

LISTA DE SECUENCIAS

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

<120> ANTICUERPO ANTI-EPHA4

<130> ESAP1505F

<150> JP2015-177081

<151> 2015-09-08

<160> 85

<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
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Cys Asp Ala Val Thr Gly Ser Arg Val Tyr Pro Ala Asn Glu Val Thr
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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

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

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
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 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
980 985

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<212> PRT
<213> Mus musculus

<400> 2

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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

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
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<212> PRT
<213> Homo sapiens

<400> 3

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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

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

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

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> 4
<211> 528
<212> PRT
<213> Homo sapiens

<400> 4

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
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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 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

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

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<213> Secuencia artificial

<220>
<223> Cebador sintético

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<211> 21
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<211> 19
<212> PRT
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<400> 10

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<211> 124
<212> PRT
<213> Mus musculus

<400> 11

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Thr Val Lys Ile Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asp Tyr
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Ser Met His Trp Val Lys Gln Ala Pro Gly Lys Gly Leu Lys Trp Met
35 40 45

Gly Trp Ile Asn Thr Glu Thr Gly Glu Pro Thr Tyr Ala Asp Asp Phe
50 55 60

Lys Gly Arg Phe Ala Phe Ser Leu Glu Thr Ser Ala Ser Thr Ala Tyr
65 70 75 80

Leu Gln Ile Asn Asn Leu Lys Asn Glu Asp Thr Ala Thr Tyr Phe Cys
85 90 95

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

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

<210> 12
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<212> PRT
<213> Mus musculus

<400> 12

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<210> 13
<211> 107
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<213> Mus musculus

<400> 13

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

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

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

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

Glu Asp Phe Gly Ser Tyr Tyr Cys Gln His Phe Trp Gly Thr Pro Trp
85 90 95

Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
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<212> ADN
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 <213> Mus musculus

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 gcagatgact tcaagggacg gttgccttc tcttggaaa cctctgccag cactgcctat 240
 ttgcagatca acaacctcaa aatgaggac acggctacat atttctgtgc tagaattccc 300
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 accgtctcct ca 372

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<400> 16
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<210> 17
 <211> 321
 <212> ADN
 <213> Mus musculus

<400> 17
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 ggaaaatctc ctcagctcct ggtctatgct gcaacaaact tagcagatgg tgtgccatca 180
 aggttcagtg gcagtggatc aggcacacag tattccctca agatcaacag cctgcagtct 240
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 <223> Cebador sintético

 <400> 18
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 <211> 40
 <212> ADN
 <213> Secuencia artificial

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 <211> 36
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 <220>
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 <210> 21
 <211> 40
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 <213> Mus musculus

 <400> 22

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

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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

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
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Ser Pro Gly Lys

<210> 23

<211> 107

<212> PRT

<213> Mus musculus

<400> 23

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Gln Leu Thr Ser Gly Gly Ala Ser Val Val Cys Phe Leu Asn Asn Phe
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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

<210> 24
<211> 975
<212> ADN
<213> Mus musculus

<400> 24
gccaaaacga caccgccatc tgtctatcca ctggcccctg gatctgctgc ccaaactaac 60
tccatgggtga ccctgggatg cctgggtcaag ggctatttcc ctgagccagt gacagtgacc 120
tggaactctg gatccctgtc cagcgggtgtg cacaccttcc cagctgtcct gcagtctgac 180
ctctacactc tgagcagctc agtgactgtc ccctccagca cctggcccag cgagaccgtc 240
acctgcaacg ttgccaccc ggccagcagc accaagggtgg acaagaaaat tgtgccagg 300
gattgtgggt gtaagccttg catatgtaca gtcccagaag tatcatctgt cttcatcttc 360
cccccaaagc ccaaggatgt gctcaccatt actctgactc ctaagggtcac gtgtgtgtg 420
gtagacatca gcaaggatga tcccgaggtc cagttcagct ggttttaga tgatgtggag 480
gtgcacacag ctgagcgcga accccgggag gagcagttca acagcacttt ccgctcagtc 540
agtgaacttc ccatcatgca ccaggactgg ctcaatggca aggagttaa atgcagggtc 600
aacagtgcag ctttcctgc ccccatcgag aaaaccatct ccaaaaccaa aggcagaccg 660
aaggctccac aggtgtacac cattccacct cccaaggagc agatggccaa ggataaagtc 720
agtctgacct gcatgataac agacttcttc cctgaagaca ttactgtgga gtggcagtgg 780
aatgggcagc cagcggagaa ctacaagaac actcagccca tcatggacac agatggctct 840
tacttctgt acagcaagct caatgtgcag aagagcaact gggaggcagg aaatactttc 900
acctgctctg tgttacatga gggcctgcac aaccaccata ctgagaagag cctctccac 960
tctcctggta aatga 975

