggag tgtccacctt gccagctcc accagccgt 720
gccctagcg tgttcctgtt tcctccaaag ccaaaggaca cactgatgat ctctgcaca 780
cccagagtga cctgcgtggg ggtggacgtg tccacgagg atccagaggt gcagtttaac 840
tggtacgtgg atggcgtgga ggtgcataat gctaagacca agcccaggga ggagcagttc 900
aactccacat ttcgggtggg gagcgtgctg accgtggtgc accaggactg gctgaacggc 960

SECUENCIAS

aaggagtata agtgtaaggt gagcaataag ggcctgcccg cccctatcga gaagacaatc	1020
tctaagacca agggccagcc tagagagcca caggtgtaca ccctgcccc ttctcgcgag	1080
gagatgacaa agaaccaggt gtcctgacc tgcctggtga agggcttcta tcctagcgac	1140
atcgctgtgg agtgggagtc taatggccag ccagagaaca attacaagac cacaccaccc	1200
atgctggaca gcgatggctc tttctttctg tattctaagc tgacagtgga taagtccagg	1260
tggcagcagg gcaacgtgtt tagctgctct gtgatgcatg aggccctgca caatcattac	1320
accagaagt ccctgagcct gtctccaggc aag	1353

<210> 62

<211> 642

<212> ADN

<213> Secuencia artificial

<220>

<223> Polinucleótido sintético

<400> 62

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ggcaaggctc ccaagcgctt gatctatgct gcctccaccc tggactctgg agtgccttcc	180
aggttcagcg gctctcggtc cggcacagag tacaccctga caatctcttc cctgcagcct	240
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agcgacgagc agctgaagag cggcaccgcc tctgtggtgt gcctgctgaa caatttctac	420
cccagggagg ccaaggtgca gtggaagggt gataacgctc tgcagagcgg caatttctcag	480
gagtccgtga ccgagcagga cagcaaggat tctacatatt ccctgagctc taccctgaca	540
ctgagcaagg ccgattacga gaagcacaag gtgtatgctt gcgaggtgac ccatcagggc	600
ctgtccagcc cagtgacaaa gtcttttaac aggggcgagt gt	642