<210> 25
<211> 324
<212> ADN
<213> Mus musculus

<400> 25
cgggctgatg ctgcaccaac tgtatccatc ttcccacat ccagtgcagca gttacatct 60
ggaggtgcct cagtcgtgtg cttctgaac aacttctacc ccaaagacat caatgtcaag 120
tggaagattg atggcagtga acgacaaaat ggcgctcctga acagttggac tgatcaggac 180
agcaaagaca gcacctacag catgagcagc accctcacgt tgaccaagga cgagtatgaa 240

cgacataaca gctatacctg tgaggccact cacaagacat caacttcacc cattgtcaag 300

agcttcaaca ggaatgagtg ttag 324

<210> 26
<211> 5
<212> PRT
<213> Mus musculus

<400> 26

Asp Tyr Ser Met His
1 5

<210> 27
<211> 10
<212> PRT
<213> Mus musculus

<400> 27

Gly Tyr Thr Phe Thr Asp Tyr Ser Met His
1 5 10

<210> 28
<211> 17
<212> PRT
<213> Mus musculus

<400> 28

Trp Ile Asn Thr Glu Thr Gly Glu Pro Thr Tyr Ala Asp Asp Phe Lys
1 5 10 15

Gly

<210> 29
<211> 10
<212> PRT
<213> Mus musculus

<400> 29

Trp Ile Asn Thr Glu Thr Gly Glu Pro Thr
1 5 10

<210> 30
<211> 15
<212> PRT
<213> Mus musculus

<400> 30

Ile Pro Leu Tyr Tyr Tyr Gly Ser Arg Tyr Trp Tyr Phe Asp Val
1 5 10 15

<210> 31
<211> 11
<212> PRT
<213> Mus musculus

<400> 31

Arg Ala Ser Glu Asn Ile Tyr Arg Asn Leu Ala
1 5 10

<210> 32
<211> 7
<212> PRT
<213> Mus musculus

<400> 32

Ala Ala Thr Asn Leu Ala Asp
1 5

<210> 33
<211> 9
<212> PRT
<213> Mus musculus

<400> 33

Gln His Phe Trp Gly Thr Pro Trp Thr
1 5

<210> 34
<211> 15
<212> ADN
<213> Mus musculus

<400> 34
gactattcaa tgcac 15

<210> 35
<211> 30
<212> ADN
<213> Mus musculus

<400> 35
gggtataacct tcacagacta ttcaatgcac 30

<210> 36
 <211> 51
 <212> ADN
 <213> Mus musculus

 <400> 36
 tggataaaca ctgagactgg tgagccaaca tatgcagatg acttcaaggg a 51

<210> 37
 <211> 30
 <212> ADN
 <213> Mus musculus

 <400> 37
 tggataaaca ctgagactgg tgagccaaca 30

<210> 38
 <211> 45
 <212> ADN
 <213> Mus musculus

 <400> 38
 attccctct attactacgg tagtaggtac tggacttcg atgtc 45

<210> 39
 <211> 33
 <212> ADN
 <213> Mus musculus

 <400> 39
 cgagcaagtg agaattatta cagaaattta gca 33

<210> 40
 <211> 21
 <212> ADN
 <213> Mus musculus

 <400> 40
 gctgcaacaa acttagcaga t 21

<210> 41
 <211> 27
 <212> ADN
 <213> Mus musculus

 <400> 41
 caacattttt ggggtactcc gtggacg 27

<210> 42
 <211> 19

<212> PRT
<213> Mus musculus

<400> 42

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

Cys Asp Ala

<210> 43
<211> 1030
<212> PRT
<213> Mus musculus

<400> 43

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 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	
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
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

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> 44

<211> 986

<212> PRT

<213> Macaca mulatta

<400> 44

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

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

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
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
980 985

<210> 45
<211> 528
<212> PRT
<213> Macaca mulatta

<400> 45

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

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> 46

<211> 21

<212> ADN

<213> Secuencia artificial

<220>

<223> Cebador Sintético

<400> 46

catcagccct aatccatctg a

<210> 47
<211> 21
<212> ADN
<213> Secuencia artificial

<220>
<223> Cebador Sintético

<400> 47
cgcgactaac aatcaaagtg a 21

<210> 48
<211> 24
<212> ADN
<213> Secuencia artificial

<220>
<223> Cebador Sintético

<400> 48
ctaggccaca gaattgaaag atct 24

<210> 49
<211> 25
<212> ADN
<213> Secuencia artificial

<220>
<223> Cebador Sintético

<400> 49
gtaggtggaa attctagcat catcc 25

<210> 50
<211> 96
<212> PRT
<213> Secuencia artificial

<220>
<223> Secuencia artificial

<400> 50

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 Ser Asn Ser
20 25 30

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

35 40 45

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

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

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

<210> 51
<211> 96
<212> PRT
<213> Secuencia artificial

<220>
<223> Secuencia artificial

<400> 51

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

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

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

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

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

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

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

<220>
<223> Secuencia artificial

<400> 52

Trp Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
1 5 10

<210> 53

<211> 98

<212> PRT

<213> Secuencia artificial

<220>

<223> Secuencia artificial

<400> 53

Gln Val Gln Leu Val Gln Ser Gly Ser Glu Leu 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

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

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

Thr Gly Arg Phe Val Phe Ser Leu Asp Thr Ser Val Ser Thr Ala Tyr
65 70 75 80

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

Ala Arg

<210> 54

<211> 20

<212> PRT

<213> Secuencia artificial

<220>

<223> Secuencia artificial

<400> 54

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

Thr Val Ser Ser
20

<210> 55
<211> 19
<212> PRT
<213> Secuencia artificial

<220>
<223> Secuencia artificial

<400> 55

Met Glu Trp Ser Trp Val Phe Leu Phe Phe Leu Ser Val Thr Thr Gly
1 5 10 15

Val His Ser

<210> 56
<211> 57
<212> ADN
<213> Secuencia artificial

<220>
<223> Secuencia artificial

<400> 56
atggaatggt catgggtctt tctgttcttt ctgtcagtca caaccgggggt ccacagt 57

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

<220>
<223> Secuencia artificial

<400> 57
atggaatggt cttgggtctt tctgttcttt ctgtccgtca ctaccgggggt ccactca 57

<210> 58
<211> 20
<212> PRT
<213> Secuencia artificial

<220>
<223> Secuencia artificial

<400> 58

Met Ser Val Pro Thr Gln Val Leu Gly Leu Leu Leu Trp Leu Thr
1 5 10 15

Asp Ala Arg Cys
20

<210> 59
<211> 60
<212> ADN
<213> Secuencia artificial

<220>
<223> Secuencia artificial

<400> 59
atgtccgtgc ctactcaggt gctggggctg ctgctgctgt ggctgaccga cgctagatgt 60

<210> 60
<211> 328
<212> PRT
<213> Secuencia artificial

<220>
<223> Secuencia artificial

<400> 60

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

Arg Val Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys
100 105 110

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

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

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

Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu
165 170 175

Gln Phe Asn Ser Thr Phe Arg Val Val Ser Val Leu Thr Val Val His
180 185 190

Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys
195 200 205

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

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

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

Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn
260 265 270

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

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

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

Lys Ser Leu Ser Leu Ser Pro Gly
325

<210> 61
<211> 984
<212> ADN
<213> Secuencia artificial

<220>
<223> Secuencia artificial

<400> 61
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ggcacagcag cactgggggtg tctgggtgaag gactacttcc cagagcccggt caccgtgtca 120
tggaacagcg gagcactgac tagcggagtc cacaccttcc cagccgtgct gcagagctcc 180
ggactgtact ccctgtctag tgtggtcaca gtgccttcaa gctccctggg gactcagacc 240
tatatctgca acgtgaatca caagccctcc aatactaagg tcgacaaacg agtggagcct 300
aagtcttgtg ataaaacaca tacttgcccc cctgtcctg ctccaccagc cgctgcacca 360
agcgtgttcc tgtttcctcc aaagcccaaa gacacactga tgatcagcag aactcctgag 420
gtcacctgcg tggctgtgga cgtgtccac gaggatcccg aagtccagtt taactggtac 480
gtggatgggg tcgaagtgca taatgcaaag actaaacctc gggaggaaca gttcaactct 540
acctttagag tcgtgagtg gctgacagtc gtgcaccagg actggctgaa cggaaaggag 600
tataagtgca aagtgtctaa taagggcctg cccgcccta tcgagaaaac aattagtaag 660
actaaaggcc agccaaggga accccagggtg tacacactgc cccctagtcg cgaggaaatg 720
acaaagaacc aggtctcact gacttgtctg gtgaaagggt tctatccatc cgacattgcc 780
gtggagtggg aatctaattg acagcccga aacaattaca agaccacacc acctatgctg 840
gacagcgatg gatccttctt tctgtattca aagctgaccg tggataaaag ccggtggcag 900
cagggaatg tcttttctg ctctgtgatg cacgaagccc tgcaaacca ctacactcag 960
aagtcctgt ccctgtctcc tggc 984

<210> 62
<211> 325
<212> PRT
<213> Secuencia artificial

<220>
<223> Secuencia artificial

<400> 62

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
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
325

<210> 63
<211> 975
<212> ADN
<213> Secuencia artificial

<220>
<223> Secuencia artificial

<400> 63
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tggaactcag gcgccctgac cagcggagtc cacacattc ccgctgtgct gcagagctcc 180
ggcctgtact ccctgtctag tgtggtcacc gtgcctcaa gcaatttcgg gactcagacc 240
tatacatgca acgtggacca taagccatct aatactaagg tcgataaaac cgtggagcga 300
aaatcctgcg tggaatgcc acctgtcct gtcaccag ccgctgcacc aagcgtgttc 360
ctgtttcctc caaagcccaa agacacactg atgatcagca gaactcctga ggacacctgc 420
gtggctgtgg acgtgtcca cgaggatccc gaagtccagt ttaactggta cgtggatggg 480
gtcgaagtgc ataatgcaa gactaaacct cgggaggaac agttcaactc taccttaga 540
gtcgtgagtg tgctgacagt cgtgcaccag gactggctga acggaaagga gtataagtc 600
aaagtgtcta ataagggcct gcccggccct atcgagaaaa caattagtaa gactaaaggc 660
cagccaaggg aaccccaggt gtacacactg cccctagtc gcgaggaaat gacaaagaac 720

caggtctcac tgacttgtct ggtgaaaggg ttctatccat ccgacattgc cgtggagtgg 780
gaatctaata gacagccga aaacaattac aagaccacac cacccatgct ggacagcgat 840
ggatccttct ttctgtatc aaagctgacc gtggataaaa gccggtggca gcagggcaat 900
gtcttttct gctctgtgat gcacgaagcc ctgcacaacc actacactca gaagtcctg 960
tccctgtctc ctggc 975

<210> 64
<211> 107
<212> PRT
<213> Secuencia artificial

<220>
<223> Secuencia artificial

<400> 64

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> 65
<211> 321
<212> ADN
<213> Secuencia artificial

<220>
<223> Secuencia artificial

<400> 65
 cgtacggtcg cgcggccctc cgtgtttatt tttctccat ctgacgaaca gctgaagagt 60
 gggaccgcct ccgtgggtgtg cctgctgaac aatttctacc cccgggagggc caaggtgcag 120
 tggaaagtcg acaacgctct gcagtctggc aatagtcagg agtcagtgac tgaacaggac 180
 agcaaggatt ccacctattc tctgagctcc accctgacac tgagcaaagc agattacgaa 240
 aagcaciaag tctatgcctg cgaagtgacc caccaggggc tgagcagtc agtgaccaag 300
 tcctttaaca ggggagagtg t 321

<210> 66
 <211> 124
 <212> PRT
 <213> Secuencia artificial

<220>
 <223> Secuencia artificial

<400> 66

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

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

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

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

Thr Gly Arg Phe Val Phe Ser Leu Asp Thr Ser Val Ser Thr Ala Tyr
 65 70 75 80

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

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

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

<210> 67

<211> 372
<212> ADN
<213> Secuencia artificial

<220>
<223> Secuencia artificial

<400> 67
caggtccagc tgggccagtc agggagcgaa ctgaagaaac caggcgcatc agtgaaggtc 60

agctgcaaag cctccgggta taccttcaca gactactcta tgcactgggt gcggcaggct 120

ccaggacagg gactggagtg gatgggggtgg atcaacactg agaccggaga acctacctat 180

gctcagggtc tcaccggcag attcgtgttt agcctggaca catctgtcag tactgcatac 240

ctgcagatca gctccctgaa ggccgaagat accgctgtct actattgtgc caggattccc 300

ctgtactatt acgggagcag gtattggat tttgatgtct gggggcaggg aacaaccgtc 360

actgtcagca gc 372

<210> 68
<211> 124
<212> PRT
<213> Secuencia artificial

<220>
<223> Secuencia artificial

<400> 68

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

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

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

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

Thr Gly Arg Phe Val Phe Ser Leu Asp Thr Ser Val Ser Thr Ala Tyr
65 70 75 80

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

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

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

<210> 69
<211> 372
<212> ADN
<213> Secuencia artificial

<220>
<223> Secuencia artificial

<400> 69
caggtccagc tggtcagtc agggagcgaa ctgaagaaac caggcgcatc agtgaaggtc 60
agctgcaaag cctccgggta taccttcaca gactactcta tgcactgggt gcggcaggct 120
ccaggacagg gactgaagtg gatgggggtgg atcaacactg agaccggaga acctacctat 180
gctcagggtc tcaccggcag attcgtgttt agcctggaca catctgtcag tactgcatac 240
ctgcagatca gctccctgaa ggccgaagat accgctgtct actattgtgc caggattccc 300
ctgtactatt acgggagcag gtattggtat ttgatgtct ggggggcaggg aacaaccgtc 360
actgtcagca gc 372

<210> 70
<211> 124
<212> PRT
<213> Secuencia artificial

<220>
<223> Secuencia artificial

<400> 70

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

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

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

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

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

Gly Trp Ile Asn Thr Glu Thr Gly Glu Pro Thr Tyr Ala Asp Asp Phe
50 55 60

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

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

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

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

<210> 73
<211> 372
<212> ADN
<213> Secuencia artificial

<220>
<223> Secuencia artificial

<400> 73
caggtgcagc tgggtgcagtc tgggagcgaa ctgaagaaac caggggcatc agtgaaggtc 60
agctgcaaag cctccggata taccttcaca gactactcta tgcactgggt gcggcaggct 120
ccaggacagg gactggagtg gatgggatgg atcaacactg agaccggcga acctacctat 180
gctgacgatt ttaagggcag attcgtgttt agcctggaca catctgtcag tactgcatac 240
ctgcagatca gctccctgaa agccgaagat acagctgtct actattgtgc caggattccc 300
ctgtactatt acggaagcag gtattgggat ttgatgtct gggggcaggg aacaactgtg 360
actgtgtcct cc 372

<210> 74
<211> 124
<212> PRT
<213> Secuencia artificial

<220>
<223> Secuencia artificial

<400> 74

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

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

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

Gly Trp Ile Asn Thr Glu Thr Gly Glu Pro Thr Tyr Ala Asp Asp Phe
50 55 60

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

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

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

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

<210> 75

<211> 372

<212> ADN

<213> Secuencia artificial

<220>

<223> Secuencia artificial

<400> 75

caggtgcagc tgggtgcagtc tgggagcgaa ctgaagaaac caggggcatc agtgaaggct 60

agctgcaaag cctccggata taccttcaca gactactcta tgcactgggt gcggcaggct 120

ccaggacagg gactgaagtg gatgggatgg atcaacactg agaccggcga acctacctat 180

gctgacgatt ttaagggcag attcgtgttt agcctggaca catctgtcag tactgcatac 240

ctgcagatca gctccctgaa agccgaagat acagctgtct actattgtgc caggattccc 300

ctgtactatt acggaagcag gtattggtat ttgatgtct gggggcaggg aacaactgtg 360

actgtgtcct cc 372

<210> 76
<211> 124
<212> PRT
<213> Secuencia artificial

<220>
<223> Secuencia artificial

<400> 76

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

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

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

Gly Trp Ile Asn Thr Glu Thr Gly Glu Pro Thr Tyr Ala Asp Asp Phe
50 55 60

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

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

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

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

<210> 77
<211> 372
<212> ADN
<213> Secuencia artificial

<220>
<223> Secuencia artificial

<400> 77

cagatccagc tgggtgcagtc tgggagcgaa ctgaagaaac cagggggcatc agtgaaggct 60

agctgcaaag cctccggata taccttcaca gactactcta tgcactgggt gcggcaggct 120

ccaggacagg gactgaagtg gatgggatgg atcaacactg agaccggcga acctacctat 180
gctgacgatt ttaagggcag attcgtgttt agcctggaca catctgtcag tactgcatac 240
ctgcagatca gctccctgaa agccgaagat acagctgtct actattgtgc caggattccc 300
ctgtactatt acggaagcag gtattggtat ttgatgtct gggggcaggg aacaactgtg 360
actgtgtcct cc 372

<210> 78
<211> 107
<212> PRT
<213> Secuencia artificial

<220>
<223> Secuencia artificial

<400> 78

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 Glu Asn Ile Tyr Arg Asn
20 25 30

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

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

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

Glu Asp Phe Ala Thr Tyr Tyr Cys Gln His Phe Trp Gly Thr Pro Trp
85 90 95

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

<210> 79
<211> 321
<212> ADN
<213> Secuencia artificial

<220>
<223> Secuencia artificial

<400> 79
gatatccaga tgaccagtc tccttctct ctgagtgtt cagtgggcga ccgggtcacc 60

atcacatgca gagcaagcga gaacatctac aggaatctgg cctggatatca gcagaagccc 120

ggcaaagctc ctaagctgct ggtgtacgcc gctaccaacc tggcagatgg agtgccaagc 180

cgggttcagcg gatccggatc tggaacagac tatactctga ccatcagctc cctgcagccc 240

gaagattttg ccactacta ttgtcagcat ttctggggca caccttggac ctcggggcag 300

ggaactaaag tggagattaa g 321

<210> 80
<211> 107
<212> PRT
<213> Secuencia artificial

<220>
<223> Secuencia artificial

<400> 80

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 Glu Asn Ile Tyr Arg Asn
20 25 30

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

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

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

Glu Asp Phe Ala Thr Tyr Tyr Cys Gln His Phe Trp Gly Thr Pro Trp
85 90 95

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

<210> 81
<211> 321
<212> ADN
<213> Secuencia artificial

<220>
<223> Secuencia artificial

<400> 81
gatatccaga tgaccagtc tccttctct ctgagtgtt cagtgggcga ccgggtcacc 60
atcacatgca gagcaagcga gaacatctac aggaatctgg cctggatatca gcagaagccc 120
ggcaaagctc ctaagctgct gctgtacgcc gctaccaacc tggcagatgg agtgccaagc 180
cgggtcagcg gatccggatc tggaacagac tatactctga ccatcagctc cctgcagtcc 240
gaagattttg ccacttacta ttgtcagcat ttctggggca caccttggac ctcggggcag 300
ggaactaaag tggagattaa g 321

<210> 82
<211> 107
<212> PRT
<213> Secuencia artificial

<220>
<223> Secuencia artificial

<400> 82

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 Glu Asn Ile Tyr Arg Asn
20 25 30

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

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

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

Glu Asp Phe Ala Thr Tyr Tyr Cys Gln His Phe Trp Gly Thr Pro Trp
85 90 95

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

<210> 83
<211> 321

<212> ADN
<213> Secuencia artificial

<220>
<223> Secuencia artificial

<400> 83
gatatccaga tgaccagtc tccttctct ctgagtgctt cagtgggcca ccgggtcacc 60

atcacatgca gagcaagcga gaacatctac aggaatctgg cctggatatca gcagaagccc 120

ggcaaagctc ctcaactgct gctgtacgcc gctaccaacc tggcagatgg agtgccaagc 180

cgggttcagcg gatccggatc tggaacagac tatactctga ccatcagctc cctgcagccc 240

gaagattttg ccacttacta ttgtcagcat ttctggggca caccttggac ctcggggcag 300

ggaactaaag tggagattaa g 321

<210> 84
<211> 107
<212> PRT
<213> Secuencia artificial

<220>
<223> Secuencia artificial

<400> 84

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

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

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

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

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

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

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

<210> 85
<211> 321
<212> ADN
<213> Secuencia artificial

<220>
<223> Secuencia artificial

<400> 85
gaaatcgtga tgaccagtc tccgccact ctgtctgtga gtccaggcga gcgggctacc 60
ctgtcttgca gagcaagcga aaacatctac aggaatctgg cctgggtatca gcagaagcca 120
ggacagtctc ctgactgct gatctacgcc gctacaaacc tggcagacgg gattcccgca 180
cgattctcag gaagcggatc cggaaccgag tataccctga caattagctc cctgcagagc 240
gaagatttcg cgtctacta ttgtcagcat ttctggggaa caccttggac attcgggcag 300
ggaactaaag tggagattaa g 